Douglas Partners
Geotechnics / Environment / Groundwater

Integrated Practical Solutions

Report on
Preliminary Site Investigation (Contamination)

Trinity Grammar School
113 – 119 Prospect Road, Summer Hill

Prepared for
Trinity Grammar School

Project 86861.00
October 2019

Douglas Partners
Geotechnics / Environment / Groundwater

Document History

Document details

Project No.	86861.00	Document No.	R.002
Document title	Report on Preliminary Site Investigation (Contamination) Trinity Grammar School		
Site address	113 – 119 Prospect Road, Summer Hill		
Report prepared for	Trinity Grammar School		
File name	86861.00.R.002.Rev0.Contam		

Document status and review

Revision	Prepared by	Reviewed by	Date issued
DftA	P Oitmaa	J Russell	27 September 2019
Rev0	P Oitmaa	J Russell	31 October 2019

Distribution of copies

Revision	Electronic	Paper	Issued to
DftA	1	0	Bloompark Consulting (Mr Peter Brogan)
Rev0	1	0	Bloompark Consulting (Mr Peter Brogan)

The undersigned, on behalf of Douglas Partners Pty Ltd, confirm that this document and all attached drawings, logs and test results have been checked and reviewed for errors, omissions and inaccuracies.

	Signature	Date
Author		31 October 2019
Reviewer		31 October 2019

bsi. ISO 9001 Quality Management
FS 604853

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Report on Preliminary Site Investigation (Contamination)
Trinity Grammar School
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1. Introduction

This report prepared by Douglas Partners Pty Ltd (DP) presents the results of a Preliminary Site Investigation (Contamination) undertaken for a proposed redevelopment at Trinity Grammar School, 113 – 119 Prospect Road, Summer Hill. The investigation was undertaken for Trinity Grammar School in consultation with Bloompark Consulting Pty Ltd, project managers. The work was completed in accordance with DP's proposal SYD190691 dated 5 July 2019.

It is understood that the development is likely to include the construction of new buildings at several locations on the site, although details are yet to be finalised.

The Preliminary Site Investigation was undertaken to:

- assess the previous land uses to determine the potential for soil and groundwater contamination on the site;
- provide a preliminary assessment of the suitability of the site for the proposed development; and
- provide recommendations for additional investigation, if required.

The Preliminary Site Investigation has been prepared to address the requirements of DUAP/NSW EPA (1998) State Environmental Planning Policy No. 55 (SEPP 55). The overall approach for the Preliminary Site Investigation included a review of readily available historical information, an inspection of the site by an engineer, and a review of limited soil sampling and laboratory analysis undertaken for the project in July 2019. Details of the investigation are given in this report, as well as comments on the issues outlined above. This report has not specifically been prepared for review by a Site Auditor.

Geotechnical investigations were also undertaken for the project and are reported separately.

2. Site Description

Trinity Grammar School is located on a near rectangular block bounded by Seaview Street to the north, Prospect Road to the east, Yeo Park to the south and Victoria Street to the west. Several residential properties along Seaview Street are also included within the block.

The site is located towards the top of a low ridge that runs in an east-west direction. The ground surface slopes downwards to the north-east and south-east which changes in elevation from about RL 52 m AHD adjacent to Victoria Street to about RL 42 m AHD at the north-eastern corner of the site. There are several terraced fields on the site that have been formed during previous developments.

The site is shown in Drawing C1 in Appendix B. The parcel of land is legally known as Lot 11 in DP 1171965.

3. Regional Geology and Hydrogeology

The *Sydney 1:100 000 Geological Series Sheet* indicates that the site is underlain by Ashfield Shale which typically comprises a residual clay profile overlying variably weathered dark grey shale, laminite and siltstone. An extract from the geological map overlain by 2 m surface contours is shown in Figure 1.

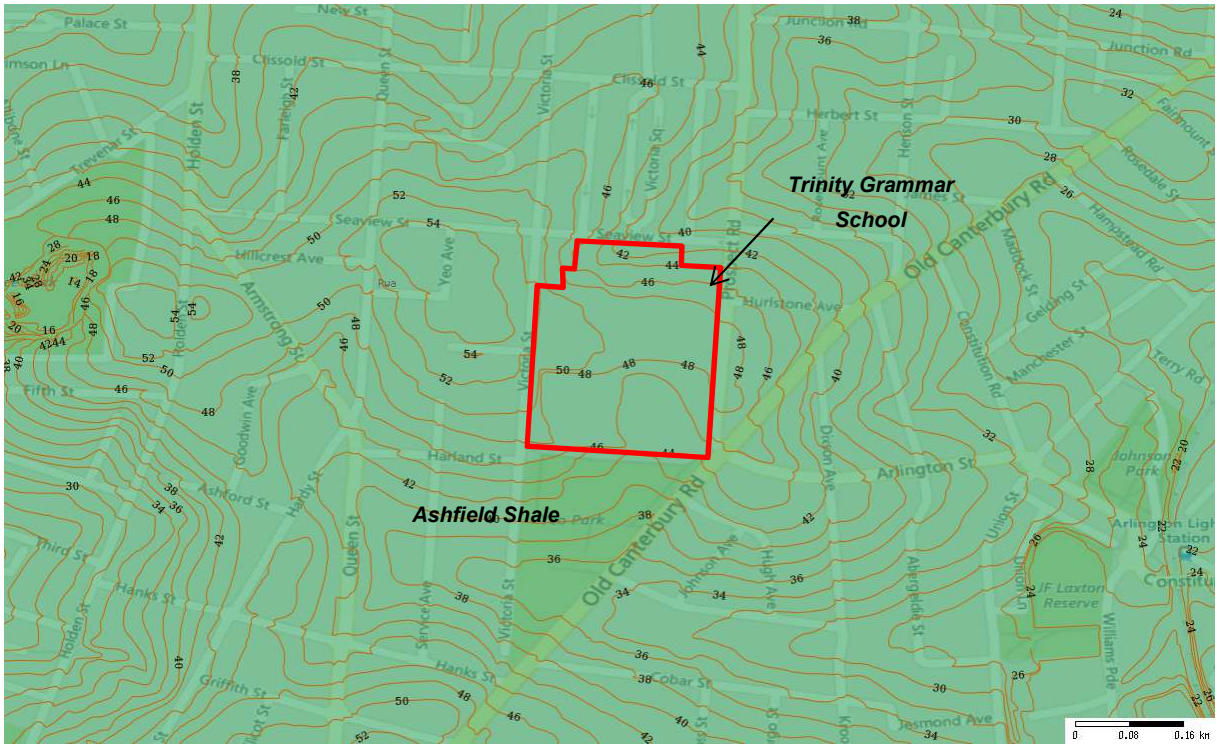

Figure 1: Extract from geological map overlain by 2 m surface contours

The topography of the site suggests that regional groundwater is likely to flow in either a northerly or southerly direction. Groundwater in this geology is typically of poor quality (i.e. saline / high dissolved salts) and low yield and is not considered to be a high value potential resource.

4. Scope of Works

The scope of the Preliminary Site Investigation was as follows:

- Review various readily available historical documents including historical aerial photographs, land title information, the Section 10.7 planning certificate, the EPA Contaminated Land register and groundwater bore licences to assess the nature of previous activities that may have occurred on the site;

- Undertake a site inspection to observe and document any obvious contamination risks;
- Review the results of sampling and laboratory analysis for a range of potential contaminants including:
  - Total recoverable hydrocarbons (TRH)
  - Benzene, Toluene, Ethylbenzene, Xylene (BTEX)
  - Polycyclic aromatic hydrocarbons (PAH)
  - Organochlorine pesticides and organophosphorus pesticides (OCP & OPP)
  - Polychlorinated biphenyls (PCB)
  - Heavy metals (As, Cd, Cr, Cu, Pb, Hg, Ni and Zn)
  - Asbestos
- Provide a Preliminary Site Investigation report which comments on the historical uses of the site, the contaminant status of the samples tested, the potential for soil and groundwater contamination to be present, and provides recommendations for follow up action (if required).

5. Site History

5.1 Aerial Photographs

Aerial photographs from 1943, 1951, 1961, 1970, 1978, 1991, 2005 and 2019 were used to assess historical land-use patterns on the site. The 1943 photograph shows that the school buildings are largely confined to the north-eastern portion of the site, with vacant land and playing fields across the remainder of the site. Residential dwellings are located along the northern boundary except for one vacant lot which presumably provides access to the school.

The 1951 photograph shows that new buildings have been constructed in the north-eastern portion of the site and the ovals appear more defined. An access road/ramp appears midway along the western boundary.

The 1961 photograph shows additional buildings in the north-eastern area of the site. The 1970 photograph shows additional buildings in the northern and central portions. The vegetation along the site boundaries is more pronounced. The 1978 photograph shows similar conditions.

The 1991 photograph shows some modifications/additional structures in the northern portion of the site. The 2005 image shows the basement area beneath the cricket nets and the access ramp along the southern boundary. A new structure over the former tennis courts is also evident.

The 2019 image shows the site as it was at the time of the investigation. A basement carpark exists beneath the northern oval, the aquatic centre is located in the north-eastern corner of the site, and new school buildings have been constructed along the northern boundary following demolition of several former dwellings.

The aerial photographs are attached in Appendix C.

5.2 Historical Land Title Information and Potential Historical Land Uses

A review of historical land title information was undertaken. The former dwellings along the northern boundary were generally owned by individuals or the Church of England Property Trust prior to purchase by Trinity Grammar School between 1928 and 2002. The larger school site was owned by the Church of England Property Trust prior to purchase/transfer by/to Trinity Grammar School in 1959.

The previous inferred land uses appear to have been limited to residential housing and education. The historical land title information is included in Appendix D.

5.3 Planning Certificate

The Section 10.7(2) & (5) planning certificate for the site was obtained from Inner West Council. The certificate states that the land is not significantly contaminated within the meaning of the *Contaminated Land Management Act 1997*, is not the subject of a management order, is not the subject of an approved voluntary management proposal, is not the subject of an ongoing maintenance order, and is not the subject of a site audit statement.

The planning certificate is included in Appendix E.

5.4 Contaminated Lands Register

The site is not identified as being significantly contaminated under the *Contaminated Lands Management Act 1997* as at 27 September 2019 based on an online search of the register. Further, the site is not on the 17 September 2019 version of the 'List of NSW Contaminated Sites Notified to EPA'.

5.5 Licenced Groundwater Bores

A search of licenced groundwater bores indicated that there are no licenced wells within at least 500 m of the site. This indicates that the groundwater aquifer is unlikely to be productive, as indicated by the regional geology, and may be at considerable depth.

6. Preliminary Conceptual Site Model

The site history information indicates that the site has primarily been used for residential and educational purposes. There is no indication of heavy industry or other uses that have the potential to significantly contaminate the land or groundwater.

Potentially contaminating activities that may have occurred on the site include:

- The placement of fill on the site;
- On-site disposal of waste (i.e. landfilling) from the dwellings in the early to mid-20th Century;
- Demolition of buildings containing hazardous building materials (e.g. Lead, asbestos after the mid-20th Century etc.); and
- Contaminants associated with building maintenance (e.g. pesticides).

The use of groundwater within the development is not proposed. The quality of the groundwater from a land-use perspective will therefore only be of significance if volatile contaminants are present. As the groundwater table is likely to be at considerable depth this risk is considered to be low.

Soil vapour intrusion and/or ground gas will only need to be considered if significant concentrations of volatile organic compounds are encountered on the site.

The human receptors to soil contamination are likely to be the students, staff and visitors to the school. Construction personnel, nearby residents/visitors and the general public may also be receptors during the construction phase of the redevelopment project.

The ecological receptors are likely to be limited to the flora and fauna that grow/live on the site. The area is not known to be ecologically significant.

Exposure pathways are expected to be limited to dermal contact with soils on the site by humans, ingestion of soils and vegetation by fauna, and phytotoxic exposure to flora.

7. Results of Inspection

DP undertook an inspection of the site during the field work phase of the investigation project. The school was observed to be in a well-maintained facility and obvious signs of significant contamination were not encountered during our inspection/investigation.

8. Field Work Methods

The field work included the drilling of one auger drilled borehole (BH01) to a depth of 8.6m and eleven rock-cored boreholes (BH02 to BH12) to depths of between 10.2 m and 13.4 m using track-mounted Hanjin DB8 drilling rigs. The boreholes were commenced using solid flight augers until bedrock was encountered. Standard penetration tests (SPTs) were carried out at regular intervals and soil samples were collected for laboratory testing in each borehole. Boreholes BH02 to BH12 were then extended into bedrock using NMLC diamond core drilling techniques to obtain continuous core samples of the bedrock.

Two boreholes (BH02 and BH04) were converted into groundwater monitoring wells by installing Class 18 uPVC screen and casing.

The locations of the boreholes are shown on Drawing C1 in Appendix B.

Environmental sampling was performed according to standard operating procedures outlined in the DP *Field Procedures Manual*. All sampling data was recorded on DP chain of custody sheets. The general sampling and sample management procedures comprised:

- Collection of samples into laboratory-prepared glass jars with Teflon lined lids by hand, capping immediately and ensuring headspace within the sample jar is minimised;
- Collection of a replicate sample in a zip-lock bag for PID screening;
- A new disposable nitrile glove was worn by the field scientist / engineer for each sample collected thereby precluding potential cross-contamination;
- Collection of 10% replicate samples for QC purposes;
- Labelling of sample containers with individual and unique identification details, including project number, sample location and sample depth (where applicable); and
- Placement of the sample jars into a cooled, insulated and sealed container for transport to the laboratory.

9. Field Work Results

The subsurface conditions encountered during the investigation are presented in the borehole logs in Appendix F. Notes defining descriptive terms and classification methods are included in Appendix A.

The boreholes encountered:

- FILL – silty clay, clayey sand / sandy clay, igneous gravel and sand with varying proportions of ironstone and shale gravel, silt and ash to depths of between 0.2 m and 4.3 m;
- RESIDUAL SOIL – generally stiff to hard silty clay with varying proportions of ironstone gravel to depths of between 1.7 m and 10.0 m in all boreholes. A layer of firm clay was encountered at limited depths in boreholes BH09, BH11 and BH12;

- BEDROCK – very low to low strength shale from depths of between 1.7 m and 7.5 m, becoming medium and/or high strength with depth. In borehole BH12 rock was not encountered until 10.0 m depth and was of medium strength. A very high strength (possibly siderite) band was encountered in boreholes BH03, BH04, BH06, BH10 and BH12.

Groundwater seepage was observed during auger drilling in boreholes BH01, BH10, BH11 and BH12 at depths of between 2.0 m and 7.5 m. The use of drilling fluid during coring prevented further observations with depth. The levels in the groundwater wells were measured on 23 August 2019 and the results are summarised in Table 1.

Table 1: Groundwater Level Observations (Depth, m and (RL, m AHD))

Date	BH02	BH04
23 August 2019	2.9 (44.4)	2.9 (44.6)

10. Laboratory Testing

Envirolab Services Pty Ltd (Envirolab) was commissioned to undertake the analysis of the soil samples. A summary of the results is provided in Table G1 in Appendix G. The detailed report sheets and chain-of-custody documentation are also included in Appendix G.

11. Selected Comparative Criteria

The *National Environment Protection (Assessment of Site Contamination) Measure, Schedule B1 – Guideline on Investigation Levels for Soil and Groundwater* (NEPC, 2013) provides assessment levels for various soil, groundwater and vapour contaminants. The site is assumed to be a category 'A' site (i.e. HIL A) which uses include primary schools. This is a conservative category for the areas which are used by only secondary students or as open space.

Ecological-based assessment is based on the relevant screening levels/added concentrations for fine-grained sites due to the clayey nature of the soil profile.

The preliminary quantitative site assessment criteria adopted are shown in Table G2 in Appendix G.

Waste classification criteria are provided in Table G3 in Appendix G.

12. Discussion of Results

Twelve soil samples (excluding two QC replicates) from 12 test locations were analysed for metals (arsenic, cadmium, chromium, copper, lead, mercury, nickel and zinc), TRH, BTEX, PAH, OCP, OPP and PCB. All the samples analysed recorded concentrations of metals, TRH, BTEX, PAH, OCP, OPP and PCB that were below the adopted site assessment criteria with the exception of one sample which marginally exceeded the ESL for B(a)P. The 95% upper confidence limit (UCL) of the arithmetic mean (95% UCL) for B(a)P was, however, below the adopted criterion of 0.7 mg/kg and the minor exceedance is therefore not considered to be of concern.

Eleven soil samples from 11 test locations were analysed for asbestos (presence / absence). Asbestos was not detected in any of the 11 samples analysed.

Data quality assurance and quality control (QA/QC) for the soil dataset included the collection and analysis of replicate samples at a rate of 10%. The replicate samples were tested and the results compared against the primary sample results and the relative percent difference (RPD) between the two concentrations was calculated. Based on a review of the RPD results and the in-house laboratory QA/QC results, the data is considered to be of an acceptable standard and suitable to interpret site conditions.

13. Conclusions and Recommendations

On the basis of the results of this Preliminary Site Investigation, the main contamination risks are considered to be associated with previous development works such as filling and demolition of former buildings, and site maintenance activities. The potential for contamination to be present from industry or other similar sources is considered to be low.

The laboratory testing indicated that the contaminant concentrations in all soil samples analysed were within the adopted health-based and ecological-based investigation/screening levels noting the minor exceedance of the ESL for B(a)P in one sample which is not considered to be of concern.

Asbestos was not encountered in any of the soil samples analysed, however the presence of asbestos in fill should not be discounted due to previous demolition activities that have been undertaken on the site.

The beneficial use (abstraction) of groundwater is not currently proposed and the groundwater table is likely to be well below the level of the proposed development. The risk of groundwater contamination impacting upon the development is therefore considered to be low.

On the basis of the investigation undertaken to date, it is considered that the risk of significant contamination being present, that prevents the redevelopment of the site without significant remediation, is low.

If any contamination is identified during construction (e.g. waste filling, asbestos etc.) then an appropriate response will need to be developed by an environmental consultant and actioned on site to ensure site suitability. This could be undertaken by enacting an Unexpected Finds Protocol (UFP) as part of the Construction Environmental Management Plan (CEMP).

Any materials required to be removed from the site will need to be classified in accordance with the current *Waste Classification Guidelines* (NSW EPA, 2014). The classification of the samples tested to date would be General Solid Waste (non-putrescible) based on statistical analysis of the CT1 criteria when all samples are considered.

14. Limitations

Douglas Partners Pty Ltd (DP) has prepared this report for a project at Trinity Grammar School at 113 – 119 Prospect Road, Summer Hill, in accordance with DPs proposal dated 5 July 2019 and subsequent acceptance received from the client. The report is provided for the use of Trinity Grammar School for this project only and for the purpose(s) described in the report. It should not be used for other projects or by a third party.

The results provided in the report are indicative of the sub-surface conditions only at the specific sampling or testing locations, and then only to the depths investigated and at the time the work was carried out. Subsurface conditions can change abruptly due to variable geological processes and also as a result of anthropogenic influences. Such changes may occur after DPs field testing has been completed.

DPs advice is based upon the conditions encountered during this investigation. The accuracy of the advice provided by DP in this report may be limited by undetected variations in ground conditions between sampling locations. In preparing this report DP has necessarily relied upon information provided by the client and/or their agents.

This report must be read in conjunction with all of the attached notes and should be kept in its entirety without separation of individual pages or sections. DP cannot be held responsible for interpretations or conclusions made by others unless they are supported by an expressed statement, interpretation, outcome or conclusion given in this report.

This report, or sections from this report, should not be used as part of a specification for a project, without review and agreement by DP. This is because this report has been written as advice and opinion rather than instructions for construction.

The contents of this report do not constitute formal design components such as are required, by the Health and Safety Legislation and Regulations, to be included in a Safety Report specifying the hazards likely to be encountered during construction and the controls required to mitigate risk.

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Appendix A

About this Report

About this Report

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Introduction

These notes have been provided to amplify DP's report in regard to classification methods, field procedures and the comments section. Not all are necessarily relevant to all reports.

DP's reports are based on information gained from limited subsurface excavations and sampling, supplemented by knowledge of local geology and experience. For this reason, they must be regarded as interpretive rather than factual documents, limited to some extent by the scope of information on which they rely.

Copyright

Borehole and Test Pit Logs

The borehole and test pit logs presented in this report are an engineering and/or geological interpretation of the subsurface conditions, and their reliability will depend to some extent on frequency of sampling and the method of drilling or excavation. Ideally, continuous undisturbed sampling or core drilling will provide the most reliable assessment, but this is not always practicable or possible to justify on economic grounds. In any case the boreholes and test pits represent only a very small sample of the total subsurface profile.

Interpretation of the information and its application to design and construction should therefore take into account the spacing of boreholes or pits, the frequency of sampling, and the possibility of other than 'straight line' variations between the test locations.

Groundwater

Where groundwater levels are measured in boreholes there are several potential problems, namely:

- In low permeability soils groundwater may enter the hole very slowly or perhaps not at all during the time the hole is left open;
- A localised, perched water table may lead to an erroneous indication of the true water table;
- Water table levels will vary from time to time with seasons or recent weather changes. They may not be the same at the time of construction as are indicated in the report; and
- The use of water or mud as a drilling fluid will mask any groundwater inflow. Water has to be blown out of the hole and drilling mud must first be washed out of the hole if water measurements are to be made.

More reliable measurements can be made by installing standpipes which are read at intervals over several days, or perhaps weeks for low permeability soils. Piezometers, sealed in a particular stratum, may be advisable in low permeability soils or where there may be interference from a perched water table.

Reports

The report has been prepared by qualified personnel, is based on the information obtained from field and laboratory testing, and has been undertaken to current engineering standards of interpretation and analysis. Where the report has been prepared for a specific design proposal, the information and interpretation may not be relevant if the design proposal is changed. If this happens, DP will be pleased to review the report and the sufficiency of the investigation work.

Every care is taken with the report as it relates to interpretation of subsurface conditions, discussion of geotechnical and environmental aspects, and recommendations or suggestions for design and construction. However, DP cannot always anticipate or assume responsibility for:

- Unexpected variations in ground conditions. The potential for this will depend partly on borehole or pit spacing and sampling frequency;
- Changes in policy or interpretations of policy by statutory authorities; or
- The actions of contractors responding to commercial pressures.

If these occur, DP will be pleased to assist with investigations or advice to resolve the matter.

About this Report

Site Anomalies

In the event that conditions encountered on site during construction appear to vary from those which were expected from the information contained in the report, DP requests that it be immediately notified. Most problems are much more readily resolved when conditions are exposed rather than at some later stage, well after the event.

Information for Contractual Purposes

Where information obtained from this report is provided for tendering purposes, it is recommended that all information, including the written report and discussion, be made available. In circumstances where the discussion or comments section is not relevant to the contractual situation, it may be appropriate to prepare a specially edited document. DP would be pleased to assist in this regard and/or to make additional report copies available for contract purposes at a nominal charge.

Site Inspection

The company will always be pleased to provide engineering inspection services for geotechnical and environmental aspects of work to which this report is related. This could range from a site visit to confirm that conditions exposed are as expected, to full time engineering presence on site.

Sampling Methods

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Sampling

Sampling is carried out during drilling or test pitting to allow engineering examination (and laboratory testing where required) of the soil or rock.

Disturbed samples taken during drilling provide information on colour, type, inclusions and, depending upon the degree of disturbance, some information on strength and structure.

Undisturbed samples are taken by pushing a thin-walled sample tube into the soil and withdrawing it to obtain a sample of the soil in a relatively undisturbed state. Such samples yield information on structure and strength, and are necessary for laboratory determination of shear strength and compressibility. Undisturbed sampling is generally effective only in cohesive soils.

Test Pits

Test pits are usually excavated with a backhoe or an excavator, allowing close examination of the in-situ soil if it is safe to enter into the pit. The depth of excavation is limited to about 3 m for a backhoe and up to 6 m for a large excavator. A potential disadvantage of this investigation method is the larger area of disturbance to the site.

Large Diameter Augers

Boreholes can be drilled using a rotating plate or short spiral auger, generally 300 mm or larger in diameter commonly mounted on a standard piling rig. The cuttings are returned to the surface at intervals (generally not more than 0.5 m) and are disturbed but usually unchanged in moisture content. Identification of soil strata is generally much more reliable than with continuous spiral flight augers, and is usually supplemented by occasional undisturbed tube samples.

Continuous Spiral Flight Augers

The borehole is advanced using 90-115 mm diameter continuous spiral flight augers which are withdrawn at intervals to allow sampling or in-situ testing. This is a relatively economical means of drilling in clays and sands above the water table. Samples are returned to the surface, or may be collected after withdrawal of the auger flights, but they are disturbed and may be mixed with soils from the sides of the hole. Information from the drilling (as distinct from specific sampling by SPTs or undisturbed samples) is of relatively low reliability, due to the remoulding, possible mixing or softening of samples by groundwater.

Non-core Rotary Drilling

The borehole is advanced using a rotary bit, with water or drilling mud being pumped down the drill rods and returned up the annulus, carrying the drill cuttings. Only major changes in stratification can be determined from the cuttings, together with some information from the rate of penetration. Where drilling mud is used this can mask the cuttings and reliable identification is only possible from separate sampling such as SPTs.

Continuous Core Drilling

A continuous core sample can be obtained using a diamond tipped core barrel, usually with a 50 mm internal diameter. Provided full core recovery is achieved (which is not always possible in weak rocks and granular soils), this technique provides a very reliable method of investigation.

Standard Penetration Tests

Standard penetration tests (SPT) are used as a means of estimating the density or strength of soils and also of obtaining a relatively undisturbed sample. The test procedure is described in Australian Standard 1289, Methods of Testing Soils for Engineering Purposes - Test 6.3.1.

The test is carried out in a borehole by driving a 50 mm diameter split sample tube under the impact of a 63 kg hammer with a free fall of 760 mm. It is normal for the tube to be driven in three successive 150 mm increments and the 'N' value is taken as the number of blows for the last 300 mm. In dense sands, very hard clays or weak rock, the full 450 mm penetration may not be practicable and the test is discontinued.

The test results are reported in the following form.

- In the case where full penetration is obtained with successive blow counts for each 150 mm of, say, 4, 6 and 7 as:

  4,6,7
  N=13

- In the case where the test is discontinued before the full penetration depth, say after 15 blows for the first 150 mm and 30 blows for the next 40 mm as:

  15, 30/40 mm

The results of the SPT tests can be related empirically to the engineering properties of the soils.

Dynamic Cone Penetrometer Tests / Perth Sand Penetrometer Tests

Dynamic penetrometer tests (DCP or PSP) are carried out by driving a steel rod into the ground using a standard weight of hammer falling a specified distance. As the rod penetrates the soil the number of blows required to penetrate each successive 150 mm depth are recorded. Normally there is a depth limitation of 1.2 m, but this may be extended in certain conditions by the use of extension rods. Two types of penetrometer are commonly used.

- Perth sand penetrometer - a 16 mm diameter flat ended rod is driven using a 9 kg hammer dropping 600 mm (AS 1289, Test 6.3.3). This test was developed for testing the density of sands and is mainly used in granular soils and filling.
- Cone penetrometer - a 16 mm diameter rod with a 20 mm diameter cone end is driven using a 9 kg hammer dropping 510 mm (AS 1289, Test 6.3.2). This test was developed initially for pavement subgrade investigations, and correlations of the test results with California Bearing Ratio have been published by various road authorities.

Soil Descriptions

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Description and Classification Methods

The methods of description and classification of soils and rocks used in this report are based on Australian Standard AS 1726-1993, Geotechnical Site Investigations Code. In general, the descriptions include strength or density, colour, structure, soil or rock type and inclusions.

Soil Types

Soil types are described according to the predominant particle size, qualified by the grading of other particles present:

Type	Particle size (mm)
Boulder	>200
Cobble	63 - 200
Gravel	2.36 - 63
Sand	0.075 - 2.36
Silt	0.002 - 0.075
Clay	<0.002

The sand and gravel sizes can be further subdivided as follows:

Type	Particle size (mm)
Coarse gravel	20 - 63
Medium gravel	6 - 20
Fine gravel	2.36 - 6
Coarse sand	0.6 - 2.36
Medium sand	0.2 - 0.6
Fine sand	0.075 - 0.2

The proportions of secondary constituents of soils are described as:

Term	Proportion	Example
And	Specify	Clay (60%) and Sand (40%)
Adjective	20 - 35%	Sandy Clay
Slightly	12 - 20%	Slightly Sandy Clay
With some	5 - 12%	Clay with some sand
With a trace of	0 - 5%	Clay with a trace of sand

Definitions of grading terms used are:

- Well graded - a good representation of all particle sizes
- Poorly graded - an excess or deficiency of particular sizes within the specified range
- Uniformly graded - an excess of a particular particle size
- Gap graded - a deficiency of a particular particle size with the range

Cohesive Soils

Cohesive soils, such as clays, are classified on the basis of undrained shear strength. The strength may be measured by laboratory testing, or estimated by field tests or engineering examination. The strength terms are defined as follows:

Description	Abbreviation	Undrained shear strength (kPa)
Very soft	vs	<12
Soft	s	12 - 25
Firm	f	25 - 50
Stiff	st	50 - 100
Very stiff	vst	100 - 200
Hard	h	>200

Cohesionless Soils

Cohesionless soils, such as clean sands, are classified on the basis of relative density, generally from the results of standard penetration tests (SPT), cone penetration tests (CPT) or dynamic penetrometers (PSP). The relative density terms are given below:

Relative Density	Abbreviation	SPT N value	CPT qc value (MPa)
Very loose	vl	<4	<2
Loose	l	4 - 10	2 -5
Medium dense	md	10 - 30	5 - 15
Dense	d	30 - 50	15 - 25
Very dense	vd	>50	>25

Soil Descriptions

Soil Origin

It is often difficult to accurately determine the origin of a soil. Soils can generally be classified as:

- Residual soil - derived from in-situ weathering of the underlying rock;
- Transported soils - formed somewhere else and transported by nature to the site; or
- Filling - moved by man.

Transported soils may be further subdivided into:

- Alluvium - river deposits
- Lacustrine - lake deposits
- Aeolian - wind deposits
- Littoral - beach deposits
- Estuarine - tidal river deposits
- Talus - scree or coarse colluvium
- Slopewash or Colluvium - transported downslope by gravity assisted by water. Often includes angular rock fragments and boulders.

Rock Strength

Rock strength is defined by the Point Load Strength Index ($Is_{(50)}$) and refers to the strength of the rock substance and not the strength of the overall rock mass, which may be considerably weaker due to defects. The test procedure is described by Australian Standard 4133.4.1 - 2007. The terms used to describe rock strength are as follows:

Term	Abbreviation	Point Load Index $Is_{(50)}$ MPa	Approximate Unconfined Compressive Strength MPa*
Extremely low	EL	<0.03	<0.6
Very low	VL	0.03 - 0.1	0.6 - 2
Low	L	0.1 - 0.3	2 - 6
Medium	M	0.3 - 1.0	6 - 20
High	H	1 - 3	20 - 60
Very high	VH	3 - 10	60 - 200
Extremely high	EH	>10	>200

* Assumes a ratio of 20:1 for UCS to $Is_{(50)}$. It should be noted that the UCS to $Is_{(50)}$ ratio varies significantly for different rock types and specific ratios should be determined for each site.

Degree of Weathering

The degree of weathering of rock is classified as follows:

Term	Abbreviation	Description
Extremely weathered	EW	Rock substance has soil properties, i.e. it can be remoulded and classified as a soil but the texture of the original rock is still evident.
Highly weathered	HW	Limonite staining or bleaching affects whole of rock substance and other signs of decomposition are evident. Porosity and strength may be altered as a result of iron leaching or deposition. Colour and strength of original fresh rock is not recognisable
Moderately weathered	MW	Staining and discolouration of rock substance has taken place
Slightly weathered	SW	Rock substance is slightly discoloured but shows little or no change of strength from fresh rock
Fresh stained	Fs	Rock substance unaffected by weathering but staining visible along defects
Fresh	Fr	No signs of decomposition or staining

Degree of Fracturing

The following classification applies to the spacing of natural fractures in diamond drill cores. It includes bedding plane partings, joints and other defects, but excludes drilling breaks.

Term	Description
Fragmented	Fragments of <20 mm
Highly Fractured	Core lengths of 20-40 mm with some fragments
Fractured	Core lengths of 40-200 mm with some shorter and longer sections
Slightly Fractured	Core lengths of 200-1000 mm with some shorter and longer sections
Unbroken	Core lengths mostly > 1000 mm

Rock Descriptions

Rock Quality Designation

The quality of the cored rock can be measured using the Rock Quality Designation (RQD) index, defined as:

$$\text{RQD \%} = \frac{\text{cumulative length of 'sound' core sections} \geq 100 \text{ mm long}}{\text{total drilled length of section being assessed}}$$

where 'sound' rock is assessed to be rock of low strength or better. The RQD applies only to natural fractures. If the core is broken by drilling or handling (i.e. drilling breaks) then the broken pieces are fitted back together and are not included in the calculation of RQD.

Stratification Spacing

For sedimentary rocks the following terms may be used to describe the spacing of bedding partings:

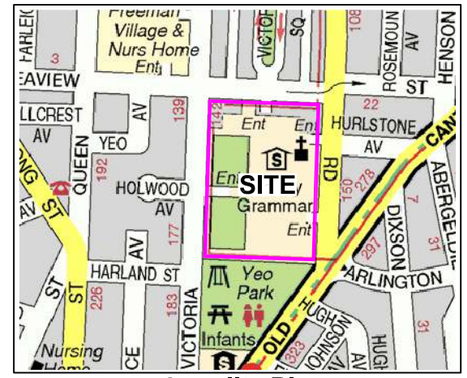
Term	Separation of Stratification Planes
Thinly laminated	< 6 mm
Laminated	6 mm to 20 mm
Very thinly bedded	20 mm to 60 mm
Thinly bedded	60 mm to 0.2 m
Medium bedded	0.2 m to 0.6 m
Thickly bedded	0.6 m to 2 m
Very thickly bedded	> 2 m

Appendix B

Drawing

0 5 10 20 30 40 50 75 100 125m

1:1250 @ A3



Locality Plan

NOTE:
1: Base image from Nearmap.com
(Dated 1.7.2019)

LEGEND

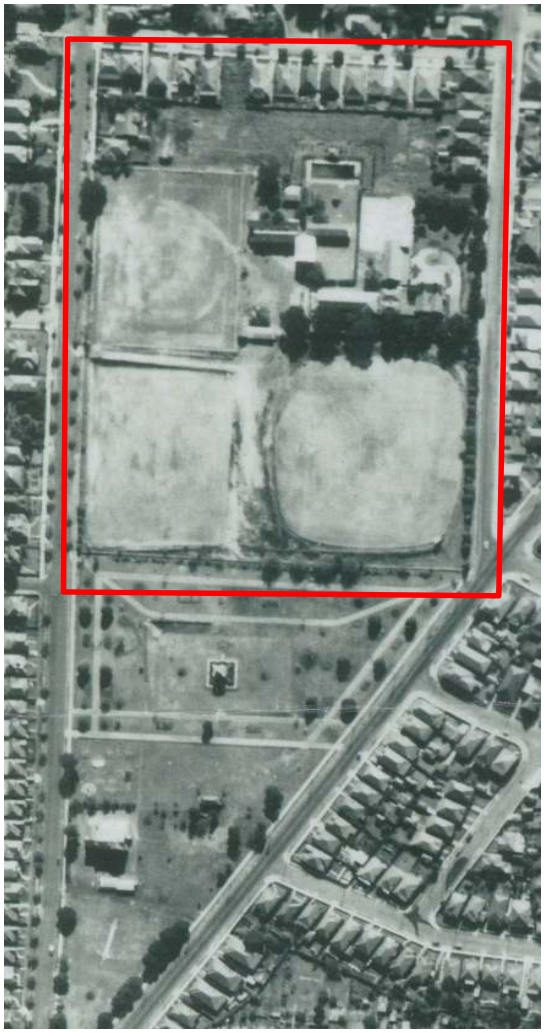
Borehole location

Douglas Partners Geotechnics / Environment / Groundwater	CLIENT: Trinity Grammar School	TITLE: **Borehole Location & Site Plan** **Trinity Grammar School** **113 - 119 Prospect Road, SUMMER HILL**	PROJECT No: 86861.00
	OFFICE: Sydney / DRAWN BY: PSCH		DRAWING No: C1
	SCALE: 1:1250 @ A3 / DATE: 26.9.2019		REVISION: 0

Appendix C

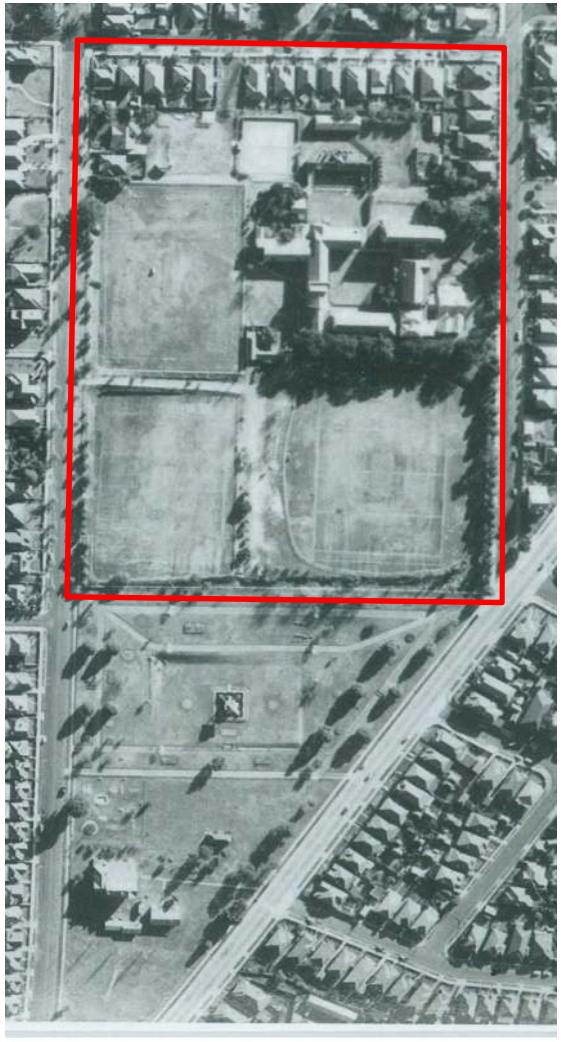
Historical Aerial Photographs

1943

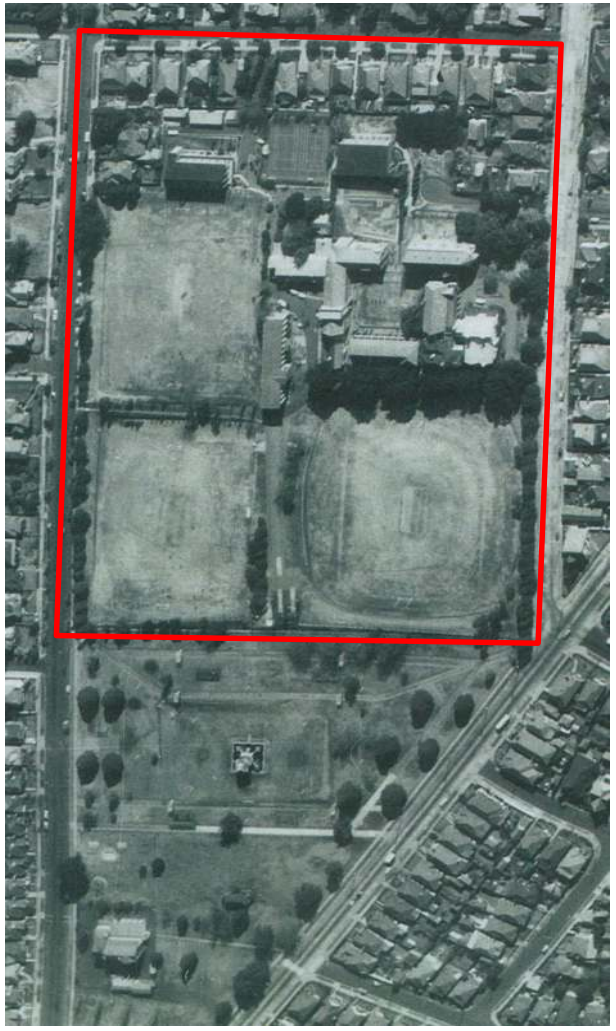


1951

Douglas Partners Geotechnics / Environment / Groundwater	CLIENT: Trinity Grammar School	**Historical Aerial Photographs**	PROJECT No: 86861.00
	OFFICE: Sydney	**Trinity Grammar School**	PLATE No: 1
	DATE: 25 Sep 2019	**113-119 Prospect Road, Summer Hill**	REVISION: 0

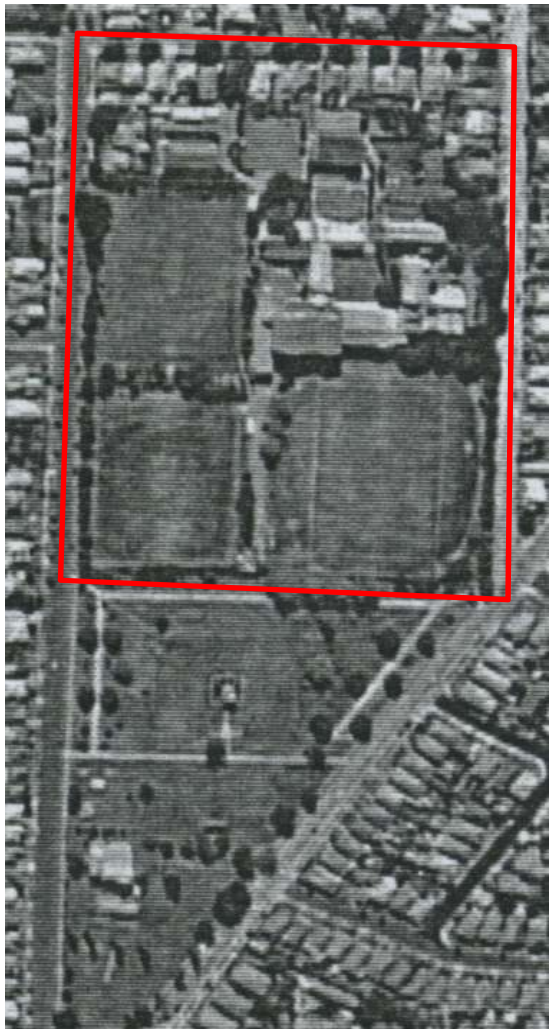


1961



1970

Douglas Partners Geotechnics / Environment / Groundwater	CLIENT: Trinity Grammar School	**Historical Aerial Photographs**	PROJECT No: 86861.00
	OFFICE: Sydney	**Trinity Grammar School**	PLATE No: 2
	DATE: 25 Sep 2019	**113-119 Prospect Road, Summer Hill**	REVISION: 0



1978

1991

Douglas Partners Geotechnics / Environment / Groundwater	CLIENT: Trinity Grammar School	**Historical Aerial Photographs**	PROJECT No: 86861.00
	OFFICE: Sydney	**Trinity Grammar School**	PLATE No: 3
	DATE: 25 Sep 2019	**113-119 Prospect Road, Summer Hill**	REVISION: 0

2005

2019

Douglas Partners Geotechnics / Environment / Groundwater	CLIENT: Trinity Grammar School	**Historical Aerial Photographs**	PROJECT No: 86861.00
	OFFICE: Sydney	**Trinity Grammar School**	PLATE No: 4
	DATE: 25 Sep 2019	**113-119 Prospect Road, Summer Hill**	REVISION: 0

Appendix D

Land Title Information

ABN: 36 092 724 251
Ph: 02 9099 7400
(Ph: 0412 199 304)

Level 14, 135 King Street, Sydney
Sydney 2000
GPO Box 4103 Sydney NSW 2001
DX 967 Sydney

Summary of Owners Report

LRS NSW **Sydney**

Address: - 113 to 119 Prospect Road, Summer Hill

Description: - Lot 11 D.P. 1171965

As regards the part shown numbered (1) on the attached Cadastral Records Enquiry Report

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale
07.12.1931 (1931 to 1940)	William Herbert Arnold Tootill (Public Accountant)	Vol 4511 Fol 85
04.04.1940 (1940 to 1940)	Rose Priscilla Matthews (Married Woman)	Vol 4511 Fol 85
03.07.1940 (1940 to 1970)	Gweneth Rose Matthews (Spinster) James Leo Page (Traveller)	Vol 4511 Fol 85
12.02.1970 (1970 to 1993)	Turner Shoes Pty Limited	Vol 4511 Fol 85 Now 7/15765
12.08.1993 (1993 to 2002)	James Leo Page (Retired)	7/15765
10.04.2002 (2002 to 2002)	Lisa Suzanne Berndt Sandra Rosemary Batey (Executors of the Will of James Leo Page)	7/15765
02.08.2002 (2002 to date)	# Trinity Grammar School Now # The Council of the Trinity Grammar School	7/15765 Now 11/1171965

Denotes current registered proprietor

As regards the part shown numbered (2) on the attached Cadastral Records Enquiry Report

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale
17.09.1928 (1928 to 1939)	Church of England Property Trust Diocese of Sydney	Vol 4735 Fol 86
11.08.1939 (1939 to 1940)	Charles Thomas Inman (Builder)	Vol 4735 Fol 86 Now Vol 5092 Fol 198
08.04.1940 (1940 to 1940)	Frank Inman (Builder)	Vol 5092 Fol 198
14.06.1940 (1940 to 1961)	Elizabeth Bailey (Widow)	Vol 5092 Fol 198
10.101.1961 (1961 to 1962)	Burton Bruce Bailey (Principal of Technical College)	Vol 5092 Fol 198
09.01.1962 (1962 to date)	# The Council of Trinity Grammar School	Vol 5092 Fol 198 Now 11/1171965

Denotes current registered proprietor

ABN: 36 092 724 251
Ph: 02 9099 7400
(Ph: 0412 199 304)

Level 14, 135 King Street, Sydney
Sydney 2000
GPO Box 4103 Sydney NSW 2001
DX 967 Sydney

As regards the part shown numbered (3) on the attached Cadastral Records Enquiry Report

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale
27.01.1926 (1926 to 1928)	David Petrie Sinclair (Commercial Traveller) George Alexander Chambers (Clerk in Holy Orders)	Vol 3824 Fol 63
17.09.1928 (1928 to 1959)	Church of England Property Trust Diocese of Sydney	Vol 3824 Fol 63 Now Vol 5252 Fol 17
24.08.1959 (1959 to date)	# The Council of Trinity Grammar School	Vol 5252 Fol 17 Now 11/1171965

Denotes current registered proprietor

As regards the part shown numbered (4) on the attached Cadastral Records Enquiry Report

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale
27.01.1926 (1926 to 1928)	David Petrie Sinclair (Commercial Traveller) George Alexander Chambers (Clerk in Holy Orders)	Vol 3824 Fol 63
17.09.1928 (1928 to 1941)	Church of England Property Trust Diocese of Sydney	Vol 3824 Fol 63 Now Vol 5252 Fol 16
14.02.1941 (1941 to 1941)	Nicholas Joseph Meagher (Civil Servant)	Vol 5252 Fol 16
28.08.1941 (1941 to 1959)	John Preston Cordukes (Builder)	Vol 5252 Fol 16
16.11.1959 (1959 to date)	# The Council of Trinity Grammar School	Vol 5252 Fol 16 Now 11/1171965 (Computer Title 10/15765 not investigated)

Denotes current registered proprietor

As regards the part shown numbered (5) on the attached Cadastral Records Enquiry Report

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale
27.01.1926 (1926 to 1928)	David Petrie Sinclair (Commercial Traveller) George Alexander Chambers (Clerk in Holy Orders)	Vol 3824 Fol 63
17.09.1928 (1928 to 1930)	Church of England Property Trust Diocese of Sydney	Vol 3824 Fol 63
14.02.1930 (1930 to 1937)	Grace Hilda Greaves (Spinster) Now Grace Hilda Lees (Married Woman)	Vol 3824 Fol 63 Now Vol 4395 Fol 82
20.08.1937 (1937 to 1938)	Herbert Horace Dening (Builder)	Vol 4395 Fol 82
28.02.1938 (1938 to 1959)	Edwin Arthur Pryke (Law Clerk)	Vol 4395 Fol 82

ABN: 36 092 724 251
Ph: 02 9099 7400
(Ph: 0412 199 304)

Level 14, 135 King Street, Sydney
Sydney 2000
GPO Box 4103 Sydney NSW 2001
DX 967 Sydney

Continued as regards the part shown numbered (5) on the attached Cadastral Records Enquiry Report

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale
06.05.1959 (1959 to date)	# The Council of Trinity Grammar School	Vol 4395 Fol 82 Now 11/1171965 (Computer Title 11/15765 not investigated)

Denotes current registered proprietor

As regards the part shown numbered (6) on the attached Cadastral Records Enquiry Report

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale
27.01.1926 (1926 to 1928)	David Petrie Sinclair (Commercial Traveller) George Alexander Chambers (Clerk in Holy Orders)	Vol 3824 Fol 63
17.09.1928 (1928 to 1929)	Church of England Property Trust Diocese of Sydney	Vol 3824 Fol 63
30.04.1929 (1929 to 1952)	Arthur Still (Builder)	Vol 3824 Fol 63 Now Vol 4287 Fol 99
25.09.1952 (1952 to 1973)	Thomas George Myers (Freeholder)	Vol 4287 Fol 99
02.05.1973 (1973 to 1975)	Florence Margaret Myers (Widow) (Section 93 Application not investigated)	Vol 4287 Fol 99
20.05.1975 (1975 to 1976)	Patrick James Myers (Clerk)	Vol 4287 Fol 99
09.04.1976 (1976 to 1995)	Saturino Sainz (Carpenter) Casilda Sainz (Married Woman)	Vol 4287 Fol 99 Now 12/15765
10.10.1995 (1995 to date)	# The Council of Trinity Grammar School	12/15765 Now 11/1171965

Denotes current registered proprietor

As regards the part shown numbered (7) on the attached Cadastral Records Enquiry Report

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale
27.01.1926 (1926 to 1928)	David Petrie Sinclair (Commercial Traveller) George Alexander Chambers (Clerk in Holy Orders)	Vol 3824 Fol 63
17.09.1928 (1928 to 1929)	Church of England Property Trust Diocese of Sydney	Vol 3824 Fol 63
12.04.1929 (1929 to 1953)	Arthur Still (Builder)	Vol 3824 Fol 63 Now Vol 4282 Fol 146
14.02.1953 (1953 to 1969)	Stanley James Elliott (Pharmacist)	Vol 4282 Fol 146
25.10.1969 (1969 to 1978)	Frank Mervyn Budden (Foreman Fitter) Daina Budden (Married Woman)	Vol 4282 Fol 146

ABN: 36 092 724 251
Ph: 02 9099 7400
(Ph: 0412 199 304)

Level 14, 135 King Street, Sydney
Sydney 2000
GPO Box 4103 Sydney NSW 2001
DX 967 Sydney

Continued as regards the part shown numbered (7) on the attached Cadastral Records Enquiry Report

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale
27.12.1978 (1978 to 1993)	Daina Budden (Librarian)	Vol 4282 Fol 146 Now 13/15765
28.04.1993 (1993 to date)	# The Council of Trinity Grammar School	13/15765 Now 11/1171965

Denotes current registered proprietor

As regards the part shown numbered (8) on the attached Cadastral Records Enquiry Report

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale
27.01.1926 (1926 to 1928)	David Petrie Sinclair (Commercial Traveller) George Alexander Chambers (Clerk in Holy Orders)	Vol 3824 Fol 63
17.09.1928 (1928 to 1935)	Church of England Property Trust Diocese of Sydney	Vol 3824 Fol 63 Now Vol 4735 Fol 86
18.10.1935 (1935 to 1941)	Lilian Leah Caldwell (Married Woman)	Vol 4735 Fol 86 Now Vol 4739 Fol 66
28.03.1941 (1941 to 1987)	Ronald Leslie Morris (Public Servant) (& His Deceased Estate)	Vol 4739 Fol 66
19.05.1987 (1987 to date)	# Trinity Grammar School Now # The Council of the Trinity Grammar School	Vol 4739 Fol 66 Now 11/1171965 (Computer Title 14/15765 not investigated)

Denotes current registered proprietor

As regards the part shown numbered (9) on the attached Cadastral Records Enquiry Report

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale
27.01.1926 (1926 to 1928)	David Petrie Sinclair (Commercial Traveller) George Alexander Chambers (Clerk in Holy Orders)	Vol 3824 Fol 63
17.09.1928 (1928 to 1930)	Church of England Property Trust Diocese of Sydney	Vol 3824 Fol 63
30.01.1930 (1930 to 1930)	Roy Bernard Johns (Builder)	Vol 3824 Fol 63 Now Vol 4387 Fol 116
25.10.1930 (1930 to 1959)	May Ethel Anson (Spinster) Now May Ethel Buckland (Married Woman) Lewis John Buckland (Engineer)	Vol 4387 Fol 116

ABN: 36 092 724 251
Ph: 02 9099 7400
(Ph: 0412 199 304)

Level 14, 135 King Street, Sydney
Sydney 2000
GPO Box 4103 Sydney NSW 2001
DX 967 Sydney

Continued as regards the part shown and numbered (9) on the attached Cadastral Records Enquiry Report

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale
02.06.1959 (1959 to 1991)	Neil Gillies (Sales Manager)	Vol 4387 Fol 116 Now 15/15765
16.07.1991 (1991 to date)	# The Council of Trinity Grammar School	15/15765 Now 11/1171965

Denotes current registered proprietor

As regards the part shown numbered (10) on the attached Cadastral Records Enquiry Report

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale
27.01.1926 (1926 to 1928)	David Petrie Sinclair (Commercial Traveller) George Alexander Chambers (Clerk in Holy Orders)	Vol 3824 Fol 63
17.09.1928 (1928 to 1929)	Church of England Property Trust Diocese of Sydney	Vol 3824 Fol 63
18.09.1929 (1929 to 1959)	Emily Queeney (Spinster)	Vol 3824 Fol 63 Now Vol 4340 Fol 202
20.02.1959 (1959 to 1967)	Crossley James Fielder (Bread Carter)	Vol 4340 Fol 202
29.08.1967 (1967 to 1970)	Joan Marie Johnson (Married Woman) (Section 94 Application not investigated)	Vol 4340 Fol 202 Now Vol 11279 Fol 71
28.04.1970 (1970 to 1970)	James Joseph Mealing (Timber Worker)	Vol 11279 Fol 71
11.09.1970 (1970 to 1994)	Peter Langley Hewins (Motor Engineer) Joan Catherine Hewins (Married Woman)	Vol 11279 Fol 71 Now 20/15765
16.06.1994 (1994 to 1994)	Joan Catherine Hewins (Widow)	20/15765
01.08.1994 (1994 to date)	# The Council of Trinity Grammar School	20/15765 Now 11/1171965

Denotes current registered proprietor

ABN: 36 092 724 251
Ph: 02 9099 7400
(Ph: 0412 199 304)

Level 14, 135 King Street, Sydney
Sydney 2000
GPO Box 4103 Sydney NSW 2001
DX 967 Sydney

As regards the part shown numbered (11) on the attached Cadastral Records Enquiry Report

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale
27.01.1926 (1926 to 1928)	David Petrie Sinclair (Commercial Traveller) George Alexander Chambers (Clerk in Holy Orders)	Vol 3824 Fol 63
17.09.1928 (1928 to 1929)	Church of England Property Trust Diocese of Sydney	Vol 3824 Fol 63
27.08.1929 (1929 to 1946)	Earlwood Investments Limited Now Earlwood Investments Pty Limited	Vol 3824 Fol 63 Now Vol 4336 Fol 62
17.10.1946 (1946 to 1954)	Venus Fleming (Widow)	Vol 4336 Fol 62
04.02.1954 (1954 to 1971)	Miriam Rashleigh (Married Woman)	Vol 4336 Fol 62
02.07.1971 (1971 to 1971)	Keith Ransom (Real Estate Agent) (Section 93 Application not investigated)	Vol 4336 Fol 62
02.07.1971 (1971 to 1972)	Fouad Antoun Harb (Clerk)	Vol 4336 Fol 62
11.02.1972 (1972 to 1986)	Agostino Cacciotti (Storeman) Anna Cacciotti (Married Woman)	Vol 4336 Fol 62
26.11.1986 (1986 to date)	# Trinity Grammar School Now # The Council of the Trinity Grammar School	Vol 4336 Fol 62 Now 11/1171965 (Computer Title 21/15765 not investigated)

Denotes current registered proprietor

As regards the part shown numbered (12) on the attached Cadastral Records Enquiry Report

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale
27.01.1926 (1926 to 1928)	David Petrie Sinclair (Commercial Traveller) George Alexander Chambers (Clerk in Holy Orders)	Vol 3824 Fol 63
17.09.1928 (1928 to 1929)	Church of England Property Trust Diocese of Sydney	Vol 3824 Fol 63
13.02.1929 (1929 to 1929)	Emily Queeney (Spinster)	Vol 3824 Fol 63 Now Vol 4262 Fol 162
12.07.1929 (1929 to 1936)	John Percival Russell (Investor)	Vol 4262 Fol 162
19.10.1936 (1936 to 1940)	Anita Adina Russell (Married Woman)	Vol 4262 Fol 162
20.03.1940 (1940 to 1996)	Cyril Robert William Partridge (Hospital Attendant)	Vol 4262 Fol 162 Now 22/15765
31.05.1996 (1996 to 1996)	Jessie Elizabeth Partridge	22/15765
18.06.1996 (1996 to date)	# The Council of the Trinity Grammar School	22/15765 Now 11/1171965

Denotes current registered proprietor

ABN: 36 092 724 251
Ph: 02 9099 7400
(Ph: 0412 199 304)

Level 14, 135 King Street, Sydney
Sydney 2000
GPO Box 4103 Sydney NSW 2001
DX 967 Sydney

As regards the part shown numbered (13) on the attached Cadastral Records Enquiry Report

Date of Acquisition and term held	**Registered Proprietor(s) & Occupations where available**	**Reference to Title at Acquisition and sale**
27.01.1926 (1926 to 1928)	David Petrie Sinclair (Commercial Traveller) George Alexander Chambers (Clerk in Holy Orders)	Vol 3824 Fol 63
17.09.1928 (1928 to 1930)	Church of England Property Trust Diocese of Sydney	Vol 3824 Fol 63
02.09.1930 (1930 to 1963)	Jack Richard Kime (Master Carrier)	Vol 3824 Fol 63 Now Vol 4443 Fol 10
21.11.1963 (1963 to date)	# The Council of Trinity Grammar School	Vol 4443 Fol 10 Now 11/1171965 (Computer Title 1/15765 not investigated)

Denotes current registered proprietor

As regards the part shown numbered (14) on the attached Cadastral Records Enquiry Report

Date of Acquisition and term held	**Registered Proprietor(s) & Occupations where available**	**Reference to Title at Acquisition and sale**
27.01.1926 (1926 to 1928)	David Petrie Sinclair (Commercial Traveller) George Alexander Chambers (Clerk in Holy Orders)	Vol 3824 Fol 63
17.09.1928 (1928 to 1930)	Church of England Property Trust Diocese of Sydney	Vol 3824 Fol 63 Now Vol 4735 Fol 87
24.08.1959 (1959 to date)	# The Council of Trinity Grammar School	Vol 4735 Fol 87 Now 11/1171965

Denotes current registered proprietor

Leases as regards the whole of the subject land: - NIL

Easements as regards the whole of the subject land: -

- 25.05.1983 (T 380127) Easement to permit encroaching structure to remain
- 25.05.1983 (T 380128) Easement to permit encroaching structure to remain
- 18.09.2001 (D.P. 1033601) Easement for Electricity purposes 3.5 wide
- 18.09.2001 (D.P. 1033601) Right of Carriageway 3.5 wide
- 20.01.2011 (AF 967700) Easement for Electricity and other purposes 3.33 wide
- 08.08.2014 (AI 489249) Easement for Electricity and other purposes 3.3 wide
- 11.01.2016 (AJ 786490) Easement for Electricity and other purposes 3.3 wide

Yours Sincerely,
Mark Groll
26 July 2019

Cadastral Records Enquiry Report : Lot 11 DP 1171965

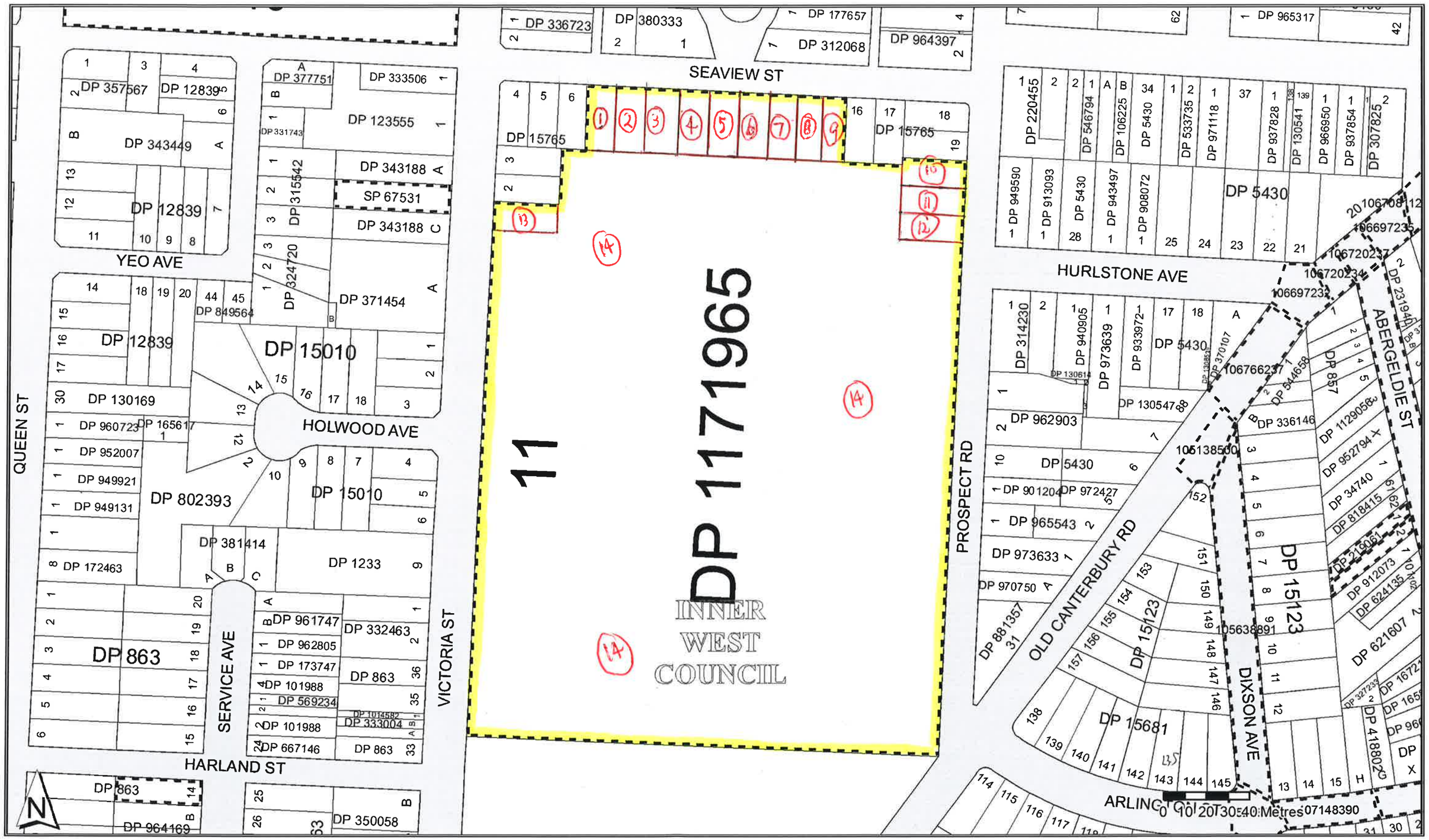
Ref : Summer Hill 113 to 119 Prospect Rd

Locality : ASHFIELD

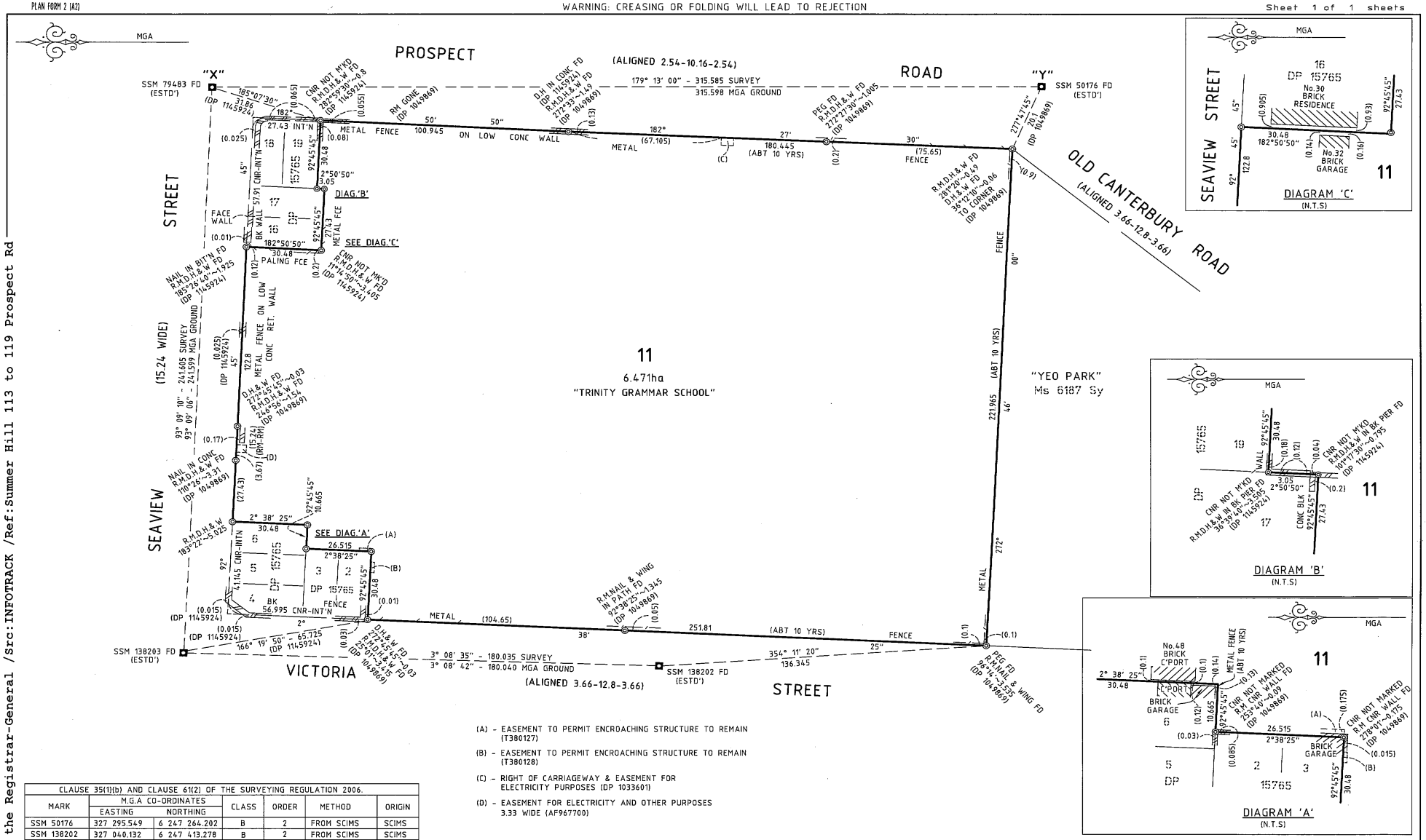
Parish : PETERSHAM

LGA : INNER WEST

County : CUMBERLAND



PLAN FORM 2 (A2) WARNING: CREASING OR FOLDING WILL LEAD TO REJECTION Sheet 1 of 1 sheets



(A) - EASEMENT TO PERMIT ENCROACHING STRUCTURE TO REMAIN (T380127)

(B) - EASEMENT TO PERMIT ENCROACHING STRUCTURE TO REMAIN (T380128)

(C) - RIGHT OF CARRIAGEWAY & EASEMENT FOR ELECTRICITY PURPOSES (DP 1033601)

(D) - EASEMENT FOR ELECTRICITY AND OTHER PURPOSES 3.33 WIDE (AF967700)

CLAUSE 35(1)(b) AND CLAUSE 61(2) OF THE SURVEYING REGULATION 2006.

MARK	M.G.A CO-ORDINATES EASTING	NORTHING	CLASS	ORDER	METHOD	ORIGIN
SSM 50176	327 295.549	6 247 264.202	B	2	FROM SCIMS	SCIMS
SSM 138202	327 040.132	6 247 413.278	B	2	FROM SCIMS	SCIMS
SSM 138203	327 050.009	6 247 593.039	B	2	FROM SCIMS	SCIMS
SSM 79483	327 291.234	6 247 579.756	B	2	FROM SCIMS	SCIMS

MGA CO-ORDINATES ADOPTED FROM SCIMS AS AT 21-09-2010
COMBINED SCALE FACTOR = 0.999961 ZONE: 56.

10 20 30 40 50 Table of mm 90 100 110 120 130 140

Surveyor : BRIAN DEWING
Date of Survey : 1-09-2010
Surveyor's Ref : ES154-57178_DP2

PLAN OF CONSOLIDATION OF LOT 1 IN DP 1145924 AND LOTS 7 & 8 IN DP 15765

LGA: ASHFIELD
Locality : SUMMER HILL
Subdivision No:
Lengths are in metres. Reduction Ratio 1:1000

Registered 05.04.2012

DP1171965 P

DEPOSITED PLAN ADMINISTRATION SHEET

Sheet 1 of 1 sheet

SIGNATURES, SEALS and STATEMENTS of intention to dedicate public roads, to create public reserves, drainage reserves, easements, restrictions on the use of land or positive covenants.

The Common Seal of the Council of Trinity Grammar School was affixed by authority of a Resolution of its Council in the presence of:

RM PEGG
Councillor's name
RICHARD MARK PEGG
Councillor's signature

JC RUDD
Councillor's name
JOHN CLIVEDEN RUDD
Councillor's signature

P.V. COLLINS
Councillor's name
PETER JOHN COLLINS
Councillor's signature

Mortgagee under Mortgage No. AF452220, 6222496, 6222373, 6222325, 6222494, 6222911,
Signed at Sydney this 29th day of NOV 2011 for National Australia Bank Limited ABN 12 004 044 937
by CHI-MAN TSIN
its duly appointed Attorney under Power of Attorney No. 39 Book 4512

Level 3 Attorney

Witness/Bank Officer ANDREW VIVERO

Use PLAN FORM 6A
for additional certificates, signatures, seals and statements

Crown Lands NSW/Western Lands Office Approval

I.....in approving this plan certify
(Authorised Officer)
that all necessary approvals in regard to the allocation of the land shown herein have been given

Signature:.....
Date:.....
File Number:.....
Office:.....

Subdivision Certificate

I certify that the provisions of s.109J of the Environmental Planning and Assessment Act 1979 have been satisfied in relation to:

the proposed.....SUBDIVISION..... set out herein
(insert 'subdivision' or 'new road')

* Authorised Person/~~General Manager/Accredited Certifier~~

Consent Authority: .....ASHFIELD COUNCIL
Date of Endorsement: ...29.....SEPTEMBER.....2011
Accreditation no: .....
Subdivision Certificate no: .....
File no: 10.2011.83.1 & 10.2011.84.1

* Delete whichever is inapplicable.

*

DP1171965 S

*

Registered: 05.04.2012
Title System: TORRENS
Purpose: CONSOLIDATION

PLAN OF CONSOLIDATION OF LOT 1 IN DP 1145924 AND LOTS 7 & 8 IN DP 15765

LGA: ASHFIELD
Locality: SUMMER HILL
Parish: PETERSHAM
County: CUMBERLAND

Surveying and Spatial Information Regulation, 2006

I, Brian Dewing
of Burton & Field P/L, DX 4413, Epping
a surveyor registered under the *Surveying and Spatial Information Act, 2002*, certify that the survey represented in this plan is accurate, has been made in accordance with the *Surveying and Spatial Information Regulation, 2006* and was completed on: 1-09-2010

The survey relates to Lot 11
(specify the land actually surveyed or specify any land shown in the plan that is not the subject of the survey)

Signature .....*Dated: 21-09-2010*
Surveyor registered under the Surveying Act, 2002

Datum Line: "X" – "Y"
Type: Urban

Plans used in the preparation of survey

DP 1049869
DP 15765
DP 1145924

(if insufficient space use Plan Form 6A annexure sheet)

SURVEYOR'S REFERENCE: ES154-57178_DP2

* OFFICE USE ONLY

Form: 01TG
Release: 3·0

TRANSFER GRANTING EASEMENT

AI489249B

New South Wales
Real Property Act 1900

PRIVACY NOTE: Section 31B of the Real Property Act 1900 (RP Act) authorises the Registrar General to collect the information required by this form for the establishment and maintenance of the Real Property Act Register. Section 96B RP Act requires that the Register is made available to any person for search upon payment of a fee, if any.

RELODGED
6.8.14
06 AUG 2014
TIME: 1.30

Plan annexed to dealing fee raised. [initials]

(A) TORRENS TITLE

Servient Tenement	Dominant Tenement
11/1171965	An easement in gross pursuant to S88A of the Conveyancing Act, 1919.

Document Collection Box	Name, Address or DX, Telephone, and Customer Account Number if any	CODE
268D	SYDNEY LEGAL AGENTS - INFOTRACK LLP: 132579W Reference: EMIL / 105451	TG

(C) TRANSFEROR

The Council of Trinity Grammar ~~Council~~. School. ABN 79245605610

(D) The transferor acknowledges receipt of the consideration of $ 1.00

and transfers and grants—

(E) DESCRIPTION OF EASEMENT

AN EASEMENT FOR ELECTRICITY AND OTHER PURPOSES MORE PARTICULARLY DESCRIBED IN ANNEXURE "A"

out of the servient tenement and appurtenant to the dominant tenement.

(F) Encumbrances (if applicable):

(G) TRANSFEREE

AUSGRID
ABN 67 505 337 385

DATE 10 July 2013

other AG590066

(H) I certify I am an eligible witness and that the transferor signed this dealing in my presence.
[See note* below]

Signature of witness:

Name of witness:
Address of witness:

FOR EXECUTION SEE ANNEXURE "C"

Certified correct for the purposes of the Real Property Act 1900 by the transferor.

Signature of transferor:

I certify that I am an eligible witness and that the transferee's attorney signed this dealing in my presence.
[See note* below].

Signature of witness: [signature]

Name of witness: Melissa Kylie Penney
Address of witness: 570 GEORGE ST SYDNEY NSW 2000

Certified correct for the purposes of the Real Property Act 1900 by the transferee's attorney who signed this dealing pursuant to the power of attorney specified.

Signature of attorney: [signature]

Attorney's name: LISA ANNE MAFFINA
Signing on behalf of: AUSGRID
Power of attorney-Book: ~~4538~~ 4641
-No.: ~~401~~ 639

** s117 RP Act requires that you must have known the signatory for more than 12 months or have sighted identifying documentation.*

ALL HANDWRITING MUST BE IN BLOCK CAPITALS

1111

CT D/MULTI ENT
35

Annexure **A** to TRANSFER GRANTING EASEMENT

Parties:

THE COUNCIL OF TRINITY GRAMMAR SCHOOL TO AUSGRID

Dated: 10 July 2013

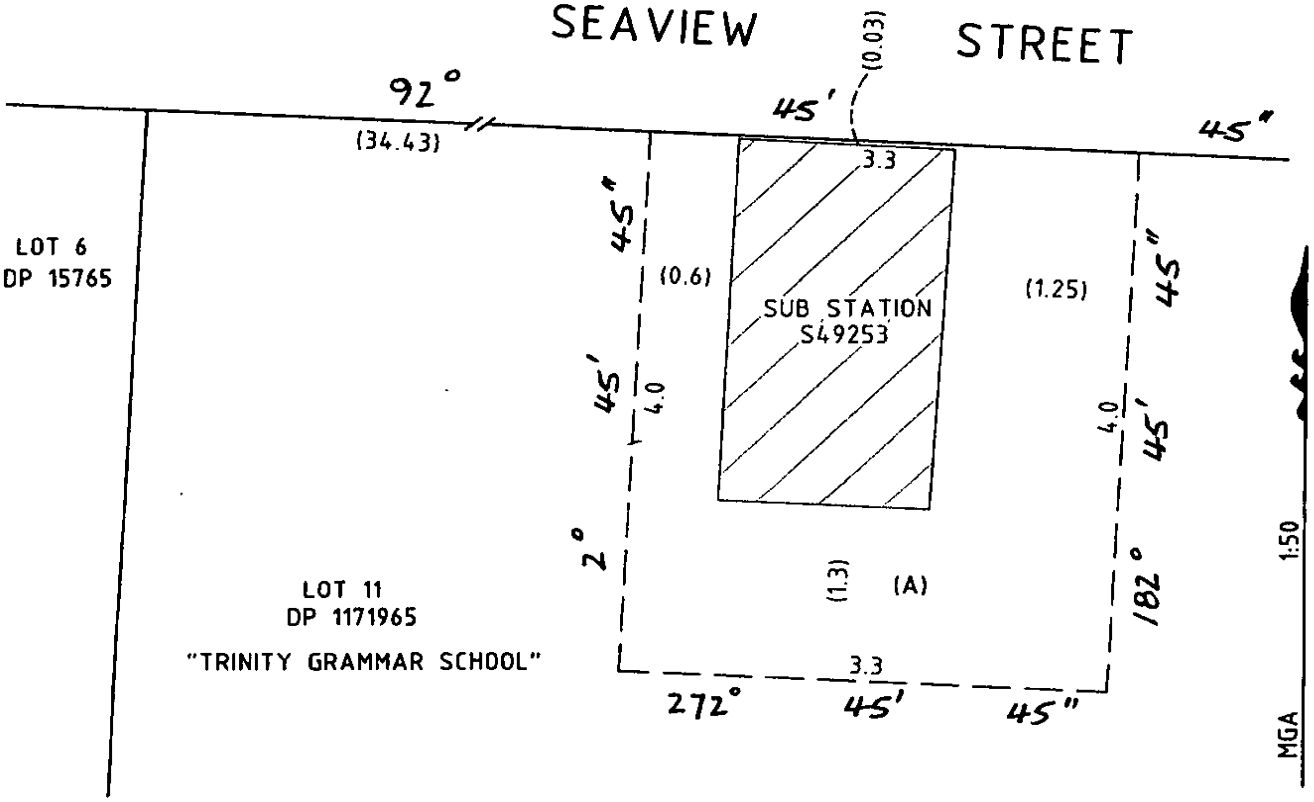
An EASEMENT FOR ELECTRICITY AND OTHER PURPOSES 3.3 WIDE affecting that part of the servient tenement shown as "EASEMENT FOR ELECTRICITY AND OTHER PURPOSES" on the plan annexed and marked "B" on the terms and conditions set out in memorandum registered number AG823691. In this easement, "easement for electricity and other purposes" is taken to have the same meaning as "easement for electricity works" in the memorandum. *3.3 WIDE

ANNEXURE "B" TO TRANSFER GRANTING EASEMENT

PLAN SHOWING EASEMENT FOR ELECTRICITY AND OTHER PURPOSES 3.3 WIDE.

LGA: ASHFIELD
LOCALITY: SUMMER HILL

PARISH: PETERSHAM
COUNTY: CUMBERLAND



(A) EASEMENT FOR ELECTRICITY AND OTHER PURPOSES 3.3 WIDE.

This is the annexure marked "B" mentioned and referred to in the Transfer Granting Easement between Ausgrid of the one part and Trinity Grammar School of the second part.

SIGNATURES

SHEET 3 OF 4

Annexure **C** to TRANSFER GRANTING EASEMENT

Parties:

THE COUNCIL OF TRINITY GRAMMAR SCHOOL TO AUSGRID

Dated: 10 July 2013

The Common Seal of The Council of Trinity Grammar School was affixed by authority of a resolution of its Council in the presence of:

DANE HOWARD COURTNEY
Name

Councillor

ANDREW PAUL KATAY
Name

Councillor

CHRISTOPHER STUART BRAGA
Name

Councillor

National Australia Bank

THIS IS AN ANNEXURE TO **TRANSFER GRANTING EASEMENT** WITH THE COUNCIL OF TRINITY GRAMMAR SCHOOL AS TRANSFEROR AND AUSGRID AS TRANSFEREE DATED 10 JULY 2013

Servient Tenement: 11/1171965
Dominant Tenement: Easement in Gross

NATIONAL AUSTRALIA BANK LIMITED ABN 12 004 044 937 as mortgagee by virtue of Mortgage Registered No. 6222325, 6222296, 6222373, 6222494, 6222911 and AF4522200 hereby consents to the within **Transfer Granting Easement** but without prejudice to and reserving all its rights powers and remedies under its Security.

DATED at SYDNEY this 28th day of February 2014

SIGNED SEALED AND DELIVERED for)
and on behalf of **NATIONAL**)
AUSTRALIA BANK LIMITED ABN 12)
004 044 937 by its Attorney)
who holds the position of)
Level 2 Attorney under)
Power of Attorney Registered No. 39)
Book 4512 in the presence of:)
)

Witness Signature	Attorney Signature
SUBHENDU MALAKAR	ADAM STEPHENSON.
Print Name	Print Name

AI489249

GlobalX Legal Solutions Pty Ltd.
ABN 35 099 032 596

Level 3, 175 Castlereagh Street
Sydney NSW 2000
P 13 5669 I F (02) 9223 8215
www.globalx.com.au

Sydney I Melbourne I Brisbane | Gold Coast I Perth

1 August 2014

Land Property Information
1 Prince Albert Rd, Queens Square
SYDNEY NSW 2000

Our Ref: **EMI – 235956**

Dear Deputy Registrar,

We hereby consent to the registration of Transfer Granting AI489249 lodged by Emil Ford Lawyers.

If you have any questions please do not hesitate to contact me.

Regards,

Roseanne Perez
Team Leader OSR and Land Registry Services NSW
D: (02) 9230 6925
lodgements.nsw@globalx.com.au

RELODGED

06 AUG 2014

TIME:

 AI489249

Bartier Perry Pty Ltd
18/133 Castlereagh Street
Sydney NSW 2000
www.bartier.com.au

DX 109 Sydney
PO Box 2631
Sydney NSW 2001

Tel +61 2 8281 7800
Fax +61 2 8281 7838
ABN 30 124 690 053

Bartier Perry

Registrar General
Land & Property Information
Queens Square
SYDNEY NSW 2000

11 July 2013

Our ref PVC:114328

Dear Registrar General

Ausgrid Acquisition of Easement from The Council of Trinity Grammar School at Prospect Road, Summer Hill

We act for Ausgrid and on its behalf lodged Caveat AG590066 to protect Ausgrid's interest under a Deed of Agreement for Easement.

We consent to registration of a Transfer Granting Easement between The Council of Trinity Grammar School as Transferor and Ausgrid as Transferee.

Caveat AG590066 should be removed on registration of the Transfer Granting Easement.

If you require any additional information, please let us know.

Yours faithfully
Bartier Perry

Peter Cahill | Executive Lawyer
D 8281 7872 **F** 8281 7888 **M** 0412 839 195
pcahill@bartier.com.au

copy to Warwick Weekley - Ausgrid (2011/28873)

RELODGED
06 AUG 2014
TIME: 1.30

Form: 01TG
Release: 2.1
www.lands.nsw.gov.au

TRANSFER GRANTING EASEMEN

New South Wales
Real Property Act 1900

AJ786940J

PRIVACY NOTE: Section 31B of the Real Property Act 1900 (RP Act) authorises the Registrar General to collect the information required by this form for the establishment and maintenance of the Real Property Act Register. Section 96B RP Act requires that the Register is made available to any person for search upon payment of a fee, if any.

(A) **TORRENS TITLE**

Servient Tenement	Dominant Tenement
11/1171965	An easement in gross pursuant to S88A of the Conveyancing Act 1919

(B) **LODGED BY**

Document Collection Box	Name, Address or DX, Telephone, and LLPN if any	CODE
1W	Savills Australia Level 7, 50 Bridge Street Sydney NSW 2000 Reference: ES154-57178	TG

(C) **TRANSFEROR**

The Council of Trinity Grammar School ABN 79245605610

(D) The transferor acknowledges receipt of the consideration of $ 1.00

and transfers and grants—

(E) **DESCRIPTION OF EASEMENT**

AN EASEMENT FOR ELECTRICITY AND OTHER PURPOSES MORE PARTICULARLY DESCRIBED IN ANNEXURE "A"

out of the servient tenement and appurtenant to the dominant tenement.

(F) Encumbrances (if applicable):

(G) **TRANSFEREE**

AUSGRID
ABN 67 505 337 385

DATE

(H) I certify that the person(s) signing opposite, with whom I am personally acquainted or as to whose identity I am otherwise satisfied, signed this instrument in my presence.

Certified correct for the purposes of the Real Property Act 1900 by the transferor.

Signature of witness:

Signature of transferor:

Name of witness:
Address of witness: For Execution see Annexure "C"

I certify that the person(s) signing opposite, with whom I am personally acquainted or as to whose identity I am otherwise satisfied, signed this instrument in my presence.

Certified correct for the purposes of the Real Property Act 1900 by the person(s) named below who signed this instrument pursuant to the power of attorney specified.

Signature of witness:

Lisa Jane Anderson

Name of witness:
Address of witness: 570 George Street
Sydney NSW 2001

Signature of attorney:

Michael McHugh

Attorney's name:
Signing on behalf of: Ausgrid
Power of attorney-Book: 4677
-No.: 685

OFF ~~AJ786940~~
AJ431273

Annexure **A** to TRANSFER GRANTING EASEMENT

Parties:

The Council of Trinity Grammar School to Ausgrid

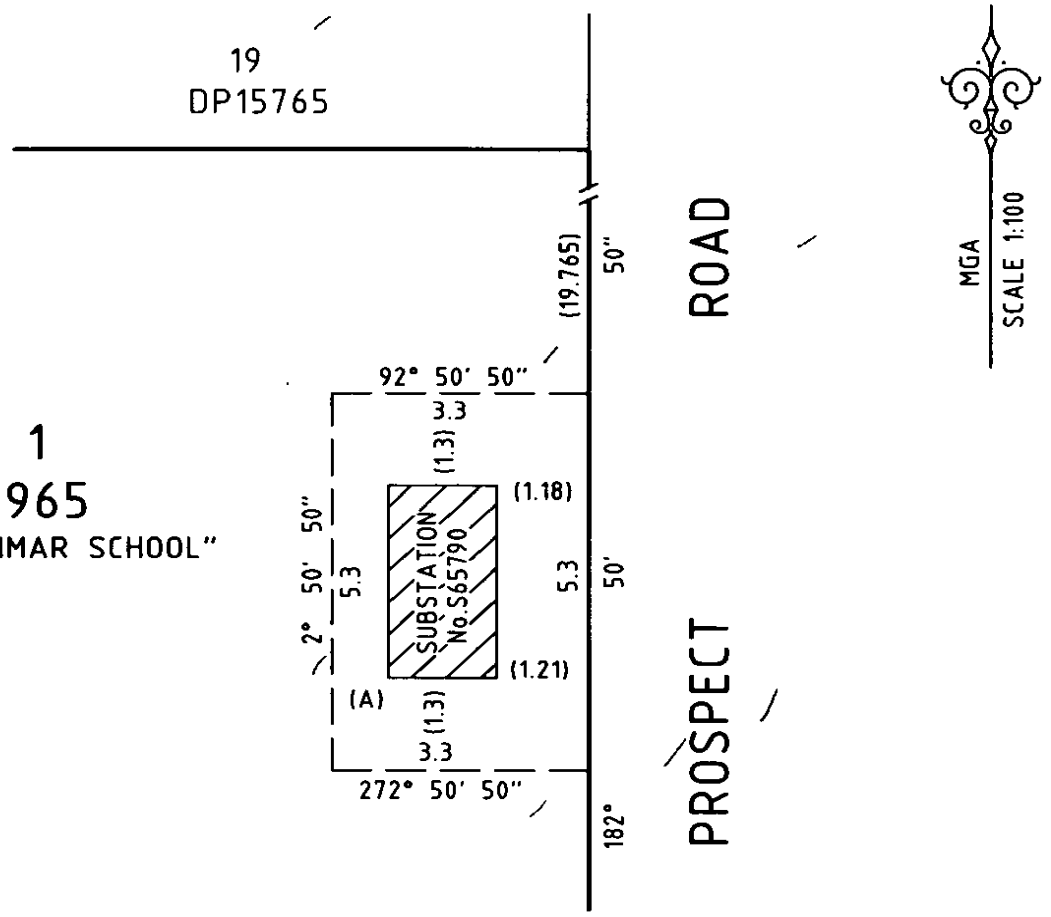
Dated

An EASEMENT FOR ELECTRICITY AND OTHER PURPOSES 3.3 WIDE affecting that part of the servient tenement shown as "EASEMENT FOR ELECTRICITY AND OTHER PURPOSES 3.3 WIDE" on the plan annexed and marked "B" on the terms and conditions set out in memorandum registered number AG823691. In this easement, "easement for electricity and other purposes" is taken to have the same meaning as "easement for electricity works" in the memorandum.

ANNEXURE "B" TO TRANSFER GRANTING EASEMENT

PLAN SHOWING EASEMENT FOR ELECTRICITY AND OTHER PURPOSES 3.3 WIDE.

LGA: ASHFIELD
LOCALITY: SUMMER HILL
PARISH: PETERSHAM
COUNTY: CUMBERLAND



LOT 1
DP1171965
"TRINITY GRAMMAR SCHOOL"

(A) EASEMENT FOR ELECTRICITY AND OTHER PURPOSES 3.3 WIDE.

This is the annexure marked "B" mentioned and referred to in the Transfer Granting Easement between Ausgrid of the one part and Trinity Grammar School of the second part.

SIGNATURES

SHEET 3 OF 4

Annexure **C** to TRANSFER GRANTING EASEMENT

Parties:

The Council of Trinity Grammar School to Ausgrid

Dated

The Common Seal of The Council of Trinity Grammar School was affixed by authority of a resolution of its Council in the presence of:

RICHARD REGG
Name

Councillor

JOHN ALVEDON RUDD
Name

Councillor

PETER JOHN COLLINS
Name

Councillor

EMIL FORD
Lawyers
Incorporating Mackenzie Russell & Co

David C Ford
BA LLM (Hons) FTIA

Fred Chilton
BA LLB (Hons) (SYD) LLM (HARV) RFD

Garry Pritchard
BA LLB NOTARY PUBLIC
Accredited Specialist, Property Law

Nigel Russell
NOTARY PUBLIC

Our Ref: 30955:GP
Garry Pritchard
Garry. Pritchard@emilford.com.au
Your Ref: FI 11/1171965 and AJ786940

22 December 2015

Deputy Registrar
Land & Property Information
1 Prince Albert Road
SYDNEY NSW 2000

Dear Sir/Madam

The Council of Trinity Grammar School

We act for The Council of Trinity Grammar School.

GlobalEx was previously our lodgment agent and lodged DP 1171965 for registration. As National Australia Bank had a mortgage over part of the land that was consolidated into the DP, the title deed that issued on registration of the DP was a dual entitlement CT.

Our client is prepared to give authority to National Australia Bank to have control of the title deed to make it simpler to register dealings in respect of the property. Accordingly, you are authorised to deliver Folio Identifier 11/1171965 to National Australia Bank.

Please note that there is an outstanding requisition in relation to dealing AJ786940. It is our intention, and that of our client, that the requisition be satisfied by authorising in National Australia Bank to have entitlement to the title deed.

Yours faithfully,
EMIL FORD LAWYERS

Per:

(8267)

Municipality of Ashfield

B734252 19-10-28

PLAN

Trinity Grammar School Est.

— of subdivision of part of land in Cert. of Title Vol. 3824 Fol 163 —

Parish of Petersham County of Cumberland

SCALE 50FT TO AN INCH

DEP PLAN 15765

Street

Sea View {AL° 6'-21'-6'} Street

Road

Prospect

Strip of land 17ft Wide to be dedicated for Road Widening

{AL° 12'-42'-12'}

{AL° 8½'-33⅓'-8½'}

Victoria

Trinity Grammar School

Lots 1 to 22 inclusive

Approved by Council of Municipality of Ashfield at C/M 11/9/28 covered by Town Clerk's conditional certificate No. 657-

Town Clerk:

Christian Louis Thomett
by her Attorney
Perpetual Trustee Coy (Limited)

The Seal of the PERPETUAL TRUSTEE COMPANY (LIMITED) was hereunto affixed at Sydney this 13th day of September 1928 by order of the Board of Directors in the presence of

Directors.

Manager.

Commonwealth Bank of Australia
By its Attorney.
W. K. Kelman

Subscribed & declared before me at Sydney this 14th day of September 1928

J. P.

I, Frederick Rupert Hardy of Sydney Licensed Surveyor specially licensed under the Real Property Act 1900, do hereby solemnly & sincerely declare (a) that all boundaries & measurements shown on this plan are correct (b) that all survey marks & relevant physical objects on or adjacent to the boundaries are correctly represented (c) that all physical objects indicated actually exist in the positions shown, (d) that the whole of the material facts in relation to the land are correctly represented (e) that that the survey has been made under my immediate supervision & I make this solemn declaration conscientiously believing the same to be true and by virtue of the provisions of the Oaths Act 1900.

Licensed Surveyor

Date of Survey September 1928

Restrictive Covenants if any will be embodied in Transfers of lots

Datum Line of Azimuth A. B.

Note: It is intended to dedicate the cut-off corners to the Public

Historical Title

NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE
24/7/2019 9:27PM

FOLIO: 7/15765

First Title(s): SEE PRIOR TITLE(S)
Prior Title(s): VOL 4511 FOL 85

Recorded	Number	Type of Instrument	C.T. Issue
19/12/1988		TITLE AUTOMATION PROJECT	LOT RECORDED FOLIO NOT CREATED
31/7/1989		CONVERTED TO COMPUTER FOLIO	FOLIO CREATED CT NOT ISSUED
12/8/1993	I559449	TRANSFER	EDITION 1
10/4/2002	8497100	TRANSMISSION APPLICATION	EDITION 2
2/8/2002	8832210	TRANSFER	EDITION 3
5/4/2012	DP1171965	DEPOSITED PLAN	FOLIO CANCELLED

*** END OF SEARCH ***

Received: 24/07/2019 21:27:43

RP13

TRANSFER

Real Property Act, 1900

B

I 559449 E

Office ...

OFFICE OF STATE REVENUE
(N.S.W. TREASURY)
... 1A ... P29
NO STAMP DUTY IS PAYABLE
ON THIS INSTRUMENT

$2 STAMP DUTY

(A) **LAND TRANSFERRED**
Show no more than 20 References to Title.
If appropriate, specify the share transferred.

Certificate of Title Volume 4511 Folio 85
NOW DEED ... 7/15765

(B) **LODGED BY**

CANC. & RET.

L.T.O. Box
262R

Name, Address or DX and Telephone
REX DREW DRAKE & CO.
SOLICITORS
275 LIVERPOOL ROAD,
ASHFIELD N.S.W. 2131
DX 1113 SYDNEY,
...
J 08317
REFERENCE (max. 15 characters):

(C) **TRANSFEROR** TURNER SHOES PTY LIMITED ACN 000.743.877

(D) acknowledges receipt of the consideration of $1.00
and as regards the land specified above transfers to the transferee an estate in fee simple

(E) subject to the following **ENCUMBRANCES** 1. .... 2. .... 3. ....

(F) **TRANSFEREE**

(G) T

JAMES LEO PAGE of 48 Seaview Street, Ashfield, Retired

(H) We certify this dealing correct for the purposes of the Real Property Act, 1900. **DATE** 25.6.93.

~~Signed in my presence by the transferor who is personally known to me.~~
THE COMMON SEAL of TURNER SHOES PTY. LIMITED was hereunto affixed by order of the board and in the presence of.

Signature of Witness

Name of Witness (BLOCK LETTERS)

Address of Witness

TURNER SHOES PTY. LIMITED COMMON SEAL

Signature of Transferor
DIRECTOR.

Signed in my presence by the transferee who is personally known to me.

Signature of Witness
Sandra R. Batey
Solicitor
Name of Witness (BLOCK LETTERS)
275 Liverpool Road
Ashfield 2131
Address of Witness

Signature of Transferee

INSTRUCTIONS FOR FILLING OUT THIS FORM ARE AVAILABLE FROM THE LAND TITLES OFFICE

CHECKED BY (office use only)

M 4252

Form: 03TA
Release: 1.1
www.lpi.nsw.gov.au

TRANSMISSION APPLICATION

New South Wales
Section 93 Real Property Act 1900

8497100S

PRIVACY NOTE: this information is legally required and will become part of the public record

STAMP DUTY — Office of State Revenue use only

(A) **LAND** — Torrens Title: 7/15765

(B) **REGISTERED DEALING** — Number: | Torrens Title:

(C) **LODGED BY** — Delivery Box: 421X | Name, Address or DX and Telephone: Hunt & Hunt, DX 214 SYDNEY, Tel No. 9804 5700, Reference: SRB.8311570 | CODE: TA

(D) **DECEASED REGISTERED PROPRIETOR** — JAMES LEO PAGE

(E) **APPLICANT** — LISA SUZANNE BERNDT AND SANDRA ROSEMARY BATEY

(F) The applicant, being entitled as Executors of the will of the deceased registered proprietor (who died on 26 Nov 2001) pursuant to probate No. 104018/02 granted on 22.03.02. to Lisa Suzanne Berndt and Sandra Rosemary Batey (a certified copy of which is lodged herewith) applies to be registered as proprietor of the estate or interest of the deceased registered proprietor in the abovementioned land

DATE 04.04.02.

(G) I certify that the person(s) signing opposite, with whom I am personally acquainted or as to whose identity I am otherwise satisfied, signed this instrument in my presence.

Signature of witness: A Monardo

Name of witness: ANNA MONARDO
Address of witness: 2/33 ROWE STREET
EASTWOOD NSW 2122

Certified correct for the purposes of the Real Property Act 1900 by the Applicant.

Signature of Applicant: Lisa Berndt

(H) **CONSENT OF EXECUTOR, ADMINISTRATOR OR TRUSTEE**

I, of the deceased registered proprietor, hereby consent to this application.

Signature of witness:

Name of witness:

Address of witness:

Signature of

All handwriting must be in block capitals.
Office use only—
Evidence sighted/sighted and returned:

LAND AND PROPERTY INFORMATION NSW

83

Historical Title

NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE
24/7/2019 9:27PM

FOLIO: 8/15765

First Title(s): SEE PRIOR TITLE(S)
Prior Title(s): VOL 5092 FOL 198

Recorded	Number	Type of Instrument	C.T. Issue
18/12/1988		TITLE AUTOMATION PROJECT	LOT RECORDED FOLIO NOT CREATED
19/6/1989		CONVERTED TO COMPUTER FOLIO	FOLIO CREATED CT NOT ISSUED
23/9/1999	6222324	DISCHARGE OF MORTGAGE	
23/9/1999	6222325	MORTGAGE	EDITION 1
12/11/1999	6222914	DISCHARGE OF MORTGAGE	EDITION 2
5/4/2012	DP1171965	DEPOSITED PLAN	FOLIO CANCELLED

*** END OF SEARCH ***

Received: 24/07/2019 21:27:43

Historical Title

NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE
26/7/2019 9:16AM

FOLIO: AUTO CONSOL 7789-224

Recorded	Number	Type of Instrument	C.T. Issue
9/6/1995		CONSOL HISTORY RECORD CREATED FOR AUTO CONSOL 7789-224	
		PARCELS IN CONSOL ARE: 9/15765, 11/130160.	
12/11/1999	6222914	DISCHARGE OF MORTGAGE	
12/11/1999	6222492	DISCHARGE OF MORTGAGE	
12/11/1999	6222493	DISCHARGE OF MORTGAGE	
12/11/1999	6222494	MORTGAGE	EDITION 1
18/9/2001	DP1033601	DEPOSITED PLAN	EDITION 2
26/6/2003	DP1049869	DEPOSITED PLAN	FOLIO CANCELLED

*** END OF SEARCH ***

Received: 26/07/2019 09:16:00

Historical Title

NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE
25/7/2019 12:56PM

FOLIO: 12/15765

First Title(s): SEE PRIOR TITLE(S)
Prior Title(s): VOL 4287 FOL 99

Recorded	Number	Type of Instrument	C.T. Issue
18/2/1989		TITLE AUTOMATION PROJECT	LOT RECORDED FOLIO NOT CREATED
10/7/1989		CONVERTED TO COMPUTER FOLIO	FOLIO CREATED CT NOT ISSUED
29/3/1995	O123586	DEPARTMENTAL DEALING	
10/10/1995	O596202	TRANSFER	EDITION 1
5/1/2010	DP1145924	DEPOSITED PLAN	FOLIO CANCELLED

*** END OF SEARCH ***

Received: 25/07/2019 12:56:50

97-01T

TRANSFER
Real Property Act, 1900

0
596202 G

Office of State Revenue use only

(A) **LAND TRANSFERRED**
Show no more than 20 References to Title.
If appropriate, specify the share transferred.

FOLIO IDENTIFIER 12/15765

(B) **LODGED BY**

L.T.O. Box	Name, Address or DX and Telephone
309R	EMIL FORD & CO. Solicitors Level 5, 580 George Street, Sydney 2000 DX 1433, SYDNEY Tel: (02) 267 9800 ZNS: Trinity Reference (max. 15 characters): P:ZNS 15615

(C) **TRANSFEROR** Saturino Sainz and Casilda Sainz

(D) acknowledges receipt of the consideration of $425,000.00

and as regards the land specified above transfers to the transferee an estate in fee simple

(E) subject to the following **ENCUMBRANCES** 1. ..... 2. ..... 3. .....

(F) **TRANSFEREE** T The Council of Trinity Grammar School

(G) TENANCY:

(H) We certify this dealing correct for the purposes of the Real Property Act, 1900 **DATE** 5th April, 1995

Signed in my presence by the transferor who is personally known to me

.....
Signature of Witness

ANNE E. CLARKE
Name of Witness (BLOCK LETTERS)

Solicitor, 17 Victoria Square Ashfield, 2131
Address of Witness

S. Sainz
C. Sainz
Signature of Transferor

Signed in my presence by the transferee who is personally known to me

.....
Signature of Witness

.....
Name of Witness (BLOCK LETTERS)

.....
Address of Witness

Naomi R. Stafford
Signature of Transferee
Naomi R. Stafford, Solicitor for Transferee

INSTRUCTIONS FOR FILLING OUT THIS FORM ARE AVAILABLE FROM THE LAND TITLES OFFICE

CHECKED BY (office use only) aw 31

H. C. MARTYN & SONS (AUST.) PTY. LTD. PH: (02) 699 2499

Historical Title

NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE
25/7/2019 1:35PM

FOLIO: 13/15765

First Title(s): SEE PRIOR TITLE(S)
Prior Title(s): VOL 4282 FOL 146

Recorded	Number	Type of Instrument	C.T. Issue
18/2/1989		TITLE AUTOMATION PROJECT	LOT RECORDED FOLIO NOT CREATED
7/7/1989		CONVERTED TO COMPUTER FOLIO	FOLIO CREATED CT NOT ISSUED
10/2/1993	I109286	DEPARTMENTAL DEALING	
28/4/1993	I288171	TRANSFER	EDITION 1
5/1/2010	DP1145924	DEPOSITED PLAN	FOLIO CANCELLED

*** END OF SEARCH ***

Received: 25/07/2019 13:35:29

Historical Title

NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE
25/7/2019 5:31PM

FOLIO: 15/15765

First Title(s): SEE PRIOR TITLE(S)
Prior Title(s): VOL 4387 FOL 116

Recorded	Number	Type of Instrument	C.T. Issue
18/2/1989		TITLE AUTOMATION PROJECT	LOT RECORDED FOLIO NOT CREATED
20/7/1989		CONVERTED TO COMPUTER FOLIO	FOLIO CREATED CT NOT ISSUED
16/7/1991	Z758538	TRANSFER	EDITION 1
5/1/2010	DP1145924	DEPOSITED PLAN	FOLIO CANCELLED

*** END OF SEARCH ***

Received: 25/07/2019 17:31:09

NEW SOUTH WALES

[redacted]FICATE OF TITLE

[redacted]OPERTY ACT, 1900, as amended.

11279071

Vol. 11279 Fol. 71

Appln. No. 3671

Prior Title Vol. 4340 Fol. 202

CDS Edition issued 23-3-1970

CANCELLED

(Page 1) Vol. 11279 Fol. 71

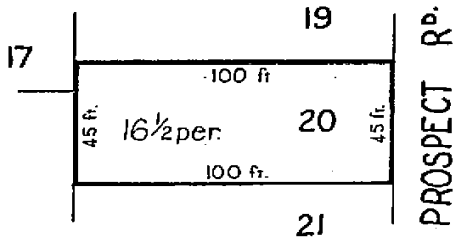
I certify that the person described in the First Schedule is the registered proprietor of the undermentioned estate in the land within described subject nevertheless to such exceptions encumbrances and interests as are shown in the Second Schedule.

Witness G Barnes

SEE AUTO FOLIO

Registrar General.

PLAN SHOWING LOCATION OF LAND



L747211 &H.

Scale : 50 feet to one inch.

ESTATE AND LAND REFERRED TO

Estate in Fee Simple in Lot 20 in Deposited Plan 15765 in the Municipality of Ashfield Parish of Petersham and County of Cumberland being part of 100 acres granted to John Clepman on 11-11-1794.

FIRST SCHEDULE

JOAN-MARIE JOHNSON of Battery Point Hobart in the State of Tasmania, Married Woman.

GRY

SECOND SCHEDULE

1. Reservations and conditions, if any, contained in the Crown Grant above referred to.
2. ~~Caveat No. K762474 by the Registrar General. Entered 29-8-1967.~~ Withdrawn L901333
3. ~~Caveat No. L679783. Entered 19-12-1969.~~ Withdrawn M46383

Registrar General

PERSONS ARE CAUTIONED AGAINST ALTERING OR ADDING TO THIS CERTIFICATE OR ANY NOTIFICATION HEREON

WARNING: THIS DOCUMENT MUST NOT BE REMOVED FROM THE LAND TITLES OFFICE.

NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR GENERAL ARE CANCELLED.

RG 732

V. C. N. BLIGHT, GOVERNMENT PRINTER

Vol. 11279 Fol. 71

FIRST SCHEDULE (continued)

REGISTERED PROPRIETOR	INSTRUMENT NATURE	INSTRUMENT NUMBER	INSTRUMENT DATE	ENTERED	Signature of Registrar-General
~~James Joseph Keeling of Kurrajong, Timber Worker~~	Transfer	L901523	28.-.1970	2.11.1970	Johnston
Peter Langley Hewins of Ashfield, motor engineer and Joan Catherine Hewins his wife as joint tenants	Transfer	M4386	11.9.1970	2.11.1970	Johnston

L901823 T

M43834–847 E

M466683 M R

CANCELLED

SEE AUTO-FOLIO

SECOND SCHEDULE (continued)

INSTRUMENT NATURE	INSTRUMENT NUMBER	INSTRUMENT DATE	PARTICULARS	ENTERED	Signature of Registrar-General	CANCELLATION
Mortgage	M466683	~~1-10-1971~~ 1-10-1971	to Bank of New South Wales	22.10.1971	Johnston	

(Page 2 of 2 pages)

NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR-GENERAL ARE CANCELLED

No.

70 JUN 24 PM 3 47

REGISTRAR GENERAL NEW SOUTH WALES

R.P. 13

FEES:— $ c

NEW SOUTH WALES 75c STAMP DUTY

NEW SOUTH WALES $ 0.25 Document Endorsement STAMP DUTY

RGX $ 10.80

New South Wales

MEMORANDUM OF TRANSFER

(REAL PROPERTY ACT, 1900)

(Trusts must not be disclosed in the transfer.)

Typing or handwriting in this instrument should not extend into any margin. Handwriting should be clear and legible and in permanent black non-copying ink.

I, JOAN MARIE JOHNSON of Battery Point Hobart in the State of Tasmania, Married Woman

(herein called transferor)

being registered as the proprietor of an estate in *fee simple*[a] in the land hereinafter described, subject, however, to such encumbrances, liens and interests as are notified hereunder, in ~~consideration of~~ the terms of the Will of Crossley James Fielden deceased ~~( ) (the receipt whereof is hereby acknowledged) paid to by~~ [b] ~~JAMES JOSEPH MEALING~~ do hereby transfer to

[c] JAMES JOSEPH MEALING of 30 Baloone Street Narrabri in the State of New South Wales Timber Worker

(herein called transferee)[d]

ALL such my Estate and Interest in ALL THE land mentioned in the schedule following:—

County	Parish	Reference to Title: Whole or Part	Vol.	Fol.	Description of Land (if part only)[e]
CUMBERLAND	PETERSHAM	WHOLE	11279	71	

ENCUMBRANCES, &c., REFERRED TO[f]

Reservations and conditions, if any, contained in Crown Grant.

Signed at Sydney the twenty eighth day of April , 1970.

[g] Signed in my presence by the transferor JOAN MARIE JOHNSON WHO IS PERSONALLY KNOWN TO ME

[signature] Notary Public

Joan M. Johnson Transferor[*]

[h] Signed

† Accepted, and I hereby certify this Transfer to be correct for the purposes of the Real Property Act.

Signed in my presence by the transferee JAMES JOSEPH MEALING WHO IS PERSONALLY KNOWN TO ME

[signature] Solicitor Sydney

J. J. Mealing Transferee(s)

28.4.1970.

Marginal notes:

a If a less estate, strike out "in fee simple" and interline the required alteration.

b State in full the name of the person who furnished the consideration monies.

c Show in BLOCK LETTERS the full name, postal address and description of the persons taking.

d If more than one person is taking state whether they hold as joint tenants or tenants in common.

e The description may refer to the defined residue of the land in a certificate or grant (e.g., "and being residue after Transfer No. ") or may refer to parcels shown in Town or Parish Maps issued by the Dept of Lands or shown in plans filed in the Office of the Registrar General (e.g., "and being lot sec. D.P. "). Unless authorised by Reg. 53 of the Conveyancing Act Regulations, 1961, a plan may not be annexed to or endorsed on this transfer form.

f A very short note will suffice.

g Execution in New South Wales may be proved if this instrument is signed or acknowledged before the Registrar General, or Deputy Registrar General, or a Notary Public, a J.P., or Commissioner for Affidavits, to whom the Transferor is known, otherwise the attesting witness should appear before one of the above functionaries who having questioned the witness should sign the certificate on the back of this form.

As to instruments executed elsewhere, see Section 107 of the Real Property Act, 1900, Section 168 of the Conveyancing Act, 1919, and Section 52A of the Evidence Act, 1898.

h Repeat attestation if necessary.

If the Transferor or Transferee signs by a mark, the attestation must state "that the instrument was read over and explained to him, and that he appeared fully to understand the same."

THIS SPACE TO BE LEFT FREE FROM NOTATION

NOT TO BE ALTERED BY ERASURE—See Foot Note

* If signed by virtue of any power of attorney, the original power must be registered in the Miscellaneous Register, and produced with each dealing, and the memorandum of non-revocation on back of form signed by the attorney before a witness.

† N.B.—Section 117 requires that the above Certificate be signed by each Transferee or his Solicitor or Conveyancer, and renders any person falsely or negligently certifying liable to a penalty; also to damages recoverable by parties injured. Acceptance by the Solicitor or Conveyancer (who must sign his own name, and not that of his firm) is permitted only when the signature of the Transferee cannot be obtained without difficulty, and when the instrument does not impose a liability on the party taking under it. When the instrument contains some special covenant by the Transferee or is subject to a mortgage, encumbrance or lease, the Transferee must accept personally.

No alterations should be made by erasure. The words rejected should be scored through with the pen, and those substituted written over them, the alteration being verified by signature or initials in the margin, or noticed in the attestation.

St 437—W K 1165 V. C. N. Blight, Government Printer

29241B

LANCELOT S. HILLS + Co
4 O'Connell St.
Sydney

No. L901823

Lodged by BALDOCK MACPHERSON & WALSH,
Address: 14 Martin Place SYDNEY
Phone No.: 25-2674

PARTIAL DISCHARGE OF MORTGAGE[i]
(N.B.—Before execution read marginal note)

I,

mortgagee under Mortgage No.
release and discharge the land comprised in the within transfer from such mortgage and all claims thereunder but without prejudice to my rights and remedies as regards the balance of the land compised in such mortgage.

i This discharge is appropriate to a transfer of part of the land in the Mortgage. The mortgagee should execute a formal discharge where the land transferred is the whole of or the residue of the land in the Certificate of Title or Crown Grant or is the whole of the land in the mortgage.

Lancelot L. Hills 29241.B

Dated at *this* *day of* 19 .
Signed in my presence by

who is personally known to me.

Mortgagee.

MEMORANDUM AS TO NON-REVOCATION OF POWER OF ATTORNEY
(To be signed at the time of executing the within instrument)

Memorandum whereby the undersigned states that he has no notice of the revocation of the Power of Attorney registered No. Miscellaneous Register under the authority of which he has just executed the within tranfer.[j]

Signed at *the* *day of* , 19 .
Signed in the presence of—

j Strike out unnecessary words. Add any other matter necessary to show that the power is effective.

CERTIFICATE OF J.P., &c., TAKING DECLARATION OF ATTESTING WITNESS[k]
Appeared before me at , *the* *day of* , *one thousand nine hundred and* *the attesting witness to this instrument and declared that he personally knew* *the person signing the same, and whose signature thereto he has attested; and that the name purporting to be such signature of the said* *is* *own handwriting, and that he was of sound mind and freely and voluntarily signed the same.*

k To be signed by Registrar General, Deputy Registrar General, a Notary Public, J.P., Commissioner for Affidavits, or other functionary before whom the attesting witness appears. Not required if the instrument itself be signed or acknowledged before one of these parties.

LEAVE THESE SPACES FOR DEPARTMENTAL USE

INDEXED	MEMORANDUM OF TRANSFER
Checked by	Particulars entered in Register Book, 2.11.1970
Passed (in S.D.B.) by	
Signed by	J. Watson Registrar General

REGISTRAR GENERAL NEW SOUTH WALES

DOCUMENTS LODGED HEREWITH
To be filled in by person lodging dealing

1. C.T.
2.
3.
4.
5.
6.
7.

Received Docs
Nos.
Receiving Clerk

PROGRESS RECORD

	Initials	Date
Sent to Survey Branch		
Received from Records		
Draft written		
Draft examined		
Diagram prepared		
Diagram examined		
Draft forwarded		
Supt. of Engrossers		
Cancellation Clerk		
Vol.	Fol.	

M.P.D.

Withdraw
RGX K762471
Free from

1165 St 437—W

3

STATUTORY DECLARATION

L901823.

JAMES JOSEPH MEALING of 30 Baloone Street Narribri in the State of New South Wales Timber Worker doth hereby solemnly and sincerely declare as follows:

1. I AM the beneficiary under the Will of the late Crossley James Fielden of the property comprised in Certificate of Title registered Volume 4340 Folio 202 now being the land comprised in Certificate of Title Volume 11279 Folio 71 and am the Transferee referred to in Instrument of Transfer lodged for registration and numbered L901823.

2. I have never been bankrupt or insolvent and have never assigned or encumbered my estate for the benefit of my Creditors nor are there any unsatisfied writs, orders, judgments or executions outstanding against me.

3. IT is my belief that the land comprised in the said Transfer is not affected by any order made or proceedings commenced under the Testator's Family Maintenance and Guardianship of Infants Act 1916 in respect of the Estate of the late Crossley James Fielden.

AND I MAKE this solemn Decaration conscientiously believing the same to be true and by virute of the provisions of the Oaths Act 1900.

DECLARED at Sydney in the)
State of New South Wales this)
fourth day of August)
1970, Before me;)

J. J. Mealing

Vincent P. Cahill
A Justice of the Peace for New South Wales.

B

Historical Title

NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE
25/7/2019 5:43PM

FOLIO: 20/15765

First Title(s): SEE PRIOR TITLE(S)
Prior Title(s): VOL 11279 FOL 71

Recorded	Number	Type of Instrument	C.T. Issue
21/8/1988		TITLE AUTOMATION PROJECT	LOT RECORDED FOLIO NOT CREATED
31/10/1988		CONVERTED TO COMPUTER FOLIO	FOLIO CREATED CT NOT ISSUED
16/6/1994	U347575	DISCHARGE OF MORTGAGE	
16/6/1994	U347576	NOTICE OF DEATH	EDITION 1
1/8/1994	U490853	TRANSFER	EDITION 2
5/1/2010	DP1145924	DEPOSITED PLAN	FOLIO CANCELLED

*** END OF SEARCH ***

Received: 25/07/2019 17:43:01

97-01T

B TRANSFER
Real Property Act, 1900

Land Titles Office use only

U 490853 C

Offic

OFFICE OF STATE REVENUE
(N.S.W. TREASURY)
1994/95 P15
NO STAMP DUTY IS PAYABLE ON THIS INSTRUMENT

(A) LAND TRANSFERRED
Show no more than 20 References to Title. If appropriate, specify the share transferred.

FOLIO IDENTIFIER 20/15765

(B) LODGED BY

L.T.O. Box	Name, Address or DX and Telephone
309R	EMIL FORD & CO. Solicitors Level 5, 580 George Street, Sydney 2000 DX 1433, SYDNEY Tel: (02) 267 9800 Reference (max. 15 characters): P: NS: 14995

(C) TRANSFEROR JOAN CATHERINE HEWINS

(D) acknowledges receipt of the consideration of $400,000.00

and as regards the land specified above transfers to the transferee an estate in fee simple

(E) subject to the following **ENCUMBRANCES** 1. ..... 2. ..... 3. .....

(F) TRANSFEREE T THE COUNCIL OF TRINITY GRAMMAR SCHOOL

(G) TENANCY:

SUPREME COURT OF NEW SOUTH WALES PROTECTIVE DIVISION

Matter No. G 548 of 1993
Re: JOAN CATHERINE HEWINS
I approve of the manager/s
SHIRLEY DALZELL
entering into this
TRANSFER.
Protective Commissioner

(H) We certify this dealing correct for the purposes of the Real Property Act, 1900

DATE .....

Signed in my presence by the transferor who is personally known to me

.....
Signature of Witness

P.H. SAUL
Name of Witness (BLOCK LETTERS)

Solicitor Penfield
Address of Witness

JOAN CATHERINE HEWINS

by S. C. Dalzell
Signature of Transferor

SHIRLEY CATHERINE DALZELL manager appointed under Protected Estates Act 1983 No. G548 of 1993

Signed in my presence by the transferee who is personally known to me

.....
Signature of Witness

.....
Name of Witness (BLOCK LETTERS)

.....
Address of Witness

.....
Signature of Transferee

David Ford, Solicitor for Transferee

INSTRUCTIONS FOR FILLING OUT THIS FORM ARE AVAILABLE FROM THE LAND TITLES OFFICE

CHECKED BY (office use only)

H. C. MARTYN & SONS (AUST.) PTY. LTD. PH: (02) 699 2499

re - JOAN CATHERINE HEWINS No. G548 of 1993
I approve the manager, Shirley Catherine Dalzell
entering into this transfer

.....
Protective Commissioner
Date:

Historical Title

NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE
26/7/2019 8:05AM

FOLIO: 22/15765

First Title(s): SEE PRIOR TITLE(S)
Prior Title(s): VOL 4262 FOL 162

Recorded	Number	Type of Instrument	C.T. Issue
18/2/1989		TITLE AUTOMATION PROJECT	LOT RECORDED FOLIO NOT CREATED
7/7/1989		CONVERTED TO COMPUTER FOLIO	FOLIO CREATED CT NOT ISSUED
31/5/1996	2198144	TRANSMISSION APPLICATION	EDITION 1
18/6/1996	2237125	TRANSFER	EDITION 2
5/1/2010	DP1145924	DEPOSITED PLAN	FOLIO CANCELLED

*** END OF SEARCH ***

Received: 26/07/2019 08:05:41

RP3

TRANSMISSION APPLICATION

Section 93 Real Property Act 1900

2198144 N

Office of State Revenue use only

69674 STAMP No. 15
$10.00 RG
REF. 28/5/96

(A) **LAND**

Show no more than 20 References to Title.

Volume 4262 Folio 162
Now 22/15765

(B) **REGISTERED DEALING**

If applicable.

(C) **LODGED BY**

L.T.O. Box	Name, Address or DX and Telephone	
706F	REFERENCE (max. 15 characters):	PUBLIC TRUSTEE 19 O'CONNELL ST SYDNEY NSW 2000 TF 2520523 PARTRIDGE BU

(D) **DECEASED REGISTERED PROPRIETOR**

CYRIL ROBERT WILLIAM PARTRIDGE

(E) **APPLICANT**

TA JESSIE ELIZABETH PARTRIDGE

(F) I, the Applicant, being entitled as Devisee of the ~~will/estate of the Deceased Registered Proprietor~~ (who died on 19th March, 1981.) pursuant to ~~Probate/Letters of Administration~~ No. 120117/95 granted on 29 December, 1995 to Public Trustee of N.S.W., apply to be registered as proprietor of the estate or interest of the Deceased Registered Proprietor in the **Land/Registered Dealing** specified above.

(G) Certified correct for the purposes of the Real property Act 1900.

DATE 23rd MAY 1996

Signed in my presence by the Applicant who is personally known to me.

Signature of Witness

SUSAN JOHN KENMAN

Name of Witness (BLOCK LETTERS)

13 SPRING STREET CHATSWOOD

Address of Witness

JUSTICE OF THE PEACE

EVIDENCE SIGHTED (office use only) ✓

& returned

J. E. Partridge

Signature of Applicant

CHECKED BY (office use only)

CONSENT OF EXECUTOR OR ADMINISTRATOR

(H)

I, ... Executor of the will /~~Administrator of the estate~~

of the Deceased Registered Proprietor, hereby consent to this application.

Power.
.....
Signature of Witness

TERIE POWER
.....
Name of Witness (BLOCK LETTERS)

19 O'CONNELL ST, SYDNEY
.....
Address of Witness

THE PUBLIC TRUSTEE NEW SOUTH WALES

.....
~~Signature of Executor/Administrator~~
Deputy Public Trustee

INSTRUCTIONS FOR COMPLETION

STAMP DUTY: If the Applicant is a devisee, beneficiary, next-of-kin or otherwise beneficially entitled or if the Deceased Registered Proprietor died prior to 31 December 1981 the application must be presented to the Office of State Revenue prior to lodgment at the Land Titles Office.

1. The Application must be completed clearly and legibly in permanent, dense, black or dark blue non-copying ink. If using a dot-matrix printer the print must be letter-quality.
2. Do not use an eraser or correction fluid to make alterations: rule through rejected material. Initial each alteration in the lefthand margin.
3. If the space provided at any point is insufficient, you may annex additional pages. These must be the same size as the form; paper quality, colour. etc, must conform to the requirements set out in Land Titles Office Information Bulletin No. 19. All pages of any annexure must be signed by the person executing the Application and any attesting witness.
4. The following instructions relate to the marginal letters on the application.

(A) LAND
Show the relevant Reference to Title. If there are more than 20 show none in this panel. Place ALL of them on an annexure (see 3 above) with 20 per sheet.

(B) REGISTERED DEALING
Show the registration number of any lease, mortgage or charge in regard to which the Applicant is applying to be registered as a proprietor.

(C) LODGED BY
This section relates to the person or firm lodging the Application at the Land Titles Office.
Reference (max. 15 characters) This is optional. Any slashes, dots, blank spaces, etc, will be counted as characters.

(D) DECEASED REGISTERED PROPRIETOR
Show the name in full. Address and occupation need not be shown.

(E) APPLICANT
Show the name in full. Address and occupation need not be shown.

(F) WILL/ESTATE, etc
Amend "will/estate", "Probate/Letters of Administation" and "Land/Registered Dealing" as appropriate.
In the relevant spaces show the capacity (executor, devisee, etc) in which the Applicant is entitled to apply, the date of death of the Deceased Registered Proprietor, the number and date of grant of the Probate or Letters of Administration pursuant to which the Application is made, and the name of the person to whom the grant was made.

(G) EXECUTION
General The application must be executed by or on behalf of the Applicant.
By the Applicant Personally The application must be signed in the presence of an adult witness who is not an Applicant and who knows the party executing personally. The witness should complete the appropriate section of the application.
By the Applicant's Attorney The Power of Attorney must be registered in the General Register of Deeds at the Land Titles Office. The execution should take the form, "AB by her attorney XY *[full name]* pursuant to Power of Attorney Book 1234 Number 567".
Under Authority If the application is made pursuant to any statutory, judicial or other authority, except a Power of Attorney (see above), the nature of the authority should be disclosed.
By a Corporation under Seal The execution should include a statement that the seal has been properly affixed, for example, "... pursuant to a resolution of the board of directors ...". Alternatively, all those attesting the affixing of the seal must state their position in the corporation.

(H) CONSENT OF EXECUTOR OR ADMINISTRATOR
This is required only where the Applicant claims to be entitled other than as executor, administrator or trustee.

The completed Application must be lodged by hand at the LAND TITLES OFFICE, Queen's Square, Sydney, together with the Certificate of Title, the probate or letters of administration (or a copy thereof certified by a solicitor to be a true copy) and a completed Notice of Sale.

If you have any questions about filling out the form, please call 228-6666 and ask for our Customer Services Branch.

Historical Title

NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE
24/7/2019 9:27PM

FOLIO: 1/1145924

First Title(s): OLD SYSTEM
Prior Title(s): 10-15/15765 20-22/15765
100/1049869

Recorded	Number	Type of Instrument	C.T. Issue
5/1/2010	DP1145924	DEPOSITED PLAN	FOLIO CREATED EDITION 1
1/11/2010	AF847167	CHANGE OF NAME	
1/11/2010	AF452220	MORTGAGE	EDITION 2
20/1/2011	AF967700	TRANSFER GRANTING EASEMENT	EDITION 3
1/11/2011	AG590066	CAVEAT	
5/4/2012	DP1171965	DEPOSITED PLAN	FOLIO CANCELLED

*** END OF SEARCH ***

Received: 24/07/2019 21:27:43

Historical Title

NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE
24/7/2019 9:26PM

FOLIO: 11/1171965

First Title(s): OLD SYSTEM
Prior Title(s): 7-8/15765 1/1145924

Recorded	Number	Type of Instrument	C.T. Issue
5/4/2012	DP1171965	DEPOSITED PLAN	FOLIO CREATED EDITION 1
8/8/2014	AI489249	TRANSFER GRANTING EASEMENT	EDITION 2
27/4/2015	AJ431273	CAVEAT	
11/1/2016	AJ786940	TRANSFER GRANTING EASEMENT	EDITION 3
9/9/2018	AN695392	DEPARTMENTAL DEALING	EDITION 4 CORD ISSUED

*** END OF SEARCH ***

Title Search

NEW SOUTH WALES LAND REGISTRY SERVICES - TITLE SEARCH

FOLIO: 11/1171965

SEARCH DATE	TIME	EDITION NO	DATE
24/7/2019	9:24 PM	4	9/9/2018

NO CERTIFICATE OF TITLE HAS ISSUED FOR THE CURRENT EDITION OF THIS FOLIO.
CONTROL OF THE RIGHT TO DEAL IS HELD BY NATIONAL AUSTRALIA BANK LIMITED.

LAND

LOT 11 IN DEPOSITED PLAN 1171965
AT SUMMER HILL
LOCAL GOVERNMENT AREA INNER WEST
PARISH OF PETERSHAM COUNTY OF CUMBERLAND
TITLE DIAGRAM DP1171965

FIRST SCHEDULE

THE COUNCIL OF TRINITY GRAMMAR SCHOOL

SECOND SCHEDULE (14 NOTIFICATIONS)

1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
2 T380127 EASEMENT TO PERMIT ENCROACHING STRUCTURE TO REMAIN AFFECTING THE PART(S) SHOWN SO BURDENED IN THE TITLE DIAGRAM
3 6222325 MORTGAGE TO NATIONAL AUSTRALIA BANK LIMITED OF THE PART(S) FORMERLY IN 8/15765
4 T380128 EASEMENT TO PERMIT ENCROACHING STRUCTURE TO REMAIN AFFECTING THE PART(S) SHOWN SO BURDENED IN THE TITLE DIAGRAM
5 6222296 MORTGAGE TO NATIONAL AUSTRALIA BANK LIMITED OF THE PART FORMERLY IN 10/15765
6 6222373 MORTGAGE TO NATIONAL AUSTRALIA BANK LIMITED OF THE PART FORMERLY IN 1/15765
7 6222494 MORTGAGE TO NATIONAL AUSTRALIA BANK LIMITED OF THE PART FORMERLY IN A/C 7789-224
8 6222911 MORTGAGE TO NATIONAL AUSTRALIA BANK LIMITED OF THE PART FORMERLY IN 11/15765
9 DP1033601 EASEMENT FOR ELECTRICITY PURPOSES 3.5 METRE(S) WIDE AFFECTING THE PART(S) SHOWN SO BURDENED IN THE TITLE DIAGRAM
10 DP1033601 RIGHT OF CARRIAGEWAY 3.5 METRE(S) WIDE AFFECTING THE PART(S) SHOWN SO BURDENED IN THE TITLE DIAGRAM
11 AF452220 MORTGAGE TO NATIONAL AUSTRALIA BANK LIMITED OF THE PART(S) FORMERLY IN 1/1145924
12 AF967700 EASEMENT FOR ELECTRICITY AND OTHER PURPOSES 3.33 WIDE AFFECTING THE PART(S) SHOWN SO BURDENED IN THE

END OF PAGE 1 - CONTINUED OVER

SECOND SCHEDULE (14 NOTIFICATIONS) (CONTINUED)

		TITLE DIAGRAM
13	AI489249	EASEMENT FOR ELECTRICITY AND OTHER PURPOSES 3.3 WIDE AFFECTING THE PART DESIGNATED (A) IN PLAN WITH AI489249
14	AJ786940	EASEMENT FOR ELECTRICITY AND OTHER PURPOSES 3.3 WIDE AFFECTING THE PART DESIGNATED (A) IN PLAN WITH AJ786940

NOTATIONS

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

Appendix E

Planning Certificate

INNER WEST COUNCIL

PLANNING CERTIFICATE UNDER SECTION 10.7
ENVIRONMENTAL PLANNING & ASSESSMENT ACT, 1979

Peter Oitmaa
96 Hermitage Road
WEST RYDE NSW 2114

Certificate Number:	20190452	**Certificate Date:**	17/07/2019
Receipt Number:	1351302	**Certificate Fee:**	$133.00
Property Number:	38647	**Applicant's Reference:**	

Description of Property

Title: **Lot: 11 DP: 1171965**
Property: **113-119 Prospect Road SUMMER HILL 2130**

Land to which this certificate relates

The land to which this certificate relates, being the lot or one of the lots described in the corresponding application, is shown in the Council's records as being situated at the street address described on page 1 of this certificate. The information contained in this certificate relates only to the lot described on the certificate. Where the street address comprises more than one lot in one or more deposited plans or strata plans, separate planning certificates can be obtained upon application for the other lots. Those certificates may contain different information than is contained in this certificate.

Section 10.7(2) Details

In accordance with section 10.7(2) of the Environmental Planning and Assessment Act 1979, at the date of this certificate the following information is provided in respect of the prescribed matters to be included in a planning certificate.

1. Relevant environmental planning instruments

Relevant State/Draft State Environment Planning Policies and Deemed State Environmental Planning Policies applying to the land

Planning Policies applying to the land

The following is a list of State, Draft State Environmental Planning Policies (SEPP's) and Deemed State Environmental Planning Policies that apply to the Ashfield Local Government Area. The policy or draft policy may or may not be specifically applicable to the land that is the subject of this certificate. You will need to examine the policy or draft policy for the necessary details.

Any enquiries regarding State Environmental Planning Policies should be directed to the Department of Planning on:(02) 9228 6111 or visit their Website – http://www.planning.nsw.gov.au

State Environmental Planning Policies (SEPP's)

- State Environmental Planning Policy No. 19 – Bushland in Urban Areas.
- State Environmental Planning Policy No. 21 – Caravan Parks.
- State Environmental Planning Policy No. 33 – Hazardous and Offensive Development.
- State Environmental Planning Policy No. 36 – Manufactured Home Estates.
- State Environmental Planning Policy No. 55 – Remediation of Land
- State Environmental Planning Policy No. 64 – Advertising and Signage.
- State Environmental Planning Policy No. 65 – Design Quality of Residential Flat Development
- State Environmental Planning Policy (Affordable Rental Housing) 2009
- State Environmental Planning Policy Building Sustainability Index: BASIX 2004
- State Environmental Planning Policy (Mining, Petroleum and Extractive Industries) 2007
- State Environmental Planning Policy (Exempt and Complying Development Codes) 2008
- State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004
- State Environmental Planning Policy (Infrastructure) 2007
- State Environmental Planning Policy (State and Regional Development) 2011
- State Environmental Planning Policy (Educational Establishments and Child Care Facilities) 2017
- State Environmental Planning Policy (Vegetation in Non-Rural Areas) 2017
- State Environmental Planning Policy 70 – Affordable Housing (Revised Schemes)
- State Environmental Planning Policy (Primary Production and Rural Development) 2019

Draft State Environmental Planning Policies

- Draft Environmental State Environmental Planning Policy 2017
- Draft Remediation of Lands States Environmental Planning Policy 2018

Deemed State Environmental Planning Policies

- Deemed State Environmental Planning Policy (Sydney Harbour Catchment) 2005.

The following environmental planning instrument applies to the land:

Ashfield Local Environmental Plan 2013
Effective Date: **23 December 2013**

The following proposed environmental planning instrument applies to the land:

Draft Local Environmental Plan

- *Ashfield Local Environmental Plan 2013 Draft Amendment No. 8.*

Name of relevant Development Control Plan

- Inner West Comprehensive Development Control Plan 2016 for Ashbury, Ashfield, Croydon, Croydon Park, Haberfield, Hurlstone Park and Summer Hill.

2. Zoning and land use under relevant environmental planning instruments referred to in clause 1 (other than a SEPP or proposed SEPP)

The effect of the above local environmental plan is:

SP2 - Infrastructure

1 Objectives of zone

To provide for infrastructure and related uses.

To prevent development that is not compatible with or that may detract from the provision of infrastructure.

2 Permitted without consent

Roads

3 Permitted with consent

Aquaculture; Building identification signs; Business identification signs; Car parks; Centre-based child care facilities; Community facilities; Emergency services facilities; Environmental facilities; Environmental protection works; Information and education facilities; Kiosks; Markets; Recreation areas; Recreation facilities (indoor); Recreation facilities (outdoor); Respite day care centres; The purpose shown on the Land Zoning Map, including any development that is ordinarily incidental or ancillary to development for that purpose; Water recycling facilities

4 Prohibited

Any development not specified in item 2 or 3

R2 - Low Density Residential

1 Objectives of zone

To provide for the housing needs of the community within a low density residential environment.

To enable other land uses that provide facilities or services to meet the day to day needs of residents.

2 Permitted without consent

Home occupations

3 Permitted with consent

Bed and breakfast accommodation; Boarding houses; Business identification signs; Dual occupancies (attached); Dwelling houses; Group homes; Neighbourhood shops; Oyster aquaculture; Pond-based aquaculture; Roads; Semi-detached dwellings; Seniors housing; Shop top housing; Tank-based aquaculture. Any other development not specified in item 2 or 4.

4 Prohibited

Agriculture; Air transport facilities; Airstrips; Amusement centres; Animal boarding or training establishments; Biosolids treatment facilities; Boat building and repair facilities; Boat sheds; Camping grounds; Car parks; Caravan parks; Cemeteries; Charter and tourism boating facilities; Commercial premises; Correctional centres; Crematoria; Depots; Eco-tourist facilities; Emergency services facilities; Entertainment facilities; Environmental facilities; Exhibition villages; Extractive industries; Farm buildings; Forestry; Freight transport facilities; Function centres; Heavy industrial storage establishments; Helipads; Highway service centres; Home occupations (sex services); Industrial retail outlets; Industrial training facilities; Industries; Information and education facilities; Jetties; Marinas;

Mooring pens; Moorings; Mortuaries; Open cut mining; Passenger transport facilities; Recreation facilities (indoor); Recreation facilities (major); Registered clubs; Research stations; Residential accommodation; Restricted premises; Rural industries; Service stations; Sewage treatment plants; Sex services premises; Signage; Storage premises; Tourist and visitor accommodation; Transport depots; Truck depots; Vehicle body repair workshops; Vehicle repair stations; Veterinary hospitals; Warehouse or distribution centres; Waste or resource management facilities; Water recreation structures; Water supply systems; Wharf or boating facilities; Wholesale supplies

Minimum land dimensions for the erection of a dwelling-house (applicable to residential zones only)
Whether any development standards applying to the land fix minimum land dimensions for the erection of a dwelling-house on the land and, if so, the minimum land dimensions so fixed.

Minimum required allotment size is 500 square metres.

Does the land include or comprise 'critical habitat' under the provision of the local environmental plan applying to the land?

No

Is the land located within a heritage conservation area under the provisions of the local environmental plan applying to the land?

No

Is there a heritage item situated on the land under the provisions of the local environmental plan applying to the land?

Yes, pursuant to the Ashfield LEP 2013.

Is the item in the State Heritage Register?

No

2A. Zoning and land use under State Environmental Planning Policy (Sydney Region Growth Centres) 2006

The land **IS NOT** land to which State Environmental Planning Policy (Sydney Region Growth Centres) 2006 applies.

3. Complying development

Provide information on whether or not land is land on which complying development may be carried out under each of the codes for complying development in *State Environmental Planning Policy (Exempt and Complying Development Codes) 2008*. If complying development may not be carried out on that land because of one or more of the requirements under clause 1.19 of that Policy, why it may not be carried out

Housing Code

Complying Development under the Housing Code MAY NOT be carried out on this land. Pursuant to the Ashfield LEP 2013, the land is affected by specific land exemptions:

- land that comprises, or on which there is, a heritage item.

Housing Alterations Code

Complying Development under the Housing Alterations Code MAY NOT be carried out on this land. Pursuant to the Ashfield LEP 2013, the land is affected by specific land exemptions:

- land that comprises, or on which there is, a heritage item.

General Development Code

Complying Development under the General Development Code MAY NOT be carried out on this land. Pursuant to the Ashfield LEP 2013, the land is affected by specific land exemptions:

- land that comprises, or on which there is, a heritage item.

Commercial and Industrial Alterations Code

Complying Development under the Commercial and Industrial Alterations Code MAY NOT be carried out on this land. Pursuant to the Ashfield LEP 2013, the land is affected by specific land exemptions:

- land that comprises, or on which there is, a heritage item.

Commercial and Industrial (New Buildings and Additions) Code

Complying Development under the Commercial and Industrial (New Buildings and Additions)Code MAY NOT be carried out on this land. Pursuant to the Ashfield LEP 2013, the land is affected by specific land exemptions:

- land that comprises, or on which there is, a heritage item.

Container Recycling Facilities Code

Complying Development under the Container Recycling Facilities Code MAY NOT be carried out on this land. Pursuant to the Ashfield LEP 2013, the land is affected by specific land exemptions:

- land that comprises, or on which there is, a heritage item.

Subdivisions Code

Complying Development under the Subdivision Code MAY NOT be carried out on this land. Pursuant to the Ashfield LEP 2013, the land is affected by specific land exemptions:

- land that comprises, or on which there is, a heritage item.

Demolition Code

Complying Development under the Demolition Code MAY NOT be carried out on this land. Pursuant to the Ashfield LEP 2013, the land is affected by specific land exemptions:

- land that comprises, or on which there is, a heritage item.

Fire safety Code

Complying Development under the Fire Safety Code MAY NOT be carried out on this land. Pursuant to the Ashfield LEP 2013, the land is affected by specific land exemptions:

- land that comprises, or on which there is, a heritage item.

4.

Repealed

4.A

Repealed

4.B Annual charges for coastal protection services under *Local Government Act 1993*

Whether the owner (or any previous owner) of the land has consented in writing to the land being subject to annual charges under section 496B of the *Local Government Act 1993* for coastal protection services that relate to existing coastal protection works (within the meaning of section 553B of that Act).

Not applicable

5. Mine subsidence

Is the land proclaimed to be a mine subsidence district within the meaning of the *Coal Mine Compensation Act 2017*?

No

6. Road widening and road realignment

Whether or not the land is land affected by any road widening or road realignment under:

(a) Division 2 of Part 3 of the *Roads Act 1993*; or
(b) any environmental planning instrument; or
(c) any resolution of the council?

No

7. Council and other public authority policies restricting development due to risks or hazards

Is the land affected by a policy:

(a) adopted by the Council; or

(b) adopted by any other public authority and notified to the Council for the express purpose of its adoption by that authority being referred to in planning certificates issued by the Council, that restricts the development of the land because of the likelihood of land slip, bushfire, tidal inundation, subsidence, acid sulphate soils or any other risk (other than flooding)?

No

7.A Flood related development controls information

(1) Whether or not development on that land or part of the land for the purposes of dwelling houses, dual occupancies, multi dwelling housing or residential flat buildings (not including development for the purposes of group homes or seniors housing) is subject to flood related development controls.

No

(2) Whether or not development on that land or part of the land for any other purpose is subject to flood related development controls.

No

(3) Words and expressions in this clause have the same meanings as in the instrument set out in the Schedule to the *Standard Instrument (Local Environmental Plans) Order 2006*.

8. Land reserved for acquisition

Is there an environmental planning instrument, deemed environmental planning instrument or draft environmental planning instrument applying to the land providing for the acquisition of the land by a public authority, as referred to in section 3.15 of the *Environmental Planning and Assessment Act 1979*?

No

9. Contribution plans

Ashfield Section 94 and Section 94A Contributions Plans apply to the land for land affected by the Ashfield LEP 2013.

9.A Biodiversity certified land

The land **IS NOT** biodiversity certified land as defined under Part 8 of the *Biodiversity Conservation Act 2016*

Note: Biodiversity certified land includes land certified under Part 7A of the *former Threatened Species Conservation Act 1995* that is taken to be certified under Part 8 of the *Biodiversity Conservation Act 2016*

10. Biodiversity stewardship sites

The land is **NOT** a biodiversity stewardship site under a biodiversity stewardship agreement under Part 5 of the Biodiversity Conservation Act 2016 (that Council has been notified of by the Chief Executive of the Office of Environment and Heritage).

Note: Biodiversity stewardship agreements include biobanking agreements under Part 7A of the *former Threatened Species Conservation Act 1995* that is taken to be a biodiversity stewardship agreement under Part 5 of the *Biodiversity Conservation Act 2016*

10A. Native vegetation clearing set asides

There are **NO** set aside areas on the land under section 60ZC of the Local Land Services Act 2013 (that Council has been notified of by Local Land Services or it is registered in the public register under that section

11. Bush fire prone land

Is the land bush fire prone land (as defined in the *Environmental Planning and Assessment Act 1979*)?

No

12. Property vegetation plans

Is the land to which a property vegetation plan under the *Native Vegetation Act 2003* applies?

No

13. Orders under *Trees (Disputes between neighbours) Act 2006*

Has an order has been made under the *Trees (Disputes Between Neighbours) Act 2006* to carry out work in relation to a tree on the land (but only if the Council has been notified of the order)?

No

14. Directions under Part 3A

Is there is a direction by the Minister in force under section 75P (2) (c1) of the *Environmental Planning and Assessment Act 1979* that a provision of an environmental planning instrument prohibiting or restricting the carrying out of a project or a stage of a project on the land under Part 4 of the Act does not have effect, a statement to that effect identifying the provision that does not have effect.

Not applicable

15. Site compatibility certificates and conditions for seniors housing

If the land is land to which *State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004* applies:

(a) a statement of whether there is a current site compatibility certificate (of which the Council is aware), issued under clause 25 of that Policy in respect of proposed development on the land and, if there is a certificate, the statement is to include:

(i) the period for which the certificate is current, and
(ii) that a copy may be obtained from the head office of the Department of Planning, and

(b) a statement setting out any terms of a kind referred to in clause 18 (2) of that Policy that have been imposed as a condition of consent to a development application granted after 11 October 2007 in respect of the land.

Not applicable

16. Site compatibility certificates and conditions for infrastructure, schools or TAFE establishments

A statement of whether there is a valid site compatibility certificate (of which the council is aware), issued under clause 19 of *State Environmental Planning Policy (Infrastructure) 2007* in respect of proposed development on the land and, if there is a certificate, the statement is to include:

(a) the period for which the certificate is valid, and
(b) that a copy may be obtained from the head office of the Department of Planning.

There **IS NOT** a valid site compatibility certificate (of which the Council is aware) issued under clause 15 of the *State Environmental Planning Policy (Educational Establishments and Child Care Centres) 2017* is respect of proposed development on the land

17. Site compatibility certificates and conditions for affordable rental housing

(1) A statement of whether there is a current site compatibility certificate (affordable rental housing), of which the council is aware, in respect of proposed development on the land and, if there is a certificate, the statement is to include:

(a) the period for which the certificate is current, and
(b) that a copy may be obtained from the head office of the Department of Planning.

(2) A statement setting out any terms of a kind referred to in clause 17 (1) or 37 (1) of *State Environmental Planning Policy (Affordable Rental Housing) 2009* that have been imposed as a condition of consent to a development application in respect of the land.

Not applicable

18. Paper subdivision information

(1) There **IS NOT** any development plan adopted by a relevant authority that applies to the land or that is proposed to be subject to consent ballot

(2) There **IS NOT** any subdivision order that applies to the land

(3) Words and expressions used in this clause have the same meaning as they have in Part 16C of the *Environmental Planning and Assessment Regulation 2000*

19. Site verification

Is there a current site verification certificate, of which the council is aware, in respect of the land.

No

20. Loose-fill asbestos insulation

Is Council aware of whether the land includes residential premises listed on the register maintained under division 1A of Part 8 of the *Home Building Act 1989*?

No

21. Affected building notices and building product rectification orders

(1) A statement of whether there is any affected building notice of which the council is aware that is in force in respect of the land

No

(2) A statement of:

(a) whether there is any building product rectification order of which the council is aware that is in force in respect of the land and has not been fully complied with, and

No

(b) whether any notice of intention to make a building product rectification order of which the council is aware has been given in respect of the land and is outstanding

No

(3) In this clause:

affected building notice has the same meaning as in Part 4 of the Building Products (Safety) Act 2017.
building product rectification order has the same meaning as in the Building Products (Safety) Act 2017.

Note: Note the following matters are prescribed by section 59(2) of the *Contaminated Land Management Act 1997* as additional matters to be specified in a planning certificate

(a) is the land to which the certificate relates significantly contaminated land — if the land (or part of the land) is declared to be significantly contaminated land at the date when this certificate is issued?

No

(b) (b) is the land to which this certificate relates subject to a management order — if it is subject to such an order at the date when this certificate is issued?

No

(c) (c) is the land to which this certificate relates the subject of an approved voluntary management proposal — if it is the subject of such an approved proposal at the date when this certificate is issued?

No

(d) (d) is the land to which this certificate relates subject to an ongoing maintenance order — if it is subject to such an order at the date when this certificate is issued?

No

(e) (e) is the land to which this certificate relates the subject of a site audit statement — if a copy of such a statement has been provided at any time to the local authority issuing this certificate?

No

Note: Note the following matters are prescribed by section 26 of the *Nation Building and Jobs Plan (State Infrastructure Delivery) Act 2009* as additional matters to be specified in a planning certificate

Is the land subject to an Order under Section 23 and an authorisation under Section 24 of the *Nation Building and Jobs Plan (State Infrastructure Delivery) Act 2009.*

The order and authorisation may exempt the relevant project from complying with certain development control legislation. For further details please contact the Nation Building and jobs Plan Taskforce on telephone number 1800 752 100.

Not applicable

General message on matters not able to be included in this certificate

The s10.7 Certificate provides information relating to the land itself. Persons should make their own enquiries into external matters which may affect the enjoyment of the land such as development consents on adjacent land, Park Plans of Management etc.

General information

The absence of any reference to a matter affecting the land shall not imply that the land is not affected by that matter not referred to in this certificate.

Information provided under section 10.7(2) is in accordance with the matters prescribed under schedule 4 of the Environmental Planning and Assessment Regulation 2000 and is provided only to the extent that the Council has been notified by relevant departments or public authorities

Any enquiries regarding State Environmental Planning Policies should be directed to Planning and Environment

Please contact Council's Strategic Planning section for further information about this planning certificate

Section 10.7(5): Subject to section 10.7(6) the following additional information is furnished in respect of the abovementioned land

Demolition of buildings
Under the local environmental plan applying to the land, development consent is required for the demolition of any building on the land, except in those circumstances for exempt and complying development specified in Ashfield LEP 2013 – Exempt and Complying Development, and except in those circumstances specified in *State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.*
Tree preservation order
The whole of the Ashfield area, to the extent defined by the Ashfield LEP 2013, is affected by a Tree Preservation Order as found in the Inner West Comprehensive Development Control Plan 2016 for Ashbury, Ashfield, Croydon, Croydon Park, Haberfield, Hurlstone Park and Summer Hill.
Council has granted consent to the following development application(s) within five years preceding the date of this certificate
Please Note: The absence of any information means that Council has not granted a consent within this period.

David Birds
Group Manager Strategic Planning
Inner West Council

Per: .....

Appendix F

Field Work Results

BOREHOLE LOG

CLIENT: Trinity Grammar School
PROJECT: Proposed Redevelopment
LOCATION: 113-119 Prospect Road, Summer Hill

SURFACE LEVEL: 46.1 AHD
EASTING: 327126
NORTHING: 6247581
DIP/AZIMUTH: 90°/--

BORE No: BH01
PROJECT No: 86861.00
DATE: 24/7/2019
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing: Type	Depth	Sample	Results & Comments	Water	Well Construction Details
46	0.25	FILL/GRAVEL: fine to medium, subangular to angular, igneous, red-brown, dry, apparently poorly compacted, fill. 0.07m: plastic		A/E	0.25 0.35				
		FILL/GRAVEL: fine to medium, subangular, igneous, dark grey, with fine to medium grained sand, dry, apparently well compacted, fill.		A/E	0.5 0.6				
45	1.0	Silty CLAY CI-CH: medium to high plasticity, pale grey mottled orange brown, trace fine to medium subangular ironstone gravel, w<PL, very stiff to hard, residual soil.		A	1.0 1.05				
					1.5				
	1.7	SHALE: pale grey and brown, very low strength.		S	1.94		10,21,25/140 refusal Hammer Bouncing		
44	2								
43	3			S	3.0 3.37		9,21,15/70 refusal Hammer Bouncing		
42	4	4.5m: dark grey very low strength							
41	5								
40	6	6.0m: low strength							
39	7								
38	8								
	8.6	8.5m: medium strength							
37	9	Bore discontinued at 8.6m TC bit refusal.							

RIG: Hanjin DB8 **DRILLER:** BG Drilling **LOGGED:** LS **CASING:** Uncased

TYPE OF BORING: Hand auger to 1.05m, solid flight auger (TC) to 8.6m.

WATER OBSERVATIONS: Groundwater seepage observed at 7.5m.

REMARKS:

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U_x	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	▷	Water seep	S	Standard penetration test
E	Environmental sample	▼	Water level	V	Shear vane (kPa)

Douglas Partners
Geotechnics / Environment / Groundwater

BOREHOLE LOG

CLIENT: Trinity Grammar School
PROJECT: Proposed Redevelopment
LOCATION: 113-119 Prospect Road, Summer Hill

SURFACE LEVEL: 47.3 AHD
EASTING: 327232
NORTHING: 6247497
DIP/AZIMUTH: 90°/--

BORE No: BH02
PROJECT No: 86861.00
DATE: 24/7/2019
SHEET 1 OF 2

RL	Depth (m)	Description of Strata	Degree of Weathering	Graphic Log	Rock Strength	Water	Fracture Spacing (m)	Discontinuities	Type	Core Rec. %	RQD %	Test Results & Comments
			EW HW MW SW FS FR		Ex Low Very Low Low Medium High Very High Ex High		0.01 0.05 0.10 0.50 1.00	B - Bedding J - Joint S - Shear F - Fault				
47	0.16	CONCRETE: 160mm thick.							A/E			
	0.3	FILL/Sandy CLAY: low to medium plasticity, dark grey, sand is fine to medium grained, with fine to medium subangular igneous gravel, w<PL, fill.							A/E			
46	1	Silty CLAY CI-CH: medium to high plasticity, pale grey mottled orange brown, w>PL, residual soil. 0.7m: pale grey mottled orange brown, with fine subangular ironstone gravel, w<PL, very stiff to hard, grading into weathered rock.							S			14,10/50 refusal
45	2								S			8,13,16 N = 29
44	3											
43	4								S			5,20,22 N = 42
	4.3	SHALE: pale grey with orange brown iron staining, very low strength.										
42	5											
	5.5	SHALE: dark grey with orange brown iron-staining, low to medium strength with very low strength bands, slightly weathered, fractured and slightly fractured with fine grained pale grey sandstone laminations.						5.63-5.67m: J(x3) 20°-30°, pl, ti, fe 5.83-5.87m: Cs 50mm 5.89m: J 85°, ti, fe 6.10-6.12m: J(x2) 30-45°, pl, ti, fe 6.57-6.6m: Cs 30mm 6.68m: B 0°, pl, ro, cly 4mm/fe 6.89m: J 30°, pl, ro, fe/cly 3mm 6.91m: J 70-80°, un, ro, cly 3mm 6.97-7.05m: 50°, pl, ro, fe cly 3mm 7.19-7.23m: Cs 40mm 7.27m: J 85°, st, ro, fe 7.52m: B 0°, pl, ro, cly 5mm 7.6-7.84m: B(x4) 0°, pl, ro 7.38-7.4m: Cs 20mm 7.9m: J 45°, pl, ro, cly 2mm 8.03-8.07m: B(x4) 0°, pl, ro, un/st cly 8.11-8.15m: J(x2) 30-40°, pl, ro, cly 1mm 9.23m: J 45°, pl, ro, cly, vn 9.6-9.64m: J(x2)	C	100	84	PL(A) = 0.3 PL(A) = 0.3
41	6											
40	7											PL(A) = 0.3
	7.93	SHALE: dark grey with 5% pale grey sandstone laminations, medium strength, fresh, slightly fractured and unbroken.										PL(A) = 0.8
39	8								C	100	84	PL(A) = 0.6
38	9											PL(A) = 0.6

RIG: Hanjin DB8 **DRILLER:** BG Drilling **LOGGED:** LS/SI **CASING:** HW to 5.5m

TYPE OF BORING: Diatube to 0.16m, solid flight auger (TC) to 5.5m, NMLC core to 10.36m.

WATER OBSERVATIONS: No free groundwater observed whilst augering.

REMARKS: Piezometer construction: (screen to 10.3m, blank to 4.3); Backfill: (sand to 3.8m, bentonite to 3.3m, sand to 0.2m concrete to surface); Gatic surface completion.

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U_x	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	▷	Water seep	S	Standard penetration test
E	Environmental sample	▼	Water level	V	Shear vane (kPa)

Douglas Partners
Geotechnics / Environment / Groundwater

BOREHOLE LOG

CLIENT: Trinity Grammar School
PROJECT: Proposed Redevelopment
LOCATION: 113-119 Prospect Road, Summer Hill

SURFACE LEVEL: 47.3 AHD
EASTING: 327232
NORTHING: 6247497
DIP/AZIMUTH: 90°/--

BORE No: BH02
PROJECT No: 86861.00
DATE: 24/7/2019
SHEET 2 OF 2

RL	Depth (m)	Description of Strata	Degree of Weathering (EW HW MW SW FS FR)	Graphic Log	Rock Strength (Ex Low / Very Low / Low / Medium / High / Very High / Ex High)	Water	Fracture Spacing (m) (0.01 / 0.05 / 0.10 / 0.50 / 1.00)	Discontinuities (B - Bedding J - Joint S - Shear F - Fault)	Sampling & In Situ Testing: Type	Core Rec. %	RQD %	Test Results & Comments
37								20°-40°, pl, ti,/fs 10m: J 75-85°, pl, ro, cln	C	100	84	PL(A) = 0.6
	10.36	Bore discontinued at 10.36m										
36	11											
35	12											
34	13											
33	14											
32	15											
31	16											
30	17											
29	18											
28	19											

RIG: Hanjin DB8 **DRILLER:** BG Drilling **LOGGED:** LS/SI **CASING:** HW to 5.5m

TYPE OF BORING: Diatube to 0.16m, solid flight auger (TC) to 5.5m, NMLC core to 10.36m.

WATER OBSERVATIONS: No free groundwater observed whilst augering.

REMARKS: Piezometer construction: (screen to 10.3m, blank to 4.3); Backfill: (sand to 3.8m, bentonite to 3.3m, sand to 0.2m concrete to surface); Gatic surface completion.

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U_x	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	▷	Water seep	S	Standard penetration test
E	Environmental sample	▼	Water level	V	Shear vane (kPa)

Douglas Partners
Geotechnics / Environment / Groundwater

BOREHOLE LOG

CLIENT: Trinity Grammar School
PROJECT: Proposed Redevelopment
LOCATION: 113-119 Prospect Road, Summer Hill

SURFACE LEVEL: 49.3 AHD
EASTING: 327168
NORTHING: 6247449
DIP/AZIMUTH: 90°/--

BORE No: BH03
PROJECT No: 86861.00
DATE: 19/7/2019
SHEET 1 OF 2

RL	Depth (m)	Description of Strata	Degree of Weathering	Graphic Log	Rock Strength	Water	Fracture Spacing (m)	Discontinuities	Sampling & In Situ Testing: Type	Core Rec. %	RQD %	Test Results & Comments
			EW HW MW SW FS FR		Ex Low / Very Low / Low / Medium / High / Very High / Ex High		0.01 / 0.05 / 0.10 / 0.50 / 1.00	B - Bedding J - Joint S - Shear F - Fault				
49	0.05	BRICK PAVERS: 50mm thick.										
	0.2	FILL/SAND: fine to medium grained, yellow-brown dry to moist, fill.							A/E			
		Silty CLAY CI-CH: medium to high plasticity, orange-brown mottled red-brown, trace ironstone gravel, w~PL, stiff to very stiff, residual soil.							A/E			
48	1	1.1m: pale grey, w<PL, very stiff to hard, grading into weathered rock.							A/E S			7,27/140 refusal
47	2											
	2.1	SHALE: pale grey-brown, very low strength.							S			14,27/150 refusal
46	3							3m: CORE LOSS: 700mm				
	3.7								C	44	15	
45	4							4.04m: J 85°, st, ro, fe 4.31m: J 85°, pl, ro, cly 1mm 4.6-4.65m: J(x2) 30-35°, pl, ti, fe				PL(A) = 0.2
	4.0	SHALE: grey-brown, low and medium strength, extremely to highly weathered, fractured then slightly fractured, with 15% clay seams and 10% fine grained pale grey sandstone laminations.										
44	5							5.58m: J 85°, pl, ti 5.64m: J 35°, pl, ti, cly 1mm 5.87m: J 45°, ti, cly 1mm 6m: J 45°, pl, ti, fe 6.12m: J 40-60°, un, ro, fe	C	100	99	PL(A) = 0.7
	5.0	SHALE: dark grey, medium strength, slightly weathered then fresh, slightly fractured, with orange brown iron-staining and 20% fine grained pale grey sandstone laminations.										PL(A) = 0.5
43	6											
	6.6	6.4-6.5m: very high strength siderite band.										
42	7	SHALE: dark grey, medium strength, fresh, slightly fractured and unbroken, with 20% fine grained pale grey sandstone laminations.						6.96m: B 0°, pl, ro, cly 2mm 7.54m: B 0°, pl, ro, cly 2mm	C	100	100	PL(A) = 0.6
	8							8.08m: B 0°, pl, ro, cly 3mm				PL(A) = 0.7
41	9								C	100	100	PL(A) = 0.8
40								9.5m: B 0°, pl, ro, cly 2mm 9.76-9.93m: J 85°, pl, ro,				

RIG: Hanjin DB8 **DRILLER:** Rockwell Drilling **LOGGED:** LS/SI **CASING:** HW to 3.0m

TYPE OF BORING: Solid flight auger (TC) to 3.0m, NMLC core to 10.15m.

WATER OBSERVATIONS: No free groundwater observed whilst augering.

REMARKS:

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U_x	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	▷	Water seep	S	Standard penetration test
E	Environmental sample	▼	Water level	V	Shear vane (kPa)

Douglas Partners
Geotechnics / Environment / Groundwater

BOREHOLE LOG

CLIENT: Trinity Grammar School
PROJECT: Proposed Redevelopment
LOCATION: 113-119 Prospect Road, Summer Hill

SURFACE LEVEL: 49.3 AHD
EASTING: 327168
NORTHING: 6247449
DIP/AZIMUTH: 90°/--

BORE No: BH03
PROJECT No: 86861.00
DATE: 19/7/2019
SHEET 2 OF 2

RL	Depth (m)	Description of Strata	Degree of Weathering (EW HW MW SW FS FR)	Graphic Log	Rock Strength (Ex Low / Very Low / Low / Medium / High / Very High / Ex High)	Water	Fracture Spacing (m) (0.01 / 0.05 / 0.10 / 0.50 / 1.00)	Discontinuities (B - Bedding J - Joint S - Shear F - Fault)	Sampling & In Situ Testing: Type	Core Rec. %	RQD %	Test Results & Comments
	10.15	Bore discontinued at 10.15m						cly 1mm 9.94-9.98m: J(x4) 45°, pl, ro, cly 1mm	C	100	100	PL(A) = 0.6

RIG: Hanjin DB8 **DRILLER:** Rockwell Drilling **LOGGED:** LS/SI **CASING:** HW to 3.0m

TYPE OF BORING: Solid flight auger (TC) to 3.0m, NMLC core to 10.15m.

WATER OBSERVATIONS: No free groundwater observed whilst augering.

REMARKS:

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U_x	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	▷	Water seep	S	Standard penetration test
E	Environmental sample	▼	Water level	V	Shear vane (kPa)

Douglas Partners
Geotechnics / Environment / Groundwater

BOREHOLE LOG

CLIENT: Trinity Grammar School
PROJECT: Proposed Redevelopment
LOCATION: 113-119 Prospect Road, Summer Hill

SURFACE LEVEL: 47.5 AHD
EASTING: 327139
NORTHING: 6247380
DIP/AZIMUTH: 90°/--

BORE No: BH04
PROJECT No: 86861.00
DATE: 15/7/2019
SHEET 1 OF 2

RL	Depth (m)	Description of Strata	Degree of Weathering	Graphic Log	Rock Strength	Water	Fracture Spacing (m)	Discontinuities	Sampling & In Situ Testing: Type	Core Rec. %	RQD %	Test Results & Comments
			EW HW MW SW FS FR		Ex Low / Very Low / Low / Medium / High / Very High / Ex High		0.01 / 0.05 / 0.10 / 0.50 / 1.00	B - Bedding J - Joint S - Shear F - Fault				
47	0.2	FILL/Sandy CLAY: dark brown, sand is fine to medium grained, trace rootlets, w>PL, apparently moderately compacted, fill.							A/E			
		FILL/Silty CLAY: brown and pale grey, w~PL, apparently moderately compacted, no odour, fill.							A/E			
1									A/E			
	1.2	Silty CLAY CI-CH: medium to high plasticity, orange mottled red, trace fine subangular ironstone gravel, w>PL, stiff, residual soil.							S			4,5,5 N = 10
46												
2		2.0m: orange mottled pale grey, with some fine to medium subangular ironstone gravel.							E			
									S			4,4,6 N = 10
45												
3												
		3.5m: hard, grading into weathered shale.							S			4/20 refusal Hammer Bouncing
44									A			
4												
43												
5												
42									A			
6	6.0	SHALE: grey-brown, very low strength, with higher strength orange-brown iron indurated bands.										
41												
7	7.03	SHALE: grey to grey-brown, very low strength, highly weathered, fragmented.						7.08-7.12m: fg 7.23m: B 0°, pl, sm, cly, vn 7.3-7.33m: Ds 7.33-7.36m: Cs 7.36-7.38m: Cz 7.44-7.46m: Ds 7.57-7.62m: Cz 7.88-8.0m: J 75°, pl, sm, cln	A			
40												
8	7.95	SHALE: dark grey, medium strength, slightly weathered, fragmented to fractured with clay seams. 8.2-8.3m: very high strength siderite bands							C	100	55	PL(A) = 0.2 PL(A) = 0.08 PL(A) = 0.6 PL(A) = 0.6
39								8.1m: B 0°, pl, fe, sm, cly co 1mm 8.18-8.19m: Cs 8.28m: B 0°, pl, sm, fe stn 8.3-8.31m: Cz 8.54m: B 0°, pl, sm, cly co 5mm 8.68m: B 0°, pl, sm, cly co 5mm 8.7m: B 0°, pl, sm, cly				
9												
	9.2	SHALE: dark grey, medium then low to medium strength, slightly weathered and fractured, with <5% fine grained pale grey sandstone laminations.							C	100	47	PL(A) = 0.6 PL(A) = 0.6
38												

RIG: Hanjin DB8 **DRILLER:** GSDE **LOGGED:** AH/SI **CASING:** PVC to 0.6m

TYPE OF BORING: Solid flight auger (TC) to 7.03m, NMLC core to 10.49m.

WATER OBSERVATIONS: No free groundwater observed whilst augering.

REMARKS: Piezometer construction: (screen to 10.0m, blank to 5.5); Backfill: (sand to 5.0m, bentonite to 0.2m, concrete to surface); Gatic surface completion.

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U_x	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	▷	Water seep	S	Standard penetration test
E	Environmental sample	▼	Water level	V	Shear vane (kPa)

Douglas Partners
Geotechnics / Environment / Groundwater

BOREHOLE LOG

CLIENT: Trinity Grammar School
PROJECT: Proposed Redevelopment
LOCATION: 113-119 Prospect Road, Summer Hill

SURFACE LEVEL: 47.5 AHD
EASTING: 327139
NORTHING: 6247380
DIP/AZIMUTH: 90°/--

BORE No: BH04
PROJECT No: 86861.00
DATE: 15/7/2019
SHEET 2 OF 2

RL	Depth (m)	Description of Strata	Degree of Weathering (EW HW MW SW FS FR)	Graphic Log	Rock Strength (Ex Low / Very Low / Low / Medium / High / Very High / Ex High)	Water	Fracture Spacing (m) (0.01 / 0.05 / 0.10 / 0.50 / 1.00)	Discontinuities (B - Bedding J - Joint S - Shear F - Fault)	Sampling & In Situ Testing: Type	Core Rec. %	RQD %	Test Results & Comments
37	10.49	Bore discontinued at 10.49m						co 3mm 8.78-9.25m: B(x13) 0°, pl, sm, cly co 1-3mm 9.49-9.62m: B(x4) 0°, pl, sm, cly co 1-3mm 9.86m: B 0°, pl, sm, cly vn 10.04m: B 0°, pl, sm, cly co 2mm 10.3-10.44m: B(x5) 0°, pl, sm, cly co 1-3mm 10.30-10.49m: J 75°, st, sm, fe stn	C	100	47	PL(A) = 0.7
36	11											
35	12											
34	13											
33	14											
32	15											
31	16											
30	17											
29	18											
28	19											

RIG: Hanjin DB8 **DRILLER:** GSDE **LOGGED:** AH/SI **CASING:** PVC to 0.6m

TYPE OF BORING: Solid flight auger (TC) to 7.03m, NMLC core to 10.49m.

WATER OBSERVATIONS: No free groundwater observed whilst augering.

REMARKS: Piezometer construction: (screen to 10.0m, blank to 5.5); Backfill: (sand to 5.0m, bentonite to 0.2m, concrete to surface); Gatic surface completion.

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U_x	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	▷	Water seep	S	Standard penetration test
E	Environmental sample	▼	Water level	V	Shear vane (kPa)

Douglas Partners
Geotechnics / Environment / Groundwater

BOREHOLE LOG

CLIENT: Trinity Grammar School
PROJECT: Proposed Redevelopment
LOCATION: 113-119 Prospect Road, Summer Hill

SURFACE LEVEL: 47.5 AHD
EASTING: 327130
NORTHING: 6247354
DIP/AZIMUTH: 90°/--

BORE No: BH05
PROJECT No: 86861.00
DATE: 15/7/2019
SHEET 1 OF 2

RL	Depth (m)	Description of Strata	Degree of Weathering	Graphic Log	Rock Strength	Water	Fracture Spacing (m)	Discontinuities	Sampling & In Situ Testing: Type	Core Rec. %	RQD %	Test Results & Comments
			EW HW MW SW FS FR		Ex Low Very Low Low Medium High Very High Ex High		0.01 0.05 0.10 0.50 1.00	B - Bedding J - Joint S - Shear F - Fault				
47	0.2	FILL/Clayey SAND: fine to medium grained, dark brown, trace rootlets, moist, apparently moderately compacted, no odour, fill.							A/E			
		FILL/Silty CLAY: medium plasticity, brown and orange, trace fine subangular ironstone gravel and ash, w>PL, apparently moderately compacted, no odour, fill.							A/E			
46	1								A/E			
									S			4,4,5 N = 9
	1.8	Silty CLAY CI-CH: medium to high plasticity, orange mottled red, trace fine subangular ironstone gravel, w>PL, firm, residual.							E			
45	2	2.5m: orange mottled pale grey, with fine to medium subangular ironstone gravel.							S			1,1,2 N = 3
	3	3.0m: pale grey w<PL, hard, grading into weathered shale.										
44												
	4								S			25/100 refusal
43												
	5											
42									S			16,25 refusal
	6											
	6.0	SHALE: pale grey-brown, very low strength.										
41	7											
	7.0	SHALE: dark grey, medium strength, slightly weathered then fresh stained, fractured and slightly fractured, with 10% fine grained pale grey sandstone laminations.						7.0-7.2m: B(x5) 0°, pl, st fe 7.25m: B 0°, cly 5mm 7.35m: J 45-60°, un, ti 7.6-7.75m: B 0°-5°, fe	C	100	53	PL(A) = 0.4
40	8											
								8.3m: J 25°, un, ro, ti 8.55m: B 0°, fe				PL(A) = 0.4
39	8.6	SHALE: dark grey, medium strength, fresh, slightly fractured and unbroken with 5% fine grained pale grey sandstone laminations.							C	100	100	
	9											
38												PL(A) = 0.6
								9.65m: J 80° , un, ro, cln 9.72m: J 45°, pl, ro, cln				

RIG: Hanjin DB8 **DRILLER:** BG Drilling **LOGGED:** AH/SI **CASING:** HW to 6.5m

TYPE OF BORING: Solid flight auger (TC) to 7.0m, NMLC core to 10.92m.

WATER OBSERVATIONS: No free groundwater observed whilst augering.

REMARKS:

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U_x	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	▷	Water seep	S	Standard penetration test
E	Environmental sample	▼	Water level	V	Shear vane (kPa)

Douglas Partners
Geotechnics / Environment / Groundwater

BOREHOLE LOG

CLIENT: Trinity Grammar School
PROJECT: Proposed Redevelopment
LOCATION: 113-119 Prospect Road, Summer Hill

SURFACE LEVEL: 47.5 AHD
EASTING: 327130
NORTHING: 6247354
DIP/AZIMUTH: 90°/--

BORE No: BH05
PROJECT No: 86861.00
DATE: 15/7/2019
SHEET 2 OF 2

RL	Depth (m)	Description of Strata	Degree of Weathering (EW HW MW SW FS FR)	Graphic Log	Rock Strength (Ex Low / Very Low / Low / Medium / High / Very High / Ex High)	Water	Fracture Spacing (m) (0.01 / 0.05 / 0.10 / 0.50 / 1.00)	Discontinuities (B - Bedding J - Joint S - Shear F - Fault)	Sampling & In Situ Testing: Type	Core Rec. %	RQD %	Test Results & Comments
37		SHALE: dark grey, medium strength, fresh, slightly fractured and unbroken with 5% fine grained pale grey sandstone laminations. *(continued)*						10.7m: J 45°, un, ro, cln	C	100	100	PL(A) = 0.8
11	10.92	Bore discontinued at 10.92m										
36	12											
35	13											
34	14											
33	15											
32	16											
31	17											
30	18											
29	19											
28												

RIG: Hanjin DB8 **DRILLER:** BG Drilling **LOGGED:** AH/SI **CASING:** HW to 6.5m

TYPE OF BORING: Solid flight auger (TC) to 7.0m, NMLC core to 10.92m.

WATER OBSERVATIONS: No free groundwater observed whilst augering.

REMARKS:

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U_x	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	▷	Water seep	S	Standard penetration test
E	Environmental sample	▼	Water level	V	Shear vane (kPa)

Douglas Partners
Geotechnics / Environment / Groundwater

BOREHOLE LOG

CLIENT: Trinity Grammar School
PROJECT: Proposed Redevelopment
LOCATION: 113-119 Prospect Road, Summer Hill

SURFACE LEVEL: 48.2 AHD
EASTING: 327083
NORTHING: 6247363
DIP/AZIMUTH: 90°/--

BORE No: BH06
PROJECT No: 86861.00
DATE: 18/7/2019
SHEET 1 OF 2

RL	Depth (m)	Description of Strata	Degree of Weathering	Graphic Log	Rock Strength	Water	Fracture Spacing (m)	Discontinuities (B - Bedding, J - Joint, S - Shear, F - Fault)	Type	Core Rec. %	RQD %	Test Results & Comments
48	0.3	FILL/SAND: fine to medium grained, brown, with silt and trace rootlets, moist, fill.							A/E			
	0.6	FILL/Clayey SAND: fine to medium grained, dark brown, trace fine subangular shale gravel, moist, fill.							A			
47	1	Silty CLAY CI-CH: medium to high plasticity, pale grey mottled red-brown, with fine to medium subangular ironstone gravel, w<PL, very stiff to hard, residual.							A			
									S			25,10/10 refusal
46	2											
	2.1	SHALE: pale grey-brown, very low strength.										
		2.7m: grey, very low strength with low strength bands.							S			8,25/130 refusal
45	3											
44	4											
	4.07	SHALE: grey with orange-brown iron-staining, very low strength with low to medium strength bands, highly to moderately weathered, fragmented to fractured.						4.21-4.24m: Cs 30mm 4.33-5.35m: pl, ti, fe 4.44-4.53m: B(x3) 45-60°, pl, ti, fe 4.58-4.61m: Cs 30mm 4.74-5.0m: B 30°, pl, ro, cly 1mm 4.86-4.89m: J 50°, pl, ro, fe	C	100	0	PL(A) = 0.4
	4.6	SHALE: dark grey with orange brown iron-staining, medium strength with some low strength bands, slightly weathered, fractured, with 5-10% fine grained pale grey sandstone laminations.						4.94m: J 60°, pl, ti, fe 5mm 4.97-5.0m: Ds 30mm 5m: J 85°, st, ti, fe 5.32m: J 30°, pl, ro, fe 5.54-5.61m: J 45°, pl, ro, fe 5.64m: J 60°, pl, ti, fe 5.678m: J 60°, pl, fe 3mm 5.7-5.77m: J(x7) 30-45°, pl, ro, fe 6.25m: J 30°, pl, ro, fe 6.26-6.28m: J(x3), 20-30°, pl, ro, fe 6.27m: J 60°, pl, ti, fe 4mm 6.36m: J 0-20°, un, ro, cly 5mm	C	100	40	PL(A) = 0.4 PL(A) = 0.9 PL(A) = 0.6
43	5											
42	6											
41	7											
	7.0	SHALE: dark grey, medium strength, fresh, unbroken, with 5% fine grained pale grey sandstone laminations.						6.43m: J 30°, pl, ro, fe 6.53-6.63m: J(x2) 80°, un, ro, fe 6.58-6.6m: Ds 20mm 6.76m: J 85°, st, ro, fe 6.84m: B 0°, pl, ro, cly 7mm 6.85-6.87m: J(x3) 40°-70°, un, ro, fe 6.95m: J 50°, pl, ro, fe 7.2m: J 45°, pl, ro, fe/ cly 2mm	C	100	100	PL(A) = 0.5 PL(A) = 0.9
40	8											
39	9											

RIG: Hanjin DB8 **DRILLER:** Rockwell Drilling **LOGGED:** LS/SI **CASING:** HW to 4.0m

TYPE OF BORING: Solid flight auger (TC) to 4.0m, NMLC core to 10.35m.

WATER OBSERVATIONS: No free groundwater observed whilst augering.

REMARKS:

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U_x	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	▷	Water seep	S	Standard penetration test
E	Environmental sample	▼	Water level	V	Shear vane (kPa)

Douglas Partners
Geotechnics / Environment / Groundwater

BOREHOLE LOG

CLIENT: Trinity Grammar School
PROJECT: Proposed Redevelopment
LOCATION: 113-119 Prospect Road, Summer Hill

SURFACE LEVEL: 48.2 AHD
EASTING: 327083
NORTHING: 6247363
DIP/AZIMUTH: 90°/--

BORE No: BH06
PROJECT No: 86861.00
DATE: 18/7/2019
SHEET 2 OF 2

RL	Depth (m)	Description of Strata	Degree of Weathering (EW HW MW SW FS FR)	Graphic Log	Rock Strength (Ex Low / Very Low / Low / Medium / High / Very High / Ex High)	Water	Fracture Spacing (m) (0.01 / 0.05 / 0.10 / 0.50 / 1.00)	Discontinuities (B - Bedding J - Joint S - Shear F - Fault)	Sampling & In Situ Testing: Type	Core Rec. %	RQD %	Test Results & Comments
38		10.05-10.15m: very high strength band.							C	100	100	PL(A) = 5.4
	10.35	Bore discontinued at 10.35m										
37	11											
36	12											
35	13											
34	14											
33	15											
32	16											
31	17											
30	18											
29	19											

RIG: Hanjin DB8 **DRILLER:** Rockwell Drilling **LOGGED:** LS/SI **CASING:** HW to 4.0m

TYPE OF BORING: Solid flight auger (TC) to 4.0m, NMLC core to 10.35m.

WATER OBSERVATIONS: No free groundwater observed whilst augering.

REMARKS:

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U_x	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	▷	Water seep	S	Standard penetration test
E	Environmental sample	▼	Water level	V	Shear vane (kPa)

Douglas Partners
Geotechnics / Environment / Groundwater

BOREHOLE LOG

CLIENT: Trinity Grammar School
PROJECT: Proposed Redevelopment
LOCATION: 113-119 Prospect Road, Summer Hill

SURFACE LEVEL: 47.6 AHD
EASTING: 327118
NORTHING: 6247326
DIP/AZIMUTH: 90°/--

BORE No: BH07
PROJECT No: 86861.00
DATE: 15/7/2019
SHEET 1 OF 2

RL	Depth (m)	Description of Strata	Degree of Weathering (EW HW MW SW FS FR)	Graphic Log	Rock Strength (Ex Low, Very Low, Low, Medium, High, Very High, Ex High)	Water	Fracture Spacing (m) (0.01, 0.05, 0.10, 0.50, 1.00)	Discontinuities (B - Bedding J - Joint S - Shear F - Fault)	Type	Core Rec. %	RQD %	Test Results & Comments
47	0.3	FILL/Clayey SAND: fine to medium grained, dark brown, trace rootlets, moist, apparently moderately compacted, no odour, fill.							A/E			
		FILL/Silty CLAY: medium plasticity, pale grey and brown, trace fine to medium subangular ironstone and shale gravel, w>PL, apparently moderately compacted, fill.							A/E*			
46	1.6	Silty CLAY CI-CH: medium to high plasticity, pale grey mottled orange-red, with fine to medium subangular ironstone gravel, w<PL, very stiff, residual.							S			2,3,3 N = 6
45		2.5m: hard, grading into weathered shale, with orange-brown indurated bands.							A			
44									S			8,21/100 refusal
43									S			12,21,30 N = 51
42									A			
41									A			
40	7.05	SHALE: pale grey with orange-brown iron-staining, very low and low strength, highly weathered, fractured and slightly fractured, with 5% fine grained pale grey sandstone laminations.						7.05-7.45m: B 0°-5°, fe 7.45m: J 35°, pl, ro, fe 7.6m: J 45-75°, un, ro, fe 7.9m: J30-70°, un, ro, fe 8.05-8.5m: B 5-10°, fe, cly 8.8m: J 60°, pl, ro, cln 9.2m: B 0°, fe 9.2-9.33m: Ds	C	100	30	PL(A) = 0.1 PL(A) = 0.3
38	9.33	SHALE: dark grey, medium strength, fresh, slightly fractured.										

RIG: Hanjin DB8 **DRILLER:** GSDE **LOGGED:** AH/SI **CASING:** PVC to 0.6m

TYPE OF BORING: Solid flight auger (TC) to 7.05m, NMLC core to 10.15m.

WATER OBSERVATIONS: No free groundwater observed whilst augering.

REMARKS: *BD01/150719: Duplicate taken at 0.9-1.0m.

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U_x	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	▷	Water seep	S	Standard penetration test
E	Environmental sample	▼	Water level	V	Shear vane (kPa)

Douglas Partners
Geotechnics / Environment / Groundwater

BOREHOLE LOG

CLIENT: Trinity Grammar School
PROJECT: Proposed Redevelopment
LOCATION: 113-119 Prospect Road, Summer Hill

SURFACE LEVEL: 47.6 AHD
EASTING: 327118
NORTHING: 6247326
DIP/AZIMUTH: 90°/--

BORE No: BH07
PROJECT No: 86861.00
DATE: 15/7/2019
SHEET 2 OF 2

RL	Depth (m)	Description of Strata	Degree of Weathering (EW HW MW SW FS FR)	Graphic Log	Rock Strength (Ex Low / Very Low / Low / Medium / High / Very High / Ex High)	Water	Fracture Spacing (m) (0.01 / 0.05 / 0.10 / 0.50 / 1.00)	Discontinuities (B - Bedding J - Joint S - Shear F - Fault)	Sampling & In Situ Testing: Type	Core Rec. %	RQD %	Test Results & Comments
	10.15	Bore discontinued at 10.15m							C	100	30	PL(A) = 0.6

RIG: Hanjin DB8 **DRILLER:** GSDE **LOGGED:** AH/SI **CASING:** PVC to 0.6m

TYPE OF BORING: Solid flight auger (TC) to 7.05m, NMLC core to 10.15m.

WATER OBSERVATIONS: No free groundwater observed whilst augering.

REMARKS: *BD01/150719: Duplicate taken at 0.9-1.0m.

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U_x	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	▷	Water seep	S	Standard penetration test
E	Environmental sample	▼	Water level	V	Shear vane (kPa)

Douglas Partners
Geotechnics / Environment / Groundwater

BOREHOLE LOG

CLIENT: Trinity Grammar School
PROJECT: Proposed Redevelopment
LOCATION: 113-119 Prospect Road, Summer Hill

SURFACE LEVEL: 48.1 AHD
EASTING: 327073
NORTHING: 6247299
DIP/AZIMUTH: 90°/--

BORE No: BH08
PROJECT No: 86861.00
DATE: 15/7/2019
SHEET 1 OF 2

RL	Depth (m)	Description of Strata	Degree of Weathering	Graphic Log	Rock Strength	Water	Fracture Spacing (m)	Discontinuities (B - Bedding, J - Joint, S - Shear, F - Fault)	Type	Core Rec. %	RQD %	Test Results & Comments
48	0.3	FILL/Clayey SAND: fine to medium grained, dark brown, trace rootlets, moist, apparently moderately compacted, no odour, fill.							E			
	0.8	FILL/Silty CLAY: medium plasticity, grey and brown, trace fine subangular ironstone and shale gravel, trace ash, w>PL, apparently moderately compacted, fill.							E			
47	1								E			
									S			3,4,4 N = 8
		Silty CLAY CI-CH: medium to high plasticity, orange mottled red, trace fine subangular ironstone gravel, w>PL, stiff, residual.										
46	2											
		2.5m: pale grey mottled orange-brown, w<PL, hard, grading into weathered shale.							S			8/40 refusal
45	3											
		3.4m: with orange brown iron indurated bands.							C	100	0	pp = 300 pp = 280 pp = 210 pp = 200
44	4											
	4.7	SHALE: grey-brown, very low strength, extremely to highly weathered with clay bands.						4.7m: J 30°, pl, ro, fe				pp = 420
43	5								C	87	0	
	5.55	SHALE: pale grey and brown, very low to low strength, highly weathered, fractured and slightly fractured, with clay and iron indurated bands.						5.5m: CORE LOSS: 50mm 5.75m: J 45°, un, ro, fe	C	65	0	PL(A) = 0.3 pp = 520
42	6											
								6.6m: CORE LOSS: 1050mm				
41	7											
	7.65	SHALE: grey-brown, very low then low strength, highly then slightly weathered, fractured and slightly fractured, with clay bands.						7.77-7.85m: J 80°, un, ro, fe 7.85-8.3m: B(x8) 0-5°, fe				PL(A) = 0.2
40	8							8.3-9.1m: B(x8) 0°, fe, cly 5-10mm	C	100	0	PL(A) = 0.1
39	9							9.2m: J 45°, pl, ro, fe 9.3m: J 30-45°, cu, ro, fe 9.5m: J 30°, pl, ro, cln	C	100	93	PL(A) = 0.2
	9.85							9.85m: B 5°, fe, cly 5mm				

RIG: Hanjin DB8 **DRILLER:** GSDE **LOGGED:** AH/SI **CASING:** PVC to 0.6m

TYPE OF BORING: Solid flight auger (TC) to 3.4m, NMLC core to 11.4m.

WATER OBSERVATIONS: No free groundwater observed whilst augering.

REMARKS:

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U_x	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	▷	Water seep	S	Standard penetration test
E	Environmental sample	▼	Water level	V	Shear vane (kPa)

Douglas Partners
Geotechnics / Environment / Groundwater

BOREHOLE LOG

CLIENT: Trinity Grammar School
PROJECT: Proposed Redevelopment
LOCATION: 113-119 Prospect Road, Summer Hill

SURFACE LEVEL: 48.1 AHD
EASTING: 327073
NORTHING: 6247299
DIP/AZIMUTH: 90°/--

BORE No: BH08
PROJECT No: 86861.00
DATE: 15/7/2019
SHEET 2 OF 2

RL	Depth (m)	Description of Strata	Degree of Weathering (EW HW MW SW FS FR)	Graphic Log	Rock Strength (Ex Low, Very Low, Low, Medium, High, Very High, Ex High)	Water	Fracture Spacing (m) (0.01, 0.05, 0.10, 0.50, 1.00)	Discontinuities (B - Bedding J - Joint S - Shear F - Fault)	Sampling & In Situ Testing: Type	Core Rec. %	RQD %	Test Results & Comments
38		SHALE: dark grey, medium to high strength, fresh, slightly fractured, with <5% fine grained pale grey sandstone laminations *(continued)*										PL(A) = 0.6
									C	100	93	
37	11							10.8m: J 60°, pl, sm, cln 11.02m: J 80°, pl, ro, fe 11.16-11.30m: J(x3) 45°, pl, sm, cly				PL(A) = 1.6
	11.4	Bore discontinued at 11.4m										
36	12											
35	13											
34	14											
33	15											
32	16											
31	17											
30	18											
29	19											

RIG: Hanjin DB8 **DRILLER:** GSDE **LOGGED:** AH/SI **CASING:** PVC to 0.6m

TYPE OF BORING: Solid flight auger (TC) to 3.4m, NMLC core to 11.4m.

WATER OBSERVATIONS: No free groundwater observed whilst augering.

REMARKS:

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U_x	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	▷	Water seep	S	Standard penetration test
E	Environmental sample	▼	Water level	V	Shear vane (kPa)

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Geotechnics / Environment / Groundwater

BOREHOLE LOG

CLIENT: Trinity Grammar School
PROJECT: Proposed Redevelopment
LOCATION: 113-119 Prospect Road, Summer Hill

SURFACE LEVEL: 47.6 AHD
EASTING: 327116
NORTHING: 6247295
DIP/AZIMUTH: 90°/--

BORE No: BH09
PROJECT No: 86861.00
DATE: 15/7/2019
SHEET 1 OF 2

RL	Depth (m)	Description of Strata	Degree of Weathering	Graphic Log	Rock Strength	Water	Fracture Spacing (m)	Discontinuities	Sampling & In Situ Testing: Type	Core Rec. %	RQD %	Test Results & Comments
		B - Bedding J - Joint S - Shear F - Fault	EW HW MW SW FS FR		Ex Low Very Low Low Medium High Very High Ex High		0.01 0.05 0.10 0.50 1.00					
47	0.3	FILL/Clayey SAND: fine to medium grained, dark brown, trace rootlets, moist, apparently moderately compacted, fill.							A/E			
		FILL/Silty CLAY: medium plasticity, pale grey and brown, trace fine to medium subangular ironstone and shale gravel, w>PL,apparently poorly compacted, fill.							A/E			
46	1								A/E			
									S			2,2,3 N = 5
	2								E			
45	2.5	Silty CLAY CI-CH: medium to high plasticity, orange mottled red, trace fine subangular ironstone gravel, w>PL, firm, residual.							E			
									S			1,2,3 N = 5
	3											
44									E*			
	4	4.0m: pale grey mottled orange-red, w<PL, very stiff to hard, grading into weathered shale.							S			11/50 refusal
43												
	5											
42									S			5,23,23 N = 46
	6											
41												
	7											
	7.5	SHALE: grey brown, very low strength, slightly weathered, fractured.										
40	7.75	SHALE: dark grey with orange brown iron staining, low to medium strength, slightly weathered, to fresh stained, fractured to slightly fractured, with 5% fine grained pale grey sandstone laminations.						7.62m: B 0°, cly 10mm 7.7 to 7.9m: J75°, un, ro, fe 7.9m: B 20°, un, ro, fe 8.15m: J 45°, pl, ro, fe 8.35-8.65m: B(x3) 0°-5°, fe	C	100	33	PL(A) = 0.3
	8											
39												PL(A) = 0.3
	9							8.9 & 9.2m: B(x2) 0°, fe				
38									C	100	98	PL(A) = 0.3
	10.0											

RIG: Hanjin DB8 **DRILLER:** BG Drilling **LOGGED:** AH/SI **CASING:** HW to 6.0m

TYPE OF BORING: Solid flight auger (TC) to 7.08m, NMLC core to 11.0m.

WATER OBSERVATIONS: No free groundwater observed whilst augering.

REMARKS: *BD02/150719: Duplicate taken at 3.4-3.5m.

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U_x	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	▷	Water seep	S	Standard penetration test
E	Environmental sample	▼	Water level	V	Shear vane (kPa)

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Geotechnics / Environment / Groundwater

BOREHOLE LOG

CLIENT: Trinity Grammar School
PROJECT: Proposed Redevelopment
LOCATION: 113-119 Prospect Road, Summer Hill

SURFACE LEVEL: 47.6 AHD
EASTING: 327116
NORTHING: 6247295
DIP/AZIMUTH: 90°/--

BORE No: BH09
PROJECT No: 86861.00
DATE: 15/7/2019
SHEET 2 OF 2

RL	Depth (m)	Description of Strata	Degree of Weathering (EW HW MW SW FS FR)	Graphic Log	Rock Strength (Ex Low / Very Low / Low / Medium / High / Very High / Ex High)	Water	Fracture Spacing (m) (0.01 / 0.05 / 0.10 / 0.50 / 1.00)	Discontinuities (B - Bedding J - Joint S - Shear F - Fault)	Sampling & In Situ Testing: Type	Core Rec. %	RQD %	Test Results & Comments
37		SHALE: dark grey, medium strength, fresh, unbroken, with 10% fine grained pale grey sandstone laminations.							C	100	98	PL(A) = 0.4
	11 11.0	Bore discontinued at 11.0m						10.9m: J 85°, pl, ro, cly				
36	12											
35	13											
34	14											
33	15											
32	16											
31	17											
30	18											
29	19											
28												

RIG: Hanjin DB8 **DRILLER:** BG Drilling **LOGGED:** AH/SI **CASING:** HW to 6.0m

TYPE OF BORING: Solid flight auger (TC) to 7.08m, NMLC core to 11.0m.

WATER OBSERVATIONS: No free groundwater observed whilst augering.

REMARKS: *BD02/150719: Duplicate taken at 3.4-3.5m.

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U_x	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	▷	Water seep	S	Standard penetration test
E	Environmental sample	▼	Water level	V	Shear vane (kPa)

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BOREHOLE LOG

CLIENT: Trinity Grammar School
PROJECT: Proposed Redevelopment
LOCATION: 113-119 Prospect Road, Summer Hill

SURFACE LEVEL: 45.8 AHD
EASTING: 327180
NORTHING: 6247376
DIP/AZIMUTH: 90°/--

BORE No: BH10
PROJECT No: 86861.00
DATE: 23/7/2019
SHEET 1 OF 2

RL	Depth (m)	Description of Strata	Degree of Weathering	Graphic Log	Rock Strength	Water	Fracture Spacing (m)	Discontinuities	Sampling & In Situ Testing: Type	Core Rec. %	RQD %	Test Results & Comments
			EW HW MW SW FS FR		Ex Low / Very Low / Low / Medium / High / Very High / Ex High		0.01 / 0.05 / 0.10 / 0.50 / 1.00	B - Bedding J - Joint S - Shear F - Fault				
45	0.5	FILL/SAND: medium to coarse grained, brown, with some silt, trace rootlets in top 0.1m, moist, poorly compacted, fill.							A/E			
		0.1m: trace fine subangular shale gravel.							A/E			
1	1.1	FILL/Silty CLAY: medium plasticity, brown and red, with fine subangular ironstone gravel, trace coarse grained sand, w>PL, poorly compacted, fill.							A/E*			
		Silty CLAY CI-CH: medium to high plasticity, red brown mottled pale grey, w>PL, stiff, residual.							S			4,6,7 N = 13
44	2	2.1m: pale grey mottled red-brown with iron indurated bands, w<PL, very stiff to hard, grading into weathered shale.										
									S			4,20/100 refusal
43	3											
42	4								S			9,25/100 refusal
41	5								C	100	0	
	5.5	SHALE: grey to dark grey with orange brown iron-staining, very low strength, highly weathered, fractured.						5.6-5.7m: J(x4) 30-40°, pl, ti, fe 5.8-6.24m: J(x10) 20-40°, pl, ti, fe 5.96m: J 85°, pl, ro, fe 6.11m: J 80°, pl, ti, cly 1mm.fe 6.26m: CORE LOSS: 340mm 6.6-6.68m: Cs 80 mm 6.7-6.82m: J 70-80°, st, ti, fe 6.82m: J 60-85°, ti, fe 6.99-7.1m: J (x6) 30-45°, pl, fe/cly 2mm 7.11m: J 45°, pl, fe/cly 5mm 7.2-7.29m: J(x4) 30-50°, un, ti, fe 7.55-7.59m: B(x2) 0°, pl, ro, fe/ cly 8.55m: J 50-75°, un, ti, cly vn				PL(A) = 0.3
40	6											
	6.6	SHALE: grey-brown, very low and low strength, highly weathered, fractured.							C	89	32	PL(A) = 0.2
39	7											
	7.85	SHALE: dark grey, medium strength, fresh, unbroken, with 5-10% fine grained pale grey sandstone laminations.										PL(A) = 0.4
38	8											
37	9								C	100	100	PL(A) = 0.5
36												PL(A) = 0.8

RIG: Hanjin DB8 **DRILLER:** BG Drilling **LOGGED:** LS/SI **CASING:** HW to 4.0m

TYPE OF BORING: Solid flight auger (TC) to 4.0m, NMLC core to 10.83m.

WATER OBSERVATIONS: Groundwater seepage observed at 4.0m.

REMARKS: *BD23072019-1: Duplicate taken at 0.9-1.0m.

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U_x	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	▷	Water seep	S	Standard penetration test
E	Environmental sample	▼	Water level	V	Shear vane (kPa)

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BOREHOLE LOG

CLIENT: Trinity Grammar School
PROJECT: Proposed Redevelopment
LOCATION: 113-119 Prospect Road, Summer Hill

SURFACE LEVEL: 45.8 AHD
EASTING: 327180
NORTHING: 6247376
DIP/AZIMUTH: 90°/--

BORE No: BH10
PROJECT No: 86861.00
DATE: 23/7/2019
SHEET 2 OF 2

RL	Depth (m)	Description of Strata	Degree of Weathering (EW HW MW SW FS FR)	Graphic Log	Rock Strength (Ex Low, Very Low, Low, Medium, High, Very High, Ex High)	Water	Fracture Spacing (m) (0.01, 0.05, 0.10, 0.50, 1.00)	Discontinuities (B - Bedding J - Joint S - Shear F - Fault)	Sampling & In Situ Testing: Type	Core Rec. %	RQD %	Test Results & Comments
35		SHALE: dark grey, medium strength, fresh, unbroken, with 5-10% fine grained pale grey sandstone laminations. *(continued)*						10.27m: B 0, ro, cly 5mm	C	100	100	PL(A) = 0.6 PL(A) = 5
	10.83	10.6-10.7m: very high strength siderite band.										
		Bore discontinued at 10.83m										
34	11											
	12											
33	13											
32	14											
31	15											
30	16											
29	17											
28	18											
27	19											
26												

RIG: Hanjin DB8 **DRILLER:** BG Drilling **LOGGED:** LS/SI **CASING:** HW to 4.0m

TYPE OF BORING: Solid flight auger (TC) to 4.0m, NMLC core to 10.83m.

WATER OBSERVATIONS: Groundwater seepage observed at 4.0m.

REMARKS: *BD23072019-1: Duplicate taken at 0.9-1.0m.

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U_x	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	▷	Water seep	S	Standard penetration test
E	Environmental sample	▼	Water level	V	Shear vane (kPa)

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BOREHOLE LOG

CLIENT: Trinity Grammar School
PROJECT: Proposed Redevelopment
LOCATION: 113-119 Prospect Road, Summer Hill

SURFACE LEVEL: 45.6 AHD
EASTING: 327177
NORTHING: 6247351
DIP/AZIMUTH: 90°/--

BORE No: BH11
PROJECT No: 86861.00
DATE: 23/7/2019
SHEET 1 OF 2

RL	Depth (m)	Description of Strata	Degree of Weathering	Graphic Log	Rock Strength	Water	Fracture Spacing (m)	Discontinuities (B - Bedding J - Joint S - Shear F - Fault)	Sampling & In Situ Testing: Type	Core Rec. %	RQD %	Test Results & Comments
45	0.3	FILL/SAND: medium to coarse, dark grey-brown, with silt, trace rootlets in top 0.1m, moist, fill.							A/E			
		FILL/Silty CLAY: medium plasticity, brown mottled pale grey, with fine to medium subangular shale and ironstone gravel, w>PL, damp, apparently poorly compacted, fill.							A/E			
	1								A/E			
									S			3,3,3 N = 6
44									A/E			
	2	2.0m: moist to wet							A/E			
	2.5	Silty CLAY CI-CH: medium to high plasticity, grey mottled red brown and brown, with fine subangular ironstone gravel, w>PL, firm, residual soil.							A/E			
43									S			2,3,3 N = 6
	3	3.1m: pale grey mottled red brown, very stiff.							A			
42									A			
	4								S			8,13,17 N = 30
41												
	5	5.0m: pale grey, w<PL, very stiff to hard, with iron indurated bands, grading into weathered shale.										
40									S			8,14,18 N = 32
	6											
39												
	7								S			20,25/100 refusal
	7.5	SHALE: pale grey-brown, very low strength.										
38												
	8											
37	8.6	SHALE: grey to dark grey with orange-brown iron-staining, low and low to medium strength, slightly weathered, fractured, with 5-10% fine grained pale grey sandstone laminations.						8.5-8.59m: Cs 90mm 8.63m: J 50°, st, ro, fe/cly 4mm	S			9,25,10/50 refusal PL(A) = 0.3
	9								C	100	84	
36								9.37-9.42m: Ds 10mm 9.48m: J 25°, pl, ti, fe				PL(A) = 0.5
	9.85							9.72-9.85m: J 80-85°, un, ro, cly 1mm/ fe				

RIG: Hanjin DB8 **DRILLER:** BG Drilling **LOGGED:** LS/SI **CASING:** HW to 8.5m

TYPE OF BORING: Hand auger to 0.5m, solid flight auger (TC) to 8.5m, NMLC coring to 11.28m.

WATER OBSERVATIONS: Possible pearched water at 2.0-3.1m.

REMARKS:

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U_x	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	▷	Water seep	S	Standard penetration test
E	Environmental sample	▼	Water level	V	Shear vane (kPa)

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Geotechnics / Environment / Groundwater

BOREHOLE LOG

CLIENT: Trinity Grammar School
PROJECT: Proposed Redevelopment
LOCATION: 113-119 Prospect Road, Summer Hill

SURFACE LEVEL: 45.6 AHD
EASTING: 327177
NORTHING: 6247351
DIP/AZIMUTH: 90°/--

BORE No: BH11
PROJECT No: 86861.00
DATE: 23/7/2019
SHEET 2 OF 2

RL	Depth (m)	Description of Strata	Degree of Weathering (EW HW MW SW FS FR)	Graphic Log	Rock Strength (Ex Low, Very Low, Low, Medium, High, Very High, Ex High)	Water	Fracture Spacing (m) (0.01, 0.05, 0.10, 0.50, 1.00)	Discontinuities (B - Bedding J - Joint S - Shear F - Fault)	Sampling & In Situ Testing: Type	Core Rec. %	RQD %	Test Results & Comments
35	11	SHALE: dark grey, medium strength, fresh, slightly fractured, with 5% fine grained pale grey sandstone laminations. *(continued)*						9.81-9.86m: Ds 20mm 10.05m: J 50°, pl, ro, cly vn 10.14m: J 45°, st, ro, cly 1mm 10.17-10.23m: B(x2) 0°, pl, ro, cly 2mm	C	100	84	PL(A) = 0.6 PL(A) = 0.8
34	11.28	Bore discontinued at 11.28m										
33	12											
32	13											
31	14											
30	15											
29	16											
28	17											
27	18											
26	19											

RIG: Hanjin DB8 **DRILLER:** BG Drilling **LOGGED:** LS/SI **CASING:** HW to 8.5m

TYPE OF BORING: Hand auger to 0.5m, solid flight auger (TC) to 8.5m, NMLC coring to 11.28m.

WATER OBSERVATIONS: Possible pearched water at 2.0-3.1m.

REMARKS:

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U_x	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	▷	Water seep	S	Standard penetration test
E	Environmental sample	▼	Water level	V	Shear vane (kPa)

Douglas Partners
Geotechnics / Environment / Groundwater

BOREHOLE LOG

CLIENT: Trinity Grammar School
PROJECT: Proposed Redevelopment
LOCATION: 113-119 Prospect Road, Summer Hill

SURFACE LEVEL: 45.2 AHD
EASTING: 327175
NORTHING: 6247299
DIP/AZIMUTH: 90°/--

BORE No: BH12
PROJECT No: 86861.00
DATE: 18/7/2019
SHEET 1 OF 2

RL	Depth (m)	Description of Strata	Degree of Weathering	Graphic Log	Rock Strength	Water	Fracture Spacing (m)	Discontinuities	Sampling & In Situ Testing: Type	Core Rec. %	RQD %	Test Results & Comments
			EW HW MW SW FS FR		Ex Low / Very Low / Low / Medium / High / Very High / Ex High		0.01 / 0.05 / 0.10 / 0.50 / 1.00	B - Bedding J - Joint S - Shear F - Fault				
45	0.4	FILL/SAND: medium to coarse grained, brown, with silt, moist, apparently poorly compacted, fill.										
		FILL/Silty CLAY: medium plasticity, brown mottled pale grey and red-brown, with fine subangular shale gravel, w<PL, apparently poorly compacted, fill.							S			4,2,3 N = 5
44	1								A/E			
		1.8m: gravelly clay.										
43	2								A/E			
		2.4m: with some medium subangular ironstone gravel.							S			2,2,2 N = 4
42	3					▽			A/E			
	3.3	FILL/Silty CLAY: medium plasticity, grey-brown, with fine subangular shale gravel, w>PL, apparently poorly compacted, fill (possibly natural).							A/E			
41	4								A/E			
	4.3	Silty CLAY CI-CH: medium to high plasticity, grey-brown mottled red brown trace fine subangular ironstone gravel, w>PL firm to stiff.							S			3,3,4 N = 7
		5.0m: red brown mottled pale grey, very stiff.							A			
40	5								A			
									A			
									S			5,5,14 N = 19
39	6											
38	7								S			19,20 refusal
	7.0	7.0m; pale grey with orange brown iron indurated bands, very stiff to hard.						7m: CORE LOSS: 2000mm				
37	8								C	33	0	
36	9											
	9.0											PL(A) = 0.5
	10.0											

RIG: Hanjin DB8 **DRILLER:** Rockwell Drilling **LOGGED:** LS/SI **CASING:** HW to 7.0m

TYPE OF BORING: Solid flight auger (TC) to 7.0m, NMLC core to 13.4m.

WATER OBSERVATIONS: Groundwater seepage observed at 3.3m.

REMARKS:

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U_x	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	▷	Water seep	S	Standard penetration test
E	Environmental sample	▽	Water level	V	Shear vane (kPa)

Douglas Partners
Geotechnics / Environment / Groundwater

BOREHOLE LOG

CLIENT: Trinity Grammar School
PROJECT: Proposed Redevelopment
LOCATION: 113-119 Prospect Road, Summer Hill

SURFACE LEVEL: 45.2 AHD
EASTING: 327175
NORTHING: 6247299
DIP/AZIMUTH: 90°/--

BORE No: BH12
PROJECT No: 86861.00
DATE: 18/7/2019
SHEET 2 OF 2

RL	Depth (m)	Description of Strata	Degree of Weathering	Graphic Log	Rock Strength	Water	Fracture Spacing (m)	Discontinuities (B - Bedding J - Joint S - Shear F - Fault)	Sampling & In Situ Testing: Type	Core Rec. %	RQD %	Test Results & Comments
35		SHALE: dark grey, medium and high strength, moderately to slightly weathered, slightly fractured, with 5% fine grained pale grey sandstone laminations.										PL(A) = 0.4
		10.8-10.9m: very high strength siderite band.						10.24m: J 45°, pl, ro, cly 1mm 10.51m: J 45°, ro, cly 2mm	C	100	98	PL(A) = 7.1
34	11							10.89-10.9m: B(x2) 0° pl, ro, cly 1mm				
												PL(A) = 1
33	12								C	100	100	PL(A) = 0.5
	12.8	LAMINITE: 70% grey siltstone and 30% fine grained pale grey sandstone, high strength, fresh, unbroken.										
32	13							13.1-13.23m: B(x2) 0° pl, ro, cly 1mm				PL(A) = 1.3
	13.4	Bore discontinued at 13.4m										
31	14											
30	15											
29	16											
28	17											
27	18											
26	19											

RIG: Hanjin DB8 **DRILLER:** Rockwell Drilling **LOGGED:** LS/SI **CASING:** HW to 7.0m

TYPE OF BORING: Solid flight auger (TC) to 7.0m, NMLC core to 13.4m.

WATER OBSERVATIONS: Groundwater seepage observed at 3.3m.

REMARKS:

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U_x	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	▷	Water seep	S	Standard penetration test
E	Environmental sample	▼	Water level	V	Shear vane (kPa)

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Appendix G

Laboratory Test Results

Table G1: Contaminant Concentrations in Soil

Sample/ Depth (m)	B	T	E	X	F1	F2	+PAH	B.TEQ	B(a)P	+OCP	+OPP	+PCB	Asbestos	As	Cd	Cr	Cu	Pb	Hg	Ni	Zn
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	(Y/N)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
BH1/0.5-0.6	<0.2	<0.5	<1	<3	<25	<50	<0.05	<0.5	<0.05	NIL	NIL	NIL	N	5	<0.4	16	11	19	<0.1	3	17
BH2/0.2-0.3	<0.2	<0.5	<1	<3	<25	<50	2.4	<0.5	0.2	NIL	NIL	NIL	N	7	<0.4	26	47	32	0.1	35	45
BH3/0.4-0.5	<0.2	<0.5	<1	<3	<25	<50	<0.05	<0.5	<0.05	NIL	NIL	NIL	NT	<4	<0.4	16	13	14	<0.1	2	5
BH4/0.4-0.5	<0.2	<0.5	<1	<3	<25	<50	0.2	<0.5	0.09	NIL	NIL	NIL	N	<4	<0.4	11	15	17	<0.1	3	9
BH5/0.9-1.0	<0.2	<0.5	<1	<3	<25	<50	0.98	<0.5	0.1	NIL	NIL	NIL	N	7	<0.4	15	9	17	<0.1	2	9
BH6/0.4-0.5	<0.2	<0.5	<1	<3	<25	<50	2.6	<0.5	0.3	NIL	NIL	NIL	N	5	<0.4	11	9	33	<0.1	3	16
BH7/0.9-1.0	<0.2	<0.5	<1	<3	<25	<50	8.3	1.2	0.86	NIL	NIL	NIL	N	8	<0.4	18	15	21	<0.1	3	21
BH8/0.4-0.5	<0.2	<0.5	<1	<3	<25	<50	0.4	<0.5	0.09	NIL	NIL	NIL	N	8	<0.4	17	10	16	<0.1	2	7
BH9/0.9-1.0	<0.2	<0.5	<1	<3	<25	<50	0.05	<0.5	0.05	NIL	NIL	NIL	N	5	<0.4	11	10	16	<0.1	1	7
BH10/0.9-1.0	<0.2	<0.5	<1	<3	<25	<50	<0.05	<0.5	<0.05	NIL	NIL	NIL	N	5	<0.4	19	7	24	<0.1	3	12
BH11/1.9-2.0	<0.2	<0.5	<1	<3	<25	<50	2.4	<0.5	0.2	NIL	NIL	NIL	N	6	<0.4	7	27	19	<0.1	4	25
BH12/3.4-3.5	<0.2	<0.5	<1	<3	<25	<50	0.5	<0.5	0.08	NIL	NIL	NIL	N	8	<0.4	15	13	18	<0.1	3	11
BD01/151719	<0.2	<0.5	<1	<3	<25	<50	6.4	0.8	0.57	NIL	NIL	NIL	NT	8	<0.4	15	13	22	<0.1	4	25
BD230719-1	<0.2	<0.5	<1	<3	<25	<50	1.5	<0.5	0.2	NIL	NIL	NIL	NT	6	<0.4	21	13	51	<0.1	3	25
Statistical Analysis																					
Average	N/A	N/A	N/A	N/A	N/A	N/A	1.8	N/A	0.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Std. Deviation	N/A	N/A	N/A	N/A	N/A	N/A	2.6	N/A	0.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
95% UCL	N/A	N/A	N/A	N/A	N/A	N/A	4.8	N/A	0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Notes: B = Benzene; T = Toluene; E = Ethylbenzene; X = Xylene; Napth. = Naphthalene; F1 = (C_6 – C_{10}) – BTEX; F2 = (C_{11} – C_{16}) – Naphthalene; +PAH = Positive polycyclic aromatic hydrocarbons; B.TEQ = Carcinogenic PAHs (as B(a)P TEQ); B(a)P = Benzo(a)pyrene
OCP = Organochlorine pesticides; OPP = Organophosphorus pesticides; PCB = Polychlorinated biphenyls; As = Arsenic; Cd = Cadmium; Cr = Chromium; Cu = Copper; Pb = Lead; Hg = Mercury; Ni = Nickel; Zn = Zinc; NIL = below detection limits
NT = not tested; NA = not applicable

Table G2: NEPM Investigation/Screening Levels[1]

Sample/ Depth (m)	B	T	E	X	F1	F2	+PAH	B.TEQ	B(a)P	+OCP	+OPP	+PCB	Asbestos	As	Cd	Cr	Cu	Pb	Hg	Ni	Zn
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	(Y/N)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Health-Based							300	3		Various	Various	1		300	90	300	17000	600	80	1200	30000
Ecological-Based[2]	65	105	125	45	180	120			0.7					100		400	190	1100		170	400

Notes: B = Benzene; T = Toluene; E = Ethylbenzene; X = Xylene; Napth. = Naphthalene; F1 = (C_6 – C_{10}) – BTEX; F2 = (C_{11} – C_{16}) – Naphthalene; +PAH = Positive polycyclic aromatic hydrocarbons; B.TEQ = Carcinogenic PAHs (as B(a)P TEQ); B(a)P = Benzo(a)pyrene
OCP = Organochlorine pesticides; OPP = Organophosphorus pesticides; PCB = Polychlorinated biphenyls; As = Arsenic; Cd = Cadmium; Cr = Chromium; Cu = Copper; Pb = Lead; Hg = Mercury; Ni = Nickel; Zn = Zinc;
[1]Based on National Environment Protect (Assessment of Site Contamination) Measure 1999 (updated 2013) for 'C' sites which include secondary schools and playing fields
[2]Based on assumed clayey soils with pH of 6.0 and CEC of 10 cmol/kg

Table G3: Waste Classification Criteria[1]

Sample/ Depth (m)	B	T	E	X	C_6-C_9	C_{10}-C_{36}	+PAH	B.TEQ	B(a)P	+OCP[2]	+OPP[2]	+PCB	Asbestos	As	Cd	Cr	Cu	Pb	Hg	Ni	Zn
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	(Y/N)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
General Solid Waste																					
CT1	10	288	600	1000	650	10000	200	N/A	0.8	<50	<50	<50	N	100	20	100	N/A	100	4	40	N/A
SCC1	18	518	1080	1800	650	10000	200	N/A	10	<50	<50	<50	N	500	100	1900	N/A	1500	50	1050	N/A
TCLP1 (mg/L)	0.5	14.4	30	50	N/A	N/A	N/A	N/A	0.04	N/A	N/A	N/A	N/A	5	1	5	N/A	5	0.2	2	N/A

Notes: B = Benzene; T = Toluene; E = Ethylbenzene; X = Xylene; C_6 – C_9 TRH; C_{10} – C_{36} TRH; +PAH = Positive polycyclic aromatic hydrocarbons; B.TEQ = Carcinogenic PAHs (as B(a)P TEQ); OCP = Organochlorine pesticides; OPP = Organophosphorus pesticides; PCB = Polychlorinated biphenyls; As = Arsenic; Cd = Cadmium; Cr = Chromium; Cu = Copper; Pb = Lead; Hg = Mercury; Ni = Nickel; Zn = Zinc; N/A = not applicable

[1]Based on Waste Classification Guidelines (NSW EPA, 2014); [2]As part of Scheduled Chemicals

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CERTIFICATE OF ANALYSIS 222749

Client Details

Client	Douglas Partners Pty Ltd
Attention	Peter Oitmaa
Address	96 Hermitage Rd, West Ryde, NSW, 2114

Sample Details

Your Reference	**86861.00, Summer Hill**
Number of Samples	14 Soil
Date samples received	30/07/2019
Date completed instructions received	30/07/2019

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Please refer to the last page of this report for any comments relating to the results.

Report Details

Date results requested by	06/08/2019
Date of Issue	06/08/2019

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Asbestos Approved By
Analysed by Asbestos Approved Identifier: Aida Marner
Authorised by Asbestos Approved Signatory: Lucy Zhu

Results Approved By
Jeremy Faircloth, Operations Manager, Sydney
Loren Bardwell, Senior Chemist
Lucy Zhu, Senior Asbestos Analyst
Priya Samarawickrama, Senior Chemist
Steven Luong, Organics Supervisor

Authorised By

Nancy Zhang, Laboratory Manager

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		222749-1	222749-2	222749-3	222749-4	222749-5
Your Reference	UNITS	BH1	BH2	BH3	BH4	BH5
Depth		0.5-0.6	0.2-0.3	0.4-0.5	0.4-0.5	0.9-1.0
Date Sampled		24/07/2019	24/07/2019	19/07/2019	15/07/2019	15/07/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	31/07/2019	31/07/2019	31/07/2019	31/07/2019	31/07/2019
Date analysed	-	01/08/2019	01/08/2019	01/08/2019	01/08/2019	01/08/2019
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<3	<3	<3	<3	<3
Surrogate aaa-Trifluorotoluene	%	100	105	98	107	110

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		222749-6	222749-7	222749-8	222749-9	222749-10
Your Reference	UNITS	BH6	BH7	BH8	BH9	BH10
Depth		0.4-0.5	0.9-1.0	0.4-0.5	0.9-1.0	0.9-1.0
Date Sampled		18/07/2019	19/07/2019	15/07/2019	15/07/2019	23/07/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	31/07/2019	31/07/2019	31/07/2019	31/07/2019	31/07/2019
Date analysed	-	01/08/2019	01/08/2019	01/08/2019	01/08/2019	01/08/2019
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<3	<3	<3	<3	<3
Surrogate aaa-Trifluorotoluene	%	102	95	94	107	113

vTRH(C6-C10)/BTEXN in Soil					
Our Reference		222749-11	222749-12	222749-13	222749-14
Your Reference	UNITS	BH11	BH12	BD01/151719	BD23072019-1
Depth		1.9-2.0	3.4-3.5	-	-
Date Sampled		23/07/2019	18/07/2019	15/07/2019	23/07/2019
Type of sample		Soil	Soil	Soil	Soil
Date extracted	-	31/07/2019	31/07/2019	31/07/2019	31/07/2019
Date analysed	-	01/08/2019	01/08/2019	01/08/2019	01/08/2019
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1
naphthalene	mg/kg	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<3	<3	<3	<3
Surrogate aaa-Trifluorotoluene	%	103	101	102	99

svTRH (C10-C40) in Soil						
Our Reference		222749-1	222749-2	222749-3	222749-4	222749-5
Your Reference	UNITS	BH1	BH2	BH3	BH4	BH5
Depth		0.5-0.6	0.2-0.3	0.4-0.5	0.4-0.5	0.9-1.0
Date Sampled		24/07/2019	24/07/2019	19/07/2019	15/07/2019	15/07/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	31/07/2019	31/07/2019	31/07/2019	31/07/2019	31/07/2019
Date analysed	-	01/08/2019	01/08/2019	01/08/2019	01/08/2019	01/08/2019
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	75	79	71	73	73

svTRH (C10-C40) in Soil						
Our Reference		222749-6	222749-7	222749-8	222749-9	222749-10
Your Reference	UNITS	BH6	BH7	BH8	BH9	BH10
Depth		0.4-0.5	0.9-1.0	0.4-0.5	0.9-1.0	0.9-1.0
Date Sampled		18/07/2019	19/07/2019	15/07/2019	15/07/2019	23/07/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	31/07/2019	31/07/2019	31/07/2019	31/07/2019	31/07/2019
Date analysed	-	01/08/2019	01/08/2019	01/08/2019	01/08/2019	01/08/2019
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	80	81	71	72	74

svTRH (C10-C40) in Soil					
Our Reference		222749-11	222749-12	222749-13	222749-14
Your Reference	UNITS	BH11	BH12	BD01/151719	BD23072019-1
Depth		1.9-2.0	3.4-3.5	-	-
Date Sampled		23/07/2019	18/07/2019	15/07/2019	23/07/2019
Type of sample		Soil	Soil	Soil	Soil
Date extracted	-	31/07/2019	31/07/2019	31/07/2019	31/07/2019
Date analysed	-	01/08/2019	01/08/2019	01/08/2019	01/08/2019
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50
Surrogate o-Terphenyl	%	82	75	85	78

PAHs in Soil						
Our Reference		222749-1	222749-2	222749-3	222749-4	222749-5
Your Reference	UNITS	BH1	BH2	BH3	BH4	BH5
Depth		0.5-0.6	0.2-0.3	0.4-0.5	0.4-0.5	0.9-1.0
Date Sampled		24/07/2019	24/07/2019	19/07/2019	15/07/2019	15/07/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	31/07/2019	31/07/2019	31/07/2019	31/07/2019	31/07/2019
Date analysed	-	02/08/2019	02/08/2019	02/08/2019	02/08/2019	02/08/2019
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	0.2	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	0.4	<0.1	<0.1	0.2
Pyrene	mg/kg	<0.1	0.5	<0.1	0.1	0.3
Benzo(a)anthracene	mg/kg	<0.1	0.2	<0.1	<0.1	0.1
Chrysene	mg/kg	<0.1	0.2	<0.1	<0.1	0.2
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	0.2	<0.05	0.09	0.1
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	0.2	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	2.4	<0.05	0.2	0.98
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	87	101	96	96	100

PAHs in Soil						
Our Reference		222749-6	222749-7	222749-8	222749-9	222749-10
Your Reference	UNITS	BH6	BH7	BH8	BH9	BH10
Depth		0.4-0.5	0.9-1.0	0.4-0.5	0.9-1.0	0.9-1.0
Date Sampled		18/07/2019	19/07/2019	15/07/2019	15/07/2019	23/07/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	31/07/2019	31/07/2019	31/07/2019	31/07/2019	31/07/2019
Date analysed	-	02/08/2019	02/08/2019	02/08/2019	02/08/2019	02/08/2019
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.2	0.5	<0.1	<0.1	<0.1
Anthracene	mg/kg	0.1	0.4	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.4	1.4	0.1	<0.1	<0.1
Pyrene	mg/kg	0.5	1.5	0.2	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.2	0.8	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.3	0.9	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	0.2	0.8	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	0.3	0.86	0.09	0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	0.4	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	0.2	0.5	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	2.6	8.3	0.4	0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	1.2	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	1.2	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	1.2	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	94	89	94	98	100

PAHs in Soil					
Our Reference		222749-11	222749-12	222749-13	222749-14
Your Reference	UNITS	BH11	BH12	BD01/151719	BD23072019-1
Depth		1.9-2.0	3.4-3.5	-	-
Date Sampled		23/07/2019	18/07/2019	15/07/2019	23/07/2019
Type of sample		Soil	Soil	Soil	Soil
Date extracted	-	31/07/2019	31/07/2019	31/07/2019	31/07/2019
Date analysed	-	02/08/2019	02/08/2019	02/08/2019	02/08/2019
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.2	<0.1	0.4	0.2
Anthracene	mg/kg	<0.1	<0.1	0.2	<0.1
Fluoranthene	mg/kg	0.4	0.1	1.2	0.4
Pyrene	mg/kg	0.5	0.2	1.2	0.4
Benzo(a)anthracene	mg/kg	0.2	<0.1	0.7	0.2
Chrysene	mg/kg	0.3	0.1	0.7	0.2
Benzo(b,j+k)fluoranthene	mg/kg	0.2	<0.2	0.6	<0.2
Benzo(a)pyrene	mg/kg	0.2	0.08	0.57	0.2
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	<0.1	0.3	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	0.2	<0.1	0.4	0.1
Total +ve PAH's	mg/kg	2.4	0.5	6.4	1.5
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	0.8	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	0.8	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	0.8	<0.5
Surrogate p-Terphenyl-d14	%	100	96	97	100

Organochlorine Pesticides in soil						
Our Reference		222749-1	222749-2	222749-3	222749-4	222749-5
Your Reference	UNITS	BH1	BH2	BH3	BH4	BH5
Depth		0.5-0.6	0.2-0.3	0.4-0.5	0.4-0.5	0.9-1.0
Date Sampled		24/07/2019	24/07/2019	19/07/2019	15/07/2019	15/07/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	31/07/2019	31/07/2019	31/07/2019	31/07/2019	31/07/2019
Date analysed	-	02/08/2019	02/08/2019	02/08/2019	02/08/2019	02/08/2019
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve DDT+DDD+DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	78	93	89	90	89

Organochlorine Pesticides in soil						
Our Reference		222749-6	222749-7	222749-8	222749-9	222749-10
Your Reference	UNITS	BH6	BH7	BH8	BH9	BH10
Depth		0.4-0.5	0.9-1.0	0.4-0.5	0.9-1.0	0.9-1.0
Date Sampled		18/07/2019	19/07/2019	15/07/2019	15/07/2019	23/07/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	31/07/2019	31/07/2019	31/07/2019	31/07/2019	31/07/2019
Date analysed	-	02/08/2019	02/08/2019	02/08/2019	02/08/2019	02/08/2019
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve DDT+DDD+DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	88	86	87	84	87

Organochlorine Pesticides in soil					
Our Reference		222749-11	222749-12	222749-13	222749-14
Your Reference	UNITS	BH11	BH12	BD01/151719	BD23072019-1
Depth		1.9-2.0	3.4-3.5	-	-
Date Sampled		23/07/2019	18/07/2019	15/07/2019	23/07/2019
Type of sample		Soil	Soil	Soil	Soil
Date extracted	-	31/07/2019	31/07/2019	31/07/2019	31/07/2019
Date analysed	-	02/08/2019	02/08/2019	02/08/2019	02/08/2019
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1
Total +ve DDT+DDD+DDE	mg/kg	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	84	87	87	83

Organophosphorus Pesticides						
Our Reference		222749-1	222749-2	222749-3	222749-4	222749-5
Your Reference	UNITS	BH1	BH2	BH3	BH4	BH5
Depth		0.5-0.6	0.2-0.3	0.4-0.5	0.4-0.5	0.9-1.0
Date Sampled		24/07/2019	24/07/2019	19/07/2019	15/07/2019	15/07/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	31/07/2019	31/07/2019	31/07/2019	31/07/2019	31/07/2019
Date analysed	-	02/08/2019	02/08/2019	02/08/2019	02/08/2019	02/08/2019
Azinphos-methyl (Guthion)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorvos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Malathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Parathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	78	93	89	90	89

Organophosphorus Pesticides						
Our Reference		222749-6	222749-7	222749-8	222749-9	222749-10
Your Reference	UNITS	BH6	BH7	BH8	BH9	BH10
Depth		0.4-0.5	0.9-1.0	0.4-0.5	0.9-1.0	0.9-1.0
Date Sampled		18/07/2019	19/07/2019	15/07/2019	15/07/2019	23/07/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	31/07/2019	31/07/2019	31/07/2019	31/07/2019	31/07/2019
Date analysed	-	02/08/2019	02/08/2019	02/08/2019	02/08/2019	02/08/2019
Azinphos-methyl (Guthion)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorvos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Malathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Parathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	88	86	87	84	87

Organophosphorus Pesticides					
Our Reference		222749-11	222749-12	222749-13	222749-14
Your Reference	UNITS	BH11	BH12	BD01/151719	BD23072019-1
Depth		1.9-2.0	3.4-3.5	-	-
Date Sampled		23/07/2019	18/07/2019	15/07/2019	23/07/2019
Type of sample		Soil	Soil	Soil	Soil
Date extracted	-	31/07/2019	31/07/2019	31/07/2019	31/07/2019
Date analysed	-	02/08/2019	02/08/2019	02/08/2019	02/08/2019
Azinphos-methyl (Guthion)	mg/kg	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos	mg/kg	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1
Dichlorvos	mg/kg	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1
Malathion	mg/kg	<0.1	<0.1	<0.1	<0.1
Parathion	mg/kg	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	84	87	87	83

PCBs in Soil						
Our Reference		222749-1	222749-2	222749-3	222749-4	222749-5
Your Reference	UNITS	BH1	BH2	BH3	BH4	BH5
Depth		0.5-0.6	0.2-0.3	0.4-0.5	0.4-0.5	0.9-1.0
Date Sampled		24/07/2019	24/07/2019	19/07/2019	15/07/2019	15/07/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	31/07/2019	31/07/2019	31/07/2019	31/07/2019	31/07/2019
Date analysed	-	02/08/2019	02/08/2019	02/08/2019	02/08/2019	02/08/2019
Aroclor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	78	93	89	90	89

PCBs in Soil						
Our Reference		222749-6	222749-7	222749-8	222749-9	222749-10
Your Reference	UNITS	BH6	BH7	BH8	BH9	BH10
Depth		0.4-0.5	0.9-1.0	0.4-0.5	0.9-1.0	0.9-1.0
Date Sampled		18/07/2019	19/07/2019	15/07/2019	15/07/2019	23/07/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	31/07/2019	31/07/2019	31/07/2019	31/07/2019	31/07/2019
Date analysed	-	02/08/2019	02/08/2019	02/08/2019	02/08/2019	02/08/2019
Aroclor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	88	86	87	84	87

PCBs in Soil					
Our Reference		222749-11	222749-12	222749-13	222749-14
Your Reference	UNITS	BH11	BH12	BD01/151719	BD23072019-1
Depth		1.9-2.0	3.4-3.5	-	-
Date Sampled		23/07/2019	18/07/2019	15/07/2019	23/07/2019
Type of sample		Soil	Soil	Soil	Soil
Date extracted	-	31/07/2019	31/07/2019	31/07/2019	31/07/2019
Date analysed	-	02/08/2019	02/08/2019	02/08/2019	02/08/2019
Aroclor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1
Aroclor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	84	87	87	83

Acid Extractable metals in soil						
Our Reference		222749-1	222749-2	222749-3	222749-4	222749-5
Your Reference	UNITS	BH1	BH2	BH3	BH4	BH5
Depth		0.5-0.6	0.2-0.3	0.4-0.5	0.4-0.5	0.9-1.0
Date Sampled		24/07/2019	24/07/2019	19/07/2019	15/07/2019	15/07/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	31/07/2019	31/07/2019	31/07/2019	31/07/2019	31/07/2019
Date analysed	-	31/07/2019	31/07/2019	31/07/2019	31/07/2019	31/07/2019
Arsenic	mg/kg	5	7	<4	<4	7
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	16	26	16	11	15
Copper	mg/kg	11	47	13	15	9
Lead	mg/kg	19	32	14	17	17
Mercury	mg/kg	<0.1	0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	3	35	2	3	2
Zinc	mg/kg	17	45	5	9	9

Acid Extractable metals in soil						
Our Reference		222749-6	222749-7	222749-8	222749-9	222749-10
Your Reference	UNITS	BH6	BH7	BH8	BH9	BH10
Depth		0.4-0.5	0.9-1.0	0.4-0.5	0.9-1.0	0.9-1.0
Date Sampled		18/07/2019	19/07/2019	15/07/2019	15/07/2019	23/07/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	31/07/2019	31/07/2019	31/07/2019	31/07/2019	31/07/2019
Date analysed	-	31/07/2019	31/07/2019	31/07/2019	31/07/2019	31/07/2019
Arsenic	mg/kg	5	8	8	5	5
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	11	18	17	11	19
Copper	mg/kg	9	15	10	10	7
Lead	mg/kg	33	21	16	16	24
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	3	3	2	1	3
Zinc	mg/kg	16	21	7	7	12

Acid Extractable metals in soil					
Our Reference		222749-11	222749-12	222749-13	222749-14
Your Reference	UNITS	BH11	BH12	BD01/151719	BD23072019-1
Depth		1.9-2.0	3.4-3.5	-	-
Date Sampled		23/07/2019	18/07/2019	15/07/2019	23/07/2019
Type of sample		Soil	Soil	Soil	Soil
Date prepared	-	31/07/2019	31/07/2019	31/07/2019	31/07/2019
Date analysed	-	31/07/2019	31/07/2019	31/07/2019	31/07/2019
Arsenic	mg/kg	6	8	8	6
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	7	15	15	21
Copper	mg/kg	27	13	13	13
Lead	mg/kg	19	18	22	51
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	4	3	4	3
Zinc	mg/kg	25	11	25	25

Misc Soil - Inorg						
Our Reference		222749-1	222749-2	222749-3	222749-4	222749-5
Your Reference	UNITS	BH1	BH2	BH3	BH4	BH5
Depth		0.5-0.6	0.2-0.3	0.4-0.5	0.4-0.5	0.9-1.0
Date Sampled		24/07/2019	24/07/2019	19/07/2019	15/07/2019	15/07/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	31/07/2019	31/07/2019	31/07/2019	31/07/2019	31/07/2019
Date analysed	-	31/07/2019	31/07/2019	31/07/2019	31/07/2019	31/07/2019
Total Phenolics (as Phenol)	mg/kg	<5	<5	<5	<5	<5

Misc Soil - Inorg						
Our Reference		222749-6	222749-7	222749-8	222749-9	222749-10
Your Reference	UNITS	BH6	BH7	BH8	BH9	BH10
Depth		0.4-0.5	0.9-1.0	0.4-0.5	0.9-1.0	0.9-1.0
Date Sampled		18/07/2019	19/07/2019	15/07/2019	15/07/2019	23/07/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	31/07/2019	31/07/2019	31/07/2019	31/07/2019	31/07/2019
Date analysed	-	31/07/2019	31/07/2019	31/07/2019	31/07/2019	31/07/2019
Total Phenolics (as Phenol)	mg/kg	<5	<5	<5	<5	<5

Misc Soil - Inorg					
Our Reference		222749-11	222749-12	222749-13	222749-14
Your Reference	UNITS	BH11	BH12	BD01/151719	BD23072019-1
Depth		1.9-2.0	3.4-3.5	-	-
Date Sampled		23/07/2019	18/07/2019	15/07/2019	23/07/2019
Type of sample		Soil	Soil	Soil	Soil
Date prepared	-	31/07/2019	31/07/2019	31/07/2019	31/07/2019
Date analysed	-	31/07/2019	31/07/2019	31/07/2019	31/07/2019
Total Phenolics (as Phenol)	mg/kg	<5	<5	<5	<5

Moisture						
Our Reference		222749-1	222749-2	222749-3	222749-4	222749-5
Your Reference	UNITS	BH1	BH2	BH3	BH4	BH5
Depth		0.5-0.6	0.2-0.3	0.4-0.5	0.4-0.5	0.9-1.0
Date Sampled		24/07/2019	24/07/2019	19/07/2019	15/07/2019	15/07/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	31/07/2019	31/07/2019	31/07/2019	31/07/2019	31/07/2019
Date analysed	-	01/08/2019	01/08/2019	01/08/2019	01/08/2019	01/08/2019
Moisture	%	20	12	22	18	19

Moisture						
Our Reference		222749-6	222749-7	222749-8	222749-9	222749-10
Your Reference	UNITS	BH6	BH7	BH8	BH9	BH10
Depth		0.4-0.5	0.9-1.0	0.4-0.5	0.9-1.0	0.9-1.0
Date Sampled		18/07/2019	19/07/2019	15/07/2019	15/07/2019	23/07/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	31/07/2019	31/07/2019	31/07/2019	31/07/2019	31/07/2019
Date analysed	-	01/08/2019	01/08/2019	01/08/2019	01/08/2019	01/08/2019
Moisture	%	15	19	21	21	23

Moisture					
Our Reference		222749-11	222749-12	222749-13	222749-14
Your Reference	UNITS	BH11	BH12	BD01/151719	BD23072019-1
Depth		1.9-2.0	3.4-3.5	-	-
Date Sampled		23/07/2019	18/07/2019	15/07/2019	23/07/2019
Type of sample		Soil	Soil	Soil	Soil
Date prepared	-	31/07/2019	31/07/2019	31/07/2019	31/07/2019
Date analysed	-	01/08/2019	01/08/2019	01/08/2019	01/08/2019
Moisture	%	12	23	21	20

Asbestos ID - soils NEPM						
Our Reference		222749-1	222749-5	222749-6	222749-7	222749-8
Your Reference	UNITS	BH1	BH5	BH6	BH7	BH8
Depth		0.5-0.6	0.9-1.0	0.4-0.5	0.9-1.0	0.4-0.5
Date Sampled		24/07/2019	15/07/2019	18/07/2019	19/07/2019	15/07/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	31/07/2019	31/07/2019	31/07/2019	31/07/2019	31/07/2019
Sample mass tested	g	419.62	506.35	457.35	543.88	424.52
Sample Description	-	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
Total Asbestos[#1]	g/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected
ACM >7mm Estimation*	g	–	–	–	–	–
FA and AF Estimation*	g	–	–	–	–	–
FA and AF Estimation*#2	%(w/w)	<0.001	<0.001	<0.001	<0.001	<0.001

Asbestos ID - soils NEPM			
Our Reference		222749-9	222749-11
Your Reference	UNITS	BH9	BH11
Depth		0.9-1.0	1.9-2.0
Date Sampled		15/07/2019	23/07/2019
Type of sample		Soil	Soil
Date analysed	-	31/07/2019	31/07/2019
Sample mass tested	g	356.58	500.59
Sample Description	-	Brown clayey soil & rocks	Brown clayey soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected
Total Asbestos#1	g/kg	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected	No visible asbestos detected
ACM >7mm Estimation*	g	–	–
FA and AF Estimation*	g	–	–
FA and AF Estimation*#2	%(w/w)	<0.001	<0.001

Asbestos ID - soils					
Our Reference		222749-2	222749-4	222749-10	222749-12
Your Reference	UNITS	BH2	BH4	BH10	BH12
Depth		0.2-0.3	0.4-0.5	0.9-1.0	3.4-3.5
Date Sampled		24/07/2019	15/07/2019	23/07/2019	18/07/2019
Type of sample		Soil	Soil	Soil	Soil
Date analysed	-	31/07/2019	31/07/2019	31/07/2019	31/07/2019
Sample mass tested	g	Approx. 55g	Approx. 35g	Approx. 50g	Approx. 40g
Sample Description	-	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected

Method ID	Methodology Summary
ASB-001	Asbestos ID - Qualitative identification of asbestos in bulk samples using Polarised Light Microscopy and Dispersion Staining Techniques including Synthetic Mineral Fibre and Organic Fibre as per Australian Standard 4964-2004.
ASB-001	Asbestos ID - Identification of asbestos in soil samples using Polarised Light Microscopy and Dispersion Staining Techniques. Minimum 500mL soil sample was analysed as recommended by "National Environment Protection (Assessment of site contamination) Measure, Schedule B1 and "The Guidelines from the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009" with a reporting limit of 0.1g/kg (0.01% w/w) as per Australian Standard AS4964-2004. Results reported denoted with * are outside our scope of NATA accreditation. **NOTE** #1 Total Asbestos g/kg was analysed and reported as per Australian Standard AS4964 (This is the sum of ACM >7mm, <7mm and FA/AF) **NOTE** #2 The screening level of 0.001% w/w asbestos in soil for FA and AF only applies where the FA and AF are able to be quantified by gravimetric procedures. This screening level is not applicable to free fibres. Estimation = Estimated asbestos weight Results reported with "--" is equivalent to no visible asbestos identified using Polarised Light microscopy and Dispersion Staining Techniques.
Inorg-008	Moisture content determined by heating at 105+/-5 °C for a minimum of 12 hours.
Inorg-031	Total Phenolics by segmented flow analyser (in line distillation with colourimetric finish). Solids are extracted in a caustic media prior to analysis.
Metals-020	Determination of various metals by ICP-AES.
Metals-021	Determination of Mercury by Cold Vapour AAS.
Org-003	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.

Method ID	Methodology Summary
Org-003	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis. Note, the Total +ve TRH PQL is reflective of the lowest individual PQL and is therefore "Total +ve TRH" is simply a sum of the positive individual TRH fractions (>C10-C40).
Org-005	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC with dual ECD's.
Org-005	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC with dual ECD's. Note, the Total +ve reported DDD+DDE+DDT PQL is reflective of the lowest individual PQL and is therefore simply a sum of the positive individually report DDD+DDE+DDT.
Org-006	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD.
Org-006	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD. Note, the Total +ve PCBs PQL is reflective of the lowest individual PQL and is therefore" Total +ve PCBs" is simply a sum of the positive individual PCBs.
Org-008	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC with dual ECD's.
Org-012	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013. For soil results:- 1. 'EQ PQL'values are assuming all contributing PAHs reported as <PQL are actually at the PQL. This is the most conservative approach and can give false positive TEQs given that PAHs that contribute to the TEQ calculation may not be present. 2. 'EQ zero'values are assuming all contributing PAHs reported as <PQL are zero. This is the least conservative approach and is more susceptible to false negative TEQs when PAHs that contribute to the TEQ calculation are present but below PQL. 3. 'EQ half PQL'values are assuming all contributing PAHs reported as <PQL are half the stipulated PQL. Hence a mid-point between the most and least conservative approaches above. Note, the Total +ve PAHs PQL is reflective of the lowest individual PQL and is therefore "Total +ve PAHs" is simply a sum of the positive individual PAHs.
Org-014	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
Org-016	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.
Org-016	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater. Note, the Total +ve Xylene PQL is reflective of the lowest individual PQL and is therefore "Total +ve Xylenes" is simply a sum of the positive individual Xylenes.

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-4	222749-2
Date extracted	-			31/07/2019	1	31/07/2019	31/07/2019		31/07/2019	31/07/2019
Date analysed	-			01/08/2019	1	01/08/2019	01/08/2019		01/08/2019	01/08/2019
TRH C_6 - C_9	mg/kg	25	Org-016	<25	1	<25	<25	0	93	92
TRH C_6 - C_{10}	mg/kg	25	Org-016	<25	1	<25	<25	0	93	92
Benzene	mg/kg	0.2	Org-016	<0.2	1	<0.2	<0.2	0	81	81
Toluene	mg/kg	0.5	Org-016	<0.5	1	<0.5	<0.5	0	104	103
Ethylbenzene	mg/kg	1	Org-016	<1	1	<1	<1	0	94	93
m+p-xylene	mg/kg	2	Org-016	<2	1	<2	<2	0	94	92
o-Xylene	mg/kg	1	Org-016	<1	1	<1	<1	0	92	92
naphthalene	mg/kg	1	Org-014	<1	1	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-016	107	1	100	100	0	121	116

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	11	31/07/2019	31/07/2019		[NT]	[NT]
Date analysed	-			[NT]	11	01/08/2019	01/08/2019		[NT]	[NT]
TRH C_6 - C_9	mg/kg	25	Org-016	[NT]	11	<25	<25	0	[NT]	[NT]
TRH C_6 - C_{10}	mg/kg	25	Org-016	[NT]	11	<25	<25	0	[NT]	[NT]
Benzene	mg/kg	0.2	Org-016	[NT]	11	<0.2	<0.2	0	[NT]	[NT]
Toluene	mg/kg	0.5	Org-016	[NT]	11	<0.5	<0.5	0	[NT]	[NT]
Ethylbenzene	mg/kg	1	Org-016	[NT]	11	<1	<1	0	[NT]	[NT]
m+p-xylene	mg/kg	2	Org-016	[NT]	11	<2	<2	0	[NT]	[NT]
o-Xylene	mg/kg	1	Org-016	[NT]	11	<1	<1	0	[NT]	[NT]
naphthalene	mg/kg	1	Org-014	[NT]	11	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-016	[NT]	11	103	104	1	[NT]	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-4	222749-2
Date extracted	-			31/07/2019	1	31/07/2019	31/07/2019		31/07/2019	31/07/2019
Date analysed	-			01/08/2019	1	01/08/2019	01/08/2019		01/08/2019	01/08/2019
TRH C_{10} - C_{14}	mg/kg	50	Org-003	<50	1	<50	<50	0	112	79
TRH C_{15} - C_{28}	mg/kg	100	Org-003	<100	1	<100	<100	0	101	83
TRH C_{29} - C_{36}	mg/kg	100	Org-003	<100	1	<100	<100	0	100	96
TRH >C_{10} -C_{16}	mg/kg	50	Org-003	<50	1	<50	<50	0	112	79
TRH >C_{16} -C_{34}	mg/kg	100	Org-003	<100	1	<100	<100	0	101	83
TRH >C_{34} -C_{40}	mg/kg	100	Org-003	<100	1	<100	<100	0	100	96
Surrogate o-Terphenyl	%		Org-003	75	1	75	74	1	127	92

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	11	31/07/2019	31/07/2019		[NT]	[NT]
Date analysed	-			[NT]	11	01/08/2019	01/08/2019		[NT]	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-003	[NT]	11	<50	<50	0	[NT]	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-003	[NT]	11	<100	<100	0	[NT]	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-003	[NT]	11	<100	<100	0	[NT]	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-003	[NT]	11	<50	<50	0	[NT]	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-003	[NT]	11	<100	<100	0	[NT]	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-003	[NT]	11	<100	<100	0	[NT]	[NT]
Surrogate o-Terphenyl	%		Org-003	[NT]	11	82	74	10	[NT]	[NT]

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-4	222749-2
Date extracted	-			31/07/2019	1	31/07/2019	31/07/2019		31/07/2019	31/07/2019
Date analysed	-			02/08/2019	1	02/08/2019	02/08/2019		02/08/2019	02/08/2019
Naphthalene	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	120	112
Acenaphthylene	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Fluorene	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	124	115
Phenanthrene	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	124	132
Anthracene	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	94	125
Pyrene	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	96	#
Benzo(a)anthracene	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	124	#
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-012	<0.2	1	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-012	<0.05	1	<0.05	<0.05	0	106	#
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-012	100	1	87	99	13	91	85

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	11	31/07/2019	31/07/2019		[NT]	[NT]
Date analysed	-			[NT]	11	02/08/2019	02/08/2019		[NT]	[NT]
Naphthalene	mg/kg	0.1	Org-012	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Acenaphthylene	mg/kg	0.1	Org-012	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-012	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Fluorene	mg/kg	0.1	Org-012	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Phenanthrene	mg/kg	0.1	Org-012	[NT]	11	0.2	0.3	40	[NT]	[NT]
Anthracene	mg/kg	0.1	Org-012	[NT]	11	<0.1	0.2	67	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-012	[NT]	11	0.4	0.5	22	[NT]	[NT]
Pyrene	mg/kg	0.1	Org-012	[NT]	11	0.5	0.5	0	[NT]	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-012	[NT]	11	0.2	0.3	40	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-012	[NT]	11	0.3	0.4	29	[NT]	[NT]
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-012	[NT]	11	0.2	0.3	40	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-012	[NT]	11	0.2	0.3	40	[NT]	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-012	[NT]	11	0.1	0.2	67	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-012	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-012	[NT]	11	0.2	0.2	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-012	[NT]	11	100	96	4	[NT]	[NT]

QUALITY CONTROL: Organochlorine Pesticides in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-4	222749-2
Date extracted	-			31/07/2019	1	31/07/2019	31/07/2019		31/07/2019	31/07/2019
Date analysed	-			02/08/2019	1	02/08/2019	02/08/2019		02/08/2019	02/08/2019
HCB	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
alpha-BHC	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0	106	96
gamma-BHC	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0	104	87
Heptachlor	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0	98	82
delta-BHC	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0	116	74
Heptachlor Epoxide	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0	100	79
gamma-Chlordane	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0	118	103
Dieldrin	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0	126	117
Endrin	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0	100	101
pp-DDD	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0	100	96
Endosulfan II	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Endrin Aldehyde	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0	110	75
Methoxychlor	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-005	96	1	78	85	9	91	86

QUALITY CONTROL: Organochlorine Pesticides in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	11	31/07/2019	31/07/2019		[NT]	[NT]
Date analysed	-			[NT]	11	02/08/2019	02/08/2019		[NT]	[NT]
HCB	mg/kg	0.1	Org-005	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
alpha-BHC	mg/kg	0.1	Org-005	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
gamma-BHC	mg/kg	0.1	Org-005	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-005	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-005	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
delta-BHC	mg/kg	0.1	Org-005	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-005	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Heptachlor Epoxide	mg/kg	0.1	Org-005	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
gamma-Chlordane	mg/kg	0.1	Org-005	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-005	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-005	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-005	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Dieldrin	mg/kg	0.1	Org-005	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Endrin	mg/kg	0.1	Org-005	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-005	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Endosulfan II	mg/kg	0.1	Org-005	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-005	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Endrin Aldehyde	mg/kg	0.1	Org-005	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-005	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Methoxychlor	mg/kg	0.1	Org-005	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-005	[NT]	11	84	84	0	[NT]	[NT]

QUALITY CONTROL: Organophosphorus Pesticides						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-4	222749-2
Date extracted	-			31/07/2019	1	31/07/2019	31/07/2019		31/07/2019	31/07/2019
Date analysed	-			02/08/2019	1	02/08/2019	02/08/2019		02/08/2019	02/08/2019
Azinphos-methyl (Guthion)	mg/kg	0.1	Org-008	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Bromophos-ethyl	mg/kg	0.1	Org-008	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Chlorpyriphos	mg/kg	0.1	Org-008	<0.1	1	<0.1	<0.1	0	94	120
Chlorpyriphos-methyl	mg/kg	0.1	Org-008	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Diazinon	mg/kg	0.1	Org-008	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Dichlorvos	mg/kg	0.1	Org-008	<0.1	1	<0.1	<0.1	0	76	116
Dimethoate	mg/kg	0.1	Org-008	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Ethion	mg/kg	0.1	Org-008	<0.1	1	<0.1	<0.1	0	92	82
Fenitrothion	mg/kg	0.1	Org-008	<0.1	1	<0.1	<0.1	0	76	67
Malathion	mg/kg	0.1	Org-008	<0.1	1	<0.1	<0.1	0	128	106
Parathion	mg/kg	0.1	Org-008	<0.1	1	<0.1	<0.1	0	104	94
Ronnel	mg/kg	0.1	Org-008	<0.1	1	<0.1	<0.1	0	108	86
Surrogate TCMX	%		Org-008	96	1	78	85	9	91	86

QUALITY CONTROL: Organophosphorus Pesticides						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	11	31/07/2019	31/07/2019		[NT]	[NT]
Date analysed	-			[NT]	11	02/08/2019	02/08/2019		[NT]	[NT]
Azinphos-methyl (Guthion)	mg/kg	0.1	Org-008	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Bromophos-ethyl	mg/kg	0.1	Org-008	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Chlorpyriphos	mg/kg	0.1	Org-008	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Chlorpyriphos-methyl	mg/kg	0.1	Org-008	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Diazinon	mg/kg	0.1	Org-008	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Dichlorvos	mg/kg	0.1	Org-008	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Dimethoate	mg/kg	0.1	Org-008	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Ethion	mg/kg	0.1	Org-008	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Fenitrothion	mg/kg	0.1	Org-008	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Malathion	mg/kg	0.1	Org-008	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Parathion	mg/kg	0.1	Org-008	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Ronnel	mg/kg	0.1	Org-008	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-008	[NT]	11	84	84	0	[NT]	[NT]

QUALITY CONTROL: PCBs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-4	222749-2
Date extracted	-			31/07/2019	1	31/07/2019	31/07/2019		31/07/2019	31/07/2019
Date analysed	-			02/08/2019	1	02/08/2019	02/08/2019		02/08/2019	02/08/2019
Aroclor 1016	mg/kg	0.1	Org-006	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-006	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-006	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-006	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-006	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-006	<0.1	1	<0.1	<0.1	0	96	86
Aroclor 1260	mg/kg	0.1	Org-006	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-006	96	1	78	85	9	91	86

QUALITY CONTROL: PCBs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	11	31/07/2019	31/07/2019		[NT]	[NT]
Date analysed	-			[NT]	11	02/08/2019	02/08/2019		[NT]	[NT]
Aroclor 1016	mg/kg	0.1	Org-006	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-006	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-006	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-006	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-006	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-006	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1260	mg/kg	0.1	Org-006	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-006	[NT]	11	84	84	0	[NT]	[NT]

QUALITY CONTROL: Acid Extractable metals in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-4	222749-2
Date prepared	-			31/07/2019	1	31/07/2019	31/07/2019		31/07/2019	31/07/2019
Date analysed	-			31/07/2019	1	31/07/2019	31/07/2019		31/07/2019	31/07/2019
Arsenic	mg/kg	4	Metals-020	<4	1	5	5	0	105	82
Cadmium	mg/kg	0.4	Metals-020	<0.4	1	<0.4	<0.4	0	104	81
Chromium	mg/kg	1	Metals-020	<1	1	16	14	13	105	76
Copper	mg/kg	1	Metals-020	<1	1	11	17	43	102	77
Lead	mg/kg	1	Metals-020	<1	1	19	16	17	104	#
Mercury	mg/kg	0.1	Metals-021	<0.1	1	<0.1	<0.1	0	92	94
Nickel	mg/kg	1	Metals-020	<1	1	3	3	0	101	83
Zinc	mg/kg	1	Metals-020	<1	1	17	16	6	104	75

QUALITY CONTROL: Acid Extractable metals in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	11	31/07/2019	31/07/2019		[NT]	[NT]
Date analysed	-			[NT]	11	31/07/2019	31/07/2019		[NT]	[NT]
Arsenic	mg/kg	4	Metals-020	[NT]	11	6	6	0	[NT]	[NT]
Cadmium	mg/kg	0.4	Metals-020	[NT]	11	<0.4	<0.4	0	[NT]	[NT]
Chromium	mg/kg	1	Metals-020	[NT]	11	7	7	0	[NT]	[NT]
Copper	mg/kg	1	Metals-020	[NT]	11	27	25	8	[NT]	[NT]
Lead	mg/kg	1	Metals-020	[NT]	11	19	20	5	[NT]	[NT]
Mercury	mg/kg	0.1	Metals-021	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Nickel	mg/kg	1	Metals-020	[NT]	11	4	5	22	[NT]	[NT]
Zinc	mg/kg	1	Metals-020	[NT]	11	25	29	15	[NT]	[NT]

QUALITY CONTROL: Misc Soil - Inorg						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	222749-2
Date prepared	-			31/07/2019	1	31/07/2019	31/07/2019		31/07/2019	31/07/2019
Date analysed	-			31/07/2019	1	31/07/2019	31/07/2019		31/07/2019	31/07/2019
Total Phenolics (as Phenol)	mg/kg	5	Inorg-031	<5	1	<5	<5	0	102	104

QUALITY CONTROL: Misc Soil - Inorg						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	11	31/07/2019	31/07/2019		[NT]	[NT]
Date analysed	-			[NT]	11	31/07/2019	31/07/2019		[NT]	[NT]
Total Phenolics (as Phenol)	mg/kg	5	Inorg-031	[NT]	11	<5	<5	0	[NT]	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Report Comments

Asbestos-ID in soil: NEPM
This report is consistent with the reporting recommendations in the National Environment Protection (Assessment of Site Contamination) Measure, Schedule B1, May 2013. This is reported outside our scope of NATA accreditation.

Note: All samples analysed as received. However, samples 222749-1, 6, 8 & 9 are below the minimum 500mL sample volume as per National Environment Protection (Assessment of Site Contamination) Measure, Schedule B1, May 2013.

8 metals in soil - # Percent recovery is not possible to report due to the inhomogeneous nature of the element/s in the sample/s. However an acceptable recovery was obtained for the LCS.

PAHs in Soil - # Percent recovery for the matrix spike is not possible to report as the high concentration of analytes in sample 222749-2 have caused interference.

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customerservice@envirolab.com.au
www.envirolab.com.au

SAMPLE RECEIPT ADVICE

Client Details

Client	Douglas Partners Pty Ltd
Attention	Peter Oitmaa

Sample Login Details

Your reference	86861.00, Summer Hill
Envirolab Reference	222749
Date Sample Received	30/07/2019
Date Instructions Received	30/07/2019
Date Results Expected to be Reported	06/08/2019

Sample Condition

Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	14 Soil
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	15.7
Cooling Method	Ice Pack
Sampling Date Provided	YES

Comments

Nil

Please direct any queries to:

Aileen Hie	Jacinta Hurst
Phone: 02 9910 6200	**Phone: 02 9910 6200**
Fax: 02 9910 6201	**Fax: 02 9910 6201**
Email: ahie@envirolab.com.au	**Email: jhurst@envirolab.com.au**

Analysis Underway, details on the following page:

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
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Sample ID	vTRH(C6-C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	PAHs in Soil	Organochlorine Pesticidesin soil	Organophosphorus Pesticides	PCBsin Soil	Acid Extractable metalsin soil	Misc Soil - Inorg	Asbestos ID - soils NEPM	Asbestos ID - soils
BH1-0.5-0.6	✓	✓	✓	✓	✓	✓	✓	✓	✓	
BH2-0.2-0.3	✓	✓	✓	✓	✓	✓	✓	✓		✓
BH3-0.4-0.5	✓	✓	✓	✓	✓	✓	✓	✓		
BH4-0.4-0.5	✓	✓	✓	✓	✓	✓	✓	✓		✓
BH5-0.9-1.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	
BH6-0.4-0.5	✓	✓	✓	✓	✓	✓	✓	✓	✓	
BH7-0.9-1.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	
BH8-0.4-0.5	✓	✓	✓	✓	✓	✓	✓	✓	✓	
BH9-0.9-1.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	
BH10-0.9-1.0	✓	✓	✓	✓	✓	✓	✓	✓		✓
BH11-1.9-2.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	
BH12-3.4-3.5	✓	✓	✓	✓	✓	✓	✓	✓		✓
BD01/151719	✓	✓	✓	✓	✓	✓	✓	✓		
BD23072019-1	✓	✓	✓	✓	✓	✓	✓	✓		

The '✓' indicates the testing you have requested. **THIS IS NOT A REPORT OF THE RESULTS.**

Additional Info

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt.
Requests for longer term sample storage must be received in writing.
Please contact the laboratory immediately if observed settled sediment present in water samples is to be included in the extraction and/or analysis (exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS analysis where solids are included by default.
TAT for Micro is dependent on incubation. This varies from 3 to 6 days.

Douglas Partners
Geotechnics · Environment · Groundwater

CHAIN OF CUSTODY

Project Name: SUMMER HILL
Project No: 86861.00 Sampler: AH/LS
Project Mgr: Peter Oitmaa Mob. Phone: 0412 574 518
Email: peter.oitmaa@douglaspartners.com.au
Date Required: Std +/9 Lab Quote No.

To: Envirolab Services
12 Ashley Street, Chatswood NSW 2067
Attn: Tania Notaras
Phone: 02 9910 6200 Fax: 02 9910 6201
Email: tnotaras@envirolabservices.com.au

Sample ID	Sample Depth	Lab ID	Sampling Date	Sample Type S - soil W - water	Container type	Analytes: Combo 8	Analytes: Asbestos 500mL	Notes
BH1	0.5-0.6	1	24/7	S	Jar/bag			
BH2	0.2-0.3	2	"					
BH3	0.4-0.5	3	19/7					
BH4	0.4-0.5	4	15/7					
BH5	0.9-1.0	5	"					
BH6	0.4-0.5	6	18/7					
BH7	0.9-1.0	7	19/7					
BH8	0.4-0.5	8	15/7					
BH9	0.9-1.0	9	"					
BH10	0.9-1.0	10	23/7					
BH11	1.9-2.0	11	"					
BH12	3.4-3.5	12	18/7					

ENVIROLAB Envirolab Servic... 12 Ashley S... Chatswood NSW 20... Ph (02) 9910 620...
Job No: 222749
Date Received: 30/07/2019
Time Received: 14:15
Received by: TO
Temp: Cool/Ambien...
Cooling: Ice/Icepack
Security: Intact/Broken/None

Lab Report No.
Send Results to: Douglas Partners Address: 96 Hermitage Road, West Ryde 2114
Phone: (02) 9809 0666
Fax: (02) 9809 4095

Relinquished by: PMO	Signed: PMO	Date & Time: 29/7 1600	Received By:	Date & Time:	
Relinquished by:	Signed:	Date & Time:	Received By: Tanya Dhiy	Date & Time: 30/07/2019 14:15	

Douglas Partners
Geotechnics : Environment : Groundwater

CHAIN OF CUSTODY

Project Name: SUMMER HILL
Project No: 86861.00 Sampler: AH/LS
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To: Envirolab Services
12 Ashley Street, Chatswood NSW 2067
Attn: Tania Notaras
Phone: 02 9910 6200 Fax: 02 9910 6201
Email: tnotaras@envirolabservices.com.au

	Sample ID	Sample Depth	Lab ID	Sampling Date	Sample Type S - soil W - water	Container type	Analytes: Combo 8	Analytes: Asbestos 500mL	Notes
BD	01 | 150719		13	15|7	S	Bag|Jar			
BD	230720 19-1		14	23|7	1	11			

Lab Report No.
Send Results to: Douglas Partners Address: 96 Hermitage Road, West Ryde 2114
Phone: (02) 9809 0666
Fax: (02) 9809 4095

Relinquished by: PMO	Signed: PMO	Date & Time: 29|7 1600hr	Received By: Tanya Dilly	Date & Time: 30|07|2019
Relinquished by:	Signed:	Date & Time:	Received By:	Date & Time:

222749