

Contract for the sale and purchase of land 2022 edition

TERM	MEANING OF TERM	NSW DAN:
vendor's agent	WITHOUT THE INTERVENTION OF AN AGENT	
co-agent		
vendor		
vendor's solicitor		Phone: Ref:
date for completion	Refer to additional condition 10.1 (clause 15)	
land (address, plan details and title reference)	Lot [] / 40, 46 & 52 Hulls Road & 15 George Road, Leppington NSW 2179 Proposed Lot [] in an unregistered pre-allocated plan numbered DP1292147, to be created by, and forming part of, an unregistered plan of subdivision of proposed Lot 1002 in an unregistered pre-allocated plan numbered DP1308890, to be created by, and forming part of, an unregistered plan of subdivision of Lots 1001, 1002, 1003 & 1004 in DP1307503 Part Folio Identifiers 1001/1307503, 1002/1307503, 1003/1307503 & 1004/1307503	
improvements	<input checked="" type="checkbox"/> VACANT POSSESSION <input type="checkbox"/> subject to existing tenancies <input type="checkbox"/> HOUSE <input type="checkbox"/> garage <input type="checkbox"/> carport <input type="checkbox"/> home unit <input type="checkbox"/> carspace <input type="checkbox"/> storage space <input type="checkbox"/> none <input checked="" type="checkbox"/> other: Vacant land	
attached copies	<input checked="" type="checkbox"/> documents in the List of Documents as marked <input type="checkbox"/> other documents:	

A real estate agent is permitted by legislation to fill up the items in this box in a sale of residential property.				
inclusions	<input type="checkbox"/> air conditioning	<input type="checkbox"/> clothes line	<input type="checkbox"/> fixed floor coverings	<input type="checkbox"/> range hood
	<input type="checkbox"/> blinds	<input type="checkbox"/> curtains	<input type="checkbox"/> insect screens	<input type="checkbox"/> solar panels
	<input type="checkbox"/> built-in wardrobes	<input type="checkbox"/> dishwasher	<input type="checkbox"/> light fittings	<input type="checkbox"/> stove
	<input type="checkbox"/> ceiling fans	<input type="checkbox"/> EV charger	<input type="checkbox"/> pool equipment	<input type="checkbox"/> TV antenna
	<input type="checkbox"/> other:			
exclusions				
purchaser				
purchaser's solicitor				
	Email:	Phone:		
		Ref :		
price	\$			
deposit	\$ _____	(10% of the price, unless otherwise stated)		
balance	\$			
contract date	(if not stated, the date this contract was made)			

Where there is more than one purchaser JOINT TENANTS
 tenants in common in unequal shares, specify: _____

GST AMOUNT (optional) The price includes GST of: \$

buyer's agent

Note: Clause 20.15 provides "Where this contract provides for choices, a choice in BLOCK CAPITALS applies unless a different choice is marked."

SIGNING PAGE

GUARANTOR	PURCHASER
<p>Signed by</p> <p>_____</p> <p>Guarantor</p> <p>Guarantor's name: _____</p> <p>Guarantor's address: _____</p> <p>_____</p> <p>Guarantor</p> <p>Guarantor's name: _____</p> <p>Guarantor's address: _____</p>	<p>Signed by</p> <p>_____</p> <p>Purchaser</p> <p>_____</p> <p>Purchaser</p>
VENDOR (COMPANY)	PURCHASER (COMPANY)
<p>Signed for and on behalf of Hulls Road 52 Pty Ltd ACN 649 334 958 by its attorney under power of attorney registered in New South Wales Book 4823 No 763 and of which the attorney has no notice of revocation, in the presence of:</p> <p>_____</p> <p>Signature of Witness</p> <p>_____</p> <p>Name of Witness</p> <p>_____</p> <p>Address of Witness</p> <p>_____</p> <p>Signature of Attorney</p> <p>_____</p> <p>Name of Attorney</p>	<p>Signed by in accordance with s127(1) of the Corporations Act 2001 by the authorised person(s) whose signature(s) appear(s) below:</p> <p>_____</p> <p>Signature of authorised person</p> <p>_____</p> <p>Name of authorised person</p> <p>_____</p> <p>Office held</p> <p>_____</p> <p>Signature of authorised person</p> <p>_____</p> <p>Name of authorised person</p> <p>_____</p> <p>Office held</p>

Choices

Vendor agrees to accept a **deposit-bond**

NO yes

Nominated Electronic Lodgement Network (ELN) (clause 4):

PEXA

Manual transaction (clause 30)

NO yes

(if yes, vendor must provide further details, including any applicable exception, in the space below):

Tax information (the parties promise this is correct as far as each party is aware)

Land tax is adjustable

NO yes

GST: Taxable supply

NO yes in full yes to an extent

Margin scheme will be used in making the taxable supply

NO yes

This sale is not a taxable supply because (one or more of the following may apply) the sale is:

- not made in the course or furtherance of an enterprise that the vendor carries on section 9-5(b))
- by a vendor who is neither registered nor required to be registered for GST (section 9-5(d))
- GST-free because the sale is the supply of a going concern under section 38-325
- GST-free because the sale is subdivided farm land or farm land supplied for farming under Subdivision 38-O
- input taxed because the sale is of eligible residential premises (sections 40-65, 40-75(2) and 195-1)

Purchaser must make an *GSTRW payment* (GST residential withholding payment)

NO yes (if yes, vendor must provide details)

If the details below are not fully completed at the contract date, the vendor must provide all these details in a separate notice at least 7 days before the date for completion.

GSTRW payment (GST residential withholding payment) – details

Frequently the supplier will be the vendor. However, sometimes further information will be required as to which entity is liable for GST, for example, if the supplier is a partnership, a trust, part of a GST group or a participant in a GST joint venture.

Supplier's name: The Trustee for Crown Trust 55

Supplier's ABN: 14 712 867 253

Supplier's GST branch number (if applicable):

Supplier's business address: Level 5, Suite 502, 95 Pitt Street, Sydney NSW 2000

Supplier's representative:

Supplier's contact phone number: 02 8259 8009

Supplier's proportion of *GSTRW payment*: \$ 100%

If more than one supplier, provide the above details for each supplier.

Amount purchaser must pay – price multiplied by the *GSTRW* rate (residential withholding rate): \$Price x 7%

Amount must be paid: AT COMPLETION at another time (specify):

Is any of the consideration not expressed as an amount in money? NO yes

If "yes", the GST inclusive market value of the non-monetary consideration: \$

Other details (including those required by regulation or the ATO forms):

List of Documents

General	Strata or community title (clause 23 of the contract)
<input checked="" type="checkbox"/> 1 property certificate for the land	<input type="checkbox"/> 33 property certificate for strata common property
<input checked="" type="checkbox"/> 2 plan of the land	<input type="checkbox"/> 34 plan creating strata common property
<input checked="" type="checkbox"/> 3 unregistered plan of the land	<input type="checkbox"/> 35 strata by-laws
<input type="checkbox"/> 4 plan of land to be subdivided	<input type="checkbox"/> 36 strata development contract or statement
<input checked="" type="checkbox"/> 5 document to be lodged with a relevant plan	<input type="checkbox"/> 37 strata management statement
<input checked="" type="checkbox"/> 6 section 10.7(2) planning certificate under Environmental Planning and Assessment Act 1979	<input type="checkbox"/> 38 strata renewal proposal
<input type="checkbox"/> 7 additional information included in that certificate under section 10.7(5)	<input type="checkbox"/> 39 strata renewal plan
<input checked="" type="checkbox"/> 8 sewerage infrastructure location diagram (service location diagram)	<input type="checkbox"/> 40 leasehold strata - lease of lot and common property
<input checked="" type="checkbox"/> 9 sewer lines location diagram (sewerage service diagram)	<input type="checkbox"/> 41 property certificate for neighbourhood property
<input type="checkbox"/> 10 document that created or may have created an easement, profit à prendre, restriction on use or positive covenant disclosed in this contract	<input type="checkbox"/> 42 plan creating neighbourhood property
<input type="checkbox"/> 11 <i>planning agreement</i>	<input type="checkbox"/> 43 neighbourhood development contract
<input type="checkbox"/> 12 section 88G certificate (positive covenant)	<input type="checkbox"/> 44 neighbourhood management statement
<input type="checkbox"/> 13 survey report	<input type="checkbox"/> 45 property certificate for precinct property
<input type="checkbox"/> 14 building information certificate or building certificate given under <i>legislation</i>	<input type="checkbox"/> 46 plan creating precinct property
<input type="checkbox"/> 15 occupation certificate	<input type="checkbox"/> 47 precinct development contract
<input type="checkbox"/> 16 lease (with every relevant memorandum or variation)	<input type="checkbox"/> 48 precinct management statement
<input type="checkbox"/> 17 other document relevant to tenancies	<input type="checkbox"/> 49 property certificate for community property
<input type="checkbox"/> 18 licence benefiting the land	<input type="checkbox"/> 50 plan creating community property
<input type="checkbox"/> 19 old system document	<input type="checkbox"/> 51 community development contract
<input type="checkbox"/> 20 Crown purchase statement of account	<input type="checkbox"/> 52 community management statement
<input type="checkbox"/> 21 building management statement	<input type="checkbox"/> 53 document disclosing a change of by-laws
<input checked="" type="checkbox"/> 22 form of requisitions	<input type="checkbox"/> 54 document disclosing a change in a development or management contract or statement
<input type="checkbox"/> 23 <i>clearance certificate</i>	<input type="checkbox"/> 55 document disclosing a change in boundaries
<input type="checkbox"/> 24 land tax certificate	<input type="checkbox"/> 56 information certificate under Strata Schemes Management Act 2015
Home Building Act 1989	<input type="checkbox"/> 57 information certificate under Community Land Management Act 2021
<input type="checkbox"/> 25 insurance certificate	<input checked="" type="checkbox"/> 58 disclosure statement - off-the-plan contract
<input type="checkbox"/> 26 brochure or warning	<input checked="" type="checkbox"/> 59 other document relevant to off-the-plan contract
<input type="checkbox"/> 27 evidence of alternative indemnity cover	Other
Swimming Pools Act 1992	<input type="checkbox"/> 60
<input type="checkbox"/> 28 certificate of compliance	
<input type="checkbox"/> 29 evidence of registration	
<input type="checkbox"/> 30 relevant occupation certificate	
<input type="checkbox"/> 31 certificate of non-compliance	
<input type="checkbox"/> 32 detailed reasons of non-compliance	

HOLDER OF STRATA OR COMMUNITY SCHEME RECORDS – Name, address, email address and telephone number

IMPORTANT NOTICE TO VENDORS AND PURCHASERS

Before signing this contract you should ensure that you understand your rights and obligations, some of which are not written in this contract but are implied by law.

WARNING—SMOKE ALARMS

The owners of certain types of buildings and strata lots must have smoke alarms, or in certain cases heat alarms, installed in the building or lot in accordance with regulations under the *Environmental Planning and Assessment Act 1979*. It is an offence not to comply. It is also an offence to remove or interfere with a smoke alarm or heat alarm. Penalties apply.

WARNING—LOOSE-FILL ASBESTOS INSULATION

Before purchasing land that includes residential premises, within the meaning of the *Home Building Act 1989*, Part 8, Division 1A, built before 1985, a purchaser is strongly advised to consider the possibility that the premises may contain loose-fill asbestos insulation, within the meaning of the *Home Building Act 1989*, Part 8, Division 1A. In particular, a purchaser should—

- (a) search the Register required to be maintained under the *Home Building Act 1989*, Part 8, Division 1A, and
- (b) ask the relevant local council whether it holds records showing that the residential premises contain loose-fill asbestos insulation.

For further information about loose-fill asbestos insulation, including areas in which residential premises have been identified as containing loose-fill asbestos insulation, contact NSW Fair Trading.

Cooling off period (purchaser's rights)

- 1** This is the statement required by the *Conveyancing Act 1919*, section 66X. This statement applies to a contract for the sale of residential property.
- 2** **EXCEPT** in the circumstances listed in paragraph 3, the purchaser may rescind the contract before 5pm on—
 - (a) for an off the plan contract—the tenth business day after the day on which the contract was made, or
 - (b) in any other case—the fifth business day after the day on which the contract was made.
- 3** There is **NO COOLING OFF PERIOD**—
 - (a) if, at or before the time the contract is made, the purchaser gives to the vendor, or the vendor's solicitor or agent, a certificate that complies with the Act, section 66W, or
 - (b) if the property is sold by public auction, or
 - (c) if the contract is made on the same day as the property was offered for sale by public auction but passed in, or
 - (d) if the contract is made in consequence of the exercise of an option to purchase the property, other than an option that is void under the Act, section 66ZG.
- 4** A purchaser exercising the right to cool off by rescinding the contract forfeits 0.25% of the purchase price of the property to the vendor.
- 5** The vendor is entitled to recover the forfeited amount from an amount paid by the purchaser as a deposit under the contract. The purchaser is entitled to a refund of any balance.

DISPUTES

If you get into a dispute with the other party, the Law Society and Real Estate Institute encourage you to use informal procedures such as negotiation, independent expert appraisal, the Law Society Conveyancing Dispute Resolution Scheme or mediation (for example mediation under the Law Society Mediation Program).

AUCTIONS

Regulations made under the Property and Stock Agents Act 2002 prescribe a number of conditions applying to sales by auction.

WARNINGS

1. **Various Acts of Parliament and other matters can affect the rights of the parties to this contract. Some important matters are actions, claims, decisions, licences, notices, orders, proposals or rights of way involving:**

APA Group Australian Taxation Office Council County Council Department of Planning and Environment Department of Primary Industries Electricity and gas Land and Housing Corporation Local Land Services	NSW Department of Education NSW Fair Trading Owner of adjoining land Privacy Public Works Advisory Subsidence Advisory NSW Telecommunications Transport for NSW Water, sewerage or drainage authority
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If you think that any of these matters affects the property, tell your solicitor.
2. **A lease may be affected by the Agricultural Tenancies Act 1990, the Residential Tenancies Act 2010 or the Retail Leases Act 1994.**
3. **If any purchase money is owing to the Crown, it will become payable before obtaining consent, or if no consent is needed, when the transfer is registered.**
4. **If a consent to transfer is required under legislation, see clause 27 as to the obligations of the parties.**
5. **The vendor should continue the vendor's insurance until completion. If the vendor wants to give the purchaser possession before completion, the vendor should first ask the insurer to confirm this will not affect the insurance.**
6. **Most purchasers will have to pay transfer duty (and, sometimes, if the purchaser is not an Australian citizen, surcharge purchaser duty) on this contract. Some purchasers may be eligible to choose to pay first home buyer choice property tax instead of transfer duty. If a payment is not made on time, interest and penalties may be incurred.**
7. **If the purchaser agrees to the release of deposit, the purchaser's right to recover the deposit may stand behind the rights of others (for example the vendor's mortgagee).**
8. **The purchaser should arrange insurance as appropriate.**
9. **Some transactions involving personal property may be affected by the Personal Property Securities Act 2009.**
10. **A purchaser should be satisfied that finance will be available at the time of completing the purchase.**
11. **Where the market value of the property is at or above a legislated amount, the purchaser may have to comply with a foreign resident capital gains withholding payment obligation (even if the vendor is not a foreign resident). If so, this will affect the amount available to the vendor on completion.**
12. **Purchasers of some residential properties may have to withhold part of the purchase price to be credited towards the GST liability of the vendor. If so, this will also affect the amount available to the vendor. More information is available from the ATO.**

The vendor sells and the purchaser buys the *property* for the price under these provisions instead of Schedule 3 Conveyancing Act 1919, subject to any *legislation* that cannot be excluded.

1 Definitions (a term in italics is a defined term)

1.1	In this contract, these terms (in any form) mean –
	<i>adjustment date</i> the earlier of the giving of possession to the purchaser or completion;
	<i>adjustment figures</i> details of the adjustments to be made to the price under clause 14;
	<i>authorised Subscriber</i> a <i>Subscriber</i> (not being a <i>party's solicitor</i>) named in a notice <i>served</i> by a <i>party</i> as being authorised for the purposes of clause 20.6.8;
	<i>bank</i> the Reserve Bank of Australia or an authorised deposit-taking institution which is a bank, a building society or a credit union;
	<i>business day</i> any day except a bank or public holiday throughout NSW or a Saturday or Sunday;
	<i>cheque</i> a cheque that is not postdated or stale;
	<i>clearance certificate</i> a certificate within the meaning of s14-220 of Schedule 1 to the <i>TA Act</i> , that covers one or more days falling within the period from and including the contract date to completion;
	<i>completion time</i> the time of day at which completion is to occur;
	<i>conveyancing rules</i> the rules made under s12E of the Real Property Act 1900;
	<i>deposit-bond</i> a deposit bond or guarantee with each of the following approved by the vendor –
	<ul style="list-style-type: none"> • the issuer; • the expiry date (if any); and • the amount;
	<i>depositholder</i> vendor's agent (or if no vendor's agent is named in this contract, the vendor's <i>solicitor</i> , or if no vendor's <i>solicitor</i> is named in this contract, the buyer's agent);
	<i>discharging mortgagee</i> any discharging mortgagee, chargee, covenant chargee or caveator whose provision of a <i>Digitally Signed</i> discharge of mortgage, discharge of charge or withdrawal of caveat is required in order for unencumbered title to the <i>property</i> to be transferred to the purchaser;
	<i>document of title</i> document relevant to the title or the passing of title;
	<i>ECNL</i> the Electronic Conveyancing National Law (NSW);
	<i>electronic document</i> a dealing as defined in the Real Property Act 1900 which may be created and <i>Digitally Signed</i> in an <i>Electronic Workspace</i> ;
	<i>electronic transaction</i> a <i>Conveyancing Transaction</i> to be conducted for the <i>parties</i> by their legal representatives as <i>Subscribers</i> using an <i>ELN</i> and in accordance with the <i>ECNL</i> and the <i>participation rules</i> ;
	<i>electronic transfer</i> a transfer of land under the Real Property Act 1900 for the <i>property</i> to be prepared and <i>Digitally Signed</i> in the <i>Electronic Workspace</i> established for the purposes of the <i>parties' Conveyancing Transaction</i> ;
	<i>FRCGW percentage</i> the percentage mentioned in s14-200(3)(a) of Schedule 1 to the <i>TA Act</i> (12.5% as at 1 July 2017);
	<i>FRCGW remittance</i> a remittance which the purchaser must make under s14-200 of Schedule 1 to the <i>TA Act</i> , being the lesser of the <i>FRCGW percentage</i> of the price (inclusive of GST, if any) and the amount specified in a <i>variation served</i> by a <i>party</i> ;
	<i>GST Act</i> A New Tax System (Goods and Services Tax) Act 1999;
	<i>GST rate</i> the rate mentioned in s4 of A New Tax System (Goods and Services Tax Imposition - General) Act 1999 (10% as at 1 July 2000);
	<i>GSTRW payment</i> a payment which the purchaser must make under s14-250 of Schedule 1 to the <i>TA Act</i> (the price multiplied by the <i>GSTRW rate</i>);
	<i>GSTRW rate</i> the rate determined under ss14-250(6), (8) or (9) of Schedule 1 to the <i>TA Act</i> (as at 1 July 2018, usually 7% of the price if the margin scheme applies, 1/11 th if not);
	<i>incoming mortgagee</i> any mortgagee who is to provide finance to the purchaser on the security of the <i>property</i> and to enable the purchaser to pay the whole or part of the price;
	<i>legislation</i> an Act or a by-law, ordinance, regulation or rule made under an Act;
	<i>manual transaction</i> a <i>Conveyancing Transaction</i> in which a dealing forming part of the <i>Lodgment Case</i> at or following completion cannot be <i>Digitally Signed</i> ;
	<i>normally</i> subject to any other provision of this contract;
	<i>participation rules</i> the participation rules as determined by the <i>ECNL</i> ;
	<i>party</i> each of the vendor and the purchaser;
	<i>property</i> the land, the improvements, all fixtures and the inclusions, but not the exclusions;
	<i>planning agreement</i> a valid voluntary agreement within the meaning of s7.4 of the Environmental Planning and Assessment Act 1979 entered into in relation to the <i>property</i> ;
	<i>populate</i> to complete data fields in the <i>Electronic Workspace</i> ;

<i>requisition</i>	an objection, question or requisition (but the term does not include a claim);
<i>rescind</i>	rescind this contract from the beginning;
<i>serve</i>	serve in writing on the other <i>party</i> ;
<i>settlement cheque</i>	an unendorsed <i>cheque</i> made payable to the person to be paid and – <ul style="list-style-type: none"> • issued by a <i>bank</i> and drawn on itself; or • if authorised in writing by the vendor or the vendor's <i>solicitor</i>, some other <i>cheque</i>;
<i>solicitor</i>	in relation to a <i>party</i> , the <i>party's</i> solicitor or licensed conveyancer named in this contract or in a notice <i>served</i> by the <i>party</i> ;
<i>TA Act</i>	Taxation Administration Act 1953;
<i>terminate</i>	terminate this contract for breach;
<i>title data</i>	the details of the title to the <i>property</i> made available to the <i>Electronic Workspace</i> by the <i>Land Registry</i> ;
<i>variation</i>	a variation made under s14-235 of Schedule 1 to the <i>TA Act</i> ;
<i>within</i>	in relation to a period, at any time before or during the period; and
<i>work order</i>	a valid direction, notice or order that requires work to be done or money to be spent on or in relation to the <i>property</i> or any adjoining footpath or road (but the term does not include a notice under s22E of the Swimming Pools Act 1992 or clause 22 of the Swimming Pools Regulation 2018).

- 1.2 Words and phrases used in this contract (italicised and in Title Case, such as *Conveyancing Transaction*, *Digitally Signed*, *Electronic Workspace*, *ELN*, *ELNO*, *Land Registry*, *Lodgment Case* and *Subscriber*) have the meanings given in the *participation rules*.

2 Deposit and other payments before completion

- 2.1 The purchaser must pay the deposit to the *depositholder* as stakeholder.
- 2.2 *Normally*, the purchaser must pay the deposit on the making of this contract, and this time is essential.
- 2.3 If this contract requires the purchaser to pay any of the deposit by a later time, that time is also essential.
- 2.4 The purchaser can pay any of the deposit by –
- 2.4.1 giving cash (up to \$2,000) to the *depositholder*;
- 2.4.2 unconditionally giving a *cheque* to the *depositholder* or to the vendor, vendor's agent or vendor's *solicitor* for sending to the *depositholder*; or
- 2.4.3 electronic funds transfer to the *depositholder's* nominated account and, if requested by the vendor or the *depositholder*, providing evidence of that transfer.
- 2.5 The vendor can *terminate* if –
- 2.5.1 any of the deposit is not paid on time;
- 2.5.2 a *cheque* for any of the deposit is not honoured on presentation; or
- 2.5.3 a payment under clause 2.4.3 is not received in the *depositholder's* nominated account by 5.00 pm on the third *business day* after the time for payment.
- This right to *terminate* is lost as soon as the deposit is paid in full.
- 2.6 If the vendor accepts a *deposit-bond* for the deposit, clauses 2.1 to 2.5 do not apply.
- 2.7 If the vendor accepts a *deposit-bond* for part of the deposit, clauses 2.1 to 2.5 apply only to the balance.
- 2.8 If any of the deposit or of the balance of the price is paid before completion to the vendor or as the vendor directs, it is a charge on the land in favour of the purchaser until *termination* by the vendor or completion, subject to any existing right.
- 2.9 If each *party* tells the *depositholder* that the deposit is to be invested, the *depositholder* is to invest the deposit (at the risk of the *party* who becomes entitled to it) with a *bank*, in an interest-bearing account in NSW, payable at call, with interest to be reinvested, and pay the interest to the *parties* equally, after deduction of all proper government taxes and financial institution charges and other charges.

3 Deposit-bond

- 3.1 This clause applies only if the vendor accepts a *deposit-bond* for the deposit (or part of it).
- 3.2 The purchaser must provide the *deposit-bond* to the vendor's *solicitor* (or if no solicitor the *depositholder*) at or before the making of this contract and this time is essential.
- 3.3 If the *deposit-bond* has an expiry date and completion does not occur by the date which is 14 days before the expiry date, the purchaser must *serve* a replacement *deposit-bond* at least 7 days before the expiry date. The time for service is essential.
- 3.4 The vendor must approve a replacement *deposit-bond* if –
- 3.4.1 it is from the same issuer and for the same amount as the earlier *deposit-bond*; and
- 3.4.2 it has an expiry date at least three months after its date of issue.
- 3.5 A breach of clauses 3.2 or 3.3 entitles the vendor to *terminate*. The right to *terminate* is lost as soon as –
- 3.5.1 the purchaser *serves* a replacement *deposit-bond*; or
- 3.5.2 the deposit is paid in full under clause 2.
- 3.6 Clauses 3.3 and 3.4 can operate more than once.

- 3.7 If the purchaser *serves* a replacement *deposit-bond*, the vendor must *serve* the earlier *deposit-bond*.
- 3.8 The amount of any *deposit-bond* does not form part of the price for the purposes of clause 16.5.
- 3.9 The vendor must give the purchaser any original *deposit-bond* –
- 3.9.1 on completion; or
- 3.9.2 if this contract is *rescinded*.
- 3.10 If this contract is *terminated* by the vendor –
- 3.10.1 *normally*, the vendor can immediately demand payment from the issuer of the *deposit-bond*; or
- 3.10.2 if the purchaser *serves* prior to *termination* a notice disputing the vendor's right to *terminate*, the vendor must forward any original *deposit-bond* (or its proceeds if called up) to the *depositholder* as stakeholder.
- 3.11 If this contract is *terminated* by the purchaser –
- 3.11.1 *normally*, the vendor must give the purchaser any original *deposit-bond*; or
- 3.11.2 if the vendor *serves* prior to *termination* a notice disputing the purchaser's right to *terminate*, the vendor must forward any original *deposit-bond* (or its proceeds if called up) to the *depositholder* as stakeholder.
- 4 Electronic transaction**
- 4.1 This *Conveyancing Transaction* is to be conducted as an *electronic transaction* unless –
- 4.1.1 the contract says this transaction is a *manual transaction*, giving the reason, or
- 4.1.2 a *party serves* a notice stating why the transaction is a *manual transaction*, in which case the *parties* do not have to complete earlier than 14 days after *service* of the notice, and clause 21.3 does not apply to this provision,
- and in both cases clause 30 applies.
- 4.2 If, because of clause 4.1.2, this *Conveyancing Transaction* is to be conducted as a *manual transaction* –
- 4.2.1 each *party* must –
- bear equally any disbursements or fees; and
 - otherwise bear that *party's* own costs;
- incurred because this *Conveyancing Transaction* was to be conducted as an *electronic transaction*; and
- 4.2.2 if a *party* has paid all of a disbursement or fee which, by reason of this clause, is to be borne equally by the *parties*, that amount must be adjusted under clause 14.
- 4.3 The *parties* must conduct the *electronic transaction* –
- 4.3.1 in accordance with the *participation rules* and the *ECNL*; and
- 4.3.2 using the nominated *ELN*, unless the *parties* otherwise agree. This clause 4.3.2 does not prevent a *party* using an *ELN* which can interoperate with the nominated *ELN*.
- 4.4 A *party* must pay the fees and charges payable by that *party* to the *ELNO* and the *Land Registry*.
- 4.5 *Normally*, the vendor must *within 7 days* of the contract date create and *populate* an *Electronic Workspace* with *title data* and the date for completion, and invite the purchaser to the *Electronic Workspace*.
- 4.6 If the vendor has not created an *Electronic Workspace* in accordance with clause 4.5, the purchaser may create and *populate* an *Electronic Workspace* and, if it does so, the purchaser must invite the vendor to the *Electronic Workspace*.
- 4.7 The *parties* must, as applicable to their role in the *Conveyancing Transaction* and the steps taken under clauses 4.5 or 4.6 –
- 4.7.1 promptly join the *Electronic Workspace* after receipt of an invitation;
- 4.7.2 create and *populate* an *electronic transfer*;
- 4.7.3 invite any *discharging mortgagee* or *incoming mortgagee* to join the *Electronic Workspace*; and
- 4.7.4 *populate* the *Electronic Workspace* with a nominated *completion time*.
- 4.8 If the transferee in the *electronic transfer* is not the purchaser, the purchaser must give the vendor a direction signed by the purchaser personally for that transfer.
- 4.9 The vendor can require the purchaser to include a covenant or easement in the *electronic transfer* only if this contract contains the wording of the proposed covenant or easement, and a description of the land burdened and benefited.
- 4.10 If the purchaser must make a *GSTRW payment* or an *FRCGW remittance*, the purchaser must *populate* the *Electronic Workspace* with the payment details for the *GSTRW payment* or *FRCGW remittance* payable to the Deputy Commissioner of Taxation at least 2 *business days* before the date for completion.
- 4.11 Before completion, the *parties* must ensure that –
- 4.11.1 all *electronic documents* which a *party* must *Digitally Sign* to complete the *electronic transaction* are *populated* and *Digitally Signed*;
- 4.11.2 all certifications required by the *ECNL* are properly given; and
- 4.11.3 they do everything else in the *Electronic Workspace* which that *party* must do to enable the *electronic transaction* to proceed to completion.
- 4.12 If the computer systems of any of the *Land Registry*, the *ELNO*, Revenue NSW or the Reserve Bank of Australia are inoperative for any reason at the *completion time* agreed by the *parties*, a failure to complete this contract for that reason is not a default under this contract on the part of either *party*.

- 4.13 If the computer systems of the *Land Registry* are inoperative for any reason at the *completion time* agreed by the *parties*, and the *parties* choose that financial settlement is to occur despite this, then on financial settlement occurring –
- 4.13.1 all *electronic documents Digitally Signed* by the vendor and any discharge of mortgage, withdrawal of caveat or other *electronic document* forming part of the *Lodgment Case* for the *electronic transaction* are taken to have been unconditionally and irrevocably delivered to the purchaser or the purchaser's mortgagee at the time of financial settlement together with the right to deal with the land; and
- 4.13.2 the vendor is taken to have no legal or equitable interest in the *property*.
- 4.14 If the *parties* do not agree about the delivery before completion of one or more documents or things that cannot be delivered through the *Electronic Workspace*, the *party* required to deliver the documents or things –
- 4.14.1 holds them on completion in escrow for the benefit of; and
- 4.14.2 must immediately after completion deliver the documents or things to, or as directed by; the *party* entitled to them.

5 Requisitions

- 5.1 If a form of *requisitions* is attached to this contract, the purchaser is taken to have made those *requisitions*.
- 5.2 If the purchaser is or becomes entitled to make any other *requisition*, the purchaser can make it only by *servicing* it –
- 5.2.1 if it arises out of this contract or it is a general question about the *property* or title - *within 21 days* after the contract date;
- 5.2.2 if it arises out of anything *served* by the vendor - *within 21 days* after the later of the contract date and that *service*; and
- 5.2.3 in any other case - *within* a reasonable time.

6 Error or misdescription

- 6.1 *Normally*, the purchaser can (but only before completion) claim compensation for an error or misdescription in this contract (as to the *property*, the title or anything else and whether substantial or not).
- 6.2 This clause applies even if the purchaser did not take notice of or rely on anything in this contract containing or giving rise to the error or misdescription.
- 6.3 However, this clause does not apply to the extent the purchaser knows the true position.

7 Claims by purchaser

- Normally*, the purchaser can make a claim (including a claim under clause 6) before completion only by *servicing* it with a statement of the amount claimed, and if the purchaser makes one or more claims before completion –
- 7.1 the vendor can *rescind* if in the case of claims that are not claims for delay –
- 7.1.1 the total amount claimed exceeds 5% of the price;
- 7.1.2 the vendor *serves* notice of intention to *rescind*; and
- 7.1.3 the purchaser does not *serve* notice waiving the claims *within 14 days* after that *service*; and
- 7.2 if the vendor does not *rescind*, the *parties* must complete and if this contract is completed –
- 7.2.1 the lesser of the total amount claimed and 10% of the price must be paid out of the price to and held by the *depositholder* until the claims are finalised or lapse;
- 7.2.2 the amount held is to be invested in accordance with clause 2.9;
- 7.2.3 the claims must be finalised by an arbitrator appointed by the *parties* or, if an appointment is not made *within 1 month* of completion, by an arbitrator appointed by the President of the Law Society at the request of a *party* (in the latter case the *parties* are bound by the terms of the Conveyancing Arbitration Rules approved by the Law Society as at the date of the appointment);
- 7.2.4 the purchaser is not entitled, in respect of the claims, to more than the total amount claimed and the costs of the purchaser;
- 7.2.5 net interest on the amount held must be paid to the *parties* in the same proportion as the amount held is paid; and
- 7.2.6 if the *parties* do not appoint an arbitrator and neither *party* requests the President to appoint an arbitrator *within 3 months* after completion, the claims lapse and the amount belongs to the vendor.

8 Vendor's rights and obligations

- 8.1 The vendor can *rescind* if –
- 8.1.1 the vendor is, on reasonable grounds, unable or unwilling to comply with a *requisition*;
- 8.1.2 the vendor *serves* a notice of intention to *rescind* that specifies the *requisition* and those grounds; and
- 8.1.3 the purchaser does not *serve* a notice waiving the *requisition within 14 days* after that *service*.

- 8.2 If the vendor does not comply with this contract (or a notice under or relating to it) in an essential respect, the purchaser can *terminate* by *servicing* a notice. After the *termination* –
- 8.2.1 the purchaser can recover the deposit and any other money paid by the purchaser under this contract;
- 8.2.2 the purchaser can sue the vendor to recover damages for breach of contract; and
- 8.2.3 if the purchaser has been in possession a *party* can claim for a reasonable adjustment.

9 Purchaser's default

- If the purchaser does not comply with this contract (or a notice under or relating to it) in an essential respect, the vendor can *terminate* by *servicing* a notice. After the *termination* the vendor can –
- 9.1 keep or recover the deposit (to a maximum of 10% of the price);
- 9.2 hold any other money paid by the purchaser under this contract as security for anything recoverable under this clause –
- 9.2.1 for 12 months after the *termination*; or
- 9.2.2 if the vendor commences proceedings under this clause *within* 12 months, until those proceedings are concluded; and
- 9.3 sue the purchaser either –
- 9.3.1 where the vendor has resold the *property* under a contract made *within* 12 months after the *termination*, to recover –
- the deficiency on resale (with credit for any of the deposit kept or recovered and after allowance for any capital gains tax or goods and services tax payable on anything recovered under this clause); and
 - the reasonable costs and expenses arising out of the purchaser's non-compliance with this contract or the notice and of resale and any attempted resale; or
- 9.3.2 to recover damages for breach of contract.

10 Restrictions on rights of purchaser

- 10.1 The purchaser cannot make a claim or *requisition* or *rescind* or *terminate* in respect of –
- 10.1.1 the ownership or location of any fence as defined in the Dividing Fences Act 1991;
- 10.1.2 a service for the *property* being a joint service or passing through another property, or any service for another property passing through the *property* ('service' includes air, communication, drainage, electricity, garbage, gas, oil, radio, sewerage, telephone, television or water service);
- 10.1.3 a wall being or not being a party wall in any sense of that term or the *property* being affected by an easement for support or not having the benefit of an easement for support;
- 10.1.4 any change in the *property* due to fair wear and tear before completion;
- 10.1.5 a promise, representation or statement about this contract, the *property* or the title, not set out or referred to in this contract;
- 10.1.6 a condition, exception, reservation or restriction in a Crown grant;
- 10.1.7 the existence of any authority or licence to explore or prospect for gas, minerals or petroleum;
- 10.1.8 any easement or restriction on use the substance of either of which is disclosed in this contract or any non-compliance with the easement or restriction on use; or
- 10.1.9 anything the substance of which is disclosed in this contract (except a caveat, charge, mortgage, priority notice or writ).
- 10.2 The purchaser cannot *rescind* or *terminate* only because of a defect in title to or quality of the inclusions.
- 10.3 *Normally*, the purchaser cannot make a claim or *requisition* or *rescind* or *terminate* or require the vendor to change the nature of the title disclosed in this contract (for example, to remove a caution evidencing qualified title, or to lodge a plan of survey as regards limited title).

11 Compliance with work orders

- 11.1 *Normally*, the vendor must by completion comply with a *work order* made on or before the contract date and if this contract is completed the purchaser must comply with any other *work order*.
- 11.2 If the purchaser complies with a *work order*, and this contract is *rescinded* or *terminated*, the vendor must pay the expense of compliance to the purchaser.

12 Certificates and inspections

- The vendor must do everything reasonable to enable the purchaser, subject to the rights of any tenant –
- 12.1 to have the *property* inspected to obtain any certificate or report reasonably required;
- 12.2 to apply (if necessary in the name of the vendor) for –
- 12.2.1 any certificate that can be given in respect of the *property* under *legislation*; or
- 12.2.2 a copy of any approval, certificate, consent, direction, notice or order in respect of the *property* given under *legislation*, even if given after the contract date; and
- 12.3 to make 1 inspection of the *property* in the 3 days before a time appointed for completion.

13 Goods and services tax (GST)

- 13.1 Terms used in this clause which are not defined elsewhere in this contract and have a defined meaning in the *GST Act* have the same meaning in this clause.
- 13.2 *Normally*, if a *party* must pay the price or any other amount to the other *party* under this contract, GST is not to be added to the price or amount.
- 13.3 If under this contract a *party* must make an adjustment or payment for an expense of another party or pay an expense payable by or to a third party (for example, under clauses 14 or 20.7) –
- 13.3.1 the *party* must adjust or pay on completion any GST added to or included in the expense; but
- 13.3.2 the amount of the expense must be reduced to the extent the party receiving the adjustment or payment (or the representative member of a GST group of which that party is a member) is entitled to an input tax credit for the expense; and
- 13.3.3 if the adjustment or payment under this contract is consideration for a taxable supply, an amount for GST must be added at the *GST rate*.
- 13.4 If this contract says this sale is the supply of a going concern –
- 13.4.1 the *parties* agree the supply of the *property* is a supply of a going concern;
- 13.4.2 the vendor must, between the contract date and completion, carry on the enterprise conducted on the land in a proper and business-like way;
- 13.4.3 if the purchaser is not registered by the date for completion, the *parties* must complete and the purchaser must pay on completion, in addition to the price, an amount being the price multiplied by the *GST rate* ("the retention sum"). The retention sum is to be held by the *depositholder* and dealt with as follows –
- if *within* 3 months of completion the purchaser *serves* a letter from the Australian Taxation Office stating the purchaser is registered with a date of effect of registration on or before completion, the *depositholder* is to pay the retention sum to the purchaser; but
 - if the purchaser does not *serve* that letter *within* 3 months of completion, the *depositholder* is to pay the retention sum to the vendor; and
- 13.4.4 if the vendor, despite clause 13.4.1, *serves* a letter from the Australian Taxation Office stating the vendor has to pay GST on the supply, the purchaser must pay to the vendor on demand the amount of GST assessed.
- 13.5 *Normally*, the vendor promises the margin scheme will not apply to the supply of the *property*.
- 13.6 If this contract says the margin scheme is to apply in making the taxable supply, the *parties* agree that the margin scheme is to apply to the sale of the *property*.
- 13.7 If this contract says the sale is not a taxable supply –
- 13.7.1 the purchaser promises that the *property* will not be used and represents that the purchaser does not intend the *property* (or any part of the *property*) to be used in a way that could make the sale a taxable supply to any extent; and
- 13.7.2 the purchaser must pay the vendor on completion in addition to the price an amount calculated by multiplying the price by the *GST rate* if this sale is a taxable supply to any extent because of –
- a breach of clause 13.7.1; or
 - something else known to the purchaser but not the vendor.
- 13.8 If this contract says this sale is a taxable supply in full and does not say the margin scheme applies to the *property*, the vendor must pay the purchaser on completion an amount of one-eleventh of the price if –
- 13.8.1 this sale is not a taxable supply in full; or
- 13.8.2 the margin scheme applies to the *property* (or any part of the *property*).
- 13.9 If this contract says this sale is a taxable supply to an extent –
- 13.9.1 clause 13.7.1 does not apply to any part of the *property* which is identified as being a taxable supply; and
- 13.9.2 the payments mentioned in clauses 13.7 and 13.8 are to be recalculated by multiplying the relevant payment by the proportion of the price which represents the value of that part of the *property* to which the clause applies (the proportion to be expressed as a number between 0 and 1). Any evidence of value must be obtained at the expense of the vendor.
- 13.10 *Normally*, on completion the vendor must give the recipient of the supply a tax invoice for any taxable supply by the vendor by or under this contract.
- 13.11 The vendor does not have to give the purchaser a tax invoice if the margin scheme applies to a taxable supply.
- 13.12 If the vendor is liable for GST on rents or profits due to issuing an invoice or receiving consideration before completion, any adjustment of those amounts must exclude an amount equal to the vendor's GST liability.
- 13.13 If the vendor *serves* details of a *GSTRW payment* which the purchaser must make, the purchaser does not have to complete earlier than 5 *business days* after that *service* and clause 21.3 does not apply to this provision.
- 13.14 If the purchaser must make a *GSTRW payment* the purchaser must, at least 2 *business days* before the date for completion, *serve* evidence of submission of a *GSTRW payment* notification form to the Australian Taxation Office by the purchaser or, if a direction under either clause 4.8 or clause 30.4 has been given, by the transferee named in the transfer the subject of that direction.

14 Adjustments

- 14.1 *Normally*, the vendor is entitled to the rents and profits and will be liable for all rates, water, sewerage and drainage service and usage charges, land tax, levies and all other periodic outgoings up to and including the *adjustment date* after which the purchaser will be entitled and liable.
- 14.2 The *parties* must make any necessary adjustment on completion, and –
- 14.2.1 the purchaser must provide the vendor with *adjustment figures* at least 2 *business days* before the date for completion; and
- 14.2.2 the vendor must confirm the *adjustment figures* at least 1 *business day* before the date for completion.
- 14.3 If an amount that is adjustable under this contract has been reduced under *legislation*, the *parties* must on completion adjust the reduced amount.
- 14.4 The *parties* must not adjust surcharge land tax (as defined in the Land Tax Act 1956) but must adjust any other land tax for the year current at the *adjustment date* –
- 14.4.1 only if land tax has been paid or is payable for the year (whether by the vendor or by a predecessor in title) and this contract says that land tax is adjustable;
- 14.4.2 by adjusting the amount that would have been payable if at the start of the year –
- the person who owned the land owned no other land;
 - the land was not subject to a special trust or owned by a non-concessional company; and
 - if the land (or part of it) had no separate taxable value, by calculating its separate taxable value on a proportional area basis.
- 14.5 The *parties* must not adjust any first home buyer choice property tax.
- 14.6 If any other amount that is adjustable under this contract relates partly to the land and partly to other land, the *parties* must adjust it on a proportional area basis.
- 14.7 If on completion the last bill for a water, sewerage or drainage usage charge is for a period ending before the *adjustment date*, the vendor is liable for an amount calculated by dividing the bill by the number of days in the period then multiplying by the number of unbilled days up to and including the *adjustment date*.
- 14.8 The vendor is liable for any amount recoverable for work started on or before the contract date on the *property* or any adjoining footpath or road.

15 Date for completion

The *parties* must complete by the date for completion and, if they do not, a *party* can serve a notice to complete if that *party* is otherwise entitled to do so.

16 Completion

• Vendor

- 16.1 *Normally*, on completion the vendor must cause the legal title to the *property* (being the estate disclosed in this contract) to pass to the purchaser free of any charge, mortgage or other interest, subject to any necessary registration.
- 16.2 The legal title to the *property* does not pass before completion.
- 16.3 If the vendor gives the purchaser a document (other than the transfer) that needs to be lodged for registration, the vendor must pay the lodgment fee to the purchaser.
- 16.4 If a *party* serves a land tax certificate showing a charge on any of the land, by completion the vendor must do all things and pay all money required so that the charge is no longer effective against the land.

• Purchaser

- 16.5 On completion the purchaser must pay to the vendor –
- 16.5.1 the price less any –
- deposit paid;
 - *FRCGW remittance* payable;
 - *GSTRW payment*; and
 - amount payable by the vendor to the purchaser under this contract; and
- 16.5.2 any other amount payable by the purchaser under this contract.
- 16.6 If any of the deposit is not covered by a *deposit-bond*, at least 1 *business day* before the date for completion the purchaser must give the vendor an order signed by the purchaser authorising the *depositholder* to account to the vendor for the deposit, to be held by the vendor in escrow until completion.
- 16.7 On completion the deposit belongs to the vendor.

17 Possession

- 17.1 *Normally*, the vendor must give the purchaser vacant possession of the *property* on completion.
- 17.2 The vendor does not have to give vacant possession if –
- 17.2.1 this contract says that the sale is subject to existing tenancies; and
- 17.2.2 the contract discloses the provisions of the tenancy (for example, by attaching a copy of the lease and any relevant memorandum or variation).
- 17.3 *Normally*, the purchaser can claim compensation (before or after completion) or *rescind* if any of the land is affected by a protected tenancy (a tenancy affected by Schedule 2, Part 7 of the Residential Tenancies Act 2010).

18 Possession before completion

- 18.1 This clause applies only if the vendor gives the purchaser possession of the *property* before completion.
- 18.2 The purchaser must not before completion –
- 18.2.1 let or part with possession of any of the *property*;
 - 18.2.2 make any change or structural alteration or addition to the *property*; or
 - 18.2.3 contravene any agreement between the *parties* or any direction, document, *legislation*, notice or order affecting the *property*.
- 18.3 The purchaser must until completion –
- 18.3.1 keep the *property* in good condition and repair having regard to its condition at the giving of possession; and
 - 18.3.2 allow the vendor or the vendor's authorised representative to enter and inspect it at all reasonable times.
- 18.4 The risk as to damage to the *property* passes to the purchaser immediately after the purchaser enters into possession.
- 18.5 If the purchaser does not comply with this clause, then without affecting any other right of the vendor –
- 18.5.1 the vendor can before completion, without notice, remedy the non-compliance; and
 - 18.5.2 if the vendor pays the expense of doing this, the purchaser must pay it to the vendor with interest at the rate prescribed under s101 Civil Procedure Act 2005.
- 18.6 If this contract is *rescinded* or *terminated* the purchaser must immediately vacate the *property*.
- 18.7 If the *parties* or their *solicitors* on their behalf do not agree in writing to a fee or rent, none is payable.

19 Rescission of contract

- 19.1 If this contract expressly gives a *party* a right to *rescind*, the *party* can exercise the right –
- 19.1.1 only by *servicing* a notice before completion; and
 - 19.1.2 in spite of any making of a claim or *requisition*, any attempt to satisfy a claim or *requisition*, any arbitration, litigation, mediation or negotiation or any giving or taking of possession.
- 19.2 *Normally*, if a *party* exercises a right to *rescind* expressly given by this contract or any *legislation* –
- 19.2.1 the deposit and any other money paid by the purchaser under this contract must be refunded;
 - 19.2.2 a *party* can claim for a reasonable adjustment if the purchaser has been in possession;
 - 19.2.3 a *party* can claim for damages, costs or expenses arising out of a breach of this contract; and
 - 19.2.4 a *party* will not otherwise be liable to pay the other *party* any damages, costs or expenses.

20 Miscellaneous

- 20.1 The *parties* acknowledge that anything stated in this contract to be attached was attached to this contract by the vendor before the purchaser signed it and is part of this contract.
- 20.2 Anything attached to this contract is part of this contract.
- 20.3 An area, bearing or dimension in this contract is only approximate.
- 20.4 If a *party* consists of 2 or more persons, this contract benefits and binds them separately and together.
- 20.5 A *party's solicitor* can receive any amount payable to the *party* under this contract or direct in writing that it is to be paid to another person.
- 20.6 A document under or relating to this contract is –
- 20.6.1 signed by a *party* if it is signed by the *party* or the *party's solicitor* (apart from a direction under clause 4.8 or clause 30.4);
 - 20.6.2 *served* if it is *served* by the *party* or the *party's solicitor*;
 - 20.6.3 *served* if it is *served* on the *party's solicitor*, even if the *party* has died or any of them has died;
 - 20.6.4 *served* if it is *served* in any manner provided in s170 of the Conveyancing Act 1919;
 - 20.6.5 *served* if it is sent by email or fax to the *party's solicitor*, unless in either case it is not received;
 - 20.6.6 *served* on a person if it (or a copy of it) comes into the possession of the person;
 - 20.6.7 *served* at the earliest time it is *served*, if it is *served* more than once; and
 - 20.6.8 *served* if it is provided to or by the *party's solicitor* or an *authorised Subscriber* by means of an *Electronic Workspace* created under clause 4. However, this does not apply to a notice making an obligation essential, or a notice of *rescission* or *termination*.
- 20.7 An obligation to pay an expense of another *party* of doing something is an obligation to pay –
- 20.7.1 if the *party* does the thing personally - the reasonable cost of getting someone else to do it; or
 - 20.7.2 if the *party* pays someone else to do the thing - the amount paid, to the extent it is reasonable.
- 20.8 Rights under clauses 4, 11, 13, 14, 17, 24, 30 and 31 continue after completion, whether or not other rights continue.
- 20.9 The vendor does not promise, represent or state that the purchaser has any cooling off rights.
- 20.10 The vendor does not promise, represent or state that any attached survey report is accurate or current.
- 20.11 A reference to any *legislation* (including any percentage or rate specified in *legislation*) is also a reference to any corresponding later *legislation*.
- 20.12 Each *party* must do whatever is necessary after completion to carry out the *party's* obligations under this contract.
- 20.13 Neither taking possession nor *servicing* a transfer of itself implies acceptance of the *property* or the title.

- 20.14 The details and information provided in this contract (for example, on pages 1 - 4) are, to the extent of each *party's* knowledge, true, and are part of this contract.
- 20.15 Where this contract provides for choices, a choice in BLOCK CAPITALS applies unless a different choice is marked.
- 20.16 Each *party* consents to –
- 20.16.1 any *party* signing this contract electronically; and
- 20.16.2 the making of this contract by the exchange of counterparts delivered by email, or by such other electronic means as may be agreed in writing by the *parties*.
- 20.17 Each *party* agrees that electronic signing by a *party* identifies that *party* and indicates that *party's* intention to be bound by this contract.

21 Time limits in these provisions

- 21.1 If the time for something to be done or to happen is not stated in these provisions, it is a reasonable time.
- 21.2 If there are conflicting times for something to be done or to happen, the latest of those times applies.
- 21.3 The time for one thing to be done or to happen does not extend the time for another thing to be done or to happen.
- 21.4 If the time for something to be done or to happen is the 29th, 30th or 31st day of a month, and the day does not exist, the time is instead the last day of the month.
- 21.5 If the time for something to be done or to happen is a day that is not a *business day*, the time is extended to the next *business day*, except in the case of clauses 2 and 3.2.
- 21.6 *Normally*, the time by which something must be done is fixed but not essential.

22 Foreign Acquisitions and Takeovers Act 1975

- 22.1 The purchaser promises that the Commonwealth Treasurer cannot prohibit and has not prohibited the transfer under the Foreign Acquisitions and Takeovers Act 1975.
- 22.2 This promise is essential and a breach of it entitles the vendor to *terminate*.

23 Strata or community title

• Definitions and modifications

- 23.1 This clause applies only if the land (or part of it) is a lot in a strata, neighbourhood, precinct or community scheme (or on completion is to be a lot in a scheme of that kind).
- 23.2 In this contract –
- 23.2.1 'change', in relation to a scheme, means –
- a registered or registrable change from by-laws set out in this contract;
 - a change from a development or management contract or statement set out in this contract; or
 - a change in the boundaries of common property;
- 23.2.2 'common property' includes association property for the scheme or any higher scheme;
- 23.2.3 'contribution' includes an amount payable under a by-law;
- 23.2.4 'information certificate' includes a certificate under s184 Strata Schemes Management Act 2015 and s171 Community Land Management Act 2021;
- 23.2.5 'interest notice' includes a strata interest notice under s22 Strata Schemes Management Act 2015 and an association interest notice under s20 Community Land Management Act 2021;
- 23.2.6 'normal expenses', in relation to an owners corporation for a scheme, means normal operating expenses usually payable from the administrative fund of an owners corporation for a scheme of the same kind;
- 23.2.7 'owners corporation' means the owners corporation or the association for the scheme or any higher scheme;
- 23.2.8 'the *property*' includes any interest in common property for the scheme associated with the lot; and
- 23.2.9 'special expenses', in relation to an owners corporation, means its actual, contingent or expected expenses, except to the extent they are –
- normal expenses;
 - due to fair wear and tear;
 - disclosed in this contract; or
 - covered by moneys held in the capital works fund.
- 23.3 Clauses 11, 14.8 and 18.4 do not apply to an obligation of the owners corporation, or to property insurable by it.
- 23.4 Clauses 14.4.2 and 14.6 apply but on a unit entitlement basis instead of an area basis.
- ### • Adjustments and liability for expenses
- 23.5 The *parties* must adjust under clause 14.1 –
- 23.5.1 a regular periodic contribution;
- 23.5.2 a contribution which is not a regular periodic contribution but is disclosed in this contract; and
- 23.5.3 on a unit entitlement basis, any amount paid by the vendor for a normal expense of the owners corporation to the extent the owners corporation has not paid the amount to the vendor.

- 23.6 If a contribution is not a regular periodic contribution and is not disclosed in this contract –
- 23.6.1 the vendor is liable for it if it was determined on or before the contract date, even if it is payable by instalments; and
- 23.6.2 the purchaser is liable for all contributions determined after the contract date.
- 23.7 The vendor must pay or allow to the purchaser on completion the amount of any unpaid contributions for which the vendor is liable under clause 23.6.1.
- 23.8 *Normally*, the purchaser cannot make a claim or *requisition* or *rescind* or *terminate* in respect of –
- 23.8.1 an existing or future actual, contingent or expected expense of the owners corporation;
- 23.8.2 a proportional unit entitlement of the lot or a relevant lot or former lot, apart from a claim under clause 6; or
- 23.8.3 a past or future change in the scheme or a higher scheme.
- 23.9 However, the purchaser can *rescind* if –
- 23.9.1 the special expenses of the owners corporation at the later of the contract date and the creation of the owners corporation when calculated on a unit entitlement basis (and, if more than one lot or a higher scheme is involved, added together), less any contribution paid by the vendor, are more than 1% of the price;
- 23.9.2 in the case of the lot or a relevant lot or former lot in a higher scheme, a proportional unit entitlement for the lot is disclosed in this contract but the lot has a different proportional unit entitlement at the contract date or at any time before completion;
- 23.9.3 a change before the contract date or before completion in the scheme or a higher scheme materially prejudices the purchaser and is not disclosed in this contract; or
- 23.9.4 a resolution is passed by the owners corporation before the contract date or before completion to give to the owners in the scheme for their consideration a strata renewal plan that has not lapsed at the contract date and there is not attached to this contract a strata renewal proposal or the strata renewal plan.
- **Notices, certificates and inspections**
- 23.10 Before completion, the purchaser must *serve* a copy of an interest notice addressed to the owners corporation and signed by the purchaser.
- 23.11 After completion, the purchaser must insert the date of completion in the interest notice and send it to the owners corporation.
- 23.12 The vendor can complete and send the interest notice as agent for the purchaser.
- 23.13 The vendor must *serve* at least 7 days before the date for completion, an information certificate for the lot, the scheme or any higher scheme which relates to a period in which the date for completion falls.
- 23.14 The purchaser does not have to complete earlier than 7 days after *service* of the information certificate and clause 21.3 does not apply to this provision. On completion the purchaser must pay the vendor the prescribed fee for the information certificate.
- 23.15 The vendor authorises the purchaser to apply for the purchaser's own information certificate.
- 23.16 The vendor authorises the purchaser to apply for and make an inspection of any record or other document in the custody or control of the owners corporation or relating to the scheme or any higher scheme.
- **Meetings of the owners corporation**
- 23.17 If a general meeting of the owners corporation is convened before completion –
- 23.17.1 if the vendor receives notice of it, the vendor must immediately notify the purchaser of it; and
- 23.17.2 after the expiry of any cooling off period, the purchaser can require the vendor to appoint the purchaser (or the purchaser's nominee) to exercise any voting rights of the vendor in respect of the lot at the meeting.

24 Tenancies

- 24.1 If a tenant has not made a payment for a period preceding or current at the *adjustment date* –
- 24.1.1 for the purposes of clause 14.2, the amount is to be treated as if it were paid; and
- 24.1.2 the purchaser assigns the debt to the vendor on completion and will if required give a further assignment at the vendor's expense.
- 24.2 If a tenant has paid in advance of the *adjustment date* any periodic payment in addition to rent, it must be adjusted as if it were rent for the period to which it relates.
- 24.3 If the *property* is to be subject to a tenancy on completion or is subject to a tenancy on completion –
- 24.3.1 the vendor authorises the purchaser to have any accounting records relating to the tenancy inspected and audited and to have any other document relating to the tenancy inspected;
- 24.3.2 the vendor must *serve* any information about the tenancy reasonably requested by the purchaser before or after completion; and
- 24.3.3 *normally*, the purchaser can claim compensation (before or after completion) if –
- a disclosure statement required by the Retail Leases Act 1994 was not given when required;
 - such a statement contained information that was materially false or misleading;
 - a provision of the lease is not enforceable because of a non-disclosure in such a statement; or
 - the lease was entered into in contravention of the Retail Leases Act 1994.

- 24.4 If the *property* is subject to a tenancy on completion –
- 24.4.1 the vendor must allow or transfer –
- any remaining bond money or any other security against the tenant's default (to the extent the security is transferable);
 - any money in a fund established under the lease for a purpose and compensation for any money in the fund or interest earned by the fund that has been applied for any other purpose; and
 - any money paid by the tenant for a purpose that has not been applied for that purpose and compensation for any of the money that has been applied for any other purpose;
- 24.4.2 if the security is not transferable, each *party* must do everything reasonable to cause a replacement security to issue for the benefit of the purchaser and the vendor must hold the original security on trust for the benefit of the purchaser until the replacement security issues;
- 24.4.3 the vendor must give to the purchaser –
- at least 2 *business days* before the date for completion, a proper notice of the transfer (an attornment notice) addressed to the tenant, to be held by the purchaser in escrow until completion;
 - any certificate given under the Retail Leases Act 1994 in relation to the tenancy;
 - a copy of any disclosure statement given under the Retail Leases Act 1994;
 - a copy of any document served on the tenant under the lease and written details of its service, if the document concerns the rights of the landlord or the tenant after completion; and
 - any document served by the tenant under the lease and written details of its service, if the document concerns the rights of the landlord or the tenant after completion;
- 24.4.4 the vendor must comply with any obligation to the tenant under the lease, to the extent it is to be complied with by completion; and
- 24.4.5 the purchaser must comply with any obligation to the tenant under the lease, to the extent that the obligation is disclosed in this contract and is to be complied with after completion.
- 25 Qualified title, limited title and old system title**
- 25.1 This clause applies only if the land (or part of it) –
- 25.1.1 is under qualified, limited or old system title; or
- 25.1.2 on completion is to be under one of those titles.
- 25.2 The vendor must *serve* a proper abstract of title *within 7 days* after the contract date.
- 25.3 If an abstract of title or part of an abstract of title is attached to this contract or has been lent by the vendor to the purchaser before the contract date, the abstract or part is *served* on the contract date.
- 25.4 An abstract of title can be or include a list of documents, events and facts arranged (apart from a will or codicil) in date order, if the list in respect of each document –
- 25.4.1 shows its date, general nature, names of parties and any registration number; and
- 25.4.2 has attached a legible photocopy of it or of an official or registration copy of it.
- 25.5 An abstract of title –
- 25.5.1 must start with a good root of title (if the good root of title must be at least 30 years old, this means 30 years old at the contract date);
- 25.5.2 in the case of a leasehold interest, must include an abstract of the lease and any higher lease;
- 25.5.3 *normally*, need not include a Crown grant; and
- 25.5.4 need not include anything evidenced by the Register kept under the Real Property Act 1900.
- 25.6 In the case of land under old system title –
- 25.6.1 in this contract 'transfer' means conveyance;
- 25.6.2 the purchaser does not have to *serve* the transfer until after the vendor has *served* a proper abstract of title; and
- 25.6.3 each vendor must give proper covenants for title as regards that vendor's interest.
- 25.7 In the case of land under limited title but not under qualified title –
- 25.7.1 *normally*, the abstract of title need not include any document which does not show the location, area or dimensions of the land (for example, by including a metes and bounds description or a plan of the land);
- 25.7.2 clause 25.7.1 does not apply to a document which is the good root of title; and
- 25.7.3 the vendor does not have to provide an abstract if this contract contains a delimitation plan (whether in registrable form or not).
- 25.8 On completion the vendor must give the purchaser any *document of title* that relates only to the *property*.
- 25.9 If on completion the vendor has possession or control of a *document of title* that relates also to other property, the vendor must produce it as and where necessary.
- 25.10 The vendor must give a proper covenant to produce where relevant.
- 25.11 The vendor does not have to produce or covenant to produce a document that is not in the possession of the vendor or a mortgagee.
- 25.12 If the vendor is unable to produce an original document in the chain of title, the purchaser will accept a photocopy from the *Land Registry* of the registration copy of that document.

26 Crown purchase money

- 26.1 This clause applies only if purchase money is payable to the Crown, whether or not due for payment.
 26.2 The vendor is liable for the money, except to the extent this contract says the purchaser is liable for it.
 26.3 To the extent the vendor is liable for it, the vendor is liable for any interest until completion.
 26.4 To the extent the purchaser is liable for it, the *parties* must adjust any interest under clause 14.

27 Consent to transfer

- 27.1 This clause applies only if the land (or part of it) cannot be transferred without consent under *legislation* or a *planning agreement*.
 27.2 The purchaser must properly complete and then *serve* the purchaser's part of an application for consent to transfer of the land (or part of it) *within 7 days* after the contract date.
 27.3 The vendor must apply for consent *within 7 days* after *service* of the purchaser's part.
 27.4 If consent is refused, either *party* can *rescind*.
 27.5 If consent is given subject to one or more conditions that will substantially disadvantage a *party*, then that *party* can *rescind within 7 days* after receipt by or *service* upon the *party* of written notice of the conditions.
 27.6 If consent is not given or refused –
 27.6.1 *within 42 days* after the purchaser *serves* the purchaser's part of the application, the purchaser can *rescind*; or
 27.6.2 *within 30 days* after the application is made, either *party* can *rescind*.
 27.7 Each period in clause 27.6 becomes 90 days if the land (or part of it) is –
 27.7.1 under a *planning agreement*; or
 27.7.2 in the Western Division.
 27.8 If the land (or part of it) is described as a lot in an unregistered plan, each time in clause 27.6 becomes the later of the time and 35 days after creation of a separate folio for the lot.
 27.9 The date for completion becomes the later of the date for completion and 14 days after *service* of the notice granting consent to transfer.

28 Unregistered plan

- 28.1 This clause applies only if some of the land is described as a lot in an unregistered plan.
 28.2 The vendor must do everything reasonable to have the plan registered *within 6 months* after the contract date, with or without any minor alteration to the plan or any document to be lodged with the plan validly required or made under *legislation*.
 28.3 If the plan is not registered *within* that time and in that manner –
 28.3.1 the purchaser can *rescind*; and
 28.3.2 the vendor can *rescind*, but only if the vendor has complied with clause 28.2 and with any *legislation* governing the rescission.
 28.4 Either *party* can *serve* notice of the registration of the plan and every relevant lot and plan number.
 28.5 The date for completion becomes the later of the date for completion and 21 days after *service* of the notice.
 28.6 Clauses 28.2 and 28.3 apply to another plan that is to be registered before the plan is registered.

29 Conditional contract

- 29.1 This clause applies only if a provision says this contract or completion is conditional on an event.
 29.2 If the time for the event to happen is not stated, the time is 42 days after the contract date.
 29.3 If this contract says the provision is for the benefit of a *party*, then it benefits only that *party*.
 29.4 If anything is necessary to make the event happen, each *party* must do whatever is reasonably necessary to cause the event to happen.
 29.5 A *party* can *rescind* under this clause only if the *party* has substantially complied with clause 29.4.
 29.6 If the event involves an approval and the approval is given subject to a condition that will substantially disadvantage a *party* who has the benefit of the provision, the *party* can *rescind within 7 days* after either *party* *serves* notice of the condition.
 29.7 If the *parties* can lawfully complete without the event happening –
 29.7.1 if the event does not happen *within* the time for it to happen, a *party* who has the benefit of the provision can *rescind within 7 days* after the end of that time;
 29.7.2 if the event involves an approval and an application for the approval is refused, a *party* who has the benefit of the provision can *rescind within 7 days* after either *party* *serves* notice of the refusal; and
 29.7.3 the date for completion becomes the later of the date for completion and 21 days after the earliest of –
 • either *party* *serving* notice of the event happening;
 • every *party* who has the benefit of the provision *serving* notice waiving the provision; or
 • the end of the time for the event to happen.

- 29.8 If the *parties* cannot lawfully complete without the event happening –
- 29.8.1 if the event does not happen *within* the time for it to happen, either *party* can *rescind*;
- 29.8.2 if the event involves an approval and an application for the approval is refused, either *party* can *rescind*;
- 29.8.3 the date for completion becomes the later of the date for completion and 21 days after either *party* serves notice of the event happening.
- 29.9 A *party* cannot *rescind* under clauses 29.7 or 29.8 after the event happens.

30 Manual transaction

- 30.1 This clause applies if this transaction is to be conducted as a *manual transaction*.
- **Transfer**
- 30.2 *Normally*, the purchaser must *serve* the transfer at least 7 days before the date for completion.
- 30.3 If any information needed for the transfer is not disclosed in this contract, the vendor must *serve* it.
- 30.4 If the purchaser *serves* a transfer and the transferee is not the purchaser, the purchaser must give the vendor a direction signed by the purchaser personally for that transfer.
- 30.5 The vendor can require the purchaser to include a covenant or easement in the transfer only if this contract contains the wording of the proposed covenant or easement, and a description of the land burdened and benefited.
- **Place for completion**
- 30.6 *Normally*, the *parties* must complete at the completion address, which is –
- 30.6.1 if a special completion address is stated in this contract - that address; or
- 30.6.2 if none is stated, but a first mortgagee is disclosed in this contract and the mortgagee would usually discharge the mortgage at a particular place - that place; or
- 30.6.3 in any other case - the vendor's *solicitor's* address stated in this contract.
- 30.7 The vendor by reasonable notice can require completion at another place, if it is in NSW, but the vendor must pay the purchaser's additional expenses, including any agency or mortgagee fee.
- 30.8 If the purchaser requests completion at a place that is not the completion address, and the vendor agrees, the purchaser must pay the vendor's additional expenses, including any agency or mortgagee fee.
- **Payments on completion**
- 30.9 On completion the purchaser must pay to the vendor the amounts referred to in clauses 16.5.1 and 16.5.2, by cash (up to \$2,000) or *settlement cheque*.
- 30.10 *Normally*, the vendor can direct the purchaser to produce a *settlement cheque* on completion to pay an amount adjustable under this contract and if so –
- 30.10.1 the amount is to be treated as if it were paid; and
- 30.10.2 the *cheque* must be forwarded to the payee immediately after completion (by the purchaser if the *cheque* relates only to the *property* or by the vendor in any other case).
- 30.11 If the vendor requires more than 5 *settlement cheques*, the vendor must pay \$10 for each extra *cheque*.
- 30.12 If the purchaser must make a *GSTRW payment* the purchaser must –
- 30.12.1 produce on completion a *settlement cheque* for the *GSTRW payment* payable to the Deputy Commissioner of Taxation;
- 30.12.2 forward the *settlement cheque* to the payee immediately after completion; and
- 30.12.3 *serve* evidence of receipt of payment of the *GSTRW payment* and a copy of the settlement date confirmation form submitted to the Australian Taxation Office.
- 30.13 If the purchaser must pay an *FRCGW remittance*, the purchaser must –
- 30.13.1 produce on completion a *settlement cheque* for the *FRCGW remittance* payable to the Deputy Commissioner of Taxation;
- 30.13.2 forward the *settlement cheque* to the payee immediately after completion; and
- 30.13.3 *serve* evidence of receipt of payment of the *FRCGW remittance*.

31 Foreign Resident Capital Gains Withholding

- 31.1 This clause applies only if –
- 31.1.1 the sale is not an excluded transaction within the meaning of s14-215 of Schedule 1 to the *TA Act*; and
- 31.1.2 a *clearance certificate* in respect of every vendor is not attached to this contract.
- 31.2 If the vendor *serves* any *clearance certificate* or *variation*, the purchaser does not have to complete earlier than 5 *business days* after that *service* and clause 21.3 does not apply to this provision.
- 31.3 The purchaser must at least 2 *business days* before the date for completion, *serve* evidence of submission of a purchaser payment notification to the Australian Taxation Office by the purchaser or, if a direction under either clause 4.8 or clause 30.4 has been given, by the transferee named in the transfer the subject of that direction.
- 31.4 The vendor cannot refuse to complete if the purchaser complies with clause 31.3 and, as applicable, clauses 4.10 or 30.13.
- 31.5 If the vendor *serves* in respect of every vendor either a *clearance certificate* or a *variation* to 0.00 percent, clauses 31.3 and 31.4 do not apply.

32 Residential off the plan contract

- 32.1 This clause applies if this contract is an off the plan contract within the meaning of Division 10 of Part 4 of the Conveyancing Act 1919 (the Division).
- 32.2 No provision of this contract has the effect of excluding, modifying or restricting the operation of the Division.
- 32.3 If the purchaser makes a claim for compensation under the terms prescribed by sections 4 to 6 of Schedule 3 to the Conveyancing (Sale of Land) Regulation 2022 –
- 32.3.1 the purchaser cannot make a claim under this contract about the same subject matter, including a claim under clauses 6 or 7; and
 - 32.3.2 the claim for compensation is not a claim under this contract.

40, 46 & 52 HULLS RD AND 15 GEORGE RD
LEPPINGTON 2179

ADDITIONAL CONDITIONS

forming part of this Contract for Sale and Purchase

1 DEFINITIONS AND INTERPRETATIONS

1.1 Definitions

In this Contract, unless a contrary intention appears:

“**Authority**” means the Council and any government, administrative, fiscal or judicial body, department, commission, tribunal, agency, Minister, statutory body or entity having jurisdiction and any other competent authority whose consent approval is required in relation to the whole or any part of the Development.

“**Business Day**” means a day on which trading banks are open for general banking business in Sydney.

“**Completion**” means completion of this Contract.

“**Completion date**” means the date for completion as determined under **additional condition 10.1**.

“**Council**” means Camden Council.

“**Development**” means the proposed development of the Land in accordance with the proposed Development Approval.

“**Development Activities**” means any form of works carried out or intended to be carried out by the Vendor to develop the Land which are considered by the Vendor, acting reasonably and in accordance with all requirements of an Authority necessary or desirable, including any works to subdivide and/or consolidate (by any means) land forming part of the Land, any form of demolition work, excavation work or landscaping work on the Land, any form of building work or work ancillary to or associated with building work on the Land including the installation of Services, any works to install infrastructure including Services, any form of civil works including road, drainage and utilities works, the dedication of land forming part of the Land, any similar activities on any other part of the Land and the construction, operation and marketing of display homes.

“**Development Application**” means the Development Application and the plans, certificates, reports and other documents in relation to the proposed development of the Land lodged by the Vendor with the Council.

“**Development Approval**” means a development consent from the relevant Authority including any approvals, certificates, licences, permits, consents and authorisations, which are required or which the Vendor considers necessary or desirable to obtain to develop the Land including to carry out the Development Activities and register the Plan of Subdivision and Plan of Subdivision Instrument, as may be amended from time to time.

“**Guarantor**” means the all the company directors of the corporate Purchaser under the guarantee and indemnity as set out in **additional condition 24**.

“**Land**” means land currently comprised in Lots 1001, 1002, 1003 & 1004 in DP1307503, including any subsequent subdivision, consolidation, or redefinition of those lots.

“**Land Tax Year**” means the period commencing on 1 January in a year and ending at midnight on 31 December of the same year.

“**Plan of Subdivision**” means the unregistered plan of subdivision annexed to this Contract of the Land and associated unregistered Plan of Subdivision Instrument (if any).

“Plan of Subdivision Instrument” means the unregistered plan of subdivision instrument annexed to this contract, setting out terms of easements or profits a pendre intended to be created or released and of restrictions on the user of the land or positive covenants intended to be created pursuant to Section 88B of the Conveyancing Act 1919 in relation to the subdivision of the Land.

“Plans” means the plans relating to the Development.

“Price” means the price of the Property described on the front cover of this Contract.

“Property” means the Property described on the front cover of this Contract.

“Registrar General” means the office of the Registrar General of the NSW Land Registry Services.

“Services” means all water, drainage, sewerage, electricity and telecommunication services passing to and from or through the Property. Gas is not included in this definition.

“Settlement Date” means the actual date on which completion of this Contract occurs.

“Sunset Date” means 15 June 2026 or as may be extended under **additional condition 10.2**.

1.2 Interpretation

In this Contract unless the context otherwise requires:

- 1.2.1 this Contract includes any schedules and annexures to this Contract and where amended means this Contract as so amended.
- 1.2.2 a statute, ordinance, code or other law includes regulations and other instruments under it and consolidations, amendments or re-enactments or replacements of any of them.
- 1.2.3 a person denotes an individual, a firm, a body corporate, an unincorporated association, a joint venture and an authority.
- 1.2.4 a person includes a reference to the persons executors, administrators, successors in title and assigns.
- 1.2.5 where the Purchaser consists of two or more persons this Contract benefits and binds them jointly and severally.
- 1.2.6 if a period of time is specified and dates from a given day or the day of an act or event, it must be calculated exclusive of that day.
- 1.2.7 a day is to be interpreted as the period of time commencing at midnight and ending 24 hours later.
- 1.2.8 if an event must occur on a stipulated day, which is not a Business Day, the stipulated day will be taken to be the next Business Day.
- 1.2.9 a reference to time is a reference Sydney time.
- 1.2.10 headings are inserted for convenience and do not affect the interpretation of this Contract.
- 1.2.11 a reference in this Contract to price amount is a reference to Australian Dollars.

2. THE PURCHASER ACKNOWLEDGEMENTS, REPRESENTATIONS AND WARRANTIES

2.1 The Purchaser acknowledges, represents and warrants that:

- 2.1.1 in entering into this Contract they are relying on their own inspection, knowledge and inquiries and they are not relying in any manner whatsoever on any statement, promise, warranty or representation made by or behalf of the Vendors, its employees or its agent(s) whether oral or in writing other than those expressly contained in this Contract;
- 2.1.2 the Purchaser obtained appropriate independent advice on and is satisfied about:
 - (a) the Purchaser's rights and obligations under this Contract;

- (b) any possible income that may be derived from the Property; and
- (c) the nature of the Property and the purposes for which the Property may lawfully be used.

2.2 This Contract encompasses the entire agreement between the parties involved, overriding any previous negotiations, discussions or documents.

2.3 the Vendor has relied on the correctness of the representations made by the Purchaser in **additional conditions 2.1 and 2.2** in entering into this Contract.

3. NOTICE TO COMPLETE

3.1 If either party is entitled to serve a Notice to Complete making time of the essence then the other shall be entitled at any time thereafter to serve a Notice to Complete, requiring the other to complete within 14 days from the date of service of the notice, and this time period is considered reasonable by both parties. For the purpose of this Contract, such Notice to Complete shall be deemed both at law and in equity sufficient to make time of the essence of this Contract.

3.2 The party serving a Notice to Complete may:

3.2.1 at any time withdraw the Notice to Complete; and

3.2.2 at its election, issue a further Notice to Complete.

3.3 If the Vendor issues a Notice to Complete, the Purchaser must pay to the Vendor on Completion, an amount of \$350.00 plus GST for the legal costs incurred by the Vendor in respect to the issuing a Notice to Complete. This is an essential term of this Contract and the payment of \$350.00 plus GST must be paid on and as a condition of Completion.

4 DEATH, MENTAL ILLNESS, BANKRUPTCY & LIQUIDATION

4.1 Notwithstanding any rule of law or equity to the contrary should the Purchaser prior to Completion:

4.1.1 die or become mentally ill then the Vendor may elect, but is not obliged, to rescind this Contract by notice in writing forwarded to the solicitor for the Purchaser and thereupon this Contract shall be at an end and the provisions of Printed Clause 19 shall apply which rescission deemed to be rescission ab initio; or

4.1.2 be declared bankrupt or enter into any scheme or make any assignment for the benefit of creditors or being a company resolve to go into liquidation or have a petition for its winding up presented or enter into any scheme or arrangement with its creditors under the *Corporations Act 2001* (or similar legislation applicable to that corporation) or should a liquidator, receiver, or official manager be appointed in respect of the Purchaser, then the Purchaser shall be deemed to be in default hereunder and the Vendor shall be at liberty to exercise all or any of the rights conferred hereunder upon the Purchaser's default.

5 NO OBJECTION TO EXISTING EASEMENTS OR RIGHTS

No objection requisition or claim for compensation shall be made by the Purchaser if it should be found that there are any drains, pipes, cables, wires or other installations which are on or pass through or over the Property or which are used in common with any adjoining land or pass through any other land or that there are any easements or rights in respect of such installations affecting the Property.

6 AGENT

The Purchaser warrants that he has not been introduced to the Vendor or to the property by or through the efforts of any real estate agent other than the agent referred to on the front cover of this Contract and hereby indemnifies the Vendor against any claim for commission that might be sought against the

Vendor by any other real estate agent claiming commission as a result of any such introductions. This **additional condition 6** shall not merge on Completion of this Contract.

7 FIRB

7.1 The Purchaser warrants that the provisions of the *Foreign Acquisition and Takeovers Act 1975 (Cth)* as amended, requiring consent from the Commonwealth Treasury do not apply to the Purchaser or to this purchase and further the Purchaser will indemnify the Vendor against any penalties, fines, legal costs, claims loss or damage suffered as a breach of this warranty.

7.2 This **additional condition 7** shall not merge on Completion and is an essential term of this Contract.

8 INTEREST

It is an essential term of this Contract that in the event that Completion does not take place within the time stipulated herein, then the Purchaser shall pay to the Vendor on Completion by way of additional purchase Price in addition to the balance of purchase Price unpaid as at the Completion Date and other moneys payable to the Vendor, interest on the balance of Price unpaid as at the Completion Date calculated at the rate of 10% per annum for the period from and excluding the date specified herein as the Completion Date and calculated up to and including the Settlement Date PROVIDED HOWEVER that should Completion at any time be delayed by reason of the Vendor's default, then interest shall not be charged for the period during which Completion was so delayed.

9 AMENDMENTS TO PRINTED CONDITIONS

9.1 Amendments to Printed Clauses:

9.1.1 Clause 7.1.1 is deleted.

9.1.2 Clause 14.4.2 is deleted.

9.1.3 Clauses 28 and 29 are deleted.

10. COMPLETION, SUNSET DATE, PLAN OF SUBDIVISION AND ALTERATIONS

10.1 The Completion Date will be the later of:

10.1.1 The date which is 42 days from the Contract date; and

10.1.2 The date which is 21 days after the Vendor serves notice of registration of the Plan of Subdivision by NSW Land Registry Services to the Purchaser and provides the Purchaser with a copy of the registered Plan of Subdivision and Plan of Subdivision Instrument.

10.2 The Vendor may serve a notice extending the Sunset Date if the Vendor, or other consultants involved in the Development are delayed by reason of any matter or cause beyond the Vendor's control including, without limitation, delays in obtaining approvals from the relevant authorities, delays caused by inclement weather, civil commotion, strikes, suppliers of materials, loan facility approval for development funding, or any other occurrence concerning the Development provided that the Sunset Date cannot be extended by more than 12 months. The Vendor can serve more than one notice extending the Sunset Date.

10.3 This Contract is subject to and conditional upon the registration with NSW Land Registry Services of the Plan of Subdivision and Plan of Subdivision Instrument on or before the Sunset Date.

10.4 Should the Plan of Subdivision and Plan of Subdivision Instrument not be registered by the Sunset Date, either party shall be entitled to rescind this Contract by notice in writing to the other party whereupon the provisions of Printed Clause 19 shall apply provided however that the Vendor shall use its best endeavours to complete all necessary work and to do all such acts as may be required to obtain

the registration of the Plan of Subdivision and Plan of Subdivision Instrument quickly as possible.

- 10.5 Subject to **additional condition 10.9**, the Purchaser shall make no requisition and/or objection and/or claim for compensation nor shall they be entitled to delay Completion in relation to any minor variation between the Plan of Subdivision and Plan of Subdivision Instrument annexed to this Contract and the Plan of Subdivision and Plan of Subdivision Instrument as registered.
- 10.6 The Vendor reserves the right to make such additions, alterations or amendments to the Plan of Subdivision and Plan of Subdivision Instrument as the Vendor may deem necessary or as required by a relevant Authority, provided that:
 - 10.6.1 the Purchaser shall not make any objection, requisition or claim in respect of minor alterations or variations to the subject lot, the number, size and location;
 - 10.6.2 subject to **additional condition 10.9**, if any such alteration, variation or amendment is other than minor the Purchaser shall have seven (7) days from notice of service of the registration of the Plan of Subdivision and Plan of Subdivision Instrument to rescind this Contract, and in such a case the provisions of Printed Clause 19 shall apply. Should the Purchaser not so elect to rescind this Contract within the said seven (7) days, (in which regard time is of the essence), then the Purchaser shall have waived their right of rescission under this **additional condition 10.6.2** and shall be deemed to have accepted such alteration, variation or amendment to the lot hereby sold.
- 10.7 Subject to **additional condition 10.9**, for the purposes of this **additional condition 10.7**, a minor variation alteration or amendment shall include a variation, alteration or amendment having the effect of varying the area of the subject lot from that contained in the Plan of Subdivision by not more than 2.5%.
- 10.8 The Purchaser acknowledges that the title to the Land and/or the proposed lots may be affected, benefited or amended by any one or more of the following:
 - 10.8.1 redefinition of the boundaries of the Land;
 - 10.8.2 minor road re-alignment or dedication.
- 10.9 With reference to the Plan of Subdivision Instrument:
 - 10.9.1 the Vendor may make all such alteration, additions, deletions or modification to the Plan of Subdivision Instrument which the Vendor considers necessary or desirable provided that same does not detrimentally affect, to an extent which is substantial, the Purchaser's reasonable use and enjoyment of the Property;
 - 10.9.2 subject to **additional condition 10.9.3** if the Vendor makes alteration, additions, deletions or modifications to the Plan of Subdivision Instrument, the Purchaser cannot make a claim, objection or requisition or rescind or terminate because of those alterations, additions, deletions or modifications;
 - 10.9.3 if there are any alterations, additions, deletions or modifications to the Plan of Subdivision Instrument which substantially and detrimentally affect the Property to an extent which is on reasonable grounds other than minor, the Purchaser can rescind this Contract by written notice served on the Vendor in which event Printed Clause 19 will apply;
 - 10.9.4 the right of rescission conferred by **additional condition 10.9.3** must, if exercised, be exercised within seven (7) days of the right of rescission accruing, (time in this respect is of the essence of this Contract). The right of rescission conferred by **additional condition 10.9.3** accrues on the day on which the Vendor serves notice that the Plan of Subdivision is registered.
- 10.10 Despite any other provision of this Contract, if the Plan of Subdivision and Plan of Subdivision Instrument, as registered, are affected or amended only as contemplated in this **additional condition 10**, then the Plan of Subdivision and Plan of Subdivision Instrument will be deemed to be substantially in the form annexed to this Contract for all the purposes of this **additional condition 10**.

11. WORKS

The Vendor must, prior to completion of this Contract, cause the Land to be developed in a proper and workmanlike manner in general accordance with the Development Approval.

12. PURCHASER'S CAVEAT

The Purchaser must not lodge a caveat for notation on the title on any part of the Land of which the Property forms part before registration of the Plan of Subdivision.

13. COUNCIL RATES

13.1 If at Completion separate assessment for Council rates have not been issued for the Property for the period current at that date, then the parties agree to adjust on the amount of \$1,750.00 per annum on an unpaid with a Vendor allowance by way of an adjustment in favour of the Purchaser on Completion for the period being from the date of registration of the Plan of Subdivision to the date of Completion.

13.2 The parties agree that no regard shall be had to any actual assessment subsequently issued.

13.3 The Purchaser acknowledges that it must be responsible to pay for actual Council rate assessments when they issue.

14. LAND TAX

14.1 If at Completion separate assessment for land tax charge have not been issued for the Property for the period current at that date, then the parties agree to adjust on the amount of \$2,750.00 per annum on a paid basis with a Purchaser allowance by way of an adjustment in favour of the Vendor on Completion for the period being from the date of Completion to the end of the Land Tax Year.

14.2 The parties agree that no regard shall be had to any actual assessment subsequently issued.

14.3 The Purchaser's contribution to land tax is capped at \$1,500.00.

15. SELLING AND LEASING ACTIVITIES

15.1 The Purchaser acknowledges that both before, during and after Completion the Vendor and the persons authorised by the Vendor are entitled to and will:

15.1.1 conduct selling activities on the Land (but not on the Property);

15.1.2 place and maintain on, or and about the Land (but not on the Property) signs in connection with those selling activities; and

15.1.3 place and maintain on, or and about the Land (but not on the Property) an office or other facility or both for salespersons.

16. BENEFITS OF CERTAIN AGREEMENTS TO CONTINUE AFTER COMPLETION

The parties acknowledge that the benefit of the provisions of this Contract having application after Completion continue to apply notwithstanding Completion.

17. CONDITIONAL UPON DEVELOPMENT APPROVAL

17.1 The Purchaser acknowledges that the Vendor is to obtain from Council a development consent relating to the Land and has or will, after the date of this Contract, lodge with Council and any other relevant

Authority all necessary applications for Development Consent.

- 17.2 The Vendor undertakes to pursue the Applications with all due diligence and use its best endeavours to secure consent.
- 17.3 This Contract and Completion of it by the Vendor is subject to and conditional upon the Vendor obtaining consent to the Development Application on terms and conditions all of which must be found satisfactorily to the Vendor at its sole and absolute discretion.
- 17.4 If the Applications have not been consented to by Council or by any other relevant Authority whose consent is required to accompany the Development Application, or the terms or conditions of consent issued with respect to any Applications are not acceptable to the Vendor and any unacceptable conditions have not been altered so as to be acceptable to the Vendor by the Sunset Date, then either party may, by notice in writing to the other but before the issue of a consent which is acceptable to the Vendor in respect of the Applications, rescind this Contract whereupon the provisions of Printed Clause 19 shall apply.

18. DISCHARGE OF MORTGAGE

Upon Completion the Vendor will hand to the Purchaser a proper form of discharge or partial discharge of mortgage or withdrawal or partial withdrawal of caveat (as the case may be) in registered form in respect of any mortgage or caveat registered on the title to the Property and will allow the Purchaser the registration fees payable on any such discharge of mortgage or withdrawal of caveat. The Purchaser shall make no requisition or objection requiring the registration of such discharge of mortgage or withdrawal of caveat prior to Completion.

19. GOODS AND SERVICES TAX (GST)

- 19.1 .For the purposes of this **additional condition 19** and the Contract, the expression "Goods and Services Tax" or "GST" shall mean any goods and services tax, consumption tax, value added tax or similar tax payable under *A New Tax System (Goods and Services Tax) Act 1999* and includes any Act or Regulation that deals with GST, whether at a point of sale or some other specified occurrence.
- 19.2 The Price is inclusive of GST.
- 19.3 The Vendor and the Purchaser agree to utilise the margin scheme in paying GST in respect of the taxable supply under this Contract.
- 19.4 The Purchaser agrees that:
- 19.4.1 the Purchaser will not be entitled to claim an input tax credit in respect of the GST payable by the Vendor; and
 - 19.4.2 the Vendor is not required to give the Purchaser a tax invoice.
- 19.5 This **additional condition 19** shall not merge on Completion.

20. REQUISITIONS ON TITLE

- 20.1 The Purchaser acknowledges that the only general requisitions on title that the Purchaser is entitled to raise pursuant to Printed Clause 5 are those Standard Requisitions attached to this Contract.
- 20.2 In this clause "Standard Requisitions" means the form of requisitions on title annexed to this Contract.

21. ELECTRONIC CONTRACT

21.1 The parties agree that this Contract is to be:

- 21.1.1 exchanged using an electronic exchange platform or otherwise the Purchaser must submit by email a scanned copy of the Purchaser's signed Contract and neither party will require an original wet-signed copy of the Contract; and
- 21.1.2 completed electronically pursuant to Printed Clause 4.

22. SERVICES

22.1 The Purchaser may not make any objection, requisition, claim or delay, rescind or terminate on the basis of the position or proposed position of Services including where Services for the Property pass through any other Property or where Services for any other Property pass through the Property.

22.2 On or after Completion, the following services will be available to the Property for connection by the Purchaser:

- 22.2.1 Electricity;
- 22.2.2 Water and wastewater (sewer); and
- 22.2.3 Telecommunication (NBN).

22.3 The Vendor is not liable for any costs associated with connecting the above services.

23. AMENDMENTS TO CONTRACT

23.1 The Vendor is not responsible for replacing any survey pegs removed from the Property.

23.2 The parties authorize their lawyers or conveyancers to act as their agents to agree to variations to the Contract after it has been executed by a party.

24. GUARANTEE AND INDEMNITY

In this **additional condition 24**, the word "guarantor" shall mean the persons named on the signing page of this Contract and who must sign this Contract, as guarantors (hereinafter after called "the Guarantor"). In consideration of the Vendor Contracting with the corporate Purchaser, the Guarantor guarantees the performance by the Purchaser of the Purchaser's obligations under the Contract and indemnifies the Vendor against any loss suffered or costs incurred as a result of any default by the Purchaser in its obligations under the Contract. The Guarantor is jointly and severally liable with the Purchaser under the Contract and the Vendor can take action against the Guarantor before, or at the same time as, taking action against the Purchaser. This guarantee is binding on the Guarantor, their executors, administrators, and assignees. If the Vendor assigns any benefit under the Contract then this guarantee is available to the assignee.

25. NO ASSIGNMENT OR TRANSFER BY THE PURCHASER

The Purchaser's interest in this Contract may not be assigned or transferred and the Purchaser cannot nominate another party or direct the Vendor to transfer the Property to another party before completion of this Contract.

26. INCONSISTENCY

If there is any inconsistency between these **additional conditions** and the printed clauses of the standard form of Contract, these **additional conditions** prevail.

27. VENDOR AS TRUSTEE

27.1 If the Vendor acts as a trustee, then the following provisions apply:

- 27.1.1 The Vendor acts as a trustee for the beneficial owners of the Property and not in its own right. The Purchaser agrees that should they for any reason be entitled to recover any sum from the Vendor then the Vendor will not be personally liable but will only be liable to the extent of the amount that the Vendor recovers from the trust by virtue of the trustee's indemnity therein;
- 27.1.2 The Vendor enters into this Contract in its capacity as trustee of a trust only and in no other capacity. A liability arising under or in connection with this Contract can be enforced against the Vendor or only to the extent to which it can be satisfied out of property of the trust out of which the Vendor is actually indemnified for the liability. This limitation of Vendor's liability applies despite any other provision of this Contract and extends to all liability and obligations of the Vendor or in any way connected with any representation, warranty, conduct, or mission, agreements or transaction related to this Contract;
- 27.1.3 The parties other than the Vendor may not sue the Vendor personally or seek the appointment of a liquidator, administrator, receiver or similar person to the Vendor or prove in any liquidation administration or arrangement affecting the Vendor.

27.2 The provisions of this **additional condition 27** do not apply to the obligation or liability of the Vendor to the extent that it is not satisfied because under the trust deed establishing the trust or by operation of law there is a reduction in the extent of the Vendor's indemnification out of the assets of the trust, as a result of the Vendor's fraud, negligence or breach of trust.

27.3 The Purchaser cannot make a claim, objection or requisition or rescind or terminate or delay completion in respect of the subject matter or determination referred to in this **additional condition 27**.

27.4 This **additional condition 27** shall not merge on Completion.

28. VENDOR DISCLOSURE

28.1 The Vendor discloses, and the Purchaser acknowledges, the following:

- 28.1.1 Easements and Other Matters: The Vendor discloses the potential need to register a covenant for the Council and the possibility of creating easements, usage restrictions, or other agreements required by Authorities.
- 28.1.2 Selling Activities: The Vendor discloses the right to conduct sales activities, install signs, and hold events on the Land before, during and after Completion (but not the Property).
- 28.1.3 Electrical Substation: The Vendor discloses the potential need for an electrical substation on the Land and the rights of Authorities or electricity providers regarding its installation.
- 28.1.4 Sewer and Water Mains: The Vendor discloses the availability of sewer connections, possible changes to sewer positions, and the Purchaser confirms its acknowledgment of such changes.
- 28.1.5 Retaining Walls: The Vendor discloses the possible presence of retaining walls, their potential variation, and the Purchaser confirms its waiver of claims against the Vendor.
- 28.1.6 Section 4.55 Application: The Vendor may seek modifications to the Development Approval.
- 28.1.7 Section 88B/88E Instrument: The Vendor discloses the potential creation of positive covenants or land use restrictions, burdening the property and the Purchaser confirms its acknowledgement with maintaining stormwater facilities if necessary.
- 28.1.8 Commencement and Completion: The Vendor determines the Development of the Land in staged timeline.
- 28.1.9 Staged Subdivision and Works: The Vendor will conduct Development Activities in stages, which may cause disruptions to the Property.
- 28.1.10 Street Address: The street name and number may be subject to change according to Council requirements on completion.
- 28.1.11 The Vendor discloses and the Purchaser acknowledges that the Vendor may have done or do earthworks on the Property in preparing the Land for subdivision and this may have filled, raised, levelled or cut some of the Property.
- 28.1.12 The Vendor is not required to construct any dividing fences and/or retaining walls between the property and any other adjoining land;
- 28.1.13 The Purchaser is responsible for the cost of constructing any dividing fences and/or retaining walls between the property and any other adjoining land;
- 28.1.14 The Vendor may peg out the property however the Purchaser cannot rely on the Vendor and the Vendor will not be responsible for the accuracy or preservation of the pegs or survey marks on the property;
- 28.1.15 **Additional conditions 28.1.12 to 28.1.14 shall not merge on Completion.**

28.2 The Purchaser shall not requisition, delay completion, rescind, terminate, claim or object about any matter arising from the matters disclosed in this **additional condition 28**.

29. DEVELOPMENT DISCLOSURE

29.1 The Vendor discloses, and the Purchaser acknowledges, that the Vendor intends to:

29.1.1 carry out Development Activities on the Land substantially in accordance with the Development Approval;

29.1.2 (but is not obliged) create easements, restriction on use and positive covenants, including those set out in the Plan of Subdivision and Plan of Subdivision Instrument;

29.1.3 register the following documents:

- (1) The Plan of Subdivision.
- (2) The Plan of Subdivision Instrument (if required); and
- (3) Any other document considered necessary or appropriate or that is required by a relevant Authority;

29.1.4 Before and after Completion (excluding the subject property):

- (1) Conduct development, construction, selling activities on the Land;
- (2) Place and maintain on the Land signs in connection with selling activities;
- (3) Place and maintain on, or use any part of, the Land as a stall, office or facility for salespersons, as the Vendor in its absolute discretion deems fit;
- (4) Create and conduct an Exhibition Home Village on lots 101 to 149 which forms part of the Land.

29.2 The Purchaser shall not requisition, delay completion, rescind, terminate, claim or object about any matter arising from the matters disclosed in this **additional condition 29**.

30. REPORTS

30.1 The Vendor discloses, and the Purchaser acknowledges, that the attached documents listed below are provided for informational purposes only. These documents contain information specific to the Land concerning the Development Approval and will be submitted to the Council for assessment as part of the Development Application to obtain Development Approval. The Council will likely impose building covenants and conditions on the Property title, requiring the implementation of acoustic and bushfire attenuation measures, salinity management measures, and restrictions related to building envelopes for the lots in the Plan of Subdivision. The Purchaser's attention is directed to the proposed terms intended to be imposed by the Council, which are substantially in the form outlined in the Plans and Plan of Subdivision Instrument.

- (a) Traffic Noise Assessment Report;
- (b) Bushfire Assessment Report;
- (c) Salinity Management Plan Report;
- (d) Building Envelope Plans.

30.2 The Purchaser shall not requisition, delay completion, rescind, terminate, claim or object about any matter arising from the matters disclosed in this **additional condition 30**.

31. VARIOUS

31.1 Governing law

This Contract is governed by the laws of New South Wales. Each party submits to the jurisdiction of the courts of New South Wales in relation to all matters arising under this Contract.

31.2 Severance

If any provision of this Contract is or becomes invalid or not enforceable in accordance with its terms, all other provisions which are self-sustaining and capable of separate enforcement without regard to the invalid or unenforceable provision will be and continue to be valid and enforceable in accordance with their terms.

31.3 Variation

Any variation of this Contract must be in writing and agreed in writing by the parties.

31.4 Further assurance

Each party must take all steps, execute all documents and do everything reasonably required by any other party to give effect to the transactions contemplated by this Contract.

31.5 Power of attorney

Each person who executes this Contract (or any document arising in relation to this Contract) on behalf of a party under a power of attorney declares that he or she is not aware of any fact or circumstance that might affect his or her Authority to do so.

31.6 Waiver

Waiver of a breach or of any right of election arising from a breach of this Contract must be in writing and signed by the party granting the waiver. A right of election arising from a breach of this Contract is not waived by any failure to or delay in the exercise, or partial exercise, of that right of election or any other right.

32. NOTICES

32.1 Form of Notices

Any notice or communication required to be given under this Contract (Notice) must be:

- (a) in legible writing;
- (b) signed by the party giving it (Sender) or by its Authorised Representative;
- (c) delivered by hand or sent by post (air mail if sent to an address in another country) to the relevant address set out on the front page of this Contract;
- (d) sent by fax to the relevant fax number set out on the front page of this Contract; or
- (e) if the parties have expressly agreed that email is to be used for the purpose of giving notices, emailed to the relevant email address notified from time to time to the other party for that purpose.

32.2 Change of details

A party may change its address, fax number or email address for the purpose of notices by notifying the other party of that change in accordance with the provisions of **additional condition 32.1**.

32.3 Service of notices

Notices are taken to be given:

- (a) in the case of delivery by hand, when delivered;
- (b) in the case of delivery by post, on the third (seventh, if sent to an address in another country) day after the date of posting;
- (c) in the case of delivery by fax, at the time shown on a transmission report by the machine from which the fax was sent which indicates that the fax communication was sent at that time, in its entirety and without error to the fax number of the recipient; and
- (d) in the case of delivery by email, when sent, unless the sender is notified, by a system or person involved in the delivery of the email, that the email was not successfully sent.

32.4 Timing of notices by fax or email

If a notice by fax or email is given:

- (a) on a day in which business is not generally carried on in the place in which the fax or email is received; or
- (b) after 5.00 pm (local time) on a day in which business is generally carried on in the place in which the fax or email is received,

the notice will be taken to have been given at the commencement of business on the next day in which business is generally carried on in the place in which the fax or email is received.

33. DEPOSIT

The parties agree that the deposit required under this Contract is equivalent to 10% of the Price due and payable on the date of this Contract or as otherwise agreed in writing by the parties.

34. RESALE

- (1) The Purchaser acknowledges and agrees that the Purchaser will not, without the Vendor's prior written consent:
 - (a) Advertise or offer to sell the property; or
 - (b) Enter into, or purport to enter into, any contract, deed or agreement to sell the property (whether by contract for sale, call option, put option, put and call option, transfer or any other arrangement), to any other person before completion of this Contract.
- (2) If the Purchaser does not comply with this additional condition 34(1), the Vendor may sue the Purchaser for damages or exercise its rights under Printed Clause 9 of this Contract.

35. DISCLOSURE DOCUMENTS

The Purchaser acknowledges that at the time it executed this Contract, the following documents were annexed hereto:

- Title search for Folios: 1001/1307503, 1002/1307503, 1003/1307503 & 1004/1307503
- Deposited Plan 1307503
- Dealings noted in the Title Searches
- Section 10.7(2) Certificates
- Sewer Service Information
- Requisitions on Title
- Disclosure Statement
- Draft Plan of Subdivision and Plan of Subdivision Instrument
- Copy of Reports and Other Documents:
 - Sewer Developer Contract Plan
 - Traffic Noise Assessment Report dated 29 February 2024
 - Bushfire Assessment Report dated 13 May 2022
 - Salinity Management Plan Report dated 1 November 2022
 - Building Envelope Plans dated 17 November 2023

36. Deposit Payable by Instalments

(1) Amount of Deposit

The parties acknowledge that the deposit required under this Contract is 10% of the Price (“the Deposit”).

(2) Instalment Arrangement

Notwithstanding any other provision of this Contract, and for the purposes of clause 2.3, the Purchaser agrees to pay the Deposit by way of instalments, each payable on its due date as follows (each an “Instalment”):

Instalment	Amount	Due Date	Description
1st Instalment	5% of the Price	On the date of this Contract	Part Deposit
2 nd Instalment	5% of the Price	On the Completion Date	Balance Deposit

(3) Manner of Payment and Time Essential

Each Instalment must be paid in cleared funds to the Depositholder by the Due Date specified in clause 36(2). Time is of the essence for every Instalment.

(4) Default in Payment of an Instalment

If the Purchaser fails to pay any part of an Instalment when due, the Purchaser is in breach of an essential term and, without limiting any other right or remedy, the Vendor may:

- (a) immediately terminate this Contract, without prior notice and without the need to first serve a notice to complete or to remedy; and
- (b) forfeit and retain as the Vendor’s absolute property any Instalment or part of the Deposit already paid; and
- (c) recover from the Purchaser, as a liquidated debt immediately due and payable, the balance (if any) required to make the Deposit equal to 10% of the Price, together with any interest and costs payable under this Contract or otherwise recoverable at law or equity.

(5) No Waiver by Acceptance of Part Deposit

The Purchaser acknowledges and agrees that the Vendor’s acceptance of less than the full 10% Deposit on the date of this Contract does not constitute a waiver or release of the Vendor’s entitlement to receive the full 10% Deposit in accordance with this Contract or upon termination.

(6) Survival of Rights

- (a) The Vendor’s entitlement under this clause 36 operates independently of any rights the Vendor may have to damages or other remedies; and
- (b) The obligations and rights in this clause 36 survive termination of this Contract to the extent necessary to allow the Vendor to enforce its entitlement to the full 10 % Deposit and any other accrued rights.



FOLIO: 1001/1307503

SEARCH DATE	TIME	EDITION NO	DATE
-----	----	-----	----
14/4/2025	11:29 AM	1	31/7/2024

LAND

LOT 1001 IN DEPOSITED PLAN 1307503
AT LEPPINGTON
LOCAL GOVERNMENT AREA CAMDEN
PARISH OF COOK COUNTY OF CUMBERLAND
TITLE DIAGRAM DP1307503

FIRST SCHEDULE

HULLS ROAD 52 PTY LTD

SECOND SCHEDULE (4 NOTIFICATIONS)

- 1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
- 2 H313552 COVENANT
- 3 J946972 EASEMENT FOR TRANSMISSION LINE 60.96 METRE(S) WIDE
AFFECTING THE PART(S) SHOWN SO BURDENED IN THE TITLE
DIAGRAM
0701820 EASEMENT NOW VESTED IN NEW SOUTH WALES
ELECTRICITY TRANSMISSION AUTHORITY
- 4 AS850265 MORTGAGE TO NATIONAL AUSTRALIA BANK LIMITED

NOTATIONS

UNREGISTERED DEALINGS: PP DP1292147 PP DP1306904 PP DP1308890.

*** END OF SEARCH ***



FOLIO: 1002/1307503

SEARCH DATE	TIME	EDITION NO	DATE
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14/4/2025	1:59 PM	1	31/7/2024

LAND

LOT 1002 IN DEPOSITED PLAN 1307503
AT LEPPINGTON
LOCAL GOVERNMENT AREA CAMDEN
PARISH OF COOK COUNTY OF CUMBERLAND
TITLE DIAGRAM DP1307503

FIRST SCHEDULE

HULLS ROAD 52 PTY LTD

SECOND SCHEDULE (3 NOTIFICATIONS)

- 1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
- 2 J946972 EASEMENT FOR TRANSMISSION LINE 60.96 METRE(S) WIDE
AFFECTING THE PART(S) SHOWN SO BURDENED IN THE TITLE
DIAGRAM
0701820 EASEMENT NOW VESTED IN NEW SOUTH WALES
ELECTRICITY TRANSMISSION AUTHORITY
- 3 AU34711 MORTGAGE TO NATIONAL AUSTRALIA BANK LIMITED

NOTATIONS

UNREGISTERED DEALINGS: PP DP1292147 PP DP1308890.

*** END OF SEARCH ***



FOLIO: 1003/1307503

SEARCH DATE	TIME	EDITION NO	DATE
14/4/2025	2:00 PM	1	31/7/2024

LAND

LOT 1003 IN DEPOSITED PLAN 1307503
AT LEPPINGTON
LOCAL GOVERNMENT AREA CAMDEN
PARISH OF COOK COUNTY OF CUMBERLAND
TITLE DIAGRAM DP1307503

FIRST SCHEDULE

HULLS ROAD 52 PTY LTD

SECOND SCHEDULE (4 NOTIFICATIONS)

- 1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
- 2 H313546 COVENANT
- 3 J946972 EASEMENT FOR TRANSMISSION LINE 60.96 METRE(S) WIDE
AFFECTING THE PART(S) SHOWN SO BURDENED IN THE TITLE
DIAGRAM
0701820 EASEMENT NOW VESTED IN NEW SOUTH WALES
ELECTRICITY TRANSMISSION AUTHORITY
- 4 AT376865 MORTGAGE TO NATIONAL AUSTRALIA BANK LIMITED

NOTATIONS

UNREGISTERED DEALINGS: PP DP1292147 PP DP1308890.

*** END OF SEARCH ***



FOLIO: 1004/1307503

SEARCH DATE	TIME	EDITION NO	DATE
-----	----	-----	----
14/4/2025	2:00 PM	1	31/7/2024

LAND

LOT 1004 IN DEPOSITED PLAN 1307503
AT LEPPINGTON
LOCAL GOVERNMENT AREA CAMDEN
PARISH OF COOK COUNTY OF CUMBERLAND
TITLE DIAGRAM DP1307503

FIRST SCHEDULE

HULLS ROAD 52 PTY LTD

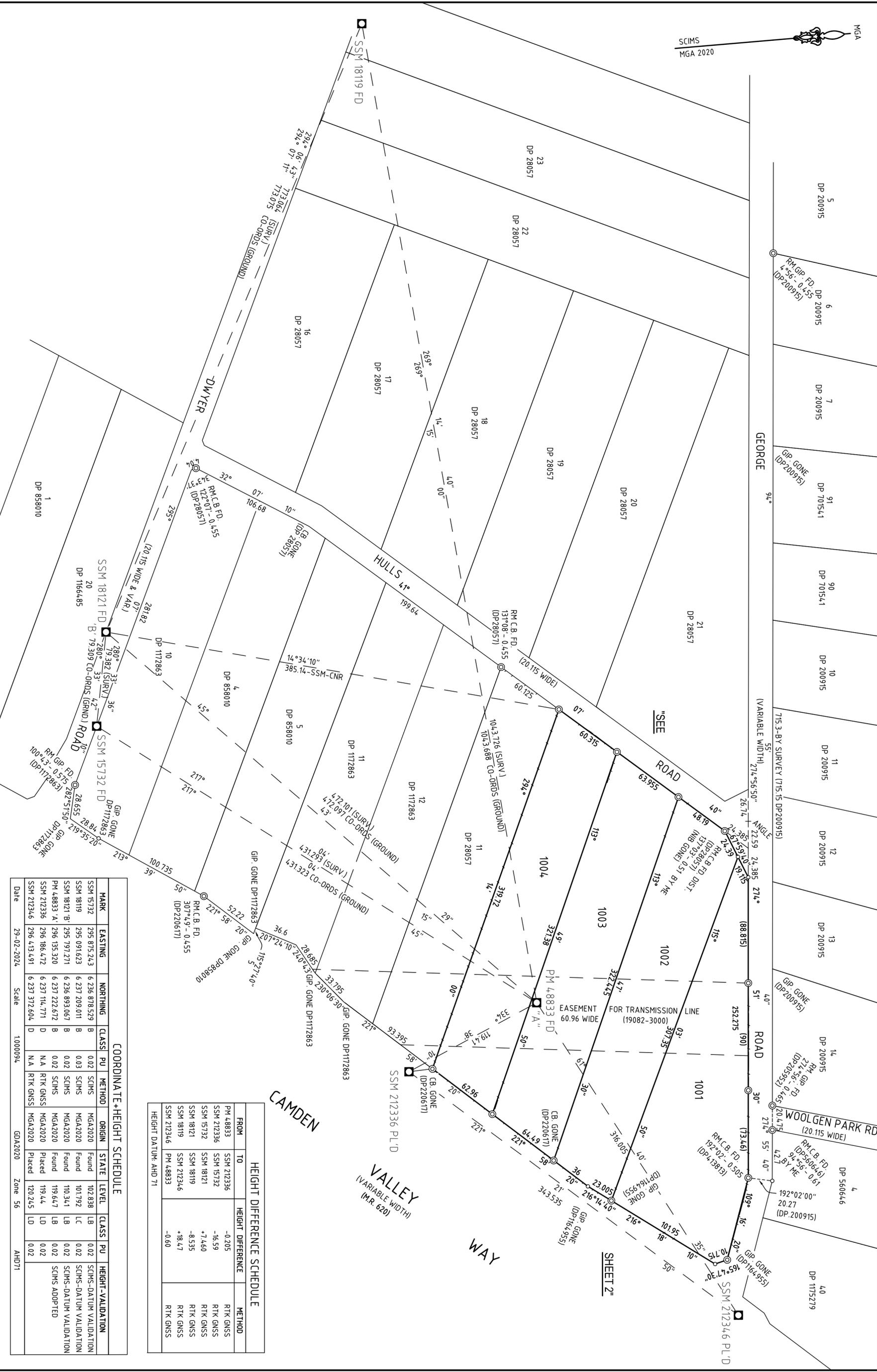
SECOND SCHEDULE (3 NOTIFICATIONS)

- 1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
- 2 J946972 EASEMENT FOR TRANSMISSION LINE 60.96 METRE(S) WIDE
AFFECTING THE PART(S) SHOWN SO BURDENED IN THE TITLE
DIAGRAM
0701820 EASEMENT NOW VESTED IN NEW SOUTH WALES
ELECTRICITY TRANSMISSION AUTHORITY
- 3 AT580257 MORTGAGE TO NATIONAL AUSTRALIA BANK LIMITED

NOTATIONS

UNREGISTERED DEALINGS: PP DP1292147 PP DP1308890.

*** END OF SEARCH ***



HEIGHT DIFFERENCE SCHEDULE

FROM	TO	HEIGHT DIFFERENCE	METHOD
PM 48833	SSM 212336	-0.205	RTK GNSS
SSM 212336	SSM 15732	-16.59	RTK GNSS
SSM 15732	SSM 18121	+7.460	RTK GNSS
SSM 18121	SSM 18119	-8.535	RTK GNSS
SSM 18119	SSM 212346	+18.47	RTK GNSS
SSM 212346	PM 48833	-0.60	RTK GNSS

HEIGHT DATUM: AHD 71

COORDINATE+HEIGHT SCHEDULE

MARK	EASTING	NORTHING	CLASS	PU	METHOD	ORIGIN	STATE	LEVEL	CLASS	PU	HEIGHT-VALIDATION
SSM 15732	295 875.243	6 236 878.529	B	0.02	SCIMS	MGA2020	Found	102.838	LB	0.02	SCIMS-DATUM VALIDATION
SSM 18119	295 091.623	6 237 209.011	B	0.03	SCIMS	MGA2020	Found	101.792	LC	0.02	SCIMS-DATUM VALIDATION
SSM 18121 'B'	295 797.271	6 236 893.067	B	0.02	SCIMS	MGA2020	Found	110.341	LB	0.02	SCIMS-DATUM VALIDATION
PM 48833 'A'	296 135.320	6 237 222.672	B	0.02	SCIMS	MGA2020	Found	119.647	LB	0.02	SCIMS ADOPTED
SSM 212336	296 186.472	6 237 114.771	D	N.A.	RTK GNSS	MGA2020	Placed	119.44	LD	0.02	
SSM 212346	296 413.491	6 237 372.604	D	N.A.	RTK GNSS	MGA2020	Placed	120.245	LD	0.02	

Date: 29-02-2024 Scale: 1:100094 GDA2020 Zone 56 AHD71

SURVEYOR: PHILIP D. YOUDALE
 OF YOUDALE STRUDWICK & CO. PTY LTD
 of Suite 4, 114 Hampden Road, Ararat
 Date of Survey: 06 JUNE, 2024
 Reference: 3721-REDEF-DP

PLAN OF REDEFINITION OF LOTS 6 & 7 IN DP 858010 & LOTS 10 & 11 IN DP 1164955

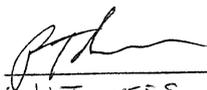
LGA: CAMDEN
 Locality: LEPINGTON
 Reduction Ratio: 1:2000
 Lengths are in metres

Registered
 31/07/2024

DP1307503

Plan Form 6_Digital (2021)		Deposited Plan Administration Sheet Sheet 1 of 4	
Registered  31/07/2024 <small>OFFICE USE ONLY</small>		<h1>DP1307503</h1>	
Title System TORRENS			
Plan of Redefinition of lots 6 - 7 in DP858010 and lots 10 - 11 in DP1164955		LGA CAMDEN LOCALITY LEPPINGTON PARISH COOK COUNTY CUMBERLAND	
Survey Certificate Survey		Crown Lands NSW/Western Lands Office Approval	
I, Philip Youdale of YOUDALE STRUDWICK & CO. PTY. LTD. of Suite 4, 114 Hampden Road, Artarmone, a surveyor registered under Surveying and Spatial Information Act 2002, certify that: The land shown in the plan was surveyed in accordance with the Surveying and Spatial Information Regulation 2017, is accurate and the survey was completed on: 06/06/2024		I, <input type="text"/> (Authorised Officer) in approving this plan certify that all necessary approvals in regard to the allocation of the land shown herein have been given. Signature <input type="text"/> Date <input type="text"/> File Number <input type="text"/> Office <input type="text"/>	
Urban/Rural Urban Datum Line 'A' - 'B' Signature Electronically signed via NSW LRS Connect by Philip Youdale, dated 01/07/2024 04:32 PM. Surveyor Identification No. SU002502 <small>Surveyor registered under the Surveying and Spatial Information Act 2002.</small>		Subdivision Certificate (Check One) <input type="checkbox"/> Authorised Person <input type="checkbox"/> General Manager <input type="checkbox"/> Registered Certifier I, <input type="text"/> certify that the provisions of 6.15 of the <i>Environmental Planning and Assessment Act 1979</i> have been satisfied in relation to the proposed subdivision, new road or reserve set out herein. Signature <input type="text"/> Consent Authority <input type="text"/> Date of Endorsement <input type="text"/> Subdivision Certificate Number <input type="text"/> File Number <input type="text"/>	
Plans Used in the preparation of this survey DP28057, DP200915, DP205952, DP220617, DP560646, DP701541, DP858010, DP1164955, DP1166485, DP1172863, DP1175279		Statement of intention to dedicate public roads, create public reserves and drainage reserves, acquire/resume land. <input type="text"/>	
Surveyor's Reference 3721-REDEF-DP		Signatures, Seals and Section 88B Statements should appear on the following sheet(s)	

Plan Form 6_Digital (2021)	Deposited Plan Administration Sheet	Sheet 3 of 4
Registered  31/07/2024 OFFICE USE ONLY	DP1307503	
Plan of Redefinition of lots 6 - 7 in DP858010 and lots 10 - 11 in DPT164955	This sheet is for the provision of the following information as required: <ul style="list-style-type: none">• A schedule of lots and addresses - See 60(c) SSI Regulation 2017• Statements of intention to create and release affecting interests in accordance with section 88B Conveyancing Act 1919• Signatures and seals- see 195D Conveyancing Act 1919• Any information which cannot fit in the appropriate panel of sheet 1 of the administration sheets.	
Subdivision Certificate Number <input type="text"/>		
Date of Endorsement <input type="text"/>		
Executed for and on behalf of <input type="text" value="Hulls Road 52 Pty. Limited (ACN 649 334 958)"/>		
Under Power of Attorney dated <input type="text" value="22/12/2022"/> and registered in New South Wales Book <input type="text" value="4807"/> No <input type="text" value="281"/>		
Signature of Attorney: <input type="text" value="RS. m"/>		
Name of Attorney: <input type="text" value="Robert Peter SANDELL"/>		
(By executing this instrument the Attorney states that the Attorney has received no notice of the revocation of the Power of Attorney)		
Signature of Witness: <input type="text" value="C Hogan"/>		
Name of Witness: <input type="text" value="CHRISTOPHER HOGAN"/>		
Address of Witness: <input type="text" value="502/95 PITT STREET
SYDNEY NSW 2000"/>		
Surveyor's Reference 3721-REDEF-DP		

Plan Form 6_Digital (2021)	Deposited Plan Administration Sheet	Sheet 4 of 4
Registered	OFFICE USE ONLY 31/07/2024	DP1307503
Plan of Redefinition of lots 6 - 7 in DP858010 and lots 10 - 11 in DP1164955	This sheet is for the provision of the following information as required: <ul style="list-style-type: none">● A schedule of lots and addresses - See 60(c) SSI Regulation 2017● Statements of intention to create and release affecting interests in accordance with section 88B Conveyancing Act 1919● Signatures and seals- see 195D Conveyancing Act 1919● Any information which cannot fit in the appropriate panel of sheet 1 of the administration sheets.	
Subdivision Certificate Number <input type="text"/>		
Date of Endorsement <input type="text"/>		
<p>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 <u>2</u> Attorney under Power of Attorney Registered No 39 Book 4512 in the presence of:</p> <p> WITNESS - PETER TADINAC 2 Carrington Street, Sydney NSW</p> <p> ATTORNEY - IVAN TUSIC ASSOCIATE DIRECTOR</p>		
Surveyor's Reference 3721-REDEF-DP		

THIS FORM MAY BE USED WHERE NEW RESTRICTIVE COVENANTS ARE IMPOSED OR EASEMENTS CREATED OR WHERE THE SIMPLE TRANSFER FORM IS UNSUITABLE.



R.P. 13a. No. _____

EP 24 12 52 105

Fees -
 Lodgment 2
 Endorsement 4
 Certificate 4

New South Wales
MEMORANDUM OF TRANSFER
 (REAL PROPERTY ACT, 1900.)



6.10

[Handwritten signature]

COBBITTY ESTATES PTY. LIMITED
 of 53 Martin Place Sydney.

(Trusts must not be disclosed in the transfer.)

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



If a lease estate, strike out the words "fee simple" and insert the required alteration.

(herein called transferor)
 being registered as the proprietor of an estate in fee simple in the land hereinafter described, subject, however, to such encumbrances, liens and interests as are notified hereunder, in consideration of the sum of ONE THOUSAND FOUR HUNDRED AND SEVENTY FIVE POUNDS (£1,475.) (the receipt whereof is hereby acknowledged) paid to it by

OTON HORVAT and JAKOB HORVAT

do hereby transfer to

Show in BLOCK LETTERS the full name, postal address and description of the persons taking, and if more than one, whether they hold as joint tenants or tenants in common.

Labourer
OTON HORVAT of 225 Bridge Road Glebe and JAKOB HORVAT of 26
Arcadia Street, Coogee, Labourer and OTON HORVAT of the same place
Labourer as tenants in common
 (herein called transferee)

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

The description may refer to parcels shown in Town or Parish Maps issued by the Department of Lands or shown in plans filed in the Office of the Registrar-General. If part only of the land comprised in a Certificate or Certificates of Title is to be transferred add "and being Lot sec. D.P. ..." or "being the land shown in the plan annexed hereto" or "being the residue of the land in certificate (or grant) registered Vol. Fol. ..."

Where the consent of the Local Council to a subdivision is required the certificate or plan mentioned in the Local Government Act, 1910, should accompany the transfer.

County.	Parish.	Reference to Title.			Description of Land (if part only).
		Whole or Part.	Vol.	Fol.	
Sunderland	Cook	part	7370 Now 7727	230 122	and being Lot 15 in D.P. 28057

45461/2 B

And the transferee covenant(s) with the transferor for the benefit of the adjoining land owned by the Transferor, namely Lots 14 and 16 on the said deposited plan, but only during the ownership thereof by the Transferor its successors and assigns other than purchasers on sale, that no fence shall be erected on the land hereby transferred to divide it from such adjoining land without the consent in writing of the transferor, but such consent shall not be withheld if such fence is erected without expense to the transferor and in favour of any person dealing with the transferees or their assigns such consent shall be deemed to have been given in respect of every such fence for the time being erected AND this restriction may be released varied or modified by the registered proprietor or registered proprietors for the time being of such adjoining land.

3) Strike out if unnecessary, or suitably adjust.
i) if any easements are to be created or any exceptions to be made; or
ii) if the statutory covenants implied by the Act are intended to be varied or modified.

Covenants should comply with the provisions of Section 88 of the Conveyancing Act, 1919-1961.

ENCUMBRANCES, &c., REFERRED TO. /

A very short note will suffice.
A 1163-1 & 1170-1

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

Execution in New South Wales may be proved if this instrument is acknowledged before the Registrar-General or Deputy Registrar-General, or a Notary Public, a Justice of the Peace, or Commissioner for Affidavits, to whom the transferor is known, or other attesting witness could appear before one of the above functionaries who having received an affirmative answer to each of the questions set out in Sec. 109 (1) of the Real Property Act should sign the certificate at the foot of this page.

Execution may be proved where the parties are resident: (a) in any part of the British dominions outside the State of New South Wales by signing or acknowledging before the Registrar-General or Recorder of Titles of such Possession, or before any Justice, Notary Public, Justice of the Peace for New South Wales, or Commissioner for taking affidavits for New South Wales, or Mayor or Chief Officer of any municipal or local government corporation of such part, or Justice of the Peace for such part, or the Governor, Government Resident, or Chief Secretary of such part or such other person as the Chief Justice of New South Wales may appoint.

(b) in the United Kingdom by signing or acknowledging before the Master or Chief Officer of any corporation or a Notary Public.

(c) in any foreign place by signing or acknowledging before (i) a British Consular Officer (which includes a British Ambassador, Envoy, Minister, Chargé d'Affaires, Secretary of Embassy or Legation, Consul-General, Acting Consul-General, Consul, Acting Consul, Vice-Consul, Acting Vice-Consul, Pro-Consul, Consul Agent and Acting Consul Agent), (ii) an Australian Consular Officer (which includes an Ambassador, High Commissioner, Minister, Head of Mission, Commissioner, Chargé d'Affaires, Counsellor or Secretary of an Embassy, High Commissioner's Office or Legation, Consul-General, Consul, Vice-Consul, Trade Commissioner and Consular Agent), who should affix his seal of office, or the attesting witness may make a declaration of the due execution thereof before one of the persons (who should affix his seal to such declaration), or such other person as the said Chief Justice may appoint.

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

Signed at the COMMON SEAL of CORBITTY ESTATES PTY LIMITED was hereunto affixed WHO IS PERSONALLY KNOWN TO ME by the authority of the board of Directors in the presence of:



15th day of September 1959

Michael James Corbitty
Transferor

E. Hells
Secretary

Signed in my presence by the transferee

WHO IS PERSONALLY KNOWN TO ME

Bonnie Hells
Solicitor
Hays

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

J. Jensen
M. Hells

Transferee(s)

MEMORANDUM AS TO NON-REVOCATION OF POWER OF ATTORNEY.

(To be signed at the time of executing the within instrument.)

Memorandum where by 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 transfer.

Signed at _____ the _____ day of _____ 19 _____
Signed in the presence of—

CERTIFICATE OF J.P., &c., TAKING DECLARATION OF ATTESTING WITNESS.

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.

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 is signed or acknowledged before one of these parties.

* 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 Transferor or his Solicitor or Conveyancer, and renders any person falsely or negligently certifying liable to a penalty of £50; 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 Transferor 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 Transferor or is subject to a mortgage, encumbrance or lease, the Transferee must accept personally.

No alteration 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.

LODGED BY A. J. M. LACHLAN HOARE & CO.
 Solicitors,
 6 Wynyard Street,
 SYDNEY (Phone - BX 2411)
HERBERT SMITH & W. B. PHILLIPS
 SOLICITORS

No. **H 313552**

FEES
 The Fees, which are payable on lodgment, are as follows—
 (a) £2 where the memorandum of transfer is accompanied by the relevant Certificate of Title or Crown Grants, otherwise £2 5s. Od. Where such instrument is to be endorsed on more than one folium of the register, an additional charge of 5s. is made for every Certificate of Title or Crown Grant after the first.
 (b) A supplementary charge of 10s. is made in each of the following—
 (i) where a restrictive covenant is imposed; or
 (ii) a new easement is created; or
 (iii) a partial discharge of mortgage is endorsed on the transfer.
 (c) Where a new Certificate of Title must issue the scale charges are—
 (i) £2 for every Certificate of Title not exceeding 16 folios and without diagram;
 (ii) £2 10s. Od. for every Certificate of Title not exceeding 16 folios with one simple diagram;
 (iii) as approved where more than one simple diagram, or an extensive diagram will appear.
 Where the engrossing exceeds 16 folios, an amount of 5s. per folium, extra fee is payable.

DOCUMENTS TO BE FILLED IN BY PERSON LODGING DEEDS.
 To be filled in by person lodging dealing.

- 1 _____
- 2 _____
- 3 _____
- 4 _____
- 5 _____
- 6 _____

Received D. as
 Nos.
 Receiving Clerk

PARTIAL DISCHARGE OF MORTGAGE.
 (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 comprised in such mortgage.

This discharge is appropriate to a transfer of part of the land in the Mortgage. The mortgagee shall execute a formal discharge when 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.

Dated at _____ this _____ day of _____ 19____
 Signed in my presence by _____

who is personally known to me.

Mortgagee.

LEAVE THESE SPACES FOR DEPARTMENTAL USE

INDEXED	MEMORANDUM OF TRANSFER <i>Subject to Covenant</i>	
Checked by <i>[Signature]</i>	Particulars entered in Register Book Volume <i>1127</i> Folio <i>122</i>	
Passed (in S.D.E.) by <i>[Signature]</i>	the <i>29th</i> day of <i>October</i> 19 <i>97</i> at <i>10</i> minutes past <i>10</i> o'clock in the <i>AM</i> noon.	
Signed by <i>[Signature]</i>	<i>[Signature]</i>	

PROGRESS RECORD.

	Initials	Date
Sent to Survey Branch		
Received from Records	<i>[Initials]</i>	<i>15/10</i>
Draft written	<i>[Initials]</i>	<i>24/10</i>
Draft examined		
Diagram prepared		
Diagram examined		
Draft forwarded		
Supt. of Engravers	<i>[Initials]</i>	<i>4/11</i>
Can. relations Clerk	<i>[Initials]</i>	<i>20/11</i>

2 draft no time

H313552 to follow

K-31.5

**J 946972 CONVEYANCING ACTS, 1919-1953
 REAL PROPERTY ACT, 1900**

MR 30 13 11 1953
 14 March 21 0 0
 31 April 7 15 0
 31 11 1953
 2-10-0
 7-15-0
 30/8/6

**Notice of Resumption of Land subject to the provisions
 of Real Property Act, 1900**

EDWARD JOHN MINCHIN Office
~~ALFRED ALLEYNE LEVY~~, State Crown Solicitor's/ DO HEREBY CERTIFY that the
 copy Gazette Notification hereunto annexed is a true copy of the Gazette Notification contained in the
 Government Gazette of the Sixteenth day of August, one thousand nine hundred
and sixty three, declaring that the land therein described, being the land mentioned in the Schedule
 hereunder, has been resumed. AND I REQUEST that you will deal with and give effect to the
 said Notification/as if the same were a Memorandum of Transfer of the land therein described duly executed
 under the Real Property Act, 1900, and I, the said EDWARD JOHN MINCHIN
ALFRED ALLEYNE LEVY
 HEREBY CERTIFY that this instrument is correct for the purposes of the Real Property Act, 1900.
 AND I FURTHER CERTIFY that I was appointed by writing dated the Twentysecond day
 of February, one thousand nine hundred and sixty two under his hand and
 official seal by THE MINISTER FOR PUBLIC WORKS
 to sign this Certificate on behalf of the said Minister and that I have received no notice
 or information of the revocation of such appointment.

SCHEDULE

Lot	Section	Deposited Plan or Name of Estate	Part or Whole	Volume	Folio
		Pt. of the land shown in plan lodged with Transfer No. H360643, being pt. lot 7 in D.P. 10858.	PART C.T.	7914	205 ✓
		Being the land delineated on the plan annexed hereto marked "A".			
Pt. 7		Deposited Plan No. 10858	do	7914	232 ✓
		Being the land delineated on the plan annexed hereto marked "B".			
Pt. 2		Parish County Narellan Camden	do	8395	50 ✓
Pt. A		Deposited Plan No. 28057	do	8004	213 ✓
		Being the land delineated on the plan annexed hereto marked "C".			
Pt. 9		Deposited Plan No. 28057	do	8192	90 ✓
Pt. 10		do	do	8192	91 ✓
Pt. 14		do	do	8192	92 ✓
Pt. 12		do	do	8241	207 ✓
Pt. 13		do	do	8241	208 ✓
Pt. 15		do	do	8202	29 ✓
Pt. 11		do	do	7835	30 ✓
		Being the land delineated on the plan annexed hereto marked "D".			
Pt. 12		Deposited Plan No. 200915	do	8273	79 ✓
		Being the land delineated on the plan annexed hereto marked "E".			

DATED this _____ day of _____, in the year of Our Lord
 one thousand nine hundred and fifty-

SIGNED by the said

in the presence of

THE REGISTRAR GENERAL
 SYDNEY.

SCHEDULE CONTINUED

Lot	Section	Deposited Plan or Part or Whole Name of Estate	Volume	Folio
Pt.39		Deposited Plan No. 205952 PART C.T.	9196	218
Being the land delineated on plan annexed hereto marked "F".				
Pt.19		Deposited Plan No. 28459 DO	8108	15
Being the land delineated on plan annexed hereto marked "G".				
Pt.68		Deposited Plan No. 8979 do	3282	203
Pt.69		do do	3538	184
Pt.70		do do	3339	228
Pt.22		do do	3416	21
Pt.23		do do	5078	85
Pt.24		do do	5032	213
Being the land delineated on plan annexed hereto marked "H".				
Pt.por.65		Parish County Cook Cumberland do	7418	209
Being the land delineated on plan annexed hereto marked "J".				
Pt.2 Section 3		Deposited Plan No. 2756 do	9057	32
Being the land delineated on plan annexed hereto marked "K".				
Pt.47		Deposited Plan No. 26740 do	7677	16
Pt.46		do do	7584	141
Pt.49		do do	7962	10
Being the land delineated on plan annexed hereto marked "L".				
Pt.27		Deposited Plan No. 30409 do	8148	239
Pt.10		do do	8148	239
Pt.1		do do	9073	141
Being the land delineated on plan annexed hereto marked "M".				
Pt.27		Deposited Plan No. 30265 PART C.T.	8368	146
Being the land delineated on plan annexed hereto marked "N".				
Pt.por.79		Parish County Melville Cumberland PART C.T.	7955	107
Pt.por.79		" " " do	7967	201
Pt.por.82		" " " do	6116	211
Being the land delineated on plan annexed hereto marked "O".				

DATED this *25th* day of *March*, in the year of Our Lord One thousand nine hundred and sixty four *four*

SIGNED by the said ~~ALFRED ALEXANDER LEVY~~ *EDWARD JOHN NICHOLIN*

in the presence of: *W. Handley* *E. Munn*
 THE REGISTRAR GENERAL SYDNEY.

1635787

7921

J 946972

No. _____

LODGED by State Crown Solicitor,
237 Macquarie Street,
Sydney.

NOTICE OF RESUMPTION

of Easement
for Transmission Line RB 12/2/65

92

Particulars entered in Register Book,
no per schedule
-Vol. _____ Fol. _____

the *9th*
day of *DECEMBER* 19*65*
at _____ minutes *10*
o'clock in the *FORE* noon.

85

J. [Signature]
Registrar-General.

J 946972

J 946972

(Published in Government Gazette No. 75 of [6th August, 1963.]

ELECTRICITY COMMISSION ACT, 1950, AS AMENDED.
—PUBLIC WORKS ACT, 1912, AS AMENDED
DARTO SYDNEY WEST 330KV TRANSMISSION LINE
Acquisition of Easements

APPLICATION by the Electricity Commission of New South Wales having been made that easements of rights to use the surface and the subsol or undersurface of the land described in the Schedule hereto be appropriated or resumed for the construction and maintenance of an electricity transmission line, it is hereby notified and declared by His Excellency the Governor, acting with the advice of the Executive Council, that the easements or rights as aforesaid over so much of the said land as is Crown land are hereby appropriated and that the easements or rights as aforesaid over so much of the said land as is private property are hereby resumed under Division 1 of Part V of the Public Works Act, 1912, as amended, for the purpose aforesaid; and it is hereby further notified that the said easements or rights are vested in the Electricity Commission of New South Wales.

Dated at Sydney, this 7th day of August, 1963.
E. W. WOODWARD, Governor.
By His Excellency's Command,
P. D. H L.S. Minister for Local Government.

SCHEDULE

All that piece or parcel of land 200 feet wide situate in the City of Greater Wollongong, parish of Calderwood and county of Camden, being part of the land shown in plan annexed to dealing 1,360,643; Commencing on the north-western side of Marshall Mount road at the south-eastern corner of that land, and bounded thence on the south-west by part of the easternmost south-western boundary of that land bearing 297 degrees 15 minutes 30 seconds 38 feet 7 inches; again on the south-west by lines bearing successively 314 degrees 9 minutes 20 seconds 56 feet 5 1/2 inches and 300 degrees 6 minutes 227 feet to the generally north-western boundary of the said land shown in plan annexed to dealing 1,360,643; generally on the north-west by part of that boundary generally north-easterly to a point bearing 47 degrees 14 minutes 209 feet 3 1/2 inches; on the north-east by lines bearing successively 120 degrees 6 minutes 190 feet and 134 degrees 9 minutes 20 seconds 72 feet 6 1/2 inches to the said north-western side of Marshall Mount road; and on the south-east by that side of that road bearing successively 215 degrees 22 minutes 111 feet 11 1/2 inches and 204 degrees 11 minutes 83 feet 2 inches to the point of commencement,—and said to be in the possession of R. A. Jones and L. N. Massey.

Also, all that piece or parcel of land 200 feet wide and of variable width situate in the City of Greater Wollongong, parish of Calderwood and county of Camden, being part of lot 7, deposited plan 10,838; Commencing on the south-western boundary of the said lot 7 at the angle formed in that boundary by lines bearing 309 degrees 21 minutes and 325 degrees 44 minutes; and bounded thence on the south-west by part of the said south-western boundary of that lot bearing successively 325 degrees 44 minutes 91 feet 4 1/2 inches and 341 degrees 5 minutes 233 feet 2 inches; on the north-east by a line bearing 120 degrees 6 minutes 1,181 feet 7 inches to the generally north-western boundary of the land shown in plan annexed to dealing H. 360,643; generally on the south-east by part of that boundary generally south-westerly to a point bearing 227 degrees 14 minutes 209 feet 3 1/2 inches; again on the south-west by a line bearing 300 degrees 6 minutes 288 feet 9 1/2 inches to the said south-western boundary of lot 7; and again on the south-west by part of that boundary bearing successively 300 degrees 54 minutes 30 seconds 382 feet 9 1/2 inches and 300 degrees 21 minutes 489 feet 1 1/2 inches to the point of commencement,—and said to be in the possession of L. A. Jones.

Also, all that piece or parcel of land 200 feet wide situate in the Municipality of Campbelltown, parishes of Manangle and Narellan and county of Cumberland, being part of lot 2, plan marked "A" annexed to dealing G. 851,514 and part of lot A, deposited plan 19,853; Commencing on the easternmost north-eastern boundary of the said lot 2 at the angle formed in that boundary by lines bearing 101 degrees 9 minutes and 95 degrees 57 minutes; and bounded thence on the north-east by part of the said north-eastern boundary of that lot bearing 95 degrees 57 minutes 51 feet 9 1/2 inches; again on the north-east by a line bearing 174 degrees 29 minutes 45 seconds 1,971 feet 7 inches to the north-western side of Manangle-road; on the south-east by that side of that road bearing 200 degrees 53 minutes 450 feet; on the south-west by a line bearing 514 degrees 29 minutes 45 seconds 2,429 feet 1 1/2 inches to the said north-eastern boundary of lot 2; and again on the north-east by part of that boundary bearing 101 degrees 9 minutes 155 feet 9 1/2 inches to the point of commencement,—and said to be in the possession of H. A. P. Fitzpatrick.

Also, all that piece or parcel of land 200 feet wide situate in the Municipality of Camden, parish of Cook and county of Cumberland, being part of lots 9 to 15 inclusive, deposited plan 28,057; Commencing on the north-western side of the Hungry Highway at the south-eastern corner of the said lot 9 and bounded thence on the south-west by part of the south-western boundary of that lot bearing 236 degrees 22 minutes 11 feet 1 1/2 inches; on the north-west by a line bearing 7 degrees 53 minutes 40 seconds 1,398 feet 3 inches to the north-eastern boundary of the said lot 15; on the north-east by part of that boundary bearing 95 degrees 45 minutes 209 feet 11 inches; on the south-east by a line bearing 197 degrees 33 minutes 40 seconds 1,167 feet 16 1/2 inches to the south-western side of the Hungry Highway; and again on the south-east by that side of that highway bearing 226 degrees 1 minute 40 seconds 303 feet 4 1/2 inches to the point of commencement,—and said to be in the possession of G. P. Jones and others.

Also, all that piece or parcel of land situate in the Municipality of Camden, parish of Cook and county of Cumberland, being part of lot 12, deposited plan 120,915; Commencing at the north-eastern corner of the said lot 12; and bounded thence on the south-east by part of the south-eastern boundary of that lot bearing 200 degrees 51 minutes 25 seconds 283 feet 3 1/2 inches; on the south-west by a line bearing 354 degrees 31 minutes 50 seconds 300 feet 5 1/2 inches to the north-eastern boundary of the said lot 12; and on the north-east by part of that boundary bearing 104 degrees 134 feet 2 1/2 inches to the point of commencement,—and said to be in the possession of the Liverpool Building Co. Pty. Ltd.

Also, all that piece or parcel of land 200 feet wide situate in the Municipality of Camden, parish of Cook and county of Cumberland, being part of lot 39, deposited plan 205,952; Commencing on the north-western boundary of the said lot 39 at a point bearing 70 degrees 30 minutes and distant 542 feet 2 inches from the western corner of that lot; and bounded thence on the north-west by part of that boundary bearing 70 degrees 30 minutes 206 feet 1 1/2 inches; on the north-east by a line bearing 174 degrees 31 minutes 50 seconds 263 feet 5 1/2 inches to the south-eastern boundary of that lot; on the south-east by part of that boundary bearing 250 degrees 58 minutes 205 feet 8 1/2 inches; and on the south-west by a line bearing 354 degrees 31 minutes 50 seconds 263 feet 8 1/2 inches to the point of commencement,—and said to be in the possession of Douglas Slatt.

Also, all that piece or parcel of land 200 feet wide situate in the Municipality of Camden, parish of Cook and county of Cumberland, being part of lot 19, deposited plan 28,439; Commencing on the south-western boundary of the said lot 19 at a point bearing 300 degrees 47 minutes 40 seconds and distant 117 feet 1 1/2 inches from the southernmost corner of the said lot 19; and bounded thence on the south-west by part of that boundary bearing 300 degrees 47 minutes 40 seconds 248 feet 2 inches; again on the south-west by a line bearing 354 degrees 29 minutes 40 seconds 294 feet 9 1/2 inches to the north-eastern boundary of that lot; on the north-east by part of that boundary bearing 120 degrees 47 minutes 40 seconds 248 feet 2 inches; and again on the north-east by a line bearing 174 degrees 29 minutes 40 seconds 294 feet 9 1/2 inches to the point of commencement,—and said to be in the possession of W. C. E. and G. D. C. Harmer.

Also, all that piece or parcel of land 200 feet wide situate in the Municipality of Camden, parish of Cook and county of Cumberland, being part of lots 68 to 70 inclusive, deposited plan 8,979; Commencing on the south-western boundary of the said lot 68 at a point bearing 129 degrees 57 minutes and distant 177 feet 5 inches from the westernmost corner of that lot; and bounded thence on the south-west by part of the said south-western boundary of that lot and part of the south-western boundary of the said lot 69 bearing in all 309 degrees 57 minutes 284 feet 2 1/2 inches, on the west by lines bearing successively 354 degrees 40 minutes 55 seconds 772 feet 4 1/2 inches and 5 minutes 30 seconds 151 feet 7 1/2 inches to the south-western side of Heath-road; on the north-east by that side of that road bearing 129 degrees 57 minutes 263 feet 10 1/2 inches; and on the north-east by a line bearing 174 degrees 40 minutes 55 seconds 937 feet 6 1/2 inches to the point of commencement,—and said to be in the possession of H. C. Cutler and others.

Also, all that piece or parcel of land 200 feet wide situate in the Municipality of Camden, parish of Cook and county of Cumberland, being part of lots 23, 23 and 24, deposited plan 8,979; Commencing on the north-eastern side of Heath-road at a point bearing 129 degrees 57 minutes and distant 112 feet 9 1/2 inches from the westernmost corner of the said lot 24; and bounded thence on the south-west by the said north-eastern side of Heath-road bearing 309 degrees 57 minutes 200 feet 6 1/2 inches; on the west by a line bearing 5 minutes 30 seconds 859 feet 9 1/2 inches to the north-eastern boundary of the said lot 22; on the north-east by part of that boundary and part of the north-eastern boundary of the

This is the copy Gazette Notification referred to in the annexed Certificate.

Witness *Massey*

Plum

LODGE WITH DEALING

Plans A to H
J to O
30.3.65

16357RPI

16357RPI

S.B.20624

Municipality of City of Greater Wollongong
Shire of

A O

THE ELECTRICITY COMMISSION OF N.S.W.

DAPTO - SYDNEY WEST

330KV TRANSMISSION LINE

PLAN

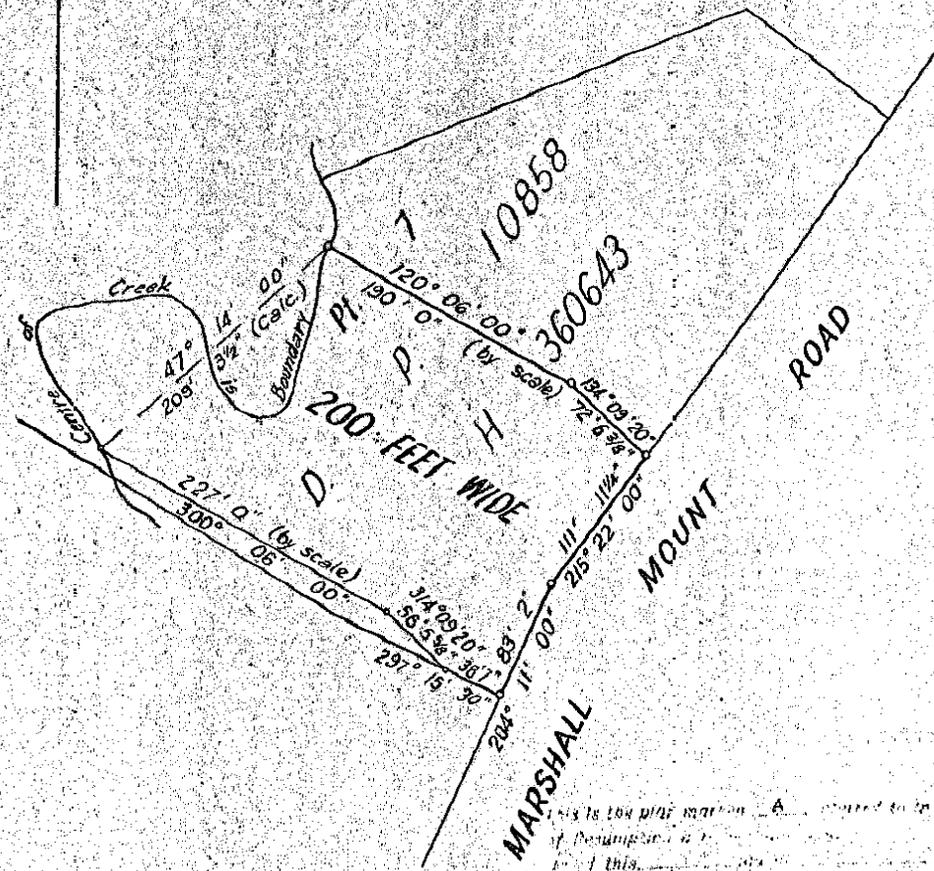
SHOWING SITE OF EASEMENT PROPOSED TO BE RESUMED FOR TRANSMISSION LINE

Parish of Calderwood County of Camden

Scale: 100 Feet to an inch

EASEMENT FOR TRANSLINE RESUMED

BY NOTIFICATION IN GAZETTE
OF 16-8-63 NO. 75 VOL. 2387-8



Pt. Lot 7, C.T. Vol. 7914 Fol. 205

Ronald A. Jones & } Joint Tenants
Lorraine N. Massey }

Date 7-3-1963

Field Book No.

Chittith
Surveyor Registered Under The Surveyors Act, 1929-46

P. 5090

S.B.20624

S.B.20625

Municipality of City of Greater Wollongong
Shire of

B ○

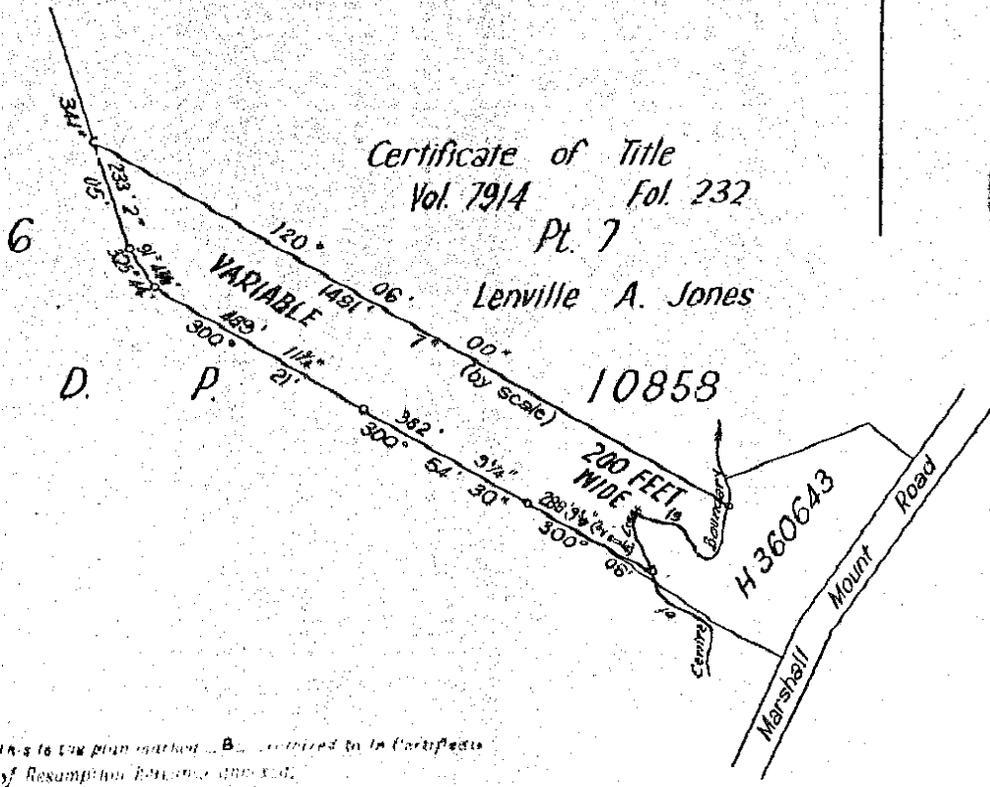
THE ELECTRICITY COMMISSION OF N.S.W.
DAPTO - SYDNEY WEST
330 kV. TRANSMISSION LINE
PLAN

SHOWING SITE OF EASEMENT PROPOSED TO BE RESUMED FOR TRANSMISSION LINE

Parish of Calderwood County of Camden

Scale: 300 Feet to an inch

EASEMENT FOR TRANSLINE RESUMED
BY NOTIFICATION IN GAZETTE
OF 16-8-63 NO. 75 VOL. 2388



This is the plan marked B... certified to be correct
of Resumption... and...
of this... of...

Date 7-3-1963
Field Book No. _____

[Signature]
Surveyor Registered under The Surveyors Act, 1929-46
P. 5091

S.B.20625

S.B.20626

Municipality of Campbelltown

Shire of

J946972



THE ELECTRICITY COMMISSION OF N.S.W.
DAPTO - SYDNEY WEST
330KV. TRANSMISSION LINE
PLAN

SHOWING SITE OF EASEMENT PROPOSED TO BE RESUMED FOR TRANSMISSION LINE

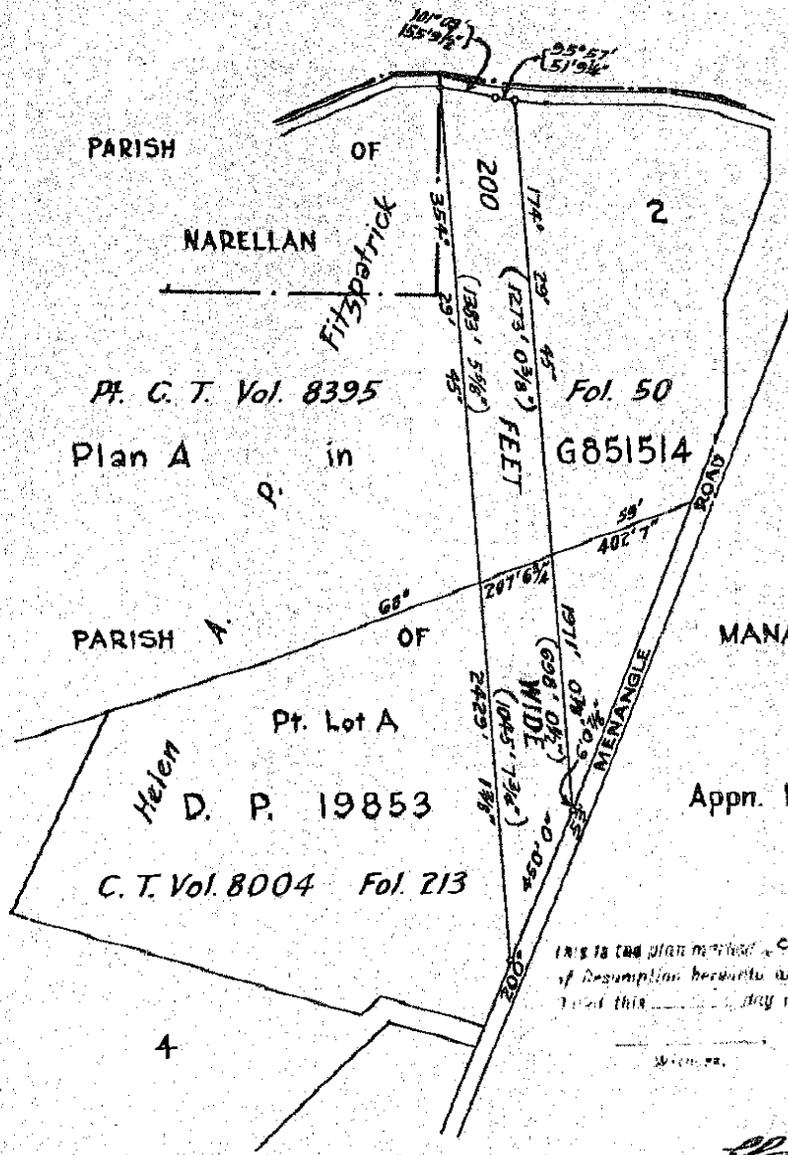
Parish of ^{Manangle &} Narellan County of Cumberland

Scale: 400 Feet to an inch

EASEMENT FOR TRANSMISSION LINE

M. M.

BY NOTIFICATION IN GAZETTE
OF 16-6-63 NO. 75 FOL. PARISH OF ST. PETER



THIS IS THE PLAN mentioned &c. referred to in Paragraphs of Resumption herewith annexed.
Dated this _____ day of _____ 1963

J. T. S. Ryan & Co.
of J. T. S. Ryan & Co.
Surveyor Registered under The Surveyors Act, 1929.

Date 7-3-1963

P. 5092

S.B.20626

S.B.20627

Municipality of Camden
Address

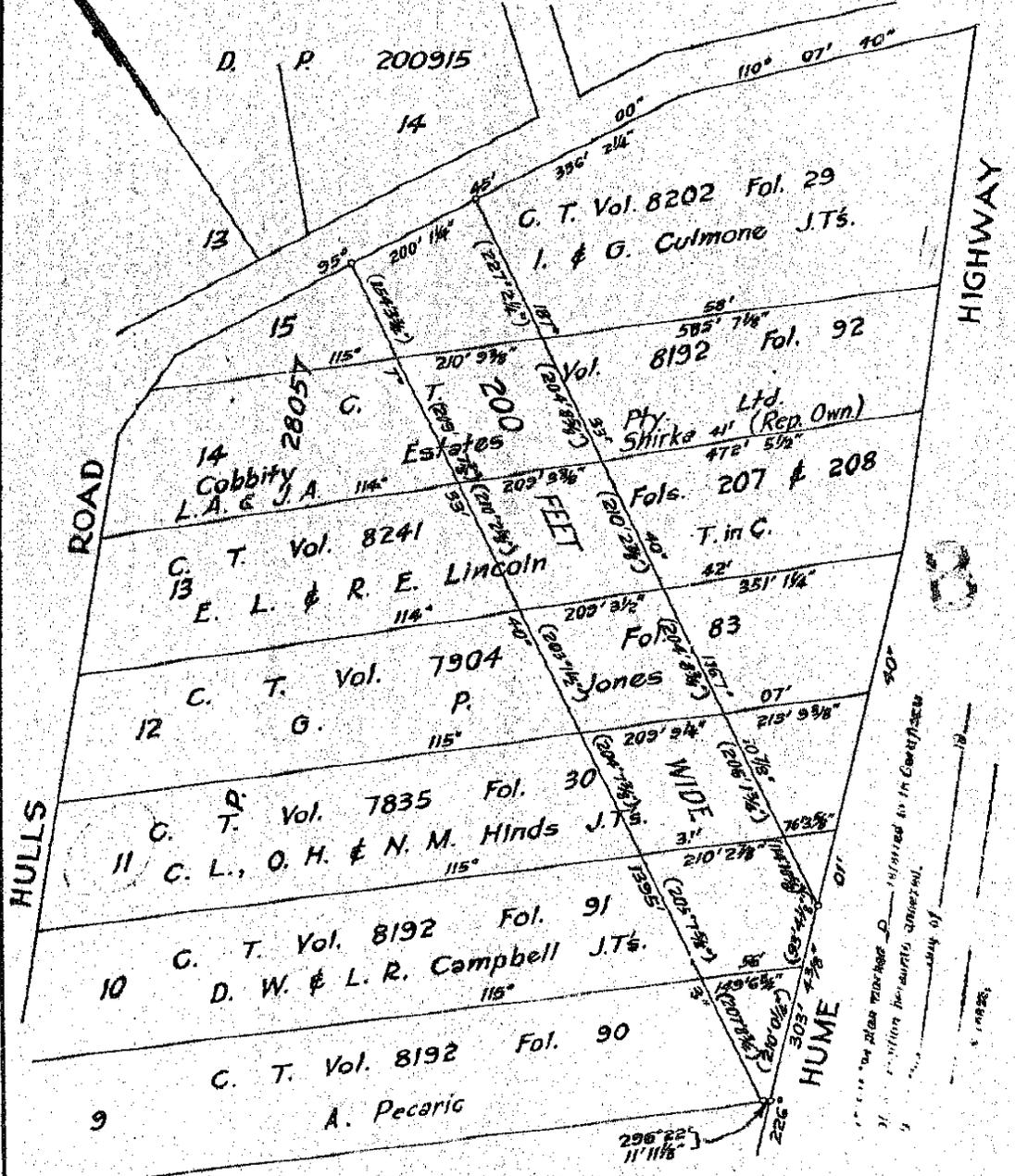
THE ELECTRICITY COMMISSION OF N.S.W.
DAPTO - SYDNEY WEST
330KV. TRANSMISSION LINE
PLAN



SHOWING SITE OF EASEMENT PROPOSED TO BE RESUMED FOR TRANSMISSION LINE

Parish of Cook County of Cumberland

Scale: 200 Feet to an inch



EASEMENT FOR TRANSMISSION LINE RESUMED

BY DECLARATION IN CHARGE

Date 7-3-1963 OF 16-8-63 NO. 75 FOR Surveyor Registered under The Surveyors Act, 1929.

of J. T. S. Ryan & Co.
P. 5093

S.B.20627

S.B.20628

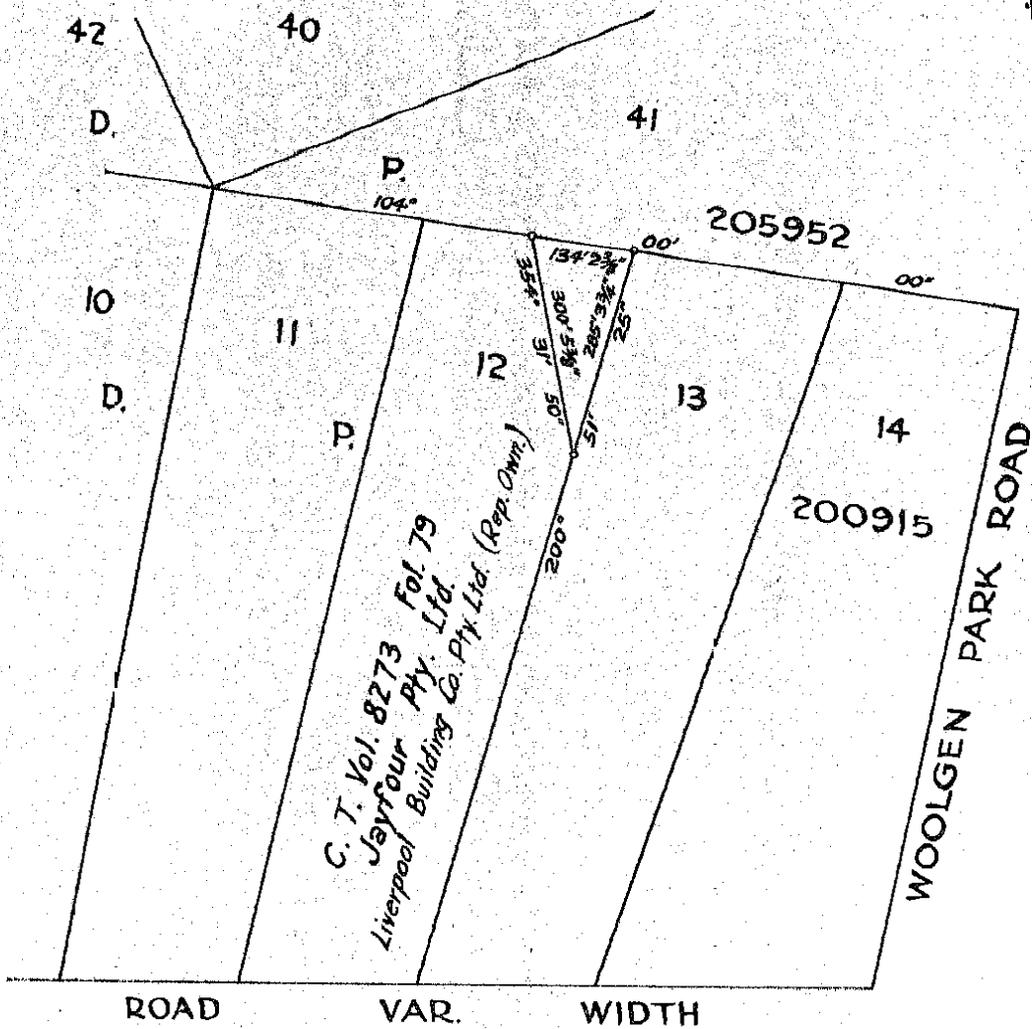
Municipality of Camden
Shire of



THE ELECTRICITY COMMISSION OF N.S.W.
DAPTO - SYDNEY WEST
330 KV. TRANSMISSION LINE
PLAN

SHOWING SITE OF EASEMENT PROPOSED TO BE RESUMED FOR TRANSMISSION LINE
Parish of Cook **County of Cumberland**

Scale: 200 Feet to an inch
EASEMENT FOR TRANSLINE RESUMED
BY NOTIFICATION IN GAZETTE
OF 16-8-63 NO. 75 VOL. 2388



C. T. Vol. 8273 Fol. 79
Jayfour Pty. Ltd.
Liverpool Building Co. Pty Ltd. (Rep. Ownr.)

This is the plan marked 'E' referred to in the notification

Date 7-3-1963
Field Book No.

[Signature]
Surveyor Registered under The Surveyors Act, 1929-46
P.5094

S.B.20628

S.B.20629

Municipality of Camden
~~SECRET~~

F O

THE ELECTRICITY COMMISSION OF N.S.W.
DAPTO - SYDNEY WEST
330kV. TRANSMISSION LINE
PLAN

SHOWING SITE OF EASEMENT PROPOSED TO BE RESUMED FOR TRANSMISSION LINE

Parish of Cook County of Cumberland

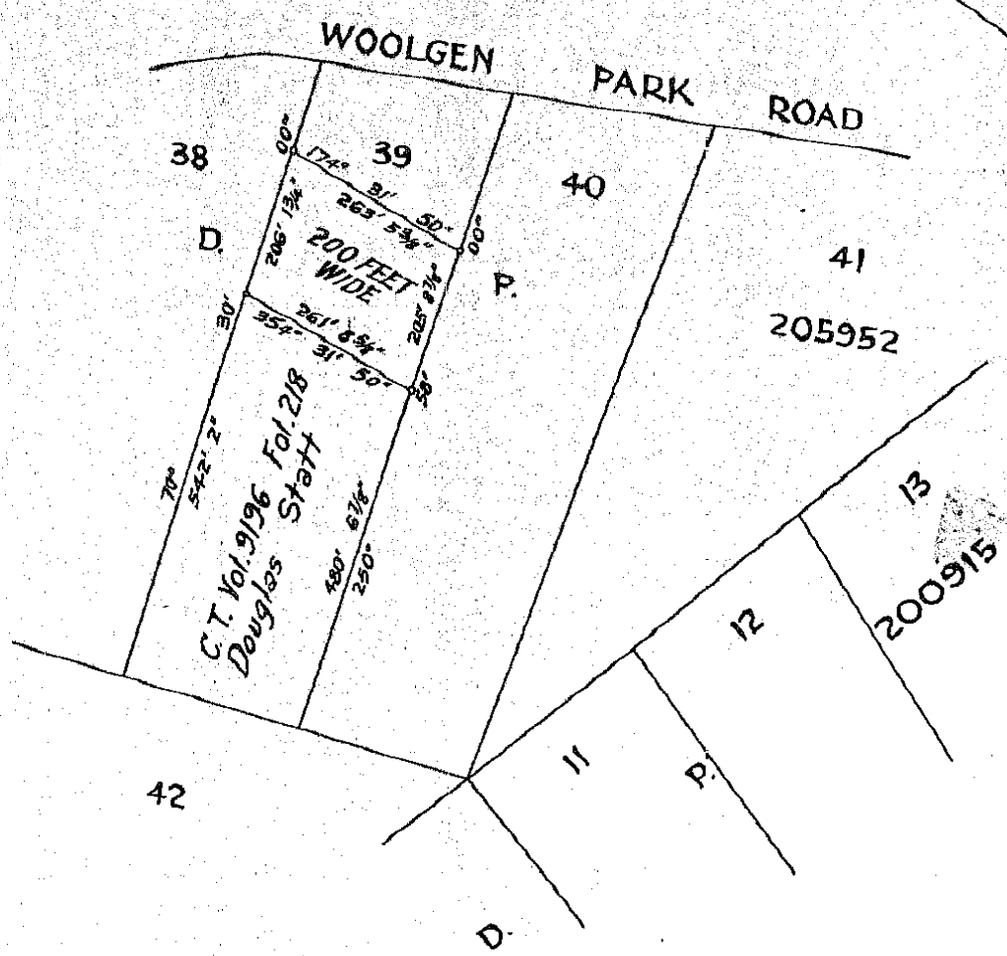
Scale: 200 Feet to an inch

EASEMENT FOR TRANSMISSION LINE RESUMED

BY NOTIFICATION IN GAZETTE
ON 16-8-63 NO. 75 VOL 2388

THIS IS THE PLAN MARKED "E" REFERRED TO IN CONDITIONS
OF RESUMPTION HERETO ANNEXED.
Dated this _____ day of _____ 19____

W. J. ...



Date 7-3-1963
Field Book No.

McKillop

Surveyor Registered under The Surveyors Act, 1929-46
P.5095

S.B.20629

S.B.20630

Municipality of Camden

~~SHOWN~~



THE ELECTRICITY COMMISSION OF N.S.W.
DAPTO - SYDNEY WEST
330KV. TRANSMISSION LINE
PLAN

SHOWING SITE OF EASEMENT PROPOSED TO BE RESUMED FOR TRANSMISSION LINE

Parish of Cook

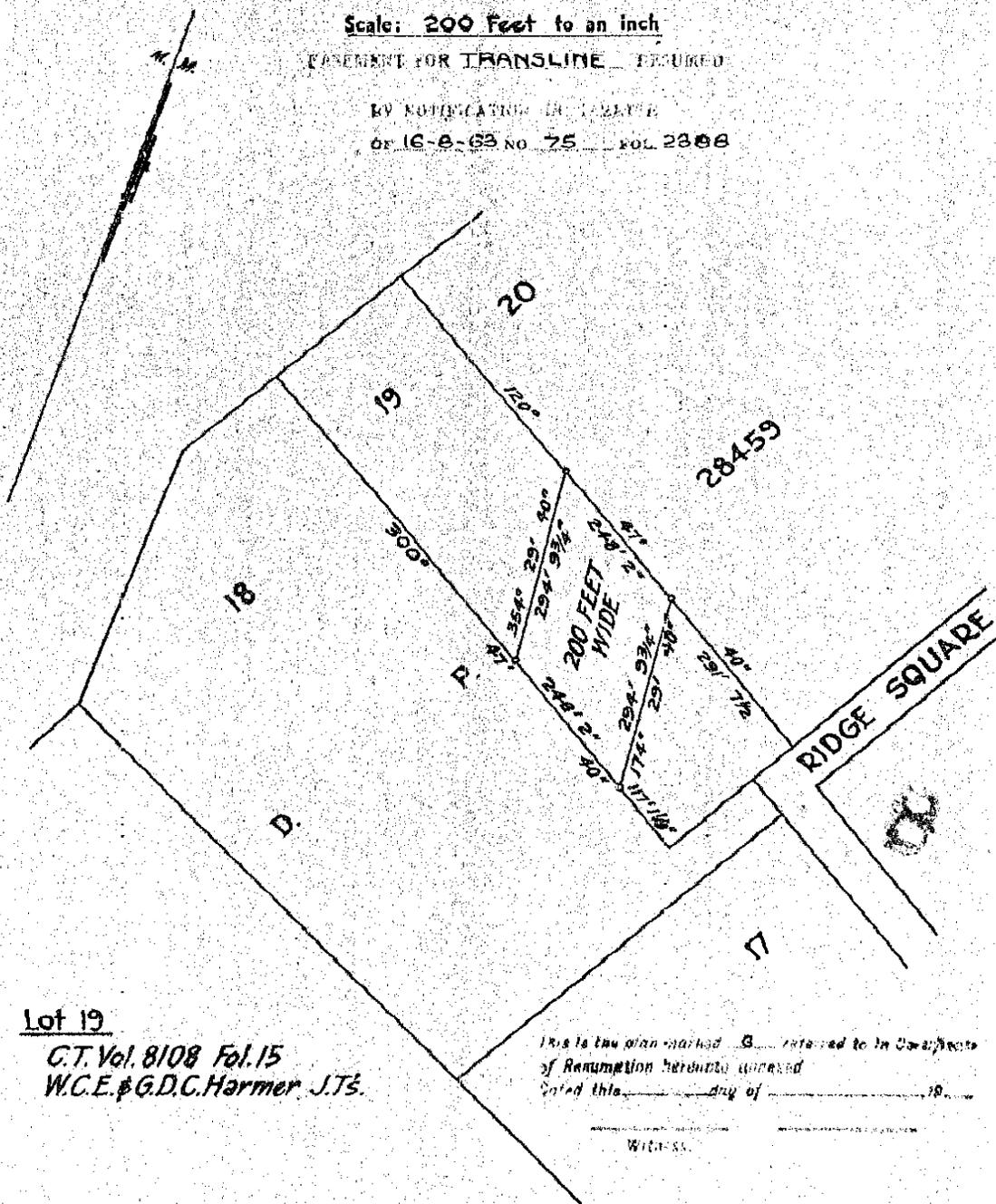
County of Cumberland

Scale: 200 Feet to an inch

EASEMENT FOR TRANSMISSION LINE REQUIRED

BY NOTIFICATION IN PARAGRAPH

OF 16-B-63 NO 75 VOL 2888



Lot 19

C.T. Vol. 8108 Fol. 15
W.C.E. & G.D.C. Harmer J.T.S.

This is the plan marked B referred to in Paragraphs
of Resumption heretofore annexed
Signed this _____ day of _____ 19____

Witness

Date 7-9-1963

J.T.S. Ryan & Co.
of J.T.S. Ryan & Co.
Surveyor Registered under The Surveyors Act, 1929.

P. 5096

S.B.20630

HO

MISSION OF N.S.W.

SYDNEY WEST
MISSION LINE

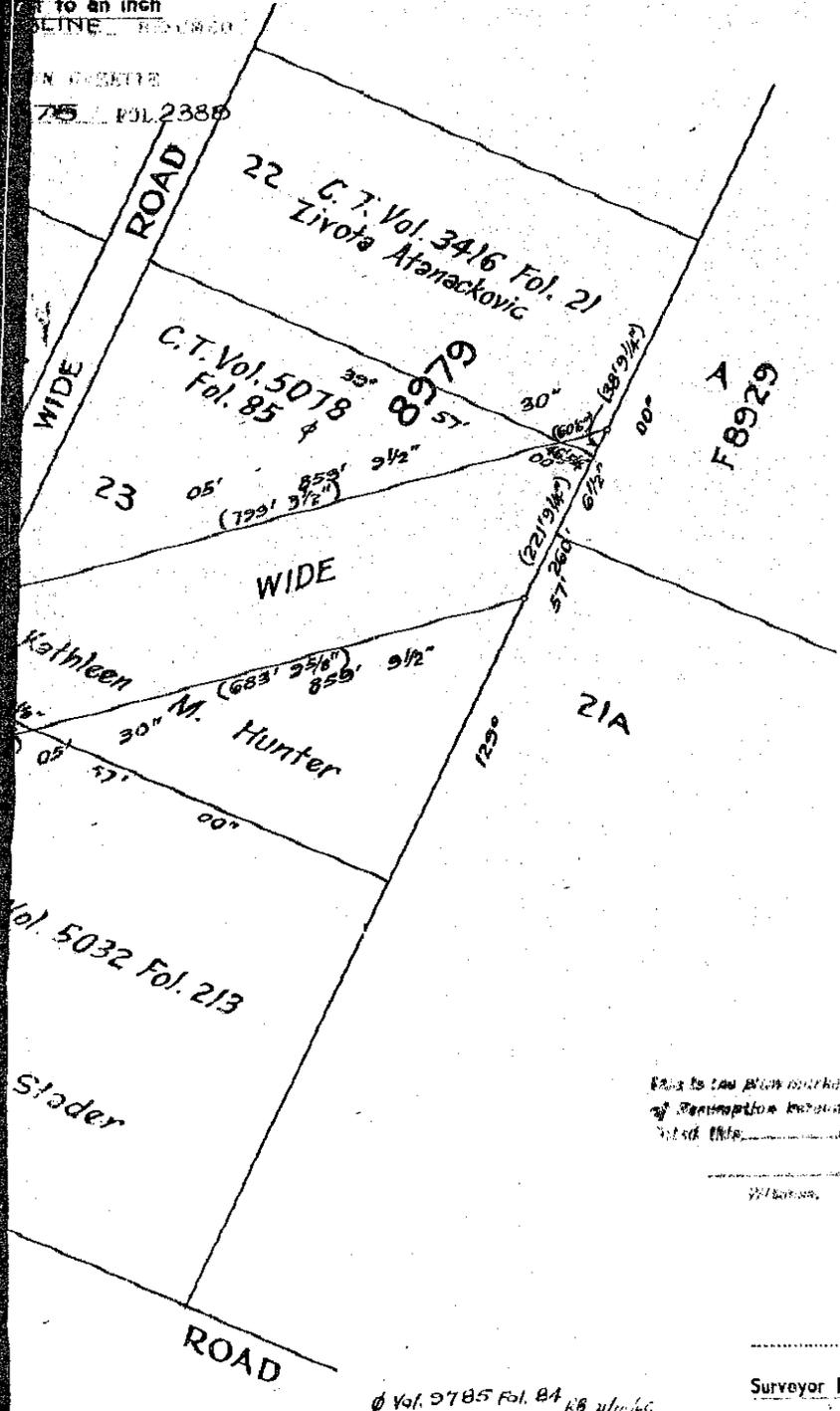
AN

TO BE RESUMED FOR TRANSMISSION LINE

County of Cumberland

Scale: 1 inch = 100 feet
SECTION RESUMED

PLAN NO. 2388



S.B. 20631A.

Scale to the plan marked H. referred to in E.S. 1/2000
of Pennington's map was used.
Total this ... day of ... 19 ...
Witness,

J.T.S. Ryan & Co.
Surveyor Registered under The Surveyors Act, 1929.
P. 5097

Vol. 5785 Fol. 84 18 1/2 1/2

Municipality of Camden
~~State of~~

THE ELECTRICITY
DAPTO -
330KV. TR

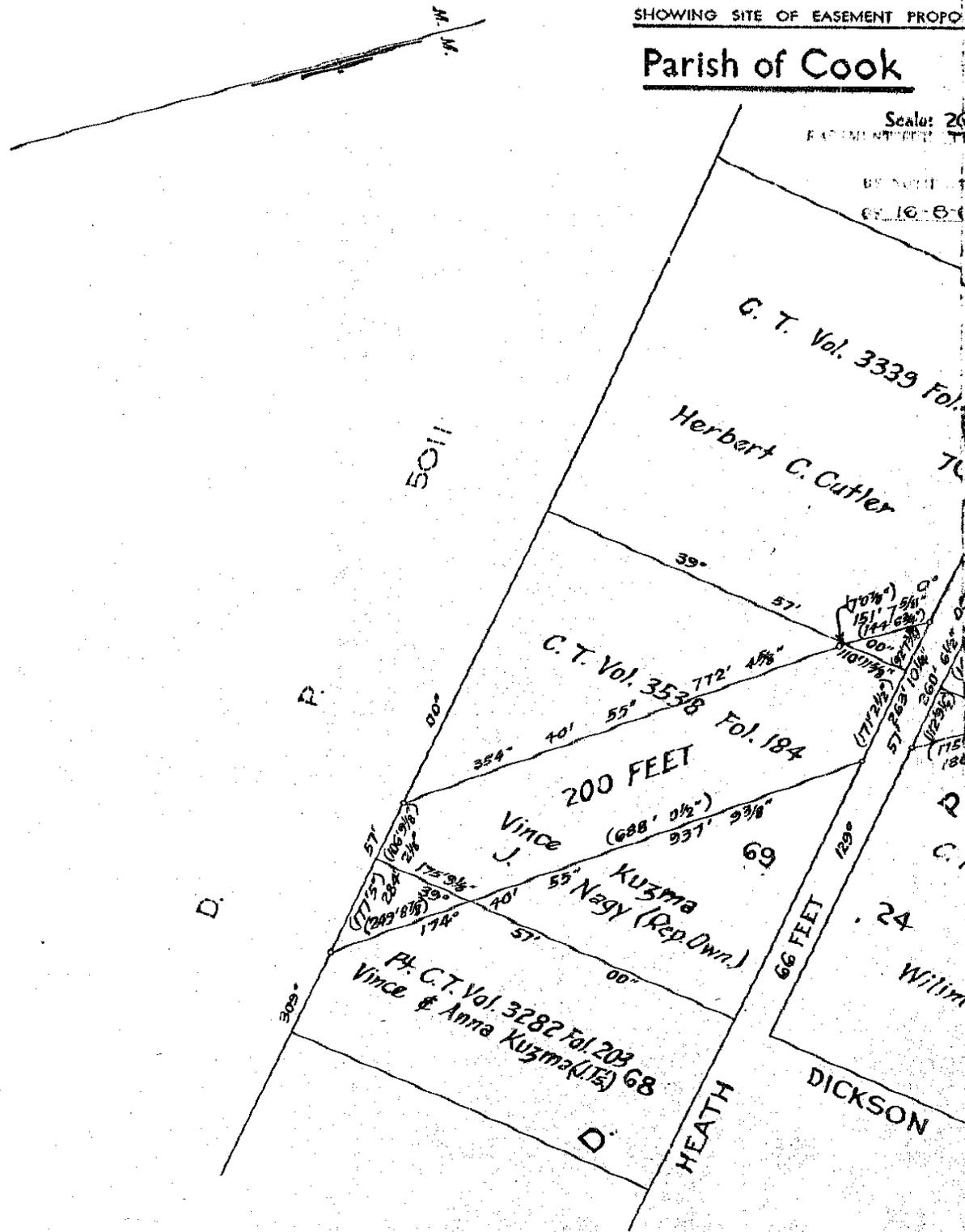
SHOWING SITE OF EASEMENT PROPO

Parish of Cook

Scale: 200
EASEMENT PROPO

BY NOTICE
OF 16-8-68

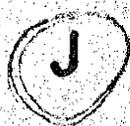
S.B.20631 R



Date: 7-3-1968

S.B.20632 J946972

Municipality of Camden
Shire of



THE ELECTRICITY COMMISSION OF N.S.W.
DAPTO - SYDNEY WEST
330KV. TRANSMISSION LINE
PLAN

SHOWING SITE OF EASEMENT PROPOSED TO BE RESUMED FOR TRANSMISSION LINE

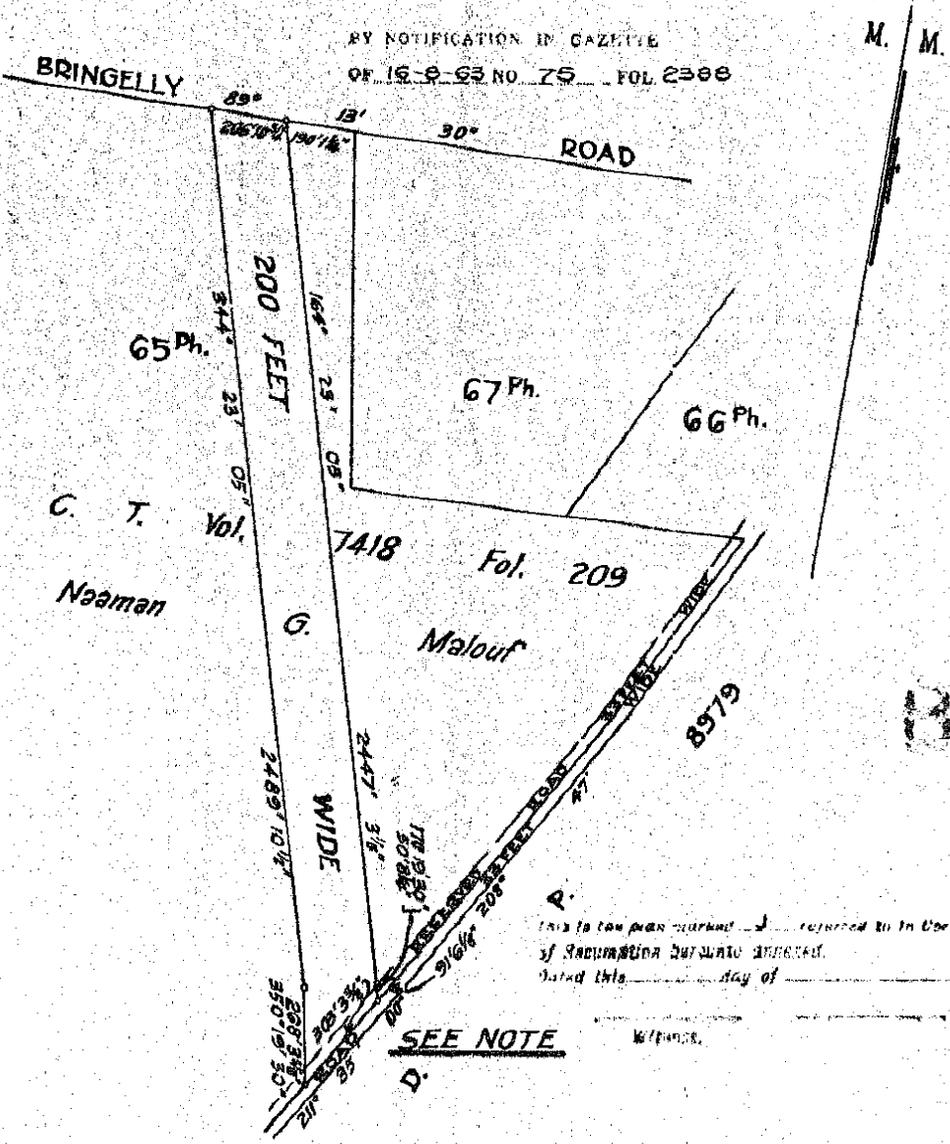
Parish of Cook County of Cumberland

Scale: 400 Feet to an inch

Note. Reserved Road 33 Feet Wide not included in easement.

EASEMENT FOR TRANSLINE RESUMED

BY NOTIFICATION IN GAZETTE
OF 15-9-63 NO. 75 VOL. 2388



A.
This is the plan marked J returned to the Department
of Public Works pursuant to Section 10 of the
Land Act, 1925, dated this _____ day of _____ 19____

SEE NOTE

J.T.S. Ryan & Co.
of J.T.S. Ryan & Co.,
Surveyor Registered under The Surveyors Act, 1929.
P. 5098

Date 7-3-1963

S.B.20632

S.B.20633

Municipality of City of Liverpool

Shire of



THE ELECTRICITY COMMISSION OF N.S.W.
DAPTO - SYDNEY WEST
330KV. TRANSMISSION LINE
PLAN

SHOWING SITE OF EASEMENT PROPOSED TO BE RESUMED FOR TRANSMISSION LINE

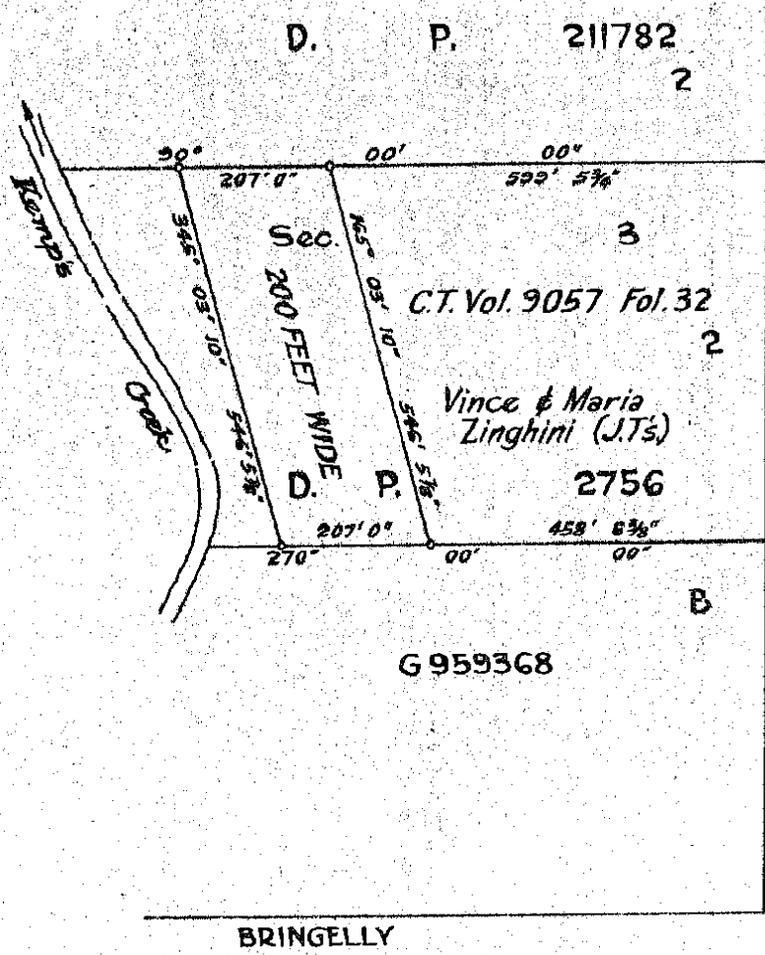
Parish of Cabramatta County of Cumberland

Scale: 200 Feet to an inch

EASEMENT FOR TRANSMISSION LINE RESUMED

BY NOTIFICATION IN GAZETTE

OF 16-8-63 NO. 75 VOL. 2998-9



As to the plan quarter K, referred to in Certificate
of Resumption herewith annexed.
Signed this _____ day of _____ 19____

Date 7-3-1963

J.T.S. Ryan & Co.
of J.T.S. Ryan & Co.
Surveyor Registered under The Surveyors Act, 1929.
P. 5099

S.B.20633

S.B.20634

Municipality of City of Liverpool

State of



THE ELECTRICITY COMMISSION OF N.S.W.

DAPTO - SYDNEY WEST

330KV. TRANSMISSION LINE

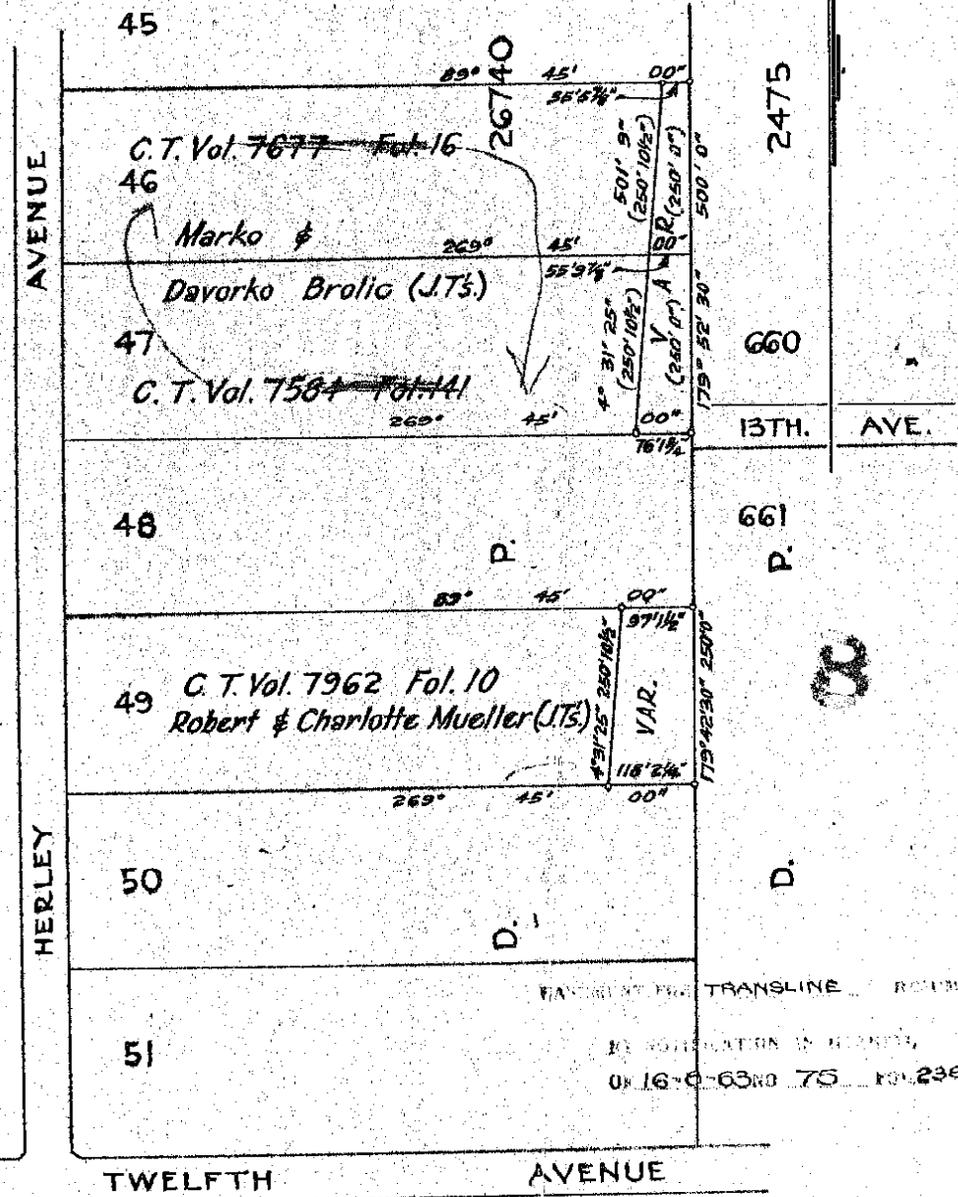
PLAN

SHOWING SITE OF EASEMENT PROPOSED TO BE RESUMED FOR TRANSMISSION LINE

Parish of Cabramatta County of Cumberland

Scale: 200 Feet to an inch

M. M.



in a to the plan marked ... returned to the Registrar-General
of Registration hereunder signed
and this day of

Date 7-3-1963

John Ryan
of J. T. S. Ryan & Co.
Surveyor Registered under The Surveyors Act, 1929.

P. 5100

S.B.20634

COMMISSION OF N.S.W.

SYDNEY WEST
COMMISSION LINE
PLAN



TO BE RESUMED FOR TRANSMISSION LINE

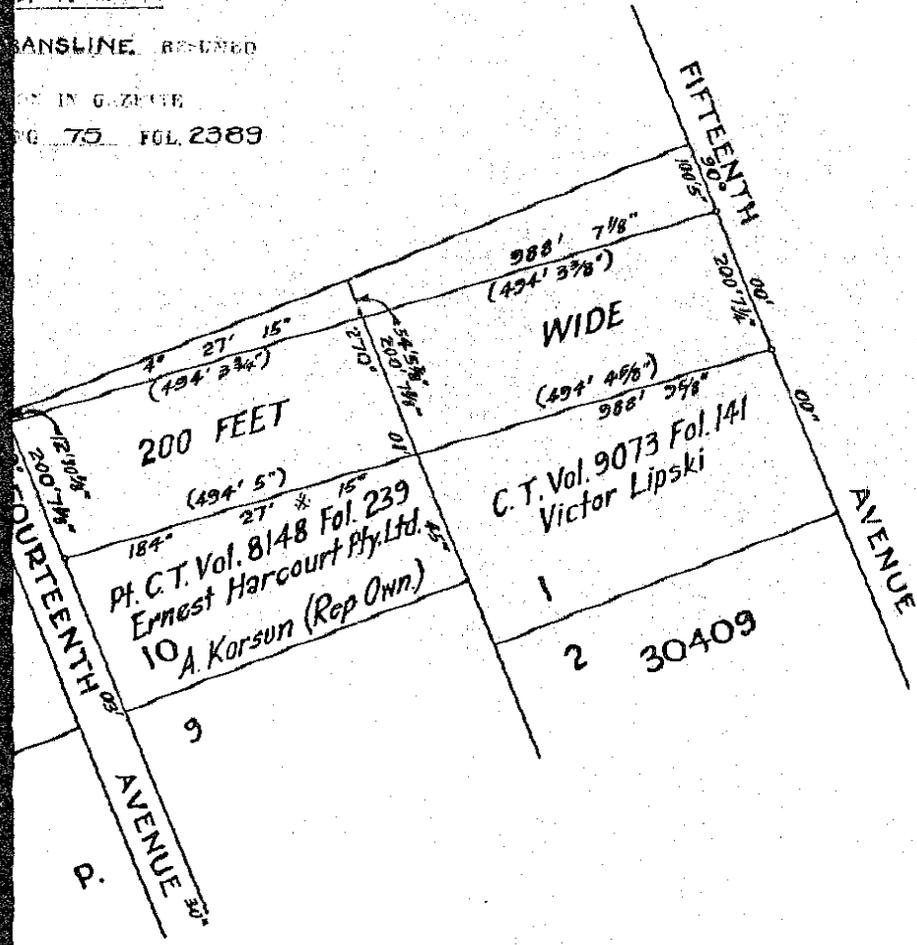
County of Cumberland

Scale to an inch

TRANSVERSE LINE REQUIRED

ON IN GAZETTE

NO. 75 VOL. 2389



S.B. 20635A

This is the plan marked M. referred to in the Certificate of Resumption herewith annexed.
Dated this _____ day of _____ 19__

Witness

J.T.S. Ryan & Co.
of J.T.S. Ryan & Co.
Surveyor Registered under The Surveyors Act, 1929.
P. 5101

Municipality of City of Liverpool
Shire of

THE ELECTRICITY CO
DAPTO - SYDNEY
330kV. TRANSMISSION LINE
PL

SHOWING SITE OF EASEMENT PROPOSED

Parish of Cabramatta

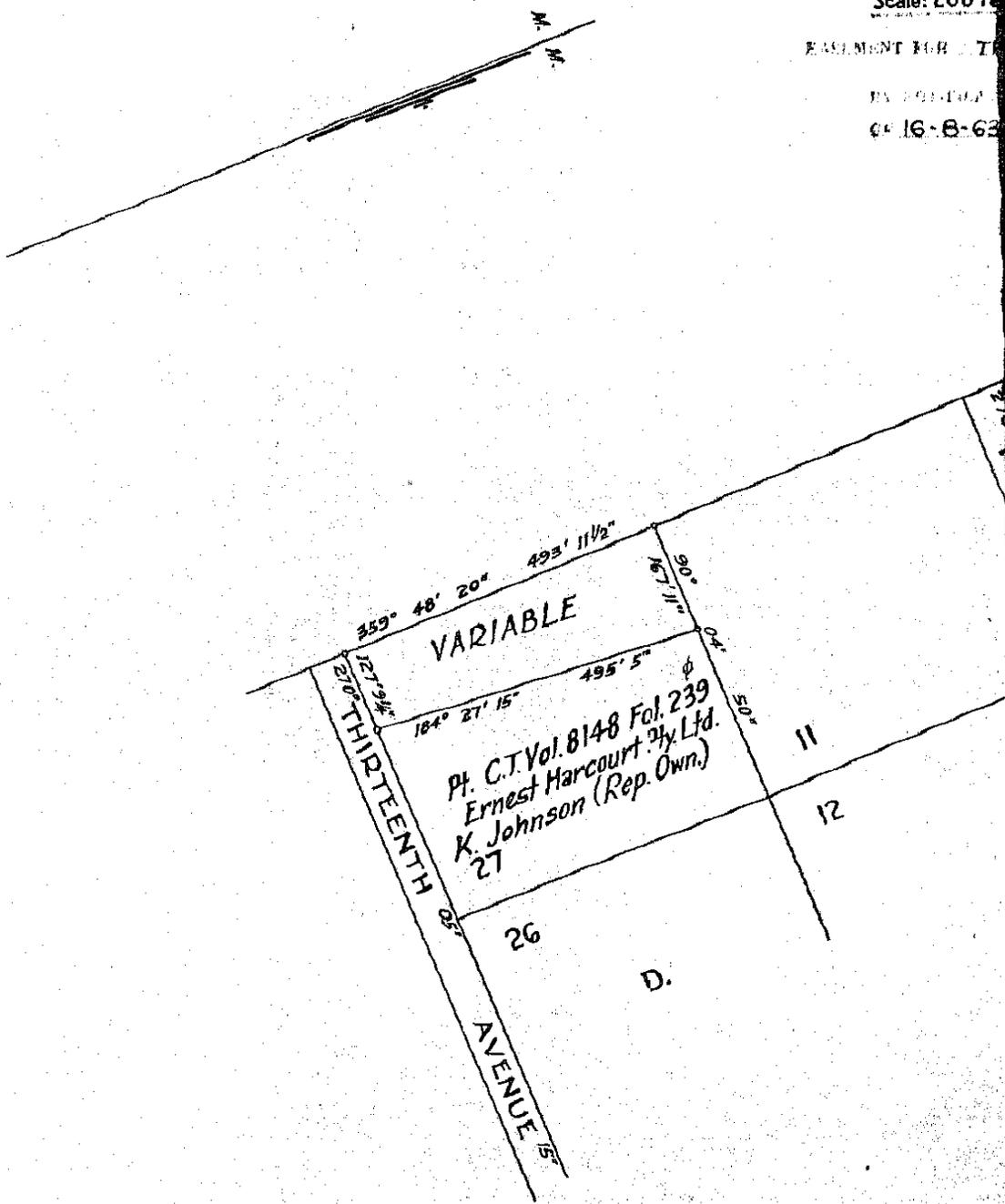
Scale: 200 Feet

EASEMENT FOR

BY

OF 16-8-63

S.B.20635A



Date: 7-3-1963

Vol. 9710 Fol. 177.

Vol. 9710 Fol. 168. 18/2/10/65

S.B.20637

~~Metropolitan~~ City of Penrith

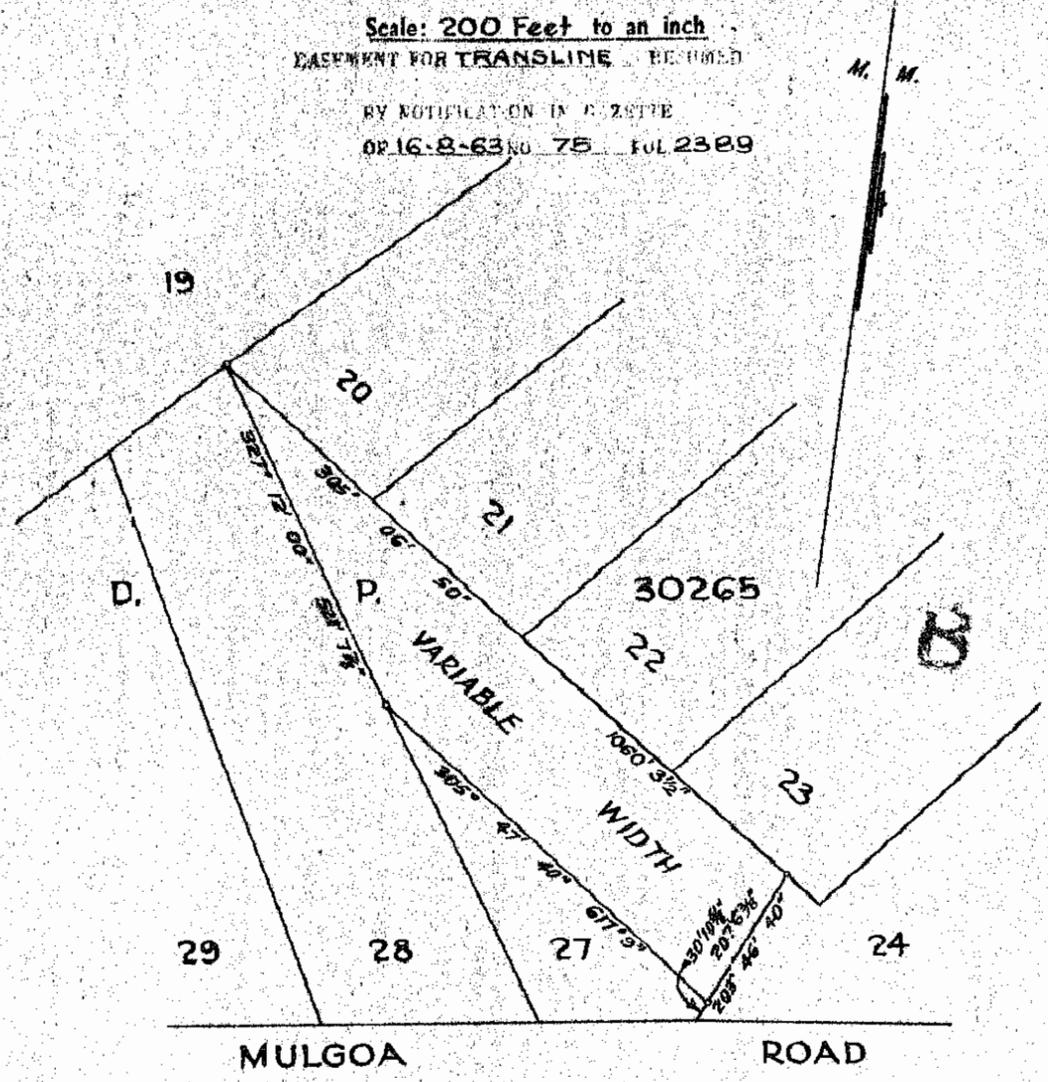
THE ELECTRICITY COMMISSION OF N.S.W.
DAPTO - SYDNEY WEST
330KV. TRANSMISSION LINE
PLAN



SHOWING SITE OF EASEMENT PROPOSED TO BE RESUMED FOR TRANSMISSION LINE

Parish of Melville County of Cumberland

Scale: 200 Feet to an inch
EASEMENT FOR TRANSMISSION LINE RESUMED
BY NOTIFICATION IN GAZETTE
OF 16-8-63 NO. 75 VOL. 2389



Lot 27, Pt. C.T. Vol. 8368 Fol. 146
Mt. Vernon Estates Pty. Ltd.
(Mrs.) N.J.S. McGrath (Rep. Ownr.)

Has to Plan shown in this ...
of Prescription ...
Dated this ... day of ... 19...

Date 7-3-1963

J.T.S. Ryan & Co.
of J.T.S. Ryan & Co.,
Surveyor Registered under The Surveyors Act, 1929.
P. 5103

S.B.20637

COMMISSION OF N.S.W.

SYDNEY WEST TRANSMISSION LINE PLAN

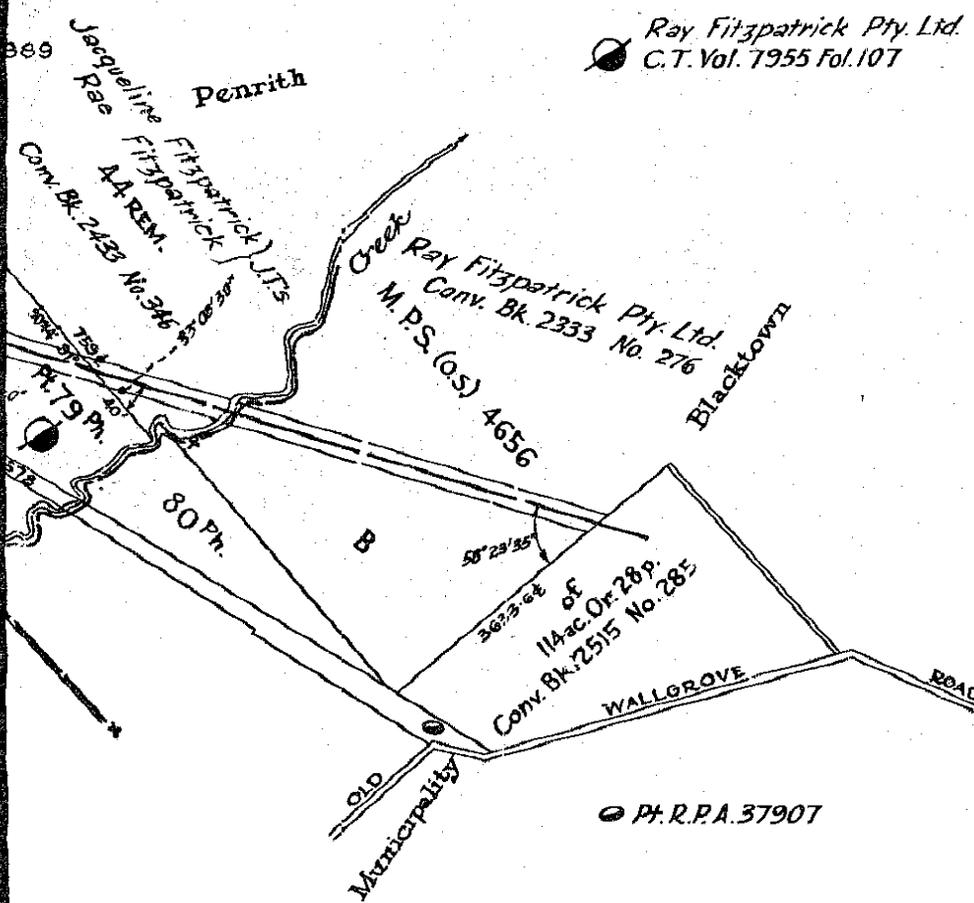
TO BE RESUMED FOR TRANSMISSION LINE

County of Cumberland

Scale to an inch

100 Feet

Ray Fitzpatrick Pty. Ltd.
C.T. Vol. 7955 Fol. 107



SB20639R

This is the plan intended to be resumed for the purposes of Resumption hereto annexed.
Dated this _____ day of _____ 19__

Witness

[Signature]
of J.T.S. Ryan & Co.
Surveyor Registered under The Surveyors Act, 1929.
P. 5105

Municipality of Blacktown & City of Penrith
Shire of

THE ELECTRICITY C
DAPTO - S
330KV. TRAN

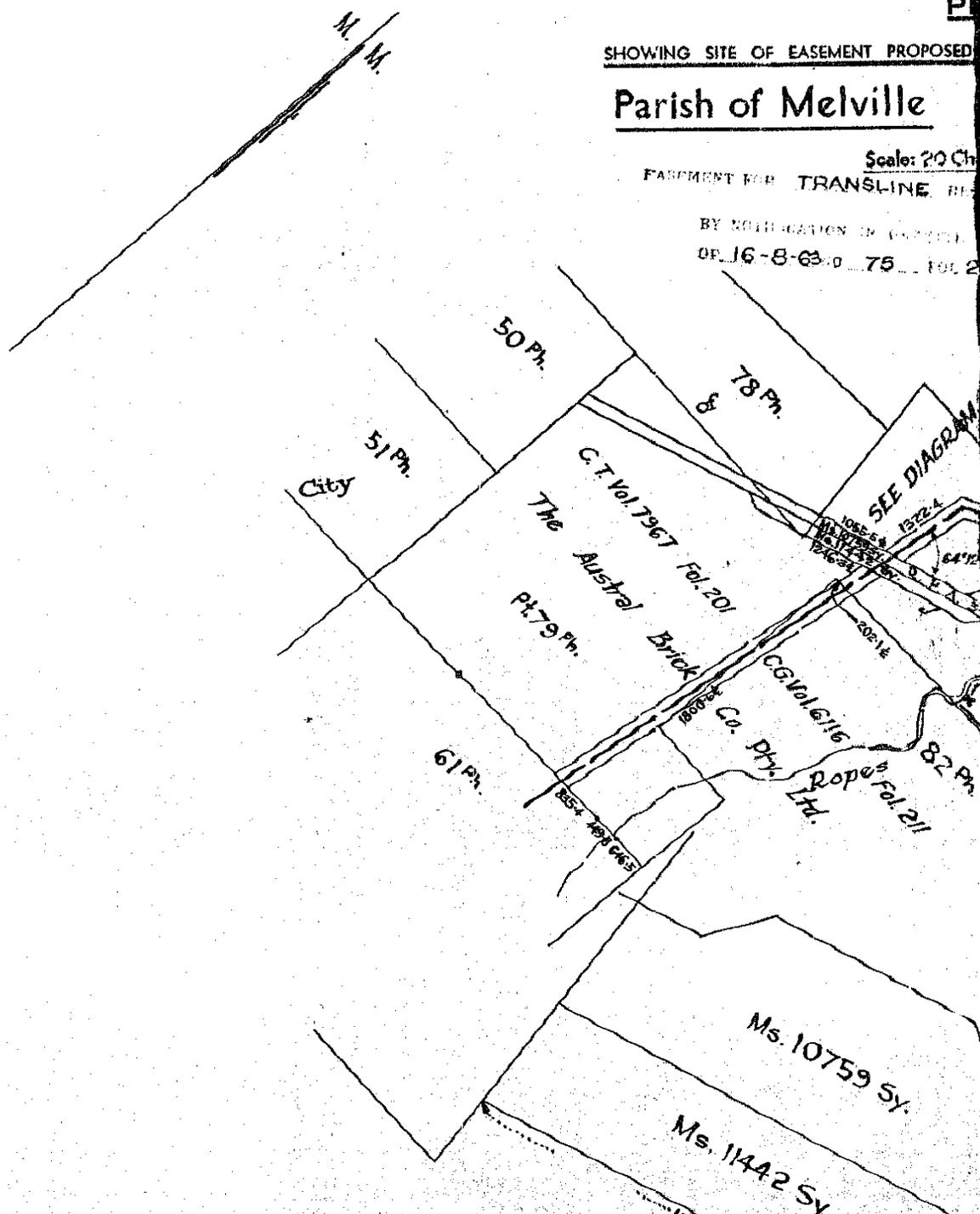
SHOWING SITE OF EASEMENT PROPOSED

Parish of Melville

Scale: 20 Ch

FARMERS FOR TRANSLINE

BY NOTIFICATION IN FORCE
OF 16-8-63. D 75 101 2



S.B. 20639A.

Centreline of transmission line shown
thus ——— forms centreline of
easement 200 feet wide.

DIAGRAM
Not to Scale.

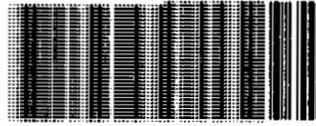
Date: 7-3-1963

97-11R



REQUEST

Real Property Act 1900



0
701820 Y

(A) **STAMP DUTY**
If applicable.

Office of State Revenue use only

(B) **TITLE**
Show no more than 20.

SEE SCHEDULE

(C) **REGISTERED DEALING**
If applicable.

SEE SCHEDULE

(D) **LODGED BY**

L.T.O. Box	Name, Address or DX and Telephone	Dealing Code
1170R	PETER HOPLEY 9 MARTIN STREET ROSELANDS, NSW, 2196 <small>REFERENCE (max 15 characters):</small>	

(E) **APPLICANT**

**THE NEW SOUTH WALES ELECTRICITY TRANSMISSION
AUTHORITY**

(F) **REQUEST**

REQUESTS:
The Registrar - General pursuant to Section 46C of the Real Property Act 1900, to record the **NEW SOUTH WALES ELECTRICITY TRANSMISSION AUTHORITY** as the proprietor of the estate and interest in the easements defined in the Schedule hereto, in respect of which the Electricity Commission of New South Wales is registered as proprietor, such estate and interest having been transferred to the New South Wales Electricity Transmission Authority by virtue of Clause 4 (1) of Schedule 2 to the Electricity Transmission Authority Act, 1994.

PETER HOPLEY
Authorised Agent of
New South Wales Electricity
Transmission Authority

CHECKED BY (office use only)
CT

DAPTO - SYDNEY WEST 330 KV TRANSMISSION LINE

INDEX	PLAN	TITLE & DESCRIPTION				METHOD OF CREATION			DEALING	
25	P5093	LOT 12	DP 28057	FI 12 / 28057 ✓	R.GG 16.8.1963	NO 75	FOL. 2388	J946972	EA	
		LOT 13	DP 28057	FI 13 / 28057 ✓	R.GG 16.8.1963	NO 75	FOL. 2388	J946972	EA	
		LOT 14	DP 28057	FI 14 / 28057 ✓	R.GG 16.8.1963	NO 75	FOL. 2388	J946972	EA	
		LOT 15	DP 28057	FI 15 / 28057 ✓	R.GG 16.8.1963	NO 75	FOL. 2388	J946972	EA	
26	P5322	LOT 13	DP 200915	FI 13 / 200915 ✓	R.GG 6.3.1964	NO 26	FOL. 721	J943054	EA	
		LOT 14	DP 200915	FI 14 / 200915 ✓	R.GG 6.3.1964	NO 26	FOL. 721	J943054	EA	
27	P5094	LOT 12	DP 200915	FI 12 / 200915 ✓	R.GG 16.8.1963	NO 75	FOL. 2388	J946972	EA	
28	P5323	LOT 30	DP 205952	FI 30 / 205952 ✓	R.GG 6.3.1964	NO 26	FOL. 721	J943054	EA	
		LOT 28	DP 205952	FI 28 / 205952 ✓	R.GG 6.3.1964	NO 26	FOL. 721	J943054	EA	
		LOT 27	DP 205952	FI 27 / 205952 ✓	R.GG 6.3.1964	NO 26	FOL. 721	J943054	EA	
		LOT 37	DP 205952	FI 37 / 205952	R.GG 6.3.1964	NO 26	FOL. 721	J943054	EA	
		LOT 40	DP 205952	FI 40 / 205952	R.GG 6.3.1964	NO 26	FOL. 721	J943054	EA	
		LOT 41	DP 205952	FI 41 / 205952	R.GG 6.3.1964	NO 26	FOL. 721	J943054	EA	
		LOT 38	DP 205952	FI 38 / 205952	R.GG 6.3.1964	NO 26	FOL. 721	J943054	EA	
		LOT 29	DP 205952	FI 29 / 205952 ✓	TRANSFER and GRANT			K308045	EA	
29	P5095	LOT 39	DP 205952	FI 39 / 205952	R.GG 16.8.1963	NO 75	FOL. 2388	J946972	EA	
30	P5438	LOT 17	DP 28459	FI 17 / 28459	R.GG 6.3.1964	NO 26	FOL. 721	J943054	EX	
		LOT 23	DP 28459	FI 23 / 28459	R.GG 6.3.1964	NO 26	FOL. 721	J943054	EX	
		LOT 20	DP 28459	FI 20 / 28459	R.GG 6.3.1964	NO 26	FOL. 721	J943054	EX	
		LOT 21	DP 28459	FI 21 / 28459	R.GG 6.3.1964	NO 26	FOL. 721	J943054	EX	

(G)

STANDARD EXECUTION

Certified correct for the purposes of the Real Property Act 1900.
Signed in my presence by the Applicant who is personally known to me.

DATE 20th November 1995

Elizabeth Mitchell

Signature of Witness

ELIZABETH MITCHELL

Name of Witness (BLOCK LETTERS)

4 NORTH LIVERPOOL ROAD, HECKENBERG, NSW, 2168

Address of Witness

Rever Hooley

Signature of Applicant

Authorised Agent of
New South Wales Electricity
Transmission Authority

EXECUTION INCLUDING STATUTORY DECLARATION

I make this solemn declaration conscientiously believing the same to be true and by virtue of the Oaths Act 1900, and I certify this Application correct for the purposes of the Real Property Act 1900. Made and subscribed at
in the State of on 19 in the presence of

Signature of Witness

Name of Witness (BLOCK LETTERS)

Address and Qualification of Witness

Signature of Applicant

THIS FORM MAY BE USED WHERE NEW RESTRICTIVE COVENANTS ARE IMPOSED ON EASEMENTS CREATED OR WHERE THE SIMPLE TRANSFER FORM IS UNSUITABLE.

R.P. 13A. No. (1)

EP 24 12 52 1951

Fees:—
 Lodgment 2
 Endorsement 2
 Certificate 2

New South Wales

MEMORANDUM OF TRANSFER
 (REAL PROPERTY ACT, 1900.)



4/10
 24/9/57



(Trusts must not be disclosed in the transfer.)

Typing or hand writing in this instrument should be legible and permanent.

I, COBBITT ESTATES PTY. LIMITED
 of 53 Martin Place Sydney.

(herein called transferor)

being registered as the proprietor of an estate in fee simple in the land hereinafter described, subject, however, to such encumbrances, liens and interests as are notified hereunder, in consideration of the sum of ONE THOUSAND FOUR HUNDRED AND TWENTY FIVE POUNDS (£1425.) (the receipt whereof is hereby acknowledged) paid to it by

If a less estate, in fee simple or otherwise, is intended, the required alteration should be made.

JOVAN KOVENC

do hereby transfer to

JOVAN KOVENC of 151 Glebe Road Glebe, Watchmaker.

(herein called transferee)

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

Show in BLOCK LETTERS the full name, postal address and description of the persons taking, and if more than one, whether they hold as joint tenants or tenants in common.

The description may refer to parcels shown in Town or Parish Maps issued by the Department of Lands or shown in the Office of the Registrar-General. If part only of the land comprised in a Certificate or Certificates of Title is to be transferred add "and being Lot ... D.P. ..." or "being the land shown in the plan annexed hereto" "being the residue of the land in certificate (or grant) registered in Vol. ... Fol. ..."

Where the consent of the Local Council to a subdivision is required the certificate and plan mentioned in the Local Government Act, 1919, should accompany the transfer.

County.	Parish.	Reference to Title.			Description of Land (if part only).
		Whole or Part.	Vol.	Fol.	
Cumberland ✓	Cook ✓	part ✓	1819 7370 ✓ NDW 7727 ✓	243 230 ✓ 122 ✓	Being Lot 13 in D.P. 5011-28057 ✓

43499/500

And the transferee covenant(s) with the transferor^d for the benefit of the adjoining land owned by the Transferor, namely Lots 12 and 14 on the said deposited plan, but only during the ownership thereof by the Transferor its successors and assigns other than purchasers on sale, that no fence shall be erected on the land hereby transferred to divide it from such adjoining land without the consent in writing of the transferor but such consent shall not be withheld if such fence is erected without expense to the transferor and in favour of any person dealing with the transferee or his assigns such consent shall be deemed to have been given in respect of every such fence for the time being erected AND this restriction may be released varied or modified by the registered proprietor or registered proprietors for the time being of such adjoining land. ✓

d Strike out if unnecessary, or suitably adjust.
(i) if any encumbrances are to be created or any exceptions to be made; or
(ii) if the statutory covenants implied by the Act are intended to be varied or modified.

Cover notes should comply with the provisions of Section 88 of the Conveyancing Act, 1919-1954.

ENCUMBRANCES, &c., REFERRED TO: ✓

* A very short note will suffice.
K 1145-2 & 2078-3

If the transfer or Trans-
feror sig- by a mark, the
attestation must state "that
the instru- ment was read over
and explained to him, and
that he appeared fully to
understan- the same."

Execution in New South
Wales may be proved if this
instrument is signed or
acknowledged before the
Registrar-General, or a Notary
Public, J.P., or Commis-
sioner for Affidavits, to
whom the Transferor is
known, or otherwise the attest-
ing witness should appear
before one of the above
functionaries who having
received a affirmative answer
to each of the questions set out
in Sec. 10 (1) (b) of the Real
Property Act should sign the
certificate at the foot of this
page.

Execution may be proved where
the parties are resident:—

(a) in any part of the British
dominions outside the State of
New South Wales by signing
or acknowledging before the
Registrar-General or Recorder
of Titles or such Possession, or
before a Judge, Notary
Public, Justice of the Peace
for New South Wales, or
Commissioner for taking affi-
davits for New South Wales,
or Mayor or Chief Officer of any
municipal or local government
corporation of such part, or
Justice of the Peace for such
part, or the Governor, Govern-
ment Resident, or Chief Sec-
retary of such part or such
other person as the Chief Justice
of New South Wales may
appoint.

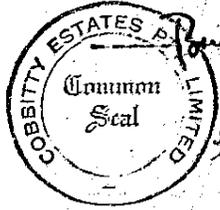
(b) in the United Kingdom
by signing or acknowledging
before the Mayor or Chief
Officer of any corporation or a
Notary Public.

(c) in any foreign place by
signing or acknowledging before
(i) a British Consular Officer
(which includes a British
Ambassador, Envoy, Minister,
Chargé d'Affaires, Secretary of
Embassy or Legation, Consul-
General, Acting Consul-General,
Consul, Acting Consul, Vice-
Consul, Acting Vice-Consul,
Pro-Consul, Consular Agent and
Acting Consular Agent), (ii)
an Australian Consular Officer
(which includes an Ambassador,
High Commissioner, Minister,
Head of Mission, Commissioner,
Chargé d'Affaires, Counsellor
or Secretary at an Embassy,
High Commissioner's Office or
Legation, Consul-General,
Consul, Vice-Consul, Trade
Commissioner and Consular
Agent), who should affix his
seal of office or the attesting
witness may make a declaration
of the due execution thereof
before one of such persons
(who should sign and affix
his seal to such declaration),
or such other person as the
said Chief Justice may appoint.

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

Signed at Sydney the 15th day of September 1959

Signed in my presence by the transferor
WHO IS PERSONALLY KNOWN TO ME



James Henry Dredge
Transferor.

J. E. Mulla
Secretary

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

B. H. King
John
Ady

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

J. E. Mulla

Transferee(s).

MEMORANDUM AS TO NON-REVOCATION OF POWER OF ATTORNEY.

(To be signed at the time of executing the within instrument.)

Memorandum where by 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 transfer.

Signed at _____ the _____ day of _____ 19____
Signed in the presence of— _____

CERTIFICATE OF J.P., &c., TAKING DECLARATION OF ATTESTING WITNESS.*

Appeared before me at _____, the _____ day of _____, one thousand
_____ 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.

* To be signed by Registrar-
General, Deputy Registrar-
General, 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.

* 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 Transferor or his Solicitor or Conveyancer, and renders any person falsely or negligently
certifying that of him liable to a penalty of £50; also to damages recoverable by parties injured. Acceptances 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 Transferor cannot be obtained without difficulty, and when the instrument does not impose a liability on the party
taking up the instrument. When the instrument contains some special covenant by the Transferor or is subject to a mortgage, encumbrance or lease, the Transferor 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.

No. **II 313546**

LODGED BY McLACHLAN HOARE ANN & CO.
Solicitors
6 Wood Street. (47 BX 241)
Sgt.
HERBERT SMITH & W. B. HILLIPS
SOLICITORS

FEEES.

The Fees, which are payable on lodgment, are as follows:—

(a) £2 where the memorandum of transfer is accompanied by the relevant Certificate of Title or Crown Grants, otherwise £2 5s. 0d. Where such instrument is to be endorsed on more than one folium of the register, an additional charge of 5s. is made for every Certificate of Title or Crown Grant after the first.

(b) A supplementary charge of 10s. is made in each of the following—
 (i) where a restrictive covenant is imposed; or
 (ii) a new easement is created; or
 (iii) a partial discharge of mortgage is endorsed on the transfer.

(c) Where a new Certificate of Title must issue the scale charges are—
 (i) £2 for every Certificate of Title not exceeding 15 folios and without diagram;
 (ii) £2 10s. 0d. for every Certificate of Title not exceeding 15 folios with one simple diagram;
 (iii) as approved where more than one simple diagram, or an extensive diagram will appear.
 Where the engrossing exceeds 15 folios, an amount of 5s. per folium, extra fee is payable.

DOCUMENTS 35 DUFF STREET SYDNEY

To be filled in by person lodging dealing.

1 _____
 2 _____
 3 _____
 4 _____
 5 _____
 6 _____

} Received De s.
 Nos.
 } Receiving Clerk

PARTIAL DISCHARGE OF MORTGAGE.
 (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 comprised in such mortgage.

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.

Dated at _____ this _____ day of _____ 19 _____
 Signed in my presence by _____

_____ who is personally known to me. _____ Mortgagee.

LEAVE THESE SPACES FOR DEPARTMENTAL USE.

INDEXED	MEMORANDUM OF TRANSFER <i>Subject to Covenant!</i>
Checked by <i>[Signature]</i>	Particulars entered in Register Book, Volume <u>7727</u> Folio <u>122</u>
Passed (in S.D.E.) by <i>[Signature]</i>	the <u>27th</u> day of <u>October</u> 19 <u>57</u> at _____ _____ minutes past _____ o'clock in the <u>fore</u> noon.
Signed by <i>[Signature]</i>	<i>[Signature]</i> Registrar-General

PROGRESS RECORD.

	Initials.	Date.
Sent to Survey Branch		
Received from Records		
Draft written	<i>[Signature]</i>	15/10
Draft examined	<i>[Signature]</i>	20/10/57
Diagram prepared		
Diagram examined		
Draft forwarded		
Supt. of Engrossers	<i>[Signature]</i>	4/11
Cancellation Clerk		

Vol. **7790** Fol. **202**

H313547 to follow



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

APPLICANT: InfoTrack Pty Ltd
135 King Street
NSW 2000

Certificate number: 20233205
Reference number: 1265059
Certificate issue date: 14/04/2025
Certificate fee: \$69.00
Applicant's reference: CT-55 (JC) Hulls Rd
Property number: 1195907
Applicant's email: ecertificates@infotrack.com.au

DESCRIPTION OF PROPERTY

Land Description: LOT: 1001 DP: 1307503
Address: **15 George Road LEPPINGTON NSW 2179**

BACKGROUND INFORMATION

This certificate provides information on how a property (such as land, a house, commercial building, etc.,) may be used and the limits on its development. The certificate contains information Council is aware of through records and environmental plans with data supplied by the State Government. The details contained in this certificate are limited to that required by Section 10.7 of the Environmental Planning and Assessment Act 1979 (the Act).



1 NAMES OF RELEVANT PLANNING INSTRUMENTS AND DEVELOPMENT CONTROL PLANS

(1) The name of each environmental planning instrument and development control plan that applies to the carrying out of development on the land.

(2) The name of each proposed environmental planning instrument and draft development control plan, which is or has been subject to community consultation or public exhibition under the Act, that will apply to the carrying out of development on the land.

(3) Subsection (2) does not apply in relation to a proposed environmental planning instrument or draft development control plan if—

(a) it has been more than 3 years since the end of the public exhibition period for the proposed instrument or draft plan, or

(b) for a proposed environmental planning instrument—the Planning Secretary has notified the council that the making of the proposed instrument has been deferred indefinitely or has not been approved.

(4) In this section—

proposed environmental planning instrument means a draft environmental planning instrument and includes a planning proposal for a local environmental plan.

STATE ENVIRONMENTAL PLANNING POLICIES (SEPPs)

SEPP (Exempt and Complying Development Codes) 2008

SEPP (Housing) 2021

SEPP (Planning Systems) 2021

SEPP (Biodiversity and Conservation) 2021

SEPP (Resilience and Hazards) 2021

SEPP (Transport and Infrastructure) 2021

SEPP (Industry and Employment) 2021

SEPP (Resources and Energy) 2021

SEPP (Primary Production) 2021

SEPP (Precincts - Western Parkland City) 2021

SEPP (Sustainable Buildings) 2022

Note: The above SEPPs may apply subject to the relevant criteria and requirements as listed in each chapter of the policies.

LOCAL ENVIRONMENTAL PLANS (LEPs)

The land is not within a Local Environmental Plan.



DEVELOPMENT CONTROL PLANS (DCPs)

Camden Growth Centre Precincts Development Control Plan, as amended

PROPOSED STATE ENVIRONMENTAL PLANNING POLICIES (SEPPs)

SEPP (Housing) 2021 - Proposed amendments - manufactured home estates, caravan parks and camping grounds

SEPP (Transport and Infrastructure) 2021 – Proposed amendments – temporary uses in future infrastructure corridors; improving planning processes to deliver infrastructure faster

SEPP (Exempt and Complying Development Codes) 2008 - Proposed amendments – complying development for farm buildings, rural sheds and earthworks; Cultural SEPP (proposed changes to support events and activities)

PROPOSED LOCAL ENVIRONMENTAL PLANS (LEPs)

No.

DRAFT DEVELOPMENT CONTROL PLANS (DCPs)

Draft Camden Growth Centre Precincts DCP – Housekeeping Amendment

Note: The above draft SEPPs, draft LEPs or draft DCPs may apply subject to the relevant criteria and requirements as listed in each of these draft instruments.

2 ZONING AND LAND USE UNDER RELEVANT PLANNING INSTRUMENTS

The following matters apply for each environmental planning instrument or draft environmental planning instrument that includes the land in a zone, however described—

(a) ZONE R2 LOW DENSITY RESIDENTIAL - CAMDEN GROWTH CENTRES PRECINCT PLAN

(b) In this zone, development for the following purposes is -

(i) Permitted without consent

Home-based child care; Home occupations

(ii) Permitted with consent

Bed and breakfast accommodation; Boarding houses; Business identification signs; Centre-based child care facilities; Community facilities; Drainage; Dual occupancies; Dwelling houses; Earthworks; Educational establishments; Environmental facilities; Environmental protection works; Exhibition homes; Exhibition villages; Flood mitigation works; Group homes; Health consulting rooms; Home businesses; Home industries; Information and education facilities; Neighbourhood shops; Places of public worship; Recreation areas; Recreation facilities (indoor); Recreation facilities (outdoor); Roads; Secondary dwellings; Semi-detached dwellings; Seniors housing; Shop top housing; Studio dwellings; Veterinary hospitals; Waterbodies (artificial)

(iii) Prohibited



Any development not specified in item (i) or (ii)

(a) ZONE SP2 INFRASTRUCTURE - CAMDEN GROWTH CENTRES PRECINCT PLAN

(b) In this zone, development for the following purposes is -

(i) Permitted without consent

Roads

(ii) Permitted with consent

The purpose shown on the Land Zoning Map, including any development that is ordinarily incidental or ancillary to development for that purpose

(iii) Prohibited

Any development not specified in item (i) or (ii)

(c) Whether additional permitted uses apply to the land,

No.

(d) Whether development standards applying to the land fix minimum land dimensions for the erection of a dwelling house on the land and, if so, the fixed minimum land dimensions,

R2 Low Density Residential:

Camden Growth Centres Precinct Plan, Section 4.1AB, fixes a minimum 300m² for the erection of a dwelling house in the R2 Low Density Residential zone, however exceptions apply in circumstances as specified under Sections 4.1AD, 4.1AE and 4.1AF for minimum land dimensions of 250m², 225m² and 200m²

(e) Whether the land is in an area of outstanding biodiversity value under the Biodiversity Conservation Act 2016,

No.

(f) Whether the land is in a conservation area, however described,

No.

(g) Whether an item of environmental heritage however described, is located on the land

No.

3 CONTRIBUTIONS



(1) The name of each contributions plan under the Act, Division 7.1 applying to the land, including draft contributions plans

Camden Growth Areas Contributions Plan Amendment 3.

Camden Section 7.11 Contributions Plan – Heavy Haulage 2023

Camden Section 7.12 Development Contributions Plan 2023

(2) If the land is in a region within the meaning of the Act, Division 7.1, Subdivision 4 –

(a) the name of the region

No

(b) the name of the Ministerial planning order in which the region is identified

No

(3) If the land is in a special contributions area to which a continued 7.23 determination applies, the name of the area

Western Sydney Growth Areas Special Contributions Area

(4) In this section—

continued 7.23 determination means a 7.23 determination that—

(a) has been continued in force by the Act, Schedule 4, Part 1, and

(b) has not been repealed as provided by that part.

Note: The Act, Schedule 4, Part 1 contains other definitions that affect the interpretation of this section.

4 COMPLYING DEVELOPMENT

(1) If the land is land on which complying development may be carried out under each of the complying development codes under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008, because of that Policy, clause 1.17A(1)(c)–(e), (2), (3) or (4), 1.18(1)(c3) or 1.19.

(2) If complying development may not be carried out on the land because of one of those clauses, the reasons why it may not be carried out under the clause.

(3) If the council does not have sufficient information to ascertain the extent to which complying development may or may not be carried out on the land, a statement that—

(a) a restriction applies to the land, but it may not apply to all of the land, and

(b) the council does not have sufficient information to ascertain the extent to which complying development may or may not be carried out on the land.



(4) If the complying development codes are varied, under that Policy, clause 1.12, in relation to the land.

HOUSING CODE

Complying development MAY or MAY NOT be carried out on the land. Council does not have sufficient information to ascertain or identify the extent to which complying development may or may not be carried out on the land. The land is either wholly or partially affected by specific land use exclusions in relation to complying development, as listed below,

* The land is reserved for a public purpose.

RURAL HOUSING CODE

Complying development MAY or MAY NOT be carried out on the land. Council does not have sufficient information to ascertain or identify the extent to which complying development may or may not be carried out on the land. The land is either wholly or partially affected by specific land use exclusions in relation to complying development, as listed below,

* The land is reserved for a public purpose.

LOW RISE HOUSING DIVERSITY CODE

Complying development MAY or MAY NOT be carried out on the land. Council does not have sufficient information to ascertain or identify the extent to which complying development may or may not be carried out on the land. The land is either wholly or partially affected by specific land use exclusions in relation to complying development, as listed below,

* The land is reserved for a public purpose.

Note: Under clause 1.19(3B) of the SEPP (Exempt and Complying Development Codes) 2008, development specified in the Low Rise Housing Diversity Code is not complying development under that code if the development is—

- (a) for the purposes of dual occupancies, and
- (b) carried out on land in Zone R2 Low Density Residential, and
- (c) permitted with development consent under SEPP (Housing) 2021, Chapter 3, Part 12 but not under another environmental planning instrument.

AGRITOURISM AND FARM STAY ACCOMMODATION CODE

Complying development MAY or MAY NOT be carried out on the land. Council does not have sufficient information to ascertain or identify the extent to which complying development may or may not be carried out on the land. The land is either wholly or partially affected by specific land use exclusions in relation to complying development, as listed below,

* The land is reserved for a public purpose.

GREENFIELD HOUSING CODE



Complying development MAY or MAY NOT be carried out on the land. Council does not have sufficient information to ascertain or identify the extent to which complying development may or may not be carried out on the land. The land is either wholly or partially affected by specific land use exclusions in relation to complying development, as listed below,

* The land is reserved for a public purpose.

Note: The Greenfield Housing Code only applies to certain land within the Camden Local Government Area. Under Clause 3C.1 of the SEPP (Exempt and Complying Development Codes) 2008, the code applies to land identified within the Greenfield Housing Code Area, as shown on the Greenfield Housing Code Area Maps.

INLAND CODE

The Inland Code does not apply to the Camden Local Government Area.

HOUSING ALTERATIONS CODE

Complying development MAY be carried out on the land.

GENERAL DEVELOPMENT CODE

Complying development MAY be carried out on the land.

INDUSTRIAL AND BUSINESS ALTERATIONS CODE

Complying development MAY be carried out on the land.

INDUSTRIAL AND BUSINESS NEW BUILDINGS CODE

Complying development MAY or MAY NOT be carried out on the land. Council does not have sufficient information to ascertain or identify the extent to which complying development may or may not be carried out on the land. The land is either wholly or partially affected by specific land use exclusions in relation to complying development, as listed below,

* The land is reserved for a public purpose.

CONTAINER RECYCLING FACILITIES CODE

Complying development MAY be carried out on the land.

SUBDIVISIONS CODE

Complying development MAY be carried out on the land.

DEMOLITION CODE



Complying development MAY be carried out on the land.

FIRE SAFETY CODE

Complying development MAY be carried out on the land.

Where complying development MAY be carried out, on land not affected by exclusions, it is subject to the requirements and standards of the SEPP and the relevant Codes, including requirements relating to the zoning of the land.

5 EXEMPT DEVELOPMENT

(1) If the land is land on which exempt development may be carried out under each of the exempt development codes under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008, because of that Policy, clause 1.16(1)(b1)–(d) or 1.16A.

(2) If exempt development may not be carried out on the land because of one of those clauses, the reasons why it may not be carried out under the clause.

(3) If the council does not have sufficient information to ascertain the extent to which exempt development may or may not be carried out on the land, a statement that—

(a) a restriction applies to the land, but it may not apply to all of the land, and

(b) the council does not have sufficient information to ascertain the extent to which exempt development may or may not be carried out on the land.

(4) If the exempt development codes are varied, under that Policy, clause 1.12, in relation to the land.

GENERAL EXEMPT DEVELOPMENT CODE

Exempt development MAY be carried out on the land

ADVERTISING AND SIGNAGE EXEMPT DEVELOPMENT CODE

Exempt development MAY be carried out on the land

TEMPORARY USES AND STRUCTURES EXEMPT DEVELOPMENT CODE

Exempt development MAY be carried out on the land

Where exempt development MAY be carried out, on land not affected by exclusions, it is subject to the requirements and standards of the SEPP and the relevant Codes, including requirements relating to the zoning of the land.

6 AFFECTED BUILDING NOTICES AND BUILDING PRODUCT RECTIFICATION ORDERS

(1) Whether the council is aware that—



- (a) an affected building notice is in force in relation to the land, or
- (b) a building product rectification order is in force in relation to the land that has not been fully complied with, or
- (c) a notice of intention to make a building product rectification order given in relation to the land is outstanding.

(2) In this section—

affected building notice has the same meaning as in the Building Products (Safety) Act 2017, Part 4.

building product rectification order has the same meaning as in the Building Products (Safety) Act 2017.

No.

7 LAND RESERVED FOR ACQUISITION

Whether an environmental planning instrument or proposed environmental planning instrument referred to in section 1 makes provision in relation to the acquisition of the land by an authority of the State, as referred to in the Act, section 3.15.

Yes, clause 5.1 of the Camden Growth Centres Precinct Plan applies to the land as shown on the Land Reservation Acquisition Maps under State Environmental Planning Policy (Precincts—Western Parkland City) 2021.

8 ROAD WIDENING AND ROAD REALIGNMENT

Whether the land is affected by road widening or road realignment under—

- (a) the Roads Act 1993, Part 3, Division 2, or
- (b) an environmental planning instrument, or
- (c) a resolution of the council.

No.

9 FLOOD RELATED DEVELOPMENT CONTROLS

(1) If the land or part of the land is within the flood planning area and subject to flood related development controls.

No response required

(2) If the land or part of the land is between the flood planning area and the probable maximum flood and subject to flood related development controls.

No response required



(3) In this section—

flood planning area has the same meaning as in the Flood Risk Management Manual.

Flood Risk Management Manual means the Flood Risk Management Manual, ISBN 978-1-923076-17-4, published by the NSW Government in June 2023.

probable maximum flood has the same meaning as in the Flood Risk Management Manual.

10 COUNCIL AND OTHER PUBLIC AUTHORITY POLICIES ON HAZARD RISK RESTRICTIONS

(1) Whether any of the land is affected by an adopted policy that restricts the development of the land because of the likelihood of land slip, bush fire, tidal inundation, subsidence, acid sulfate soils, contamination, aircraft noise, salinity, coastal hazards, sea level rise or another risk, other than flooding.

(2) In this section—

adopted policy means a policy adopted—

(a) by the council, or

(b) by another public authority, if the public authority has notified the council that the policy will be included in a planning certificate issued by the council.

LAND SLIP

The subject land is not affected by a policy adopted by the Council or with Council being notified of a policy adopted by any other public authority that restricts the development of the subject land because of the likelihood of landslip.

BUSH FIRE

The subject land is not affected by a policy adopted by the Council or with Council being notified of a policy adopted by any other public authority that restricts the development of the subject land because of the likelihood of bushfire.

TIDAL INUNDATION

The subject land is not affected by a policy adopted by the Council or with Council being notified of a policy adopted by any other public authority that restricts the development of the subject land because of the likelihood of tidal inundation.

SUBSIDENCE

The subject land is not affected by a policy adopted by the Council or with Council being notified of a policy adopted by any other public authority that restricts the development of the subject land because of the likelihood of subsidence.

ACID SULFATE SOILS



The subject land is not affected by a policy adopted by the Council or with Council being notified of a policy adopted by any other public authority that restricts the development of the subject land because of the likelihood of acid sulfate soils.

CONTAMINATION

Council's policy 'Management of Contaminated Lands' applies to the whole of the council area and may restrict, development of land. The policy is implemented when zoning or land use changes are proposed, or when further development is proposed, where land has been used for contaminating or potentially contaminating activities, including those activities listed in schedule 1 of the policy. A copy of the policy is available on Council's website.

AIRCRAFT NOISE

The subject land is not affected by a policy adopted by the Council or with Council being notified of a policy adopted by any other public authority that restricts the development of the subject land because of the likelihood of aircraft noise.

SALINITY

There are requirements for salinity and salinity assessment for specific types of development within the Camden local government area. This includes mandatory building requirements, unless other requirements are identified in any site specific salinity risk assessment or salinity management plan applying to the land. Please refer to the requirements in the relevant Development Control Plan that applies to the land.

COASTAL HAZARDS

The subject land is not affected by a policy adopted by the Council or with Council being notified of a policy adopted by any other public authority that restricts the development of the subject land because of the likelihood of coastal hazards.

SEA LEVEL RISE

The subject land is not affected by a policy adopted by the Council or with Council being notified of a policy adopted by any other public authority that restricts the development of the subject land because of the likelihood of sea level rise.

11 BUSH FIRE PRONE LAND

(1) If any of the land is bush fire prone land, designated by the Commissioner of the NSW Rural Fire Service under the Act, section 10.3, a statement that all or some of the land is bush fire prone land.

(2) If none of the land is bush fire prone land, a statement to that effect.

No.

12 LOOSE-FILL ASBESTOS INSULATION

If the land includes residential premises, within the meaning of the Home Building Act 1989, Part 8, Division 1A, that are listed on the Register kept under that Division, a statement to that effect.



No.

13 MINE SUBSIDENCE

Whether the land is declared to be a mine subsidence district, within the meaning of the Coal Mine Subsidence Compensation Act 2017.

No.

14 PAPER SUBDIVISION INFORMATION

(1) The name of a development plan adopted by a relevant authority that—

- (a) applies to the land, or
- (b) is proposed to be subject to a ballot.

(2) The date of a subdivision order that applies to the land.

(3) Words and expressions used in this section have the same meaning as in the Environmental Planning and Assessment Regulation 2021, Part 10 and the Act, Schedule 7.

Not Applicable

15 PROPERTY VEGETATION PLANS

If the land is land in relation to which a property vegetation plan is approved and in force under the Native Vegetation Act 2003, Part 4, a statement to that effect, but only if the council has been notified of the existence of the plan by the person or body that approved the plan under that Act.

No.

16 BIODIVERSITY STEWARDSHIP SITES

If the land is a biodiversity stewardship site under a biodiversity stewardship agreement under the Biodiversity Conservation Act 2016, Part 5, a statement to that effect, but only if the council has been notified of the existence of the agreement by the Biodiversity Conservation Trust.

Note: Biodiversity stewardship agreements include biobanking agreements under the Threatened Species Conservation Act 1995, Part 7A that are taken to be biodiversity stewardship agreements under the Biodiversity Conservation Act 2016, Part 5.

No.

17 BIODIVERSITY CERTIFIED LAND

If the land is biodiversity certified land under the Biodiversity Conservation Act 2016, Part 8, a statement to that effect.



Note: Biodiversity certified land includes land certified under the Threatened Species Conservation Act 1995, Part 7AA that is taken to be certified under the Biodiversity Conservation Act 2016, Part 8.

All or part of the subject land is biodiversity certified land, under Part 8 of the Biodiversity Conservation Act 2016, or under Part 7AA and/or Schedule 7 Part 7 of the Threatened Species Conservation Act 1995, which remain in force under the Biodiversity Conservation (Savings and Transitional) Regulation 2017.

For more information about biodiversity certification, and the extent of the property that is certified, please visit: www.camden.nsw.gov.au/environment/biodiversity

18 ORDERS UNDER TREES (DISPUTES BETWEEN NEIGHBOURS) ACT 2006

Whether 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.

19 ANNUAL CHARGES UNDER LOCAL GOVERNMENT ACT 1993 FOR COASTAL PROTECTION SERVICES THAT RELATE TO EXISTING COASTAL PROTECTION WORKS

Not Applicable.

20 WESTERN SYDNEY AEROTROPOLIS

Whether under State Environmental Planning Policy (Precincts—Western Parkland City) 2021, Chapter 4 the land is—

(a) in an ANEF or ANEC contour of 20 or greater, as referred to in that Chapter, section 4.17,

No.

(b) or shown on the Lighting Intensity and Wind Shear Map,

No.

(c) or shown on the Obstacle Limitation Surface Map,

Yes, the subject land is shown on the Obstacle Limitation Surface Map.

(d) or in the “public safety area” on the Public Safety Area Map,

No.

(e) or in the “3 kilometre wildlife buffer zone” or the “13 kilometre wildlife buffer zone” on the Wildlife Buffer Zone Map.

Yes, the subject land is located within the 13 kilometre Wildlife Buffer Zone.



21 DEVELOPMENT CONSENT CONDITIONS FOR SENIORS HOUSING

If State Environmental Planning Policy (Housing) 2021, Chapter 3, Part 5 applies to the land, any conditions of a development consent granted after 11 October 2007 in relation to the land that are of the kind set out in that Policy, section 88(2).

No.

22 SITE COMPATIBILITY CERTIFICATES AND DEVELOPMENT CONSENT CONDITIONS FOR AFFORDABLE RENTAL HOUSING

(1) Whether there is a current site compatibility certificate under State Environmental Planning Policy (Housing) 2021, or a former site compatibility certificate, of which the council is aware, in relation to proposed development on the land and, if there is a certificate—

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

No.

(2) If State Environmental Planning Policy (Housing) 2021, Chapter 2, Part 2, Division 1 or 5 applies to the land, any conditions of a development consent in relation to the land that are of a kind referred to in that Policy, section 21(1) or 40(1).

No.

(3) Any conditions of a development consent in relation to land that are of a kind referred to in State Environmental Planning Policy (Affordable Rental Housing) 2009, clause 17(1) or 38(1).

No.

(4) In this section—

former site compatibility certificate means a site compatibility certificate issued under State Environmental Planning Policy (Affordable Rental Housing) 2009.

23 WATER OR SEWERAGE SERVICES

If water or sewerage services are, or are to be, provided to the land under the Water Industry Competition Act 2006, a statement to that effect.

Not applicable.

Note: A public water utility may not be the provider of some or all of the services to the land. If a water or sewerage service is provided to the land by a licensee under the Water Industry Competition Act 2006, a contract for the service will be deemed to have been entered into between the licensee and the owner of the land. A register relating to approvals and licences necessary for the provision of water or sewerage services under the Water Industry Competition Act 2006 is maintained by the Independent Pricing and Regulatory Tribunal and provides information about the areas serviced, or to be serviced, under that Act. Purchasers should check the register to understand who will service the property. Outstanding charges for water or sewerage services provided under the Water Industry Competition Act 2006 become the responsibility of the purchaser.



MATTERS PRESCRIBED BY SECTION 59 (2) OF THE CONTAMINATED LAND MANAGEMENT ACT 1997

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) that the land to which the certificate relates is significantly contaminated land within the meaning of that Act—if the land (or part of the land) is significantly contaminated land at the date when the certificate is issued,

No.

(b) that the land to which the certificate relates is subject to a management order within the meaning of that Act—if it is subject to such an order at the date when the certificate is issued,

No.

(c) that the land to which the certificate relates is the subject of an approved voluntary management proposal within the meaning of that Act - if it is the subject of such an approved proposal at the date when the certificate is issued,

No.

(d) that the land to which the certificate relates is subject to an ongoing maintenance order within the meaning of that Act - if it is subject to such an order at the date when the certificate is issued,

No.

(e) that the land to which the certificate relates is the subject of a site audit statement within the meaning of that Act - if a copy of such a statement has been provided at any time to the local authority issuing the certificate.

No.

DISCLAIMER AND CAUTION

The information on zones, controls etc., given above relates to the land for which the certificate was sought. If enquirers wish to know what zones, other controls, etc., apply or are proposed on nearby land then they should make enquiries in person at Council's offices.

The information contained in this certificate is accurate as at the date of this certificate.

In providing this certificate Council has in good faith relied upon information provided to it or sourced from third parties. Where Council has obtained the information from third parties, either exclusively or in conjunction with information held by Council, the Certificate details the source of that third party information. Council cautions persons against relying upon information in the Certificate sourced from third parties as to its accuracy, applicability to specific lands and its currency without verification from the specified third party and, where appropriate, professional advice and the adoption of prudent land acquisition measures and appropriate professional advice. To the full extent permitted by law Council disclaims liability with respect to any information in this Certificate sourced from third parties.



Andrew Carfield
General Manager



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

APPLICANT: InfoTrack Pty Ltd
135 King Street
NSW 2000

Certificate number: 20233207
Reference number: 1265152
Certificate issue date: 14/04/2025
Certificate fee: \$69.00
Applicant's reference: CT-55 (JC) Hulls Rd
Property number: 1195909
Applicant's email: ecertificates@infotrack.com.au

DESCRIPTION OF PROPERTY

Land Description: LOT: 1002 DP: 1307503
Address: **52 Hulls Road LEPPINGTON NSW 2179**

BACKGROUND INFORMATION

This certificate provides information on how a property (such as land, a house, commercial building, etc.,) may be used and the limits on its development. The certificate contains information Council is aware of through records and environmental plans with data supplied by the State Government. The details contained in this certificate are limited to that required by Section 10.7 of the Environmental Planning and Assessment Act 1979 (the Act).



1 NAMES OF RELEVANT PLANNING INSTRUMENTS AND DEVELOPMENT CONTROL PLANS

(1) The name of each environmental planning instrument and development control plan that applies to the carrying out of development on the land.

(2) The name of each proposed environmental planning instrument and draft development control plan, which is or has been subject to community consultation or public exhibition under the Act, that will apply to the carrying out of development on the land.

(3) Subsection (2) does not apply in relation to a proposed environmental planning instrument or draft development control plan if—

(a) it has been more than 3 years since the end of the public exhibition period for the proposed instrument or draft plan, or

(b) for a proposed environmental planning instrument—the Planning Secretary has notified the council that the making of the proposed instrument has been deferred indefinitely or has not been approved.

(4) In this section—

proposed environmental planning instrument means a draft environmental planning instrument and includes a planning proposal for a local environmental plan.

STATE ENVIRONMENTAL PLANNING POLICIES (SEPPs)

SEPP (Exempt and Complying Development Codes) 2008

SEPP (Housing) 2021

SEPP (Planning Systems) 2021

SEPP (Biodiversity and Conservation) 2021

SEPP (Resilience and Hazards) 2021

SEPP (Transport and Infrastructure) 2021

SEPP (Industry and Employment) 2021

SEPP (Resources and Energy) 2021

SEPP (Primary Production) 2021

SEPP (Precincts - Western Parkland City) 2021

SEPP (Sustainable Buildings) 2022

Note: The above SEPPs may apply subject to the relevant criteria and requirements as listed in each chapter of the policies.

LOCAL ENVIRONMENTAL PLANS (LEPs)

The land is not within a Local Environmental Plan.



DEVELOPMENT CONTROL PLANS (DCPs)

Camden Growth Centre Precincts Development Control Plan, as amended

PROPOSED STATE ENVIRONMENTAL PLANNING POLICIES (SEPPs)

SEPP (Housing) 2021 - Proposed amendments - manufactured home estates, caravan parks and camping grounds

SEPP (Transport and Infrastructure) 2021 – Proposed amendments – temporary uses in future infrastructure corridors; improving planning processes to deliver infrastructure faster

SEPP (Exempt and Complying Development Codes) 2008 - Proposed amendments – complying development for farm buildings, rural sheds and earthworks; Cultural SEPP (proposed changes to support events and activities)

PROPOSED LOCAL ENVIRONMENTAL PLANS (LEPs)

No.

DRAFT DEVELOPMENT CONTROL PLANS (DCPs)

Draft Camden Growth Centre Precincts DCP – Housekeeping Amendment

Note: The above draft SEPPs, draft LEPs or draft DCPs may apply subject to the relevant criteria and requirements as listed in each of these draft instruments.

2 ZONING AND LAND USE UNDER RELEVANT PLANNING INSTRUMENTS

The following matters apply for each environmental planning instrument or draft environmental planning instrument that includes the land in a zone, however described—

(a) ZONE R2 LOW DENSITY RESIDENTIAL - CAMDEN GROWTH CENTRES PRECINCT PLAN

(b) In this zone, development for the following purposes is -

(i) Permitted without consent

Home-based child care; Home occupations

(ii) Permitted with consent

Bed and breakfast accommodation; Boarding houses; Business identification signs; Centre-based child care facilities; Community facilities; Drainage; Dual occupancies; Dwelling houses; Earthworks; Educational establishments; Environmental facilities; Environmental protection works; Exhibition homes; Exhibition villages; Flood mitigation works; Group homes; Health consulting rooms; Home businesses; Home industries; Information and education facilities; Neighbourhood shops; Places of public worship; Recreation areas; Recreation facilities (indoor); Recreation facilities (outdoor); Roads; Secondary dwellings; Semi-detached dwellings; Seniors housing; Shop top housing; Studio dwellings; Veterinary hospitals; Waterbodies (artificial)

(iii) Prohibited



Any development not specified in item (i) or (ii)

(a) ZONE SP2 INFRASTRUCTURE - CAMDEN GROWTH CENTRES PRECINCT PLAN

(b) In this zone, development for the following purposes is -

(i) Permitted without consent

Roads

(ii) Permitted with consent

The purpose shown on the Land Zoning Map, including any development that is ordinarily incidental or ancillary to development for that purpose

(iii) Prohibited

Any development not specified in item (i) or (ii)

(c) Whether additional permitted uses apply to the land,

No.

(d) Whether development standards applying to the land fix minimum land dimensions for the erection of a dwelling house on the land and, if so, the fixed minimum land dimensions,

R2 Low Density Residential:

Camden Growth Centres Precinct Plan, Section 4.1AB, fixes a minimum 300m² for the erection of a dwelling house in the R2 Low Density Residential zone, however exceptions apply in circumstances as specified under Sections 4.1AD, 4.1AE and 4.1AF for minimum land dimensions of 250m², 225m² and 200m²

(e) Whether the land is in an area of outstanding biodiversity value under the Biodiversity Conservation Act 2016,

No.

(f) Whether the land is in a conservation area, however described,

No.

(g) Whether an item of environmental heritage however described, is located on the land

No.

3 CONTRIBUTIONS



(1) The name of each contributions plan under the Act, Division 7.1 applying to the land, including draft contributions plans

Camden Growth Areas Contributions Plan Amendment 3.

Camden Section 7.11 Contributions Plan – Heavy Haulage 2023

Camden Section 7.12 Development Contributions Plan 2023

(2) If the land is in a region within the meaning of the Act, Division 7.1, Subdivision 4 –

(a) the name of the region

No

(b) the name of the Ministerial planning order in which the region is identified

No

(3) If the land is in a special contributions area to which a continued 7.23 determination applies, the name of the area

Western Sydney Growth Areas Special Contributions Area

(4) In this section—

continued 7.23 determination means a 7.23 determination that—

(a) has been continued in force by the Act, Schedule 4, Part 1, and

(b) has not been repealed as provided by that part.

Note: The Act, Schedule 4, Part 1 contains other definitions that affect the interpretation of this section.

4 COMPLYING DEVELOPMENT

(1) If the land is land on which complying development may be carried out under each of the complying development codes under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008, because of that Policy, clause 1.17A(1)(c)–(e), (2), (3) or (4), 1.18(1)(c3) or 1.19.

(2) If complying development may not be carried out on the land because of one of those clauses, the reasons why it may not be carried out under the clause.

(3) If the council does not have sufficient information to ascertain the extent to which complying development may or may not be carried out on the land, a statement that—

(a) a restriction applies to the land, but it may not apply to all of the land, and

(b) the council does not have sufficient information to ascertain the extent to which complying development may or may not be carried out on the land.



(4) If the complying development codes are varied, under that Policy, clause 1.12, in relation to the land.

HOUSING CODE

Complying development MAY or MAY NOT be carried out on the land. Council does not have sufficient information to ascertain or identify the extent to which complying development may or may not be carried out on the land. The land is either wholly or partially affected by specific land use exclusions in relation to complying development, as listed below,

* The land is reserved for a public purpose.

RURAL HOUSING CODE

Complying development MAY or MAY NOT be carried out on the land. Council does not have sufficient information to ascertain or identify the extent to which complying development may or may not be carried out on the land. The land is either wholly or partially affected by specific land use exclusions in relation to complying development, as listed below,

* The land is reserved for a public purpose.

LOW RISE HOUSING DIVERSITY CODE

Complying development MAY or MAY NOT be carried out on the land. Council does not have sufficient information to ascertain or identify the extent to which complying development may or may not be carried out on the land. The land is either wholly or partially affected by specific land use exclusions in relation to complying development, as listed below,

* The land is reserved for a public purpose.

Note: Under clause 1.19(3B) of the SEPP (Exempt and Complying Development Codes) 2008, development specified in the Low Rise Housing Diversity Code is not complying development under that code if the development is—

- (a) for the purposes of dual occupancies, and
- (b) carried out on land in Zone R2 Low Density Residential, and
- (c) permitted with development consent under SEPP (Housing) 2021, Chapter 3, Part 12 but not under another environmental planning instrument.

AGRITOURISM AND FARM STAY ACCOMMODATION CODE

Complying development MAY or MAY NOT be carried out on the land. Council does not have sufficient information to ascertain or identify the extent to which complying development may or may not be carried out on the land. The land is either wholly or partially affected by specific land use exclusions in relation to complying development, as listed below,

* The land is reserved for a public purpose.

GREENFIELD HOUSING CODE



Complying development MAY or MAY NOT be carried out on the land. Council does not have sufficient information to ascertain or identify the extent to which complying development may or may not be carried out on the land. The land is either wholly or partially affected by specific land use exclusions in relation to complying development, as listed below,

* The land is reserved for a public purpose.

Note: The Greenfield Housing Code only applies to certain land within the Camden Local Government Area. Under Clause 3C.1 of the SEPP (Exempt and Complying Development Codes) 2008, the code applies to land identified within the Greenfield Housing Code Area, as shown on the Greenfield Housing Code Area Maps.

INLAND CODE

The Inland Code does not apply to the Camden Local Government Area.

HOUSING ALTERATIONS CODE

Complying development MAY be carried out on the land.

GENERAL DEVELOPMENT CODE

Complying development MAY be carried out on the land.

INDUSTRIAL AND BUSINESS ALTERATIONS CODE

Complying development MAY be carried out on the land.

INDUSTRIAL AND BUSINESS NEW BUILDINGS CODE

Complying development MAY or MAY NOT be carried out on the land. Council does not have sufficient information to ascertain or identify the extent to which complying development may or may not be carried out on the land. The land is either wholly or partially affected by specific land use exclusions in relation to complying development, as listed below,

* The land is reserved for a public purpose.

CONTAINER RECYCLING FACILITIES CODE

Complying development MAY be carried out on the land.

SUBDIVISIONS CODE

Complying development MAY be carried out on the land.

DEMOLITION CODE



Complying development MAY be carried out on the land.

FIRE SAFETY CODE

Complying development MAY be carried out on the land.

Where complying development MAY be carried out, on land not affected by exclusions, it is subject to the requirements and standards of the SEPP and the relevant Codes, including requirements relating to the zoning of the land.

5 EXEMPT DEVELOPMENT

(1) If the land is land on which exempt development may be carried out under each of the exempt development codes under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008, because of that Policy, clause 1.16(1)(b1)–(d) or 1.16A.

(2) If exempt development may not be carried out on the land because of one of those clauses, the reasons why it may not be carried out under the clause.

(3) If the council does not have sufficient information to ascertain the extent to which exempt development may or may not be carried out on the land, a statement that—

(a) a restriction applies to the land, but it may not apply to all of the land, and

(b) the council does not have sufficient information to ascertain the extent to which exempt development may or may not be carried out on the land.

(4) If the exempt development codes are varied, under that Policy, clause 1.12, in relation to the land.

GENERAL EXEMPT DEVELOPMENT CODE

Exempt development MAY be carried out on the land

ADVERTISING AND SIGNAGE EXEMPT DEVELOPMENT CODE

Exempt development MAY be carried out on the land

TEMPORARY USES AND STRUCTURES EXEMPT DEVELOPMENT CODE

Exempt development MAY be carried out on the land

Where exempt development MAY be carried out, on land not affected by exclusions, it is subject to the requirements and standards of the SEPP and the relevant Codes, including requirements relating to the zoning of the land.

6 AFFECTED BUILDING NOTICES AND BUILDING PRODUCT RECTIFICATION ORDERS

(1) Whether the council is aware that—



- (a) an affected building notice is in force in relation to the land, or
- (b) a building product rectification order is in force in relation to the land that has not been fully complied with, or
- (c) a notice of intention to make a building product rectification order given in relation to the land is outstanding.

(2) In this section—

affected building notice has the same meaning as in the Building Products (Safety) Act 2017, Part 4.

building product rectification order has the same meaning as in the Building Products (Safety) Act 2017.

No.

7 LAND RESERVED FOR ACQUISITION

Whether an environmental planning instrument or proposed environmental planning instrument referred to in section 1 makes provision in relation to the acquisition of the land by an authority of the State, as referred to in the Act, section 3.15.

Yes, clause 5.1 of the Camden Growth Centres Precinct Plan applies to the land as shown on the Land Reservation Acquisition Maps under State Environmental Planning Policy (Precincts—Western Parkland City) 2021.

8 ROAD WIDENING AND ROAD REALIGNMENT

Whether the land is affected by road widening or road realignment under—

- (a) the Roads Act 1993, Part 3, Division 2, or
- (b) an environmental planning instrument, or
- (c) a resolution of the council.

No.

9 FLOOD RELATED DEVELOPMENT CONTROLS

(1) If the land or part of the land is within the flood planning area and subject to flood related development controls.

No response required

(2) If the land or part of the land is between the flood planning area and the probable maximum flood and subject to flood related development controls.

No response required



(3) In this section—

flood planning area has the same meaning as in the Flood Risk Management Manual.

Flood Risk Management Manual means the Flood Risk Management Manual, ISBN 978-1-923076-17-4, published by the NSW Government in June 2023.

probable maximum flood has the same meaning as in the Flood Risk Management Manual.

10 COUNCIL AND OTHER PUBLIC AUTHORITY POLICIES ON HAZARD RISK RESTRICTIONS

(1) Whether any of the land is affected by an adopted policy that restricts the development of the land because of the likelihood of land slip, bush fire, tidal inundation, subsidence, acid sulfate soils, contamination, aircraft noise, salinity, coastal hazards, sea level rise or another risk, other than flooding.

(2) In this section—

adopted policy means a policy adopted—

(a) by the council, or

(b) by another public authority, if the public authority has notified the council that the policy will be included in a planning certificate issued by the council.

LAND SLIP

The subject land is not affected by a policy adopted by the Council or with Council being notified of a policy adopted by any other public authority that restricts the development of the subject land because of the likelihood of landslip.

BUSH FIRE

The subject land is not affected by a policy adopted by the Council or with Council being notified of a policy adopted by any other public authority that restricts the development of the subject land because of the likelihood of bushfire.

TIDAL INUNDATION

The subject land is not affected by a policy adopted by the Council or with Council being notified of a policy adopted by any other public authority that restricts the development of the subject land because of the likelihood of tidal inundation.

SUBSIDENCE

The subject land is not affected by a policy adopted by the Council or with Council being notified of a policy adopted by any other public authority that restricts the development of the subject land because of the likelihood of subsidence.

ACID SULFATE SOILS



The subject land is not affected by a policy adopted by the Council or with Council being notified of a policy adopted by any other public authority that restricts the development of the subject land because of the likelihood of acid sulfate soils.

CONTAMINATION

Council's policy 'Management of Contaminated Lands' applies to the whole of the council area and may restrict, development of land. The policy is implemented when zoning or land use changes are proposed, or when further development is proposed, where land has been used for contaminating or potentially contaminating activities, including those activities listed in schedule 1 of the policy. A copy of the policy is available on Council's website.

AIRCRAFT NOISE

The subject land is not affected by a policy adopted by the Council or with Council being notified of a policy adopted by any other public authority that restricts the development of the subject land because of the likelihood of aircraft noise.

SALINITY

There are requirements for salinity and salinity assessment for specific types of development within the Camden local government area. This includes mandatory building requirements, unless other requirements are identified in any site specific salinity risk assessment or salinity management plan applying to the land. Please refer to the requirements in the relevant Development Control Plan that applies to the land.

COASTAL HAZARDS

The subject land is not affected by a policy adopted by the Council or with Council being notified of a policy adopted by any other public authority that restricts the development of the subject land because of the likelihood of coastal hazards.

SEA LEVEL RISE

The subject land is not affected by a policy adopted by the Council or with Council being notified of a policy adopted by any other public authority that restricts the development of the subject land because of the likelihood of sea level rise.

11 BUSH FIRE PRONE LAND

(1) If any of the land is bush fire prone land, designated by the Commissioner of the NSW Rural Fire Service under the Act, section 10.3, a statement that all or some of the land is bush fire prone land.

(2) If none of the land is bush fire prone land, a statement to that effect.

No.

12 LOOSE-FILL ASBESTOS INSULATION

If the land includes residential premises, within the meaning of the Home Building Act 1989, Part 8, Division 1A, that are listed on the Register kept under that Division, a statement to that effect.



No.

13 MINE SUBSIDENCE

Whether the land is declared to be a mine subsidence district, within the meaning of the Coal Mine Subsidence Compensation Act 2017.

No.

14 PAPER SUBDIVISION INFORMATION

(1) The name of a development plan adopted by a relevant authority that—

- (a) applies to the land, or
- (b) is proposed to be subject to a ballot.

(2) The date of a subdivision order that applies to the land.

(3) Words and expressions used in this section have the same meaning as in the Environmental Planning and Assessment Regulation 2021, Part 10 and the Act, Schedule 7.

Not Applicable

15 PROPERTY VEGETATION PLANS

If the land is land in relation to which a property vegetation plan is approved and in force under the Native Vegetation Act 2003, Part 4, a statement to that effect, but only if the council has been notified of the existence of the plan by the person or body that approved the plan under that Act.

No.

16 BIODIVERSITY STEWARDSHIP SITES

If the land is a biodiversity stewardship site under a biodiversity stewardship agreement under the Biodiversity Conservation Act 2016, Part 5, a statement to that effect, but only if the council has been notified of the existence of the agreement by the Biodiversity Conservation Trust.

Note: Biodiversity stewardship agreements include biobanking agreements under the Threatened Species Conservation Act 1995, Part 7A that are taken to be biodiversity stewardship agreements under the Biodiversity Conservation Act 2016, Part 5.

No.

17 BIODIVERSITY CERTIFIED LAND

If the land is biodiversity certified land under the Biodiversity Conservation Act 2016, Part 8, a statement to that effect.



Note: Biodiversity certified land includes land certified under the Threatened Species Conservation Act 1995, Part 7AA that is taken to be certified under the Biodiversity Conservation Act 2016, Part 8.

All or part of the subject land is biodiversity certified land, under Part 8 of the Biodiversity Conservation Act 2016, or under Part 7AA and/or Schedule 7 Part 7 of the Threatened Species Conservation Act 1995, which remain in force under the Biodiversity Conservation (Savings and Transitional) Regulation 2017.

For more information about biodiversity certification, and the extent of the property that is certified, please visit: www.camden.nsw.gov.au/environment/biodiversity

18 ORDERS UNDER TREES (DISPUTES BETWEEN NEIGHBOURS) ACT 2006

Whether 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.

19 ANNUAL CHARGES UNDER LOCAL GOVERNMENT ACT 1993 FOR COASTAL PROTECTION SERVICES THAT RELATE TO EXISTING COASTAL PROTECTION WORKS

Not Applicable.

20 WESTERN SYDNEY AEROTROPOLIS

Whether under State Environmental Planning Policy (Precincts—Western Parkland City) 2021, Chapter 4 the land is—

(a) in an ANEF or ANEC contour of 20 or greater, as referred to in that Chapter, section 4.17,

No.

(b) or shown on the Lighting Intensity and Wind Shear Map,

No.

(c) or shown on the Obstacle Limitation Surface Map,

Yes, the subject land is shown on the Obstacle Limitation Surface Map.

(d) or in the “public safety area” on the Public Safety Area Map,

No.

(e) or in the “3 kilometre wildlife buffer zone” or the “13 kilometre wildlife buffer zone” on the Wildlife Buffer Zone Map.

Yes, the subject land is located within the 13 kilometre Wildlife Buffer Zone.



21 DEVELOPMENT CONSENT CONDITIONS FOR SENIORS HOUSING

If State Environmental Planning Policy (Housing) 2021, Chapter 3, Part 5 applies to the land, any conditions of a development consent granted after 11 October 2007 in relation to the land that are of the kind set out in that Policy, section 88(2).

No.

22 SITE COMPATIBILITY CERTIFICATES AND DEVELOPMENT CONSENT CONDITIONS FOR AFFORDABLE RENTAL HOUSING

(1) Whether there is a current site compatibility certificate under State Environmental Planning Policy (Housing) 2021, or a former site compatibility certificate, of which the council is aware, in relation to proposed development on the land and, if there is a certificate—

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

No.

(2) If State Environmental Planning Policy (Housing) 2021, Chapter 2, Part 2, Division 1 or 5 applies to the land, any conditions of a development consent in relation to the land that are of a kind referred to in that Policy, section 21(1) or 40(1).

No.

(3) Any conditions of a development consent in relation to land that are of a kind referred to in State Environmental Planning Policy (Affordable Rental Housing) 2009, clause 17(1) or 38(1).

No.

(4) In this section—

former site compatibility certificate means a site compatibility certificate issued under State Environmental Planning Policy (Affordable Rental Housing) 2009.

23 WATER OR SEWERAGE SERVICES

If water or sewerage services are, or are to be, provided to the land under the Water Industry Competition Act 2006, a statement to that effect.

Not applicable.

Note: A public water utility may not be the provider of some or all of the services to the land. If a water or sewerage service is provided to the land by a licensee under the Water Industry Competition Act 2006, a contract for the service will be deemed to have been entered into between the licensee and the owner of the land. A register relating to approvals and licences necessary for the provision of water or sewerage services under the Water Industry Competition Act 2006 is maintained by the Independent Pricing and Regulatory Tribunal and provides information about the areas serviced, or to be serviced, under that Act. Purchasers should check the register to understand who will service the property. Outstanding charges for water or sewerage services provided under the Water Industry Competition Act 2006 become the responsibility of the purchaser.



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(a) that the land to which the certificate relates is significantly contaminated land within the meaning of that Act—if the land (or part of the land) is significantly contaminated land at the date when the certificate is issued,

No.

(b) that the land to which the certificate relates is subject to a management order within the meaning of that Act—if it is subject to such an order at the date when the certificate is issued,

No.

(c) that the land to which the certificate relates is the subject of an approved voluntary management proposal within the meaning of that Act - if it is the subject of such an approved proposal at the date when the certificate is issued,

No.

(d) that the land to which the certificate relates is subject to an ongoing maintenance order within the meaning of that Act - if it is subject to such an order at the date when the certificate is issued,

No.

(e) that the land to which the certificate relates is the subject of a site audit statement within the meaning of that Act - if a copy of such a statement has been provided at any time to the local authority issuing the certificate.

No.

DISCLAIMER AND CAUTION

The information on zones, controls etc., given above relates to the land for which the certificate was sought. If enquirers wish to know what zones, other controls, etc., apply or are proposed on nearby land then they should make enquiries in person at Council's offices.

The information contained in this certificate is accurate as at the date of this certificate.

In providing this certificate Council has in good faith relied upon information provided to it or sourced from third parties. Where Council has obtained the information from third parties, either exclusively or in conjunction with information held by Council, the Certificate details the source of that third party information. Council cautions persons against relying upon information in the Certificate sourced from third parties as to its accuracy, applicability to specific lands and its currency without verification from the specified third party and, where appropriate, professional advice and the adoption of prudent land acquisition measures and appropriate professional advice. To the full extent permitted by law Council disclaims liability with respect to any information in this Certificate sourced from third parties.



Andrew Carfield
General Manager



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

APPLICANT: InfoTrack Pty Ltd
135 King Street
NSW 2000

Certificate number: 20233209
Reference number: 1265200
Certificate issue date: 14/04/2025
Certificate fee: \$69.00
Applicant's reference: CT-55 (JC) Hulls Rd
Property number: 1195911
Applicant's email: ecertificates@infotrack.com.au

DESCRIPTION OF PROPERTY

Land Description: LOT: 1003 DP: 1307503
Address: **46 Hulls Road LEPPINGTON NSW 2179**

BACKGROUND INFORMATION

This certificate provides information on how a property (such as land, a house, commercial building, etc.,) may be used and the limits on its development. The certificate contains information Council is aware of through records and environmental plans with data supplied by the State Government. The details contained in this certificate are limited to that required by Section 10.7 of the Environmental Planning and Assessment Act 1979 (the Act).



1 NAMES OF RELEVANT PLANNING INSTRUMENTS AND DEVELOPMENT CONTROL PLANS

(1) The name of each environmental planning instrument and development control plan that applies to the carrying out of development on the land.

(2) The name of each proposed environmental planning instrument and draft development control plan, which is or has been subject to community consultation or public exhibition under the Act, that will apply to the carrying out of development on the land.

(3) Subsection (2) does not apply in relation to a proposed environmental planning instrument or draft development control plan if—

(a) it has been more than 3 years since the end of the public exhibition period for the proposed instrument or draft plan, or

(b) for a proposed environmental planning instrument—the Planning Secretary has notified the council that the making of the proposed instrument has been deferred indefinitely or has not been approved.

(4) In this section—

proposed environmental planning instrument means a draft environmental planning instrument and includes a planning proposal for a local environmental plan.

STATE ENVIRONMENTAL PLANNING POLICIES (SEPPs)

SEPP (Exempt and Complying Development Codes) 2008

SEPP (Housing) 2021

SEPP (Planning Systems) 2021

SEPP (Biodiversity and Conservation) 2021

SEPP (Resilience and Hazards) 2021

SEPP (Transport and Infrastructure) 2021

SEPP (Industry and Employment) 2021

SEPP (Resources and Energy) 2021

SEPP (Primary Production) 2021

SEPP (Precincts - Western Parkland City) 2021

SEPP (Sustainable Buildings) 2022

Note: The above SEPPs may apply subject to the relevant criteria and requirements as listed in each chapter of the policies.

LOCAL ENVIRONMENTAL PLANS (LEPs)

The land is not within a Local Environmental Plan.



DEVELOPMENT CONTROL PLANS (DCPs)

Camden Growth Centre Precincts Development Control Plan, as amended

PROPOSED STATE ENVIRONMENTAL PLANNING POLICIES (SEPPs)

SEPP (Housing) 2021 - Proposed amendments - manufactured home estates, caravan parks and camping grounds

SEPP (Transport and Infrastructure) 2021 – Proposed amendments – temporary uses in future infrastructure corridors; improving planning processes to deliver infrastructure faster

SEPP (Exempt and Complying Development Codes) 2008 - Proposed amendments – complying development for farm buildings, rural sheds and earthworks; Cultural SEPP (proposed changes to support events and activities)

PROPOSED LOCAL ENVIRONMENTAL PLANS (LEPs)

No.

DRAFT DEVELOPMENT CONTROL PLANS (DCPs)

Draft Camden Growth Centre Precincts DCP – Housekeeping Amendment

Note: The above draft SEPPs, draft LEPs or draft DCPs may apply subject to the relevant criteria and requirements as listed in each of these draft instruments.

2 ZONING AND LAND USE UNDER RELEVANT PLANNING INSTRUMENTS

The following matters apply for each environmental planning instrument or draft environmental planning instrument that includes the land in a zone, however described—

(a) ZONE R2 LOW DENSITY RESIDENTIAL - CAMDEN GROWTH CENTRES PRECINCT PLAN

(b) In this zone, development for the following purposes is -

(i) Permitted without consent

Home-based child care; Home occupations

(ii) Permitted with consent

Bed and breakfast accommodation; Boarding houses; Business identification signs; Centre-based child care facilities; Community facilities; Drainage; Dual occupancies; Dwelling houses; Earthworks; Educational establishments; Environmental facilities; Environmental protection works; Exhibition homes; Exhibition villages; Flood mitigation works; Group homes; Health consulting rooms; Home businesses; Home industries; Information and education facilities; Neighbourhood shops; Places of public worship; Recreation areas; Recreation facilities (indoor); Recreation facilities (outdoor); Roads; Secondary dwellings; Semi-detached dwellings; Seniors housing; Shop top housing; Studio dwellings; Veterinary hospitals; Waterbodies (artificial)

(iii) Prohibited



Any development not specified in item (i) or (ii)

(c) Whether additional permitted uses apply to the land,

No.

(d) Whether development standards applying to the land fix minimum land dimensions for the erection of a dwelling house on the land and, if so, the fixed minimum land dimensions,

R2 Low Density Residential:

Camden Growth Centres Precinct Plan, Section 4.1AB, fixes a minimum 300m² for the erection of a dwelling house in the R2 Low Density Residential zone, however exceptions apply in circumstances as specified under Sections 4.1AD, 4.1AE and 4.1AF for minimum land dimensions of 250m², 225m² and 200m²

(e) Whether the land is in an area of outstanding biodiversity value under the Biodiversity Conservation Act 2016,

No.

(f) Whether the land is in a conservation area, however described,

No.

(g) Whether an item of environmental heritage however described, is located on the land

No.

3 CONTRIBUTIONS

(1) The name of each contributions plan under the Act, Division 7.1 applying to the land, including draft contributions plans

Camden Growth Areas Contributions Plan Amendment 3.

Camden Section 7.11 Contributions Plan – Heavy Haulage 2023

Camden Section 7.12 Development Contributions Plan 2023

(2) If the land is in a region within the meaning of the Act, Division 7.1, Subdivision 4 –

(a) the name of the region

No

(b) the name of the Ministerial planning order in which the region is identified



No

(3) If the land is in a special contributions area to which a continued 7.23 determination applies, the name of the area

Western Sydney Growth Areas Special Contributions Area

(4) In this section—

continued 7.23 determination means a 7.23 determination that—

- (a) has been continued in force by the Act, Schedule 4, Part 1, and
- (b) has not been repealed as provided by that part.

Note: The Act, Schedule 4, Part 1 contains other definitions that affect the interpretation of this section.

4 COMPLYING DEVELOPMENT

(1) If the land is land on which complying development may be carried out under each of the complying development codes under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008, because of that Policy, clause 1.17A(1)(c)–(e), (2), (3) or (4), 1.18(1)(c3) or 1.19.

(2) If complying development may not be carried out on the land because of one of those clauses, the reasons why it may not be carried out under the clause.

(3) If the council does not have sufficient information to ascertain the extent to which complying development may or may not be carried out on the land, a statement that—

(a) a restriction applies to the land, but it may not apply to all of the land, and

(b) the council does not have sufficient information to ascertain the extent to which complying development may or may not be carried out on the land.

(4) If the complying development codes are varied, under that Policy, clause 1.12, in relation to the land.

HOUSING CODE

Complying development MAY be carried out on the land

RURAL HOUSING CODE

Complying development MAY be carried out on the land.

LOW RISE HOUSING DIVERSITY CODE



Complying development MAY be carried out on the land.

Note: Under clause 1.19(3B) of the SEPP (Exempt and Complying Development Codes) 2008, development specified in the Low Rise Housing Diversity Code is not complying development under that code if the development is—

(a) for the purposes of dual occupancies, and

(b) carried out on land in Zone R2 Low Density Residential, and

(c) permitted with development consent under SEPP (Housing) 2021, Chapter 3, Part 12 but not under another environmental planning instrument.

AGRITOURISM AND FARM STAY ACCOMMODATION CODE

Complying development MAY be carried out on the land

GREENFIELD HOUSING CODE

Complying development MAY be carried out on the land.

Note: The Greenfield Housing Code only applies to certain land within the Camden Local Government Area. Under Clause 3C.1 of the SEPP (Exempt and Complying Development Codes) 2008, the code applies to land identified within the Greenfield Housing Code Area, as shown on the Greenfield Housing Code Area Maps.

INLAND CODE

The Inland Code does not apply to the Camden Local Government Area.

HOUSING ALTERATIONS CODE

Complying development MAY be carried out on the land.

GENERAL DEVELOPMENT CODE

Complying development MAY be carried out on the land.

INDUSTRIAL AND BUSINESS ALTERATIONS CODE

Complying development MAY be carried out on the land.

INDUSTRIAL AND BUSINESS NEW BUILDINGS CODE

Complying development MAY be carried out on the land.

CONTAINER RECYCLING FACILITIES CODE

Complying development MAY be carried out on the land.

SUBDIVISIONS CODE



Complying development MAY be carried out on the land.

DEMOLITION CODE

Complying development MAY be carried out on the land.

FIRE SAFETY CODE

Complying development MAY be carried out on the land.

Where complying development MAY be carried out, on land not affected by exclusions, it is subject to the requirements and standards of the SEPP and the relevant Codes, including requirements relating to the zoning of the land.

5 EXEMPT DEVELOPMENT

(1) If the land is land on which exempt development may be carried out under each of the exempt development codes under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008, because of that Policy, clause 1.16(1)(b1)–(d) or 1.16A.

(2) If exempt development may not be carried out on the land because of one of those clauses, the reasons why it may not be carried out under the clause.

(3) If the council does not have sufficient information to ascertain the extent to which exempt development may or may not be carried out on the land, a statement that—

(a) a restriction applies to the land, but it may not apply to all of the land, and

(b) the council does not have sufficient information to ascertain the extent to which exempt development may or may not be carried out on the land.

(4) If the exempt development codes are varied, under that Policy, clause 1.12, in relation to the land.

GENERAL EXEMPT DEVELOPMENT CODE

Exempt development MAY be carried out on the land

ADVERTISING AND SIGNAGE EXEMPT DEVELOPMENT CODE

Exempt development MAY be carried out on the land

TEMPORARY USES AND STRUCTURES EXEMPT DEVELOPMENT CODE

Exempt development MAY be carried out on the land



Where exempt development MAY be carried out, on land not affected by exclusions, it is subject to the requirements and standards of the SEPP and the relevant Codes, including requirements relating to the zoning of the land.

6 AFFECTED BUILDING NOTICES AND BUILDING PRODUCT RECTIFICATION ORDERS

(1) Whether the council is aware that—

- (a) an affected building notice is in force in relation to the land, or
- (b) a building product rectification order is in force in relation to the land that has not been fully complied with, or
- (c) a notice of intention to make a building product rectification order given in relation to the land is outstanding.

(2) In this section—

affected building notice has the same meaning as in the Building Products (Safety) Act 2017, Part 4.

building product rectification order has the same meaning as in the Building Products (Safety) Act 2017.

No.

7 LAND RESERVED FOR ACQUISITION

Whether an environmental planning instrument or proposed environmental planning instrument referred to in section 1 makes provision in relation to the acquisition of the land by an authority of the State, as referred to in the Act, section 3.15.

No.

8 ROAD WIDENING AND ROAD REALIGNMENT

Whether the land is affected by road widening or road realignment under—

- (a) the Roads Act 1993, Part 3, Division 2, or
- (b) an environmental planning instrument, or
- (c) a resolution of the council.

No.

9 FLOOD RELATED DEVELOPMENT CONTROLS

(1) If the land or part of the land is within the flood planning area and subject to flood related development controls.

No response required



(2) If the land or part of the land is between the flood planning area and the probable maximum flood and subject to flood related development controls.

No response required

(3) In this section—

flood planning area has the same meaning as in the Flood Risk Management Manual.

Flood Risk Management Manual means the Flood Risk Management Manual, ISBN 978-1-923076-17-4, published by the NSW Government in June 2023.

probable maximum flood has the same meaning as in the Flood Risk Management Manual.

10 COUNCIL AND OTHER PUBLIC AUTHORITY POLICIES ON HAZARD RISK RESTRICTIONS

(1) Whether any of the land is affected by an adopted policy that restricts the development of the land because of the likelihood of land slip, bush fire, tidal inundation, subsidence, acid sulfate soils, contamination, aircraft noise, salinity, coastal hazards, sea level rise or another risk, other than flooding.

(2) In this section—

adopted policy means a policy adopted—

(a) by the council, or

(b) by another public authority, if the public authority has notified the council that the policy will be included in a planning certificate issued by the council.

LAND SLIP

The subject land is not affected by a policy adopted by the Council or with Council being notified of a policy adopted by any other public authority that restricts the development of the subject land because of the likelihood of landslip.

BUSH FIRE

The subject land is not affected by a policy adopted by the Council or with Council being notified of a policy adopted by any other public authority that restricts the development of the subject land because of the likelihood of bushfire.

TIDAL INUNDATION

The subject land is not affected by a policy adopted by the Council or with Council being notified of a policy adopted by any other public authority that restricts the development of the subject land because of the likelihood of tidal inundation.

SUBSIDENCE



The subject land is not affected by a policy adopted by the Council or with Council being notified of a policy adopted by any other public authority that restricts the development of the subject land because of the likelihood of subsidence.

ACID SULFATE SOILS

The subject land is not affected by a policy adopted by the Council or with Council being notified of a policy adopted by any other public authority that restricts the development of the subject land because of the likelihood of acid sulfate soils.

CONTAMINATION

Council's policy 'Management of Contaminated Lands' applies to the whole of the council area and may restrict, development of land. The policy is implemented when zoning or land use changes are proposed, or when further development is proposed, where land has been used for contaminating or potentially contaminating activities, including those activities listed in schedule 1 of the policy. A copy of the policy is available on Council's website.

AIRCRAFT NOISE

The subject land is not affected by a policy adopted by the Council or with Council being notified of a policy adopted by any other public authority that restricts the development of the subject land because of the likelihood of aircraft noise.

SALINITY

There are requirements for salinity and salinity assessment for specific types of development within the Camden local government area. This includes mandatory building requirements, unless other requirements are identified in any site specific salinity risk assessment or salinity management plan applying to the land. Please refer to the requirements in the relevant Development Control Plan that applies to the land.

COASTAL HAZARDS

The subject land is not affected by a policy adopted by the Council or with Council being notified of a policy adopted by any other public authority that restricts the development of the subject land because of the likelihood of coastal hazards.

SEA LEVEL RISE

The subject land is not affected by a policy adopted by the Council or with Council being notified of a policy adopted by any other public authority that restricts the development of the subject land because of the likelihood of sea level rise.

11 BUSH FIRE PRONE LAND

(1) If any of the land is bush fire prone land, designated by the Commissioner of the NSW Rural Fire Service under the Act, section 10.3, a statement that all or some of the land is bush fire prone land.

(2) If none of the land is bush fire prone land, a statement to that effect.

No.



12 LOOSE-FILL ASBESTOS INSULATION

If the land includes residential premises, within the meaning of the Home Building Act 1989, Part 8, Division 1A, that are listed on the Register kept under that Division, a statement to that effect.

No.

13 MINE SUBSIDENCE

Whether the land is declared to be a mine subsidence district, within the meaning of the Coal Mine Subsidence Compensation Act 2017.

No.

14 PAPER SUBDIVISION INFORMATION

(1) The name of a development plan adopted by a relevant authority that—

- (a) applies to the land, or
- (b) is proposed to be subject to a ballot.

(2) The date of a subdivision order that applies to the land.

(3) Words and expressions used in this section have the same meaning as in the Environmental Planning and Assessment Regulation 2021, Part 10 and the Act, Schedule 7.

Not Applicable

15 PROPERTY VEGETATION PLANS

If the land is land in relation to which a property vegetation plan is approved and in force under the Native Vegetation Act 2003, Part 4, a statement to that effect, but only if the council has been notified of the existence of the plan by the person or body that approved the plan under that Act.

No.

16 BIODIVERSITY STEWARDSHIP SITES

If the land is a biodiversity stewardship site under a biodiversity stewardship agreement under the Biodiversity Conservation Act 2016, Part 5, a statement to that effect, but only if the council has been notified of the existence of the agreement by the Biodiversity Conservation Trust.

Note: Biodiversity stewardship agreements include biobanking agreements under the Threatened Species Conservation Act 1995, Part 7A that are taken to be biodiversity stewardship agreements under the Biodiversity Conservation Act 2016, Part 5.

No.



17 BIODIVERSITY CERTIFIED LAND

If the land is biodiversity certified land under the Biodiversity Conservation Act 2016, Part 8, a statement to that effect.

Note: Biodiversity certified land includes land certified under the Threatened Species Conservation Act 1995, Part 7AA that is taken to be certified under the Biodiversity Conservation Act 2016, Part 8.

All or part of the subject land is biodiversity certified land, under Part 8 of the Biodiversity Conservation Act 2016, or under Part 7AA and/or Schedule 7 Part 7 of the Threatened Species Conservation Act 1995, which remain in force under the Biodiversity Conservation (Savings and Transitional) Regulation 2017.

For more information about biodiversity certification, and the extent of the property that is certified, please visit: www.camden.nsw.gov.au/environment/biodiversity

18 ORDERS UNDER TREES (DISPUTES BETWEEN NEIGHBOURS) ACT 2006

Whether 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.

19 ANNUAL CHARGES UNDER LOCAL GOVERNMENT ACT 1993 FOR COASTAL PROTECTION SERVICES THAT RELATE TO EXISTING COASTAL PROTECTION WORKS

Not Applicable.

20 WESTERN SYDNEY AEROTROPOLIS

Whether under State Environmental Planning Policy (Precincts—Western Parkland City) 2021, Chapter 4 the land is—

(a) in an ANEF or ANEC contour of 20 or greater, as referred to in that Chapter, section 4.17,

No.

(b) or shown on the Lighting Intensity and Wind Shear Map,

No.

(c) or shown on the Obstacle Limitation Surface Map,

Yes, the subject land is shown on the Obstacle Limitation Surface Map.

(d) or in the “public safety area” on the Public Safety Area Map,

No.



(e) or in the “3 kilometre wildlife buffer zone” or the “13 kilometre wildlife buffer zone” on the Wildlife Buffer Zone Map.

Yes, the subject land is located within the 13 kilometre Wildlife Buffer Zone.

21 DEVELOPMENT CONSENT CONDITIONS FOR SENIORS HOUSING

If State Environmental Planning Policy (Housing) 2021, Chapter 3, Part 5 applies to the land, any conditions of a development consent granted after 11 October 2007 in relation to the land that are of the kind set out in that Policy, section 88(2).

No.

22 SITE COMPATIBILITY CERTIFICATES AND DEVELOPMENT CONSENT CONDITIONS FOR AFFORDABLE RENTAL HOUSING

(1) Whether there is a current site compatibility certificate under State Environmental Planning Policy (Housing) 2021, or a former site compatibility certificate, of which the council is aware, in relation to proposed development on the land and, if there is a certificate—

(a) the period for which the certificate is current, and

(b) that a copy may be obtained from the Department.

No.

(2) If State Environmental Planning Policy (Housing) 2021, Chapter 2, Part 2, Division 1 or 5 applies to the land, any conditions of a development consent in relation to the land that are of a kind referred to in that Policy, section 21(1) or 40(1).

No.

(3) Any conditions of a development consent in relation to land that are of a kind referred to in State Environmental Planning Policy (Affordable Rental Housing) 2009, clause 17(1) or 38(1).

No.

(4) In this section—

former site compatibility certificate means a site compatibility certificate issued under State Environmental Planning Policy (Affordable Rental Housing) 2009.

23 WATER OR SEWERAGE SERVICES

If water or sewerage services are, or are to be, provided to the land under the Water Industry Competition Act 2006, a statement to that effect.

Not applicable.



Note: A public water utility may not be the provider of some or all of the services to the land. If a water or sewerage service is provided to the land by a licensee under the Water Industry Competition Act 2006, a contract for the service will be deemed to have been entered into between the licensee and the owner of the land. A register relating to approvals and licences necessary for the provision of water or sewerage services under the Water Industry Competition Act 2006 is maintained by the Independent Pricing and Regulatory Tribunal and provides information about the areas serviced, or to be serviced, under that Act. Purchasers should check the register to understand who will service the property. Outstanding charges for water or sewerage services provided under the Water Industry Competition Act 2006 become the responsibility of the purchaser.

MATTERS PRESCRIBED BY SECTION 59 (2) OF THE CONTAMINATED LAND MANAGEMENT ACT 1997

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) that the land to which the certificate relates is significantly contaminated land within the meaning of that Act—if the land (or part of the land) is significantly contaminated land at the date when the certificate is issued,

No.

(b) that the land to which the certificate relates is subject to a management order within the meaning of that Act—if it is subject to such an order at the date when the certificate is issued,

No.

(c) that the land to which the certificate relates is the subject of an approved voluntary management proposal within the meaning of that Act - if it is the subject of such an approved proposal at the date when the certificate is issued,

No.

(d) that the land to which the certificate relates is subject to an ongoing maintenance order within the meaning of that Act - if it is subject to such an order at the date when the certificate is issued,

No.

(e) that the land to which the certificate relates is the subject of a site audit statement within the meaning of that Act - if a copy of such a statement has been provided at any time to the local authority issuing the certificate.

No.

DISCLAIMER AND CAUTION

The information on zones, controls etc., given above relates to the land for which the certificate was sought. If enquirers wish to know what zones, other controls, etc., apply or are proposed on nearby land then they should make enquiries in person at Council's offices.

The information contained in this certificate is accurate as at the date of this certificate.

In providing this certificate Council has in good faith relied upon information provided to it or sourced from third parties. Where Council has obtained the information from third parties, either exclusively or in conjunction with information held by Council, the Certificate details the



source of that third party information. Council cautions persons against relying upon information in the Certificate sourced from third parties as to its accuracy, applicability to specific lands and its currency without verification from the specified third party and, where appropriate, professional advice and the adoption of prudent land acquisition measures and appropriate professional advice. To the full extent permitted by law Council disclaims liability with respect to any information in this Certificate sourced from third parties.

Andrew Carfield
General Manager



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

APPLICANT: InfoTrack Pty Ltd
135 King Street
NSW 2000

Certificate number: 20233210
Reference number: 1265201
Certificate issue date: 14/04/2025
Certificate fee: \$69.00
Applicant's reference: CT-55 (JC) Hulls Rd
Property number: 1195912
Applicant's email: ecertificates@infotrack.com.au

DESCRIPTION OF PROPERTY

Land Description: LOT: 1004 DP: 1307503
Address: **40 Hulls Road LEPPINGTON NSW 2179**

BACKGROUND INFORMATION

This certificate provides information on how a property (such as land, a house, commercial building, etc.,) may be used and the limits on its development. The certificate contains information Council is aware of through records and environmental plans with data supplied by the State Government. The details contained in this certificate are limited to that required by Section 10.7 of the Environmental Planning and Assessment Act 1979 (the Act).



1 NAMES OF RELEVANT PLANNING INSTRUMENTS AND DEVELOPMENT CONTROL PLANS

(1) The name of each environmental planning instrument and development control plan that applies to the carrying out of development on the land.

(2) The name of each proposed environmental planning instrument and draft development control plan, which is or has been subject to community consultation or public exhibition under the Act, that will apply to the carrying out of development on the land.

(3) Subsection (2) does not apply in relation to a proposed environmental planning instrument or draft development control plan if—

(a) it has been more than 3 years since the end of the public exhibition period for the proposed instrument or draft plan, or

(b) for a proposed environmental planning instrument—the Planning Secretary has notified the council that the making of the proposed instrument has been deferred indefinitely or has not been approved.

(4) In this section—

proposed environmental planning instrument means a draft environmental planning instrument and includes a planning proposal for a local environmental plan.

STATE ENVIRONMENTAL PLANNING POLICIES (SEPPs)

SEPP (Exempt and Complying Development Codes) 2008

SEPP (Housing) 2021

SEPP (Planning Systems) 2021

SEPP (Biodiversity and Conservation) 2021

SEPP (Resilience and Hazards) 2021

SEPP (Transport and Infrastructure) 2021

SEPP (Industry and Employment) 2021

SEPP (Resources and Energy) 2021

SEPP (Primary Production) 2021

SEPP (Precincts - Western Parkland City) 2021

SEPP (Sustainable Buildings) 2022

Note: The above SEPPs may apply subject to the relevant criteria and requirements as listed in each chapter of the policies.

LOCAL ENVIRONMENTAL PLANS (LEPs)

The land is not within a Local Environmental Plan.



DEVELOPMENT CONTROL PLANS (DCPs)

Camden Growth Centre Precincts Development Control Plan, as amended

PROPOSED STATE ENVIRONMENTAL PLANNING POLICIES (SEPPs)

SEPP (Housing) 2021 - Proposed amendments - manufactured home estates, caravan parks and camping grounds

SEPP (Transport and Infrastructure) 2021 – Proposed amendments – temporary uses in future infrastructure corridors; improving planning processes to deliver infrastructure faster

SEPP (Exempt and Complying Development Codes) 2008 - Proposed amendments – complying development for farm buildings, rural sheds and earthworks; Cultural SEPP (proposed changes to support events and activities)

PROPOSED LOCAL ENVIRONMENTAL PLANS (LEPs)

No.

DRAFT DEVELOPMENT CONTROL PLANS (DCPs)

Draft Camden Growth Centre Precincts DCP – Housekeeping Amendment

Note: The above draft SEPPs, draft LEPs or draft DCPs may apply subject to the relevant criteria and requirements as listed in each of these draft instruments.

2 ZONING AND LAND USE UNDER RELEVANT PLANNING INSTRUMENTS

The following matters apply for each environmental planning instrument or draft environmental planning instrument that includes the land in a zone, however described—

(a) ZONE R2 LOW DENSITY RESIDENTIAL - CAMDEN GROWTH CENTRES PRECINCT PLAN

(b) In this zone, development for the following purposes is -

(i) Permitted without consent

Home-based child care; Home occupations

(ii) Permitted with consent

Bed and breakfast accommodation; Boarding houses; Business identification signs; Centre-based child care facilities; Community facilities; Drainage; Dual occupancies; Dwelling houses; Earthworks; Educational establishments; Environmental facilities; Environmental protection works; Exhibition homes; Exhibition villages; Flood mitigation works; Group homes; Health consulting rooms; Home businesses; Home industries; Information and education facilities; Neighbourhood shops; Places of public worship; Recreation areas; Recreation facilities (indoor); Recreation facilities (outdoor); Roads; Secondary dwellings; Semi-detached dwellings; Seniors housing; Shop top housing; Studio dwellings; Veterinary hospitals; Waterbodies (artificial)

(iii) Prohibited



Any development not specified in item (i) or (ii)

(c) Whether additional permitted uses apply to the land,

No.

(d) Whether development standards applying to the land fix minimum land dimensions for the erection of a dwelling house on the land and, if so, the fixed minimum land dimensions,

R2 Low Density Residential:

Camden Growth Centres Precinct Plan, Section 4.1AB, fixes a minimum 300m² for the erection of a dwelling house in the R2 Low Density Residential zone, however exceptions apply in circumstances as specified under Sections 4.1AD, 4.1AE and 4.1AF for minimum land dimensions of 250m², 225m² and 200m²

(e) Whether the land is in an area of outstanding biodiversity value under the Biodiversity Conservation Act 2016,

No.

(f) Whether the land is in a conservation area, however described,

No.

(g) Whether an item of environmental heritage however described, is located on the land

No.

3 CONTRIBUTIONS

(1) The name of each contributions plan under the Act, Division 7.1 applying to the land, including draft contributions plans

Camden Growth Areas Contributions Plan Amendment 3.

Camden Section 7.11 Contributions Plan – Heavy Haulage 2023

Camden Section 7.12 Development Contributions Plan 2023

(2) If the land is in a region within the meaning of the Act, Division 7.1, Subdivision 4 –

(a) the name of the region

No

(b) the name of the Ministerial planning order in which the region is identified



No

(3) If the land is in a special contributions area to which a continued 7.23 determination applies, the name of the area

Western Sydney Growth Areas Special Contributions Area

(4) In this section—

continued 7.23 determination means a 7.23 determination that—

- (a) has been continued in force by the Act, Schedule 4, Part 1, and
- (b) has not been repealed as provided by that part.

Note: The Act, Schedule 4, Part 1 contains other definitions that affect the interpretation of this section.

4 COMPLYING DEVELOPMENT

(1) If the land is land on which complying development may be carried out under each of the complying development codes under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008, because of that Policy, clause 1.17A(1)(c)–(e), (2), (3) or (4), 1.18(1)(c3) or 1.19.

(2) If complying development may not be carried out on the land because of one of those clauses, the reasons why it may not be carried out under the clause.

(3) If the council does not have sufficient information to ascertain the extent to which complying development may or may not be carried out on the land, a statement that—

(a) a restriction applies to the land, but it may not apply to all of the land, and

(b) the council does not have sufficient information to ascertain the extent to which complying development may or may not be carried out on the land.

(4) If the complying development codes are varied, under that Policy, clause 1.12, in relation to the land.

HOUSING CODE

Complying development MAY be carried out on the land

RURAL HOUSING CODE

Complying development MAY be carried out on the land.

LOW RISE HOUSING DIVERSITY CODE



Complying development MAY be carried out on the land.

Note: Under clause 1.19(3B) of the SEPP (Exempt and Complying Development Codes) 2008, development specified in the Low Rise Housing Diversity Code is not complying development under that code if the development is—

(a) for the purposes of dual occupancies, and

(b) carried out on land in Zone R2 Low Density Residential, and

(c) permitted with development consent under SEPP (Housing) 2021, Chapter 3, Part 12 but not under another environmental planning instrument.

AGRITOURISM AND FARM STAY ACCOMMODATION CODE

Complying development MAY be carried out on the land

GREENFIELD HOUSING CODE

Complying development MAY be carried out on the land.

Note: The Greenfield Housing Code only applies to certain land within the Camden Local Government Area. Under Clause 3C.1 of the SEPP (Exempt and Complying Development Codes) 2008, the code applies to land identified within the Greenfield Housing Code Area, as shown on the Greenfield Housing Code Area Maps.

INLAND CODE

The Inland Code does not apply to the Camden Local Government Area.

HOUSING ALTERATIONS CODE

Complying development MAY be carried out on the land.

GENERAL DEVELOPMENT CODE

Complying development MAY be carried out on the land.

INDUSTRIAL AND BUSINESS ALTERATIONS CODE

Complying development MAY be carried out on the land.

INDUSTRIAL AND BUSINESS NEW BUILDINGS CODE

Complying development MAY be carried out on the land.

CONTAINER RECYCLING FACILITIES CODE

Complying development MAY be carried out on the land.

SUBDIVISIONS CODE



Complying development MAY be carried out on the land.

DEMOLITION CODE

Complying development MAY be carried out on the land.

FIRE SAFETY CODE

Complying development MAY be carried out on the land.

Where complying development MAY be carried out, on land not affected by exclusions, it is subject to the requirements and standards of the SEPP and the relevant Codes, including requirements relating to the zoning of the land.

5 EXEMPT DEVELOPMENT

(1) If the land is land on which exempt development may be carried out under each of the exempt development codes under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008, because of that Policy, clause 1.16(1)(b1)–(d) or 1.16A.

(2) If exempt development may not be carried out on the land because of one of those clauses, the reasons why it may not be carried out under the clause.

(3) If the council does not have sufficient information to ascertain the extent to which exempt development may or may not be carried out on the land, a statement that—

(a) a restriction applies to the land, but it may not apply to all of the land, and

(b) the council does not have sufficient information to ascertain the extent to which exempt development may or may not be carried out on the land.

(4) If the exempt development codes are varied, under that Policy, clause 1.12, in relation to the land.

GENERAL EXEMPT DEVELOPMENT CODE

Exempt development MAY be carried out on the land

ADVERTISING AND SIGNAGE EXEMPT DEVELOPMENT CODE

Exempt development MAY be carried out on the land

TEMPORARY USES AND STRUCTURES EXEMPT DEVELOPMENT CODE

Exempt development MAY be carried out on the land



Where exempt development MAY be carried out, on land not affected by exclusions, it is subject to the requirements and standards of the SEPP and the relevant Codes, including requirements relating to the zoning of the land.

6 AFFECTED BUILDING NOTICES AND BUILDING PRODUCT RECTIFICATION ORDERS

(1) Whether the council is aware that—

- (a) an affected building notice is in force in relation to the land, or
- (b) a building product rectification order is in force in relation to the land that has not been fully complied with, or
- (c) a notice of intention to make a building product rectification order given in relation to the land is outstanding.

(2) In this section—

affected building notice has the same meaning as in the Building Products (Safety) Act 2017, Part 4.

building product rectification order has the same meaning as in the Building Products (Safety) Act 2017.

No.

7 LAND RESERVED FOR ACQUISITION

Whether an environmental planning instrument or proposed environmental planning instrument referred to in section 1 makes provision in relation to the acquisition of the land by an authority of the State, as referred to in the Act, section 3.15.

No.

8 ROAD WIDENING AND ROAD REALIGNMENT

Whether the land is affected by road widening or road realignment under—

- (a) the Roads Act 1993, Part 3, Division 2, or
- (b) an environmental planning instrument, or
- (c) a resolution of the council.

No.

9 FLOOD RELATED DEVELOPMENT CONTROLS

(1) If the land or part of the land is within the flood planning area and subject to flood related development controls.

No response required



(2) If the land or part of the land is between the flood planning area and the probable maximum flood and subject to flood related development controls.

No response required

(3) In this section—

flood planning area has the same meaning as in the Flood Risk Management Manual.

Flood Risk Management Manual means the Flood Risk Management Manual, ISBN 978-1-923076-17-4, published by the NSW Government in June 2023.

probable maximum flood has the same meaning as in the Flood Risk Management Manual.

10 COUNCIL AND OTHER PUBLIC AUTHORITY POLICIES ON HAZARD RISK RESTRICTIONS

(1) Whether any of the land is affected by an adopted policy that restricts the development of the land because of the likelihood of land slip, bush fire, tidal inundation, subsidence, acid sulfate soils, contamination, aircraft noise, salinity, coastal hazards, sea level rise or another risk, other than flooding.

(2) In this section—

adopted policy means a policy adopted—

(a) by the council, or

(b) by another public authority, if the public authority has notified the council that the policy will be included in a planning certificate issued by the council.

LAND SLIP

The subject land is not affected by a policy adopted by the Council or with Council being notified of a policy adopted by any other public authority that restricts the development of the subject land because of the likelihood of landslip.

BUSH FIRE

The land is affected by the provisions of a Development Control Plan and by Planning for Bush Fire Protection (NSW Rural Fire Service) that may restrict the development of the land because of the likelihood of bushfire.

TIDAL INUNDATION

The subject land is not affected by a policy adopted by the Council or with Council being notified of a policy adopted by any other public authority that restricts the development of the subject land because of the likelihood of tidal inundation.

SUBSIDENCE



The subject land is not affected by a policy adopted by the Council or with Council being notified of a policy adopted by any other public authority that restricts the development of the subject land because of the likelihood of subsidence.

ACID SULFATE SOILS

The subject land is not affected by a policy adopted by the Council or with Council being notified of a policy adopted by any other public authority that restricts the development of the subject land because of the likelihood of acid sulfate soils.

CONTAMINATION

Council's policy 'Management of Contaminated Lands' applies to the whole of the council area and may restrict, development of land. The policy is implemented when zoning or land use changes are proposed, or when further development is proposed, where land has been used for contaminating or potentially contaminating activities, including those activities listed in schedule 1 of the policy. A copy of the policy is available on Council's website.

AIRCRAFT NOISE

The subject land is not affected by a policy adopted by the Council or with Council being notified of a policy adopted by any other public authority that restricts the development of the subject land because of the likelihood of aircraft noise.

SALINITY

There are requirements for salinity and salinity assessment for specific types of development within the Camden local government area. This includes mandatory building requirements, unless other requirements are identified in any site specific salinity risk assessment or salinity management plan applying to the land. Please refer to the requirements in the relevant Development Control Plan that applies to the land.

COASTAL HAZARDS

The subject land is not affected by a policy adopted by the Council or with Council being notified of a policy adopted by any other public authority that restricts the development of the subject land because of the likelihood of coastal hazards.

SEA LEVEL RISE

The subject land is not affected by a policy adopted by the Council or with Council being notified of a policy adopted by any other public authority that restricts the development of the subject land because of the likelihood of sea level rise.

11 BUSH FIRE PRONE LAND

(1) If any of the land is bush fire prone land, designated by the Commissioner of the NSW Rural Fire Service under the Act, section 10.3, a statement that all or some of the land is bush fire prone land.

(2) If none of the land is bush fire prone land, a statement to that effect.



Some of the land has been identified as bush fire prone land on the Camden Council Bush Fire Prone Land Mapping, as certified by the Commissioner of the NSW Rural Fire Service under Section 10.3(2) of the Environmental Planning and Assessment Act, 1979.

12 LOOSE-FILL ASBESTOS INSULATION

If the land includes residential premises, within the meaning of the Home Building Act 1989, Part 8, Division 1A, that are listed on the Register kept under that Division, a statement to that effect.

No.

13 MINE SUBSIDENCE

Whether the land is declared to be a mine subsidence district, within the meaning of the Coal Mine Subsidence Compensation Act 2017.

No.

14 PAPER SUBDIVISION INFORMATION

(1) The name of a development plan adopted by a relevant authority that—

- (a) applies to the land, or
- (b) is proposed to be subject to a ballot.

(2) The date of a subdivision order that applies to the land.

(3) Words and expressions used in this section have the same meaning as in the Environmental Planning and Assessment Regulation 2021, Part 10 and the Act, Schedule 7.

Not Applicable

15 PROPERTY VEGETATION PLANS

If the land is land in relation to which a property vegetation plan is approved and in force under the Native Vegetation Act 2003, Part 4, a statement to that effect, but only if the council has been notified of the existence of the plan by the person or body that approved the plan under that Act.

No.

16 BIODIVERSITY STEWARDSHIP SITES

If the land is a biodiversity stewardship site under a biodiversity stewardship agreement under the Biodiversity Conservation Act 2016, Part 5, a statement to that effect, but only if the council has been notified of the existence of the agreement by the Biodiversity Conservation Trust.

Note: Biodiversity stewardship agreements include biobanking agreements under the Threatened Species Conservation Act 1995, Part 7A that are taken to be biodiversity stewardship agreements under the Biodiversity Conservation Act 2016, Part 5.



No.

17 BIODIVERSITY CERTIFIED LAND

If the land is biodiversity certified land under the Biodiversity Conservation Act 2016, Part 8, a statement to that effect.

Note: Biodiversity certified land includes land certified under the Threatened Species Conservation Act 1995, Part 7AA that is taken to be certified under the Biodiversity Conservation Act 2016, Part 8.

All or part of the subject land is biodiversity certified land, under Part 8 of the Biodiversity Conservation Act 2016, or under Part 7AA and/or Schedule 7 Part 7 of the Threatened Species Conservation Act 1995, which remain in force under the Biodiversity Conservation (Savings and Transitional) Regulation 2017.

For more information about biodiversity certification, and the extent of the property that is certified, please visit: www.camden.nsw.gov.au/environment/biodiversity

18 ORDERS UNDER TREES (DISPUTES BETWEEN NEIGHBOURS) ACT 2006

Whether 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.

19 ANNUAL CHARGES UNDER LOCAL GOVERNMENT ACT 1993 FOR COASTAL PROTECTION SERVICES THAT RELATE TO EXISTING COASTAL PROTECTION WORKS

Not Applicable.

20 WESTERN SYDNEY AEROTROPOLIS

Whether under State Environmental Planning Policy (Precincts—Western Parkland City) 2021, Chapter 4 the land is—

(a) in an ANEF or ANEC contour of 20 or greater, as referred to in that Chapter, section 4.17,

No.

(b) or shown on the Lighting Intensity and Wind Shear Map,

No.

(c) or shown on the Obstacle Limitation Surface Map,

Yes, the subject land is shown on the Obstacle Limitation Surface Map.



(d) or in the “public safety area” on the Public Safety Area Map,

No.

(e) or in the “3 kilometre wildlife buffer zone” or the “13 kilometre wildlife buffer zone” on the Wildlife Buffer Zone Map.

Yes, the subject land is located within the 13 kilometre Wildlife Buffer Zone.

21 DEVELOPMENT CONSENT CONDITIONS FOR SENIORS HOUSING

If State Environmental Planning Policy (Housing) 2021, Chapter 3, Part 5 applies to the land, any conditions of a development consent granted after 11 October 2007 in relation to the land that are of the kind set out in that Policy, section 88(2).

No.

22 SITE COMPATIBILITY CERTIFICATES AND DEVELOPMENT CONSENT CONDITIONS FOR AFFORDABLE RENTAL HOUSING

(1) Whether there is a current site compatibility certificate under State Environmental Planning Policy (Housing) 2021, or a former site compatibility certificate, of which the council is aware, in relation to proposed development on the land and, if there is a certificate—

(a) the period for which the certificate is current, and

(b) that a copy may be obtained from the Department.

No.

(2) If State Environmental Planning Policy (Housing) 2021, Chapter 2, Part 2, Division 1 or 5 applies to the land, any conditions of a development consent in relation to the land that are of a kind referred to in that Policy, section 21(1) or 40(1).

No.

(3) Any conditions of a development consent in relation to land that are of a kind referred to in State Environmental Planning Policy (Affordable Rental Housing) 2009, clause 17(1) or 38(1).

No.

(4) In this section—

former site compatibility certificate means a site compatibility certificate issued under State Environmental Planning Policy (Affordable Rental Housing) 2009.

23 WATER OR SEWERAGE SERVICES



If water or sewerage services are, or are to be, provided to the land under the Water Industry Competition Act 2006, a statement to that effect.

Not applicable.

Note: A public water utility may not be the provider of some or all of the services to the land. If a water or sewerage service is provided to the land by a licensee under the Water Industry Competition Act 2006, a contract for the service will be deemed to have been entered into between the licensee and the owner of the land. A register relating to approvals and licences necessary for the provision of water or sewerage services under the Water Industry Competition Act 2006 is maintained by the Independent Pricing and Regulatory Tribunal and provides information about the areas serviced, or to be serviced, under that Act. Purchasers should check the register to understand who will service the property. Outstanding charges for water or sewerage services provided under the Water Industry Competition Act 2006 become the responsibility of the purchaser.

MATTERS PRESCRIBED BY SECTION 59 (2) OF THE CONTAMINATED LAND MANAGEMENT ACT 1997

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) that the land to which the certificate relates is significantly contaminated land within the meaning of that Act—if the land (or part of the land) is significantly contaminated land at the date when the certificate is issued,

No.

(b) that the land to which the certificate relates is subject to a management order within the meaning of that Act—if it is subject to such an order at the date when the certificate is issued,

No.

(c) that the land to which the certificate relates is the subject of an approved voluntary management proposal within the meaning of that Act - if it is the subject of such an approved proposal at the date when the certificate is issued,

No.

(d) that the land to which the certificate relates is subject to an ongoing maintenance order within the meaning of that Act - if it is subject to such an order at the date when the certificate is issued,

No.

(e) that the land to which the certificate relates is the subject of a site audit statement within the meaning of that Act - if a copy of such a statement has been provided at any time to the local authority issuing the certificate.

No.

DISCLAIMER AND CAUTION



The information on zones, controls etc., given above relates to the land for which the certificate was sought. If enquirers wish to know what zones, other controls, etc., apply or are proposed on nearby land then they should make enquiries in person at Council's offices.

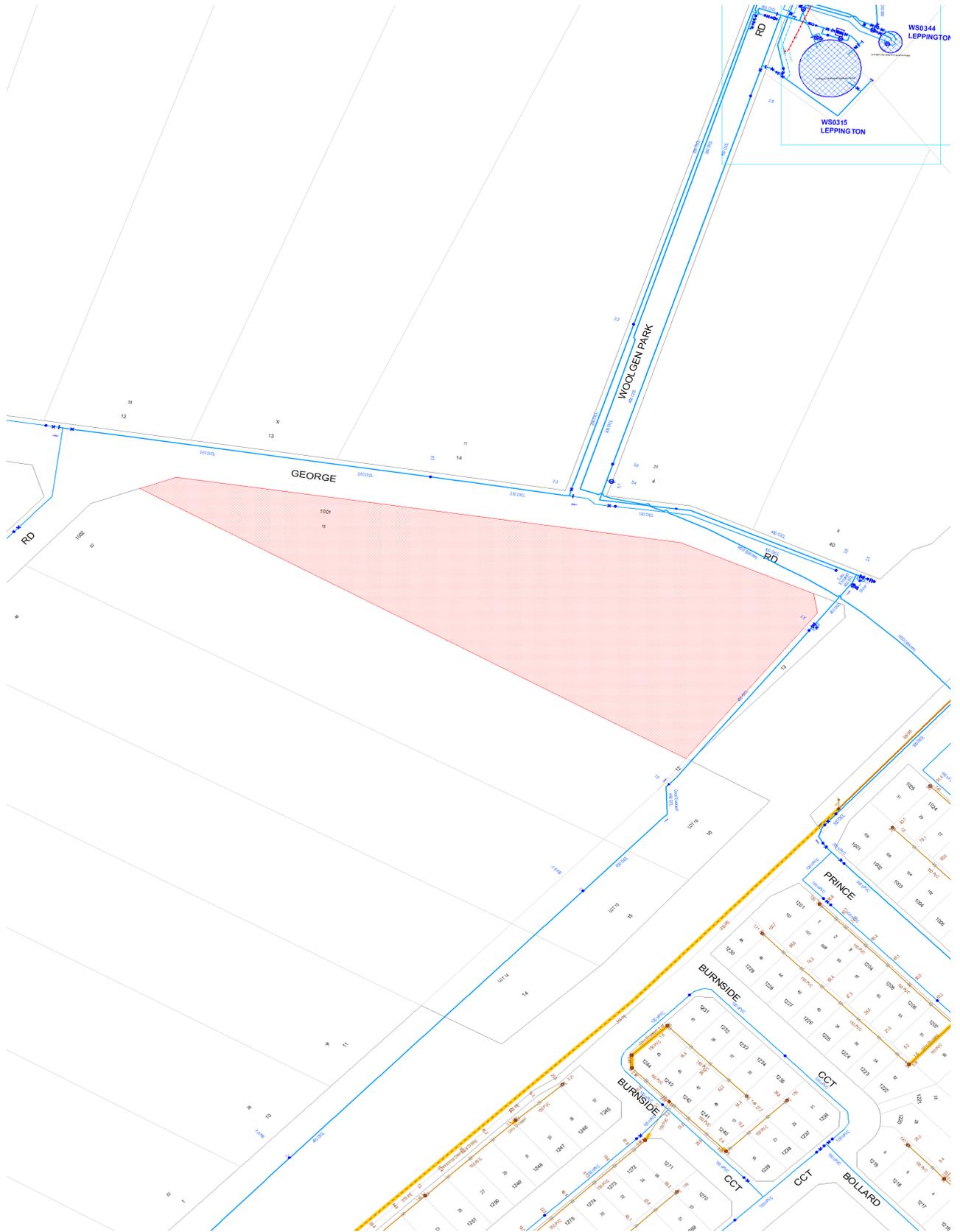
The information contained in this certificate is accurate as at the date of this certificate.

In providing this certificate Council has in good faith relied upon information provided to it or sourced from third parties. Where Council has obtained the information from third parties, either exclusively or in conjunction with information held by Council, the Certificate details the source of that third party information. Council cautions persons against relying upon information in the Certificate sourced from third parties as to its accuracy, applicability to specific lands and its currency without verification from the specified third party and, where appropriate, professional advice and the adoption of prudent land acquisition measures and appropriate professional advice. To the full extent permitted by law Council disclaims liability with respect to any information in this Certificate sourced from third parties.

Andrew Carfield
General Manager

Service Location Print

Application Number: 8004230468



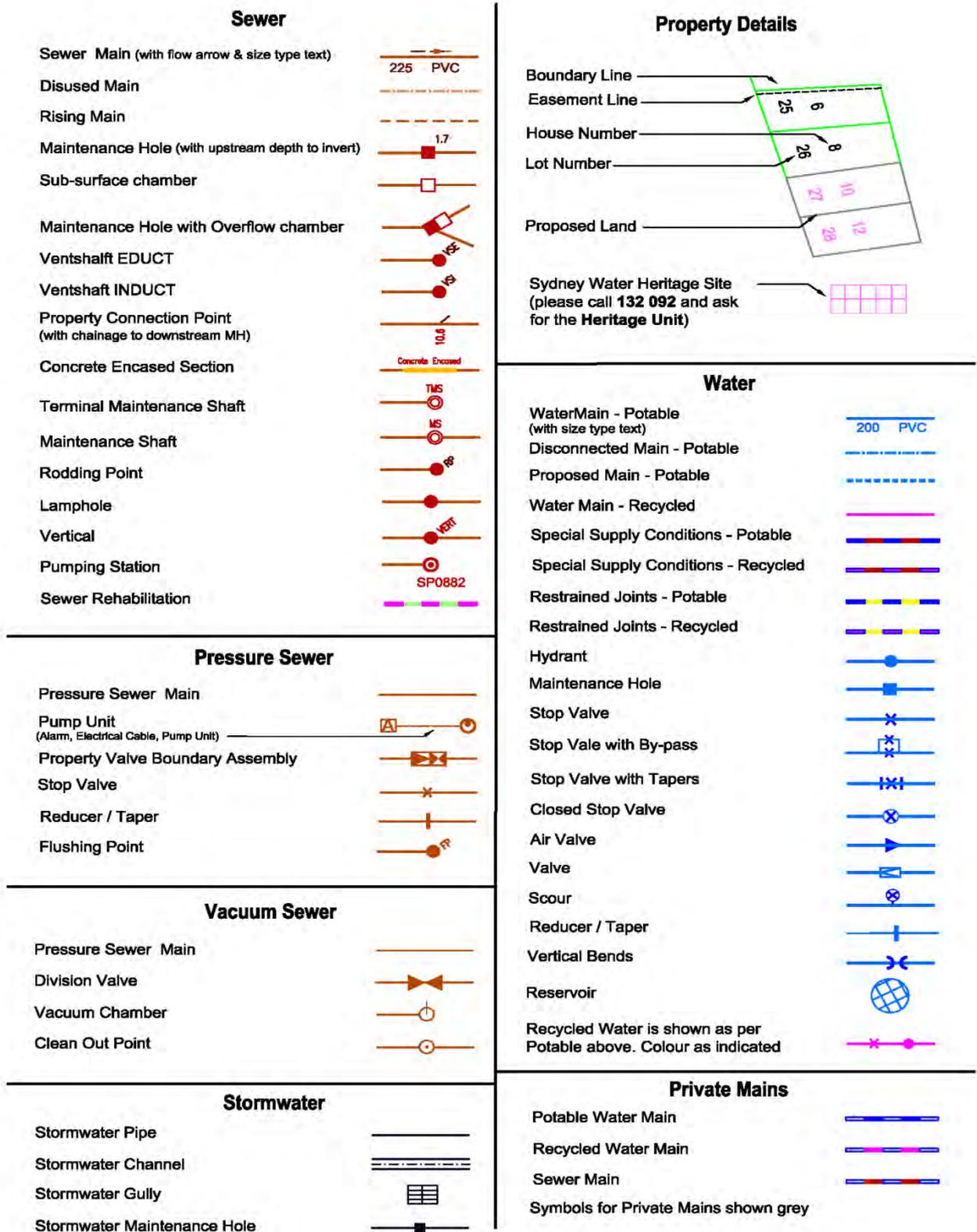
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Asset Information

Legend



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Pipe Types

ABS	Acrylonitrile Butadiene Styrene	AC	Asbestos Cement
BRICK	Brick	CI	Cast Iron
CICL	Cast Iron Cement Lined	CONC	Concrete
COPPER	Copper	DI	Ductile Iron
DICL	Ductile Iron Cement (mortar) Lined	DIPL	Ductile Iron Polymeric Lined
EW	Earthenware	FIBG	Fibreglass
FL BAR	Forged Locking Bar	GI	Galvanised Iron
GRP	Glass Reinforced Plastics	HDPE	High Density Polyethylene
MS	Mild Steel	MSCL	Mild Steel Cement Lined
PE	Polyethylene	PC	Polymer Concrete
PP	Polypropylene	PVC	Polyvinylchloride
PVC - M	Polyvinylchloride, Modified	PVC - O	Polyvinylchloride, Oriented
PVC - U	Polyvinylchloride, Unplasticised	RC	Reinforced Concrete
RC-PL	Reinforced Concrete Plastics Lined	S	Steel
SCL	Steel Cement (mortar) Lined	SCL IBL	Steel Cement Lined Internal Bitumen Lined
SGW	Salt Glazed Ware	SPL	Steel Polymeric Lined
SS	Stainless Steel	STONE	Stone
VC	Vitrified Clay	WI	Wrought Iron
WS	Woodstave		

Further Information

Please consult the Dial Before You Dig enquiries page on the Sydney Water website.

For general enquiries please call the Customer Contact Centre on 132 092

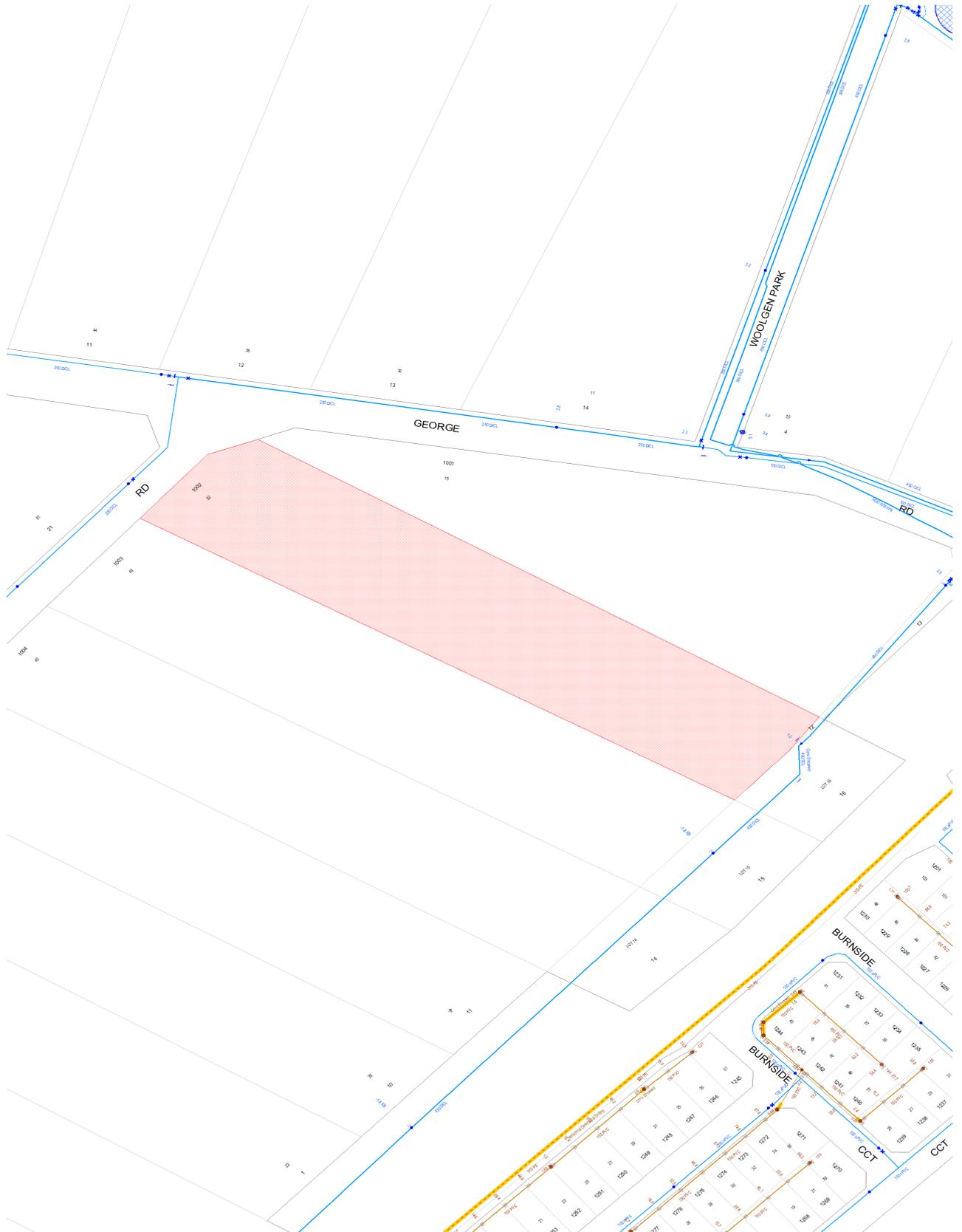
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Service Location Print

Application Number: 8004231450



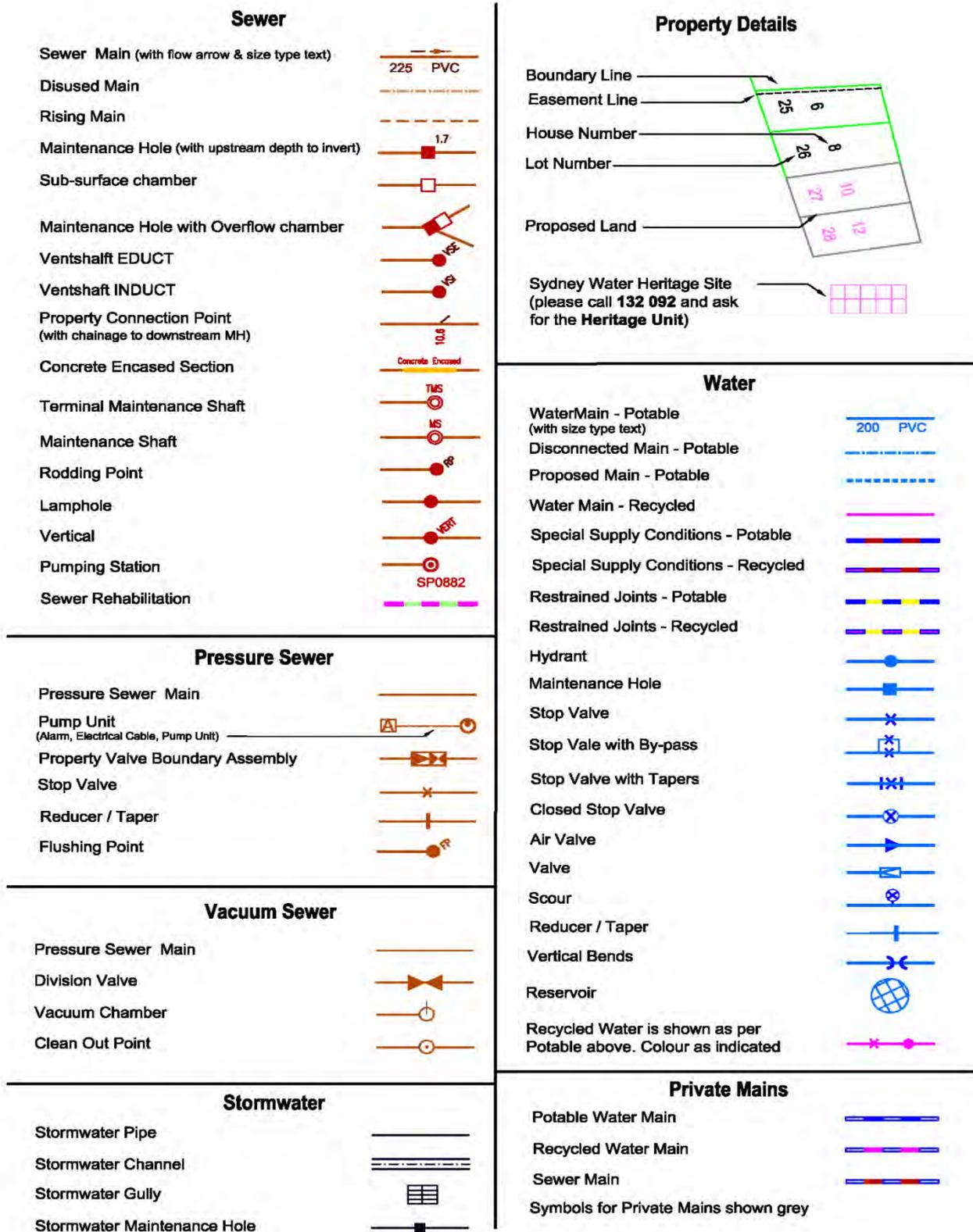
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Asset Information

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Pipe Types

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PE	Polyethylene	PC	Polymer Concrete
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PVC - M	Polyvinylchloride, Modified	PVC - O	Polyvinylchloride, Oriented
PVC - U	Polyvinylchloride, Unplasticised	RC	Reinforced Concrete
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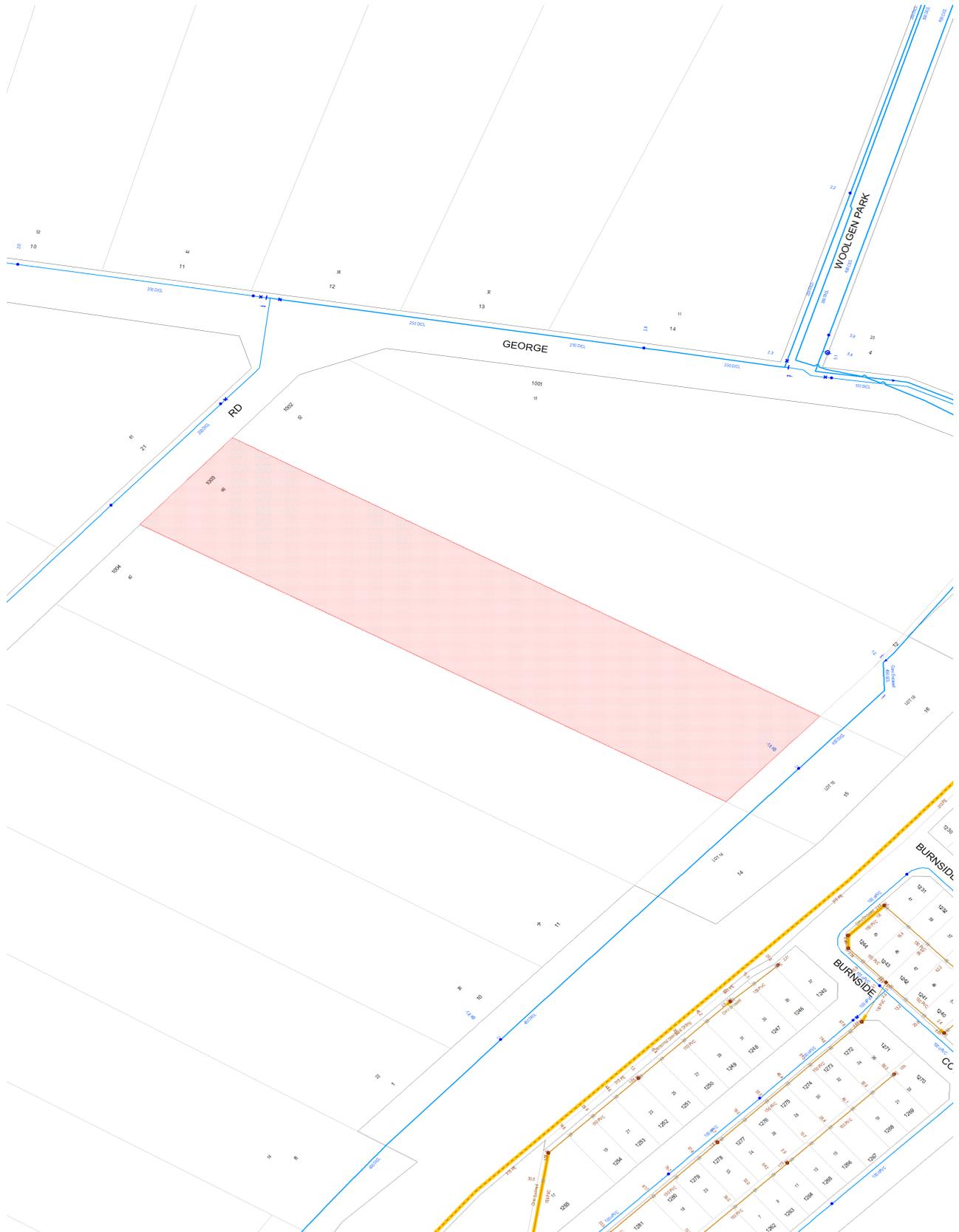
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Service Location Print

Application Number: 8004231455



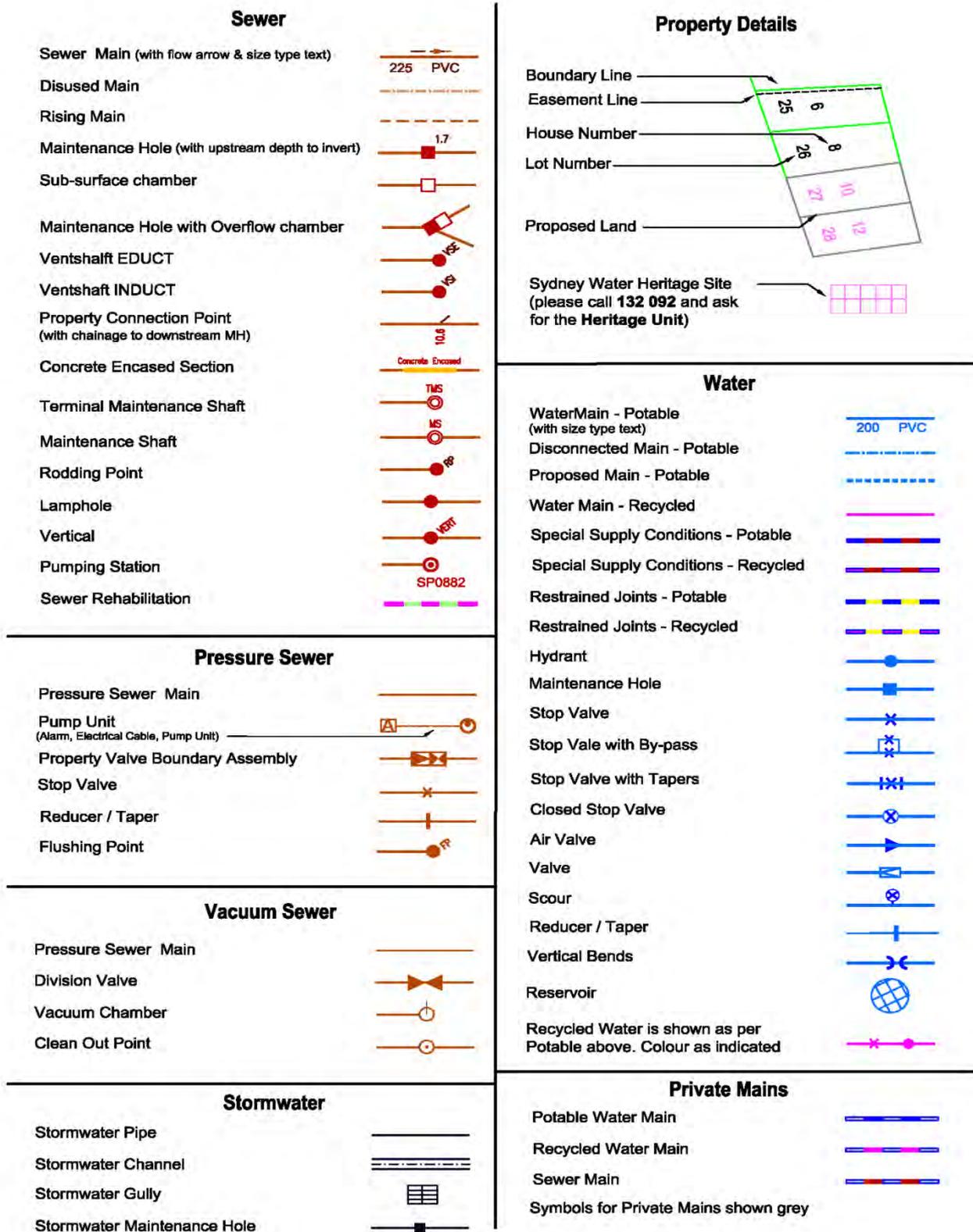
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Asset Information

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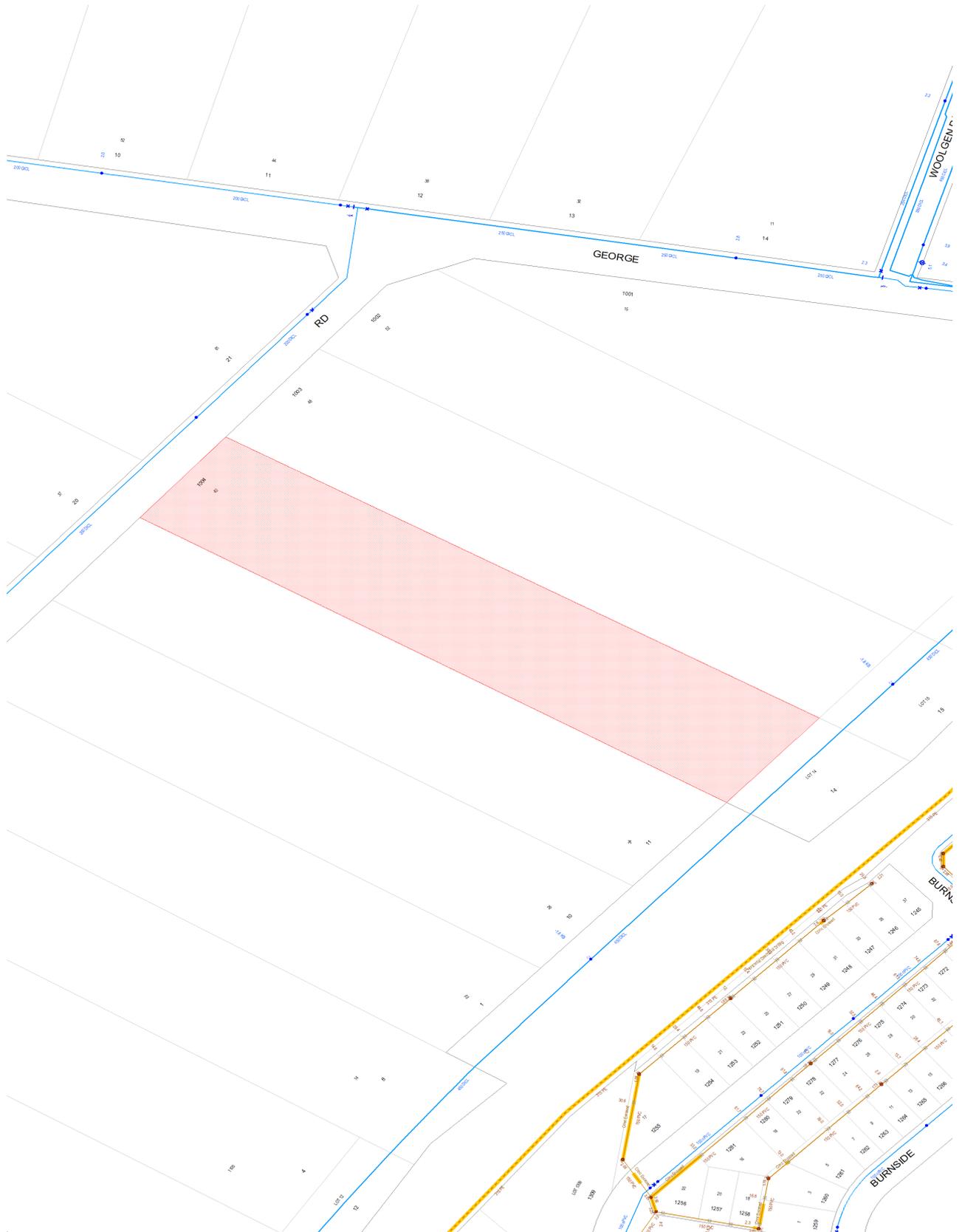
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Service Location Print

Application Number: 8004231457



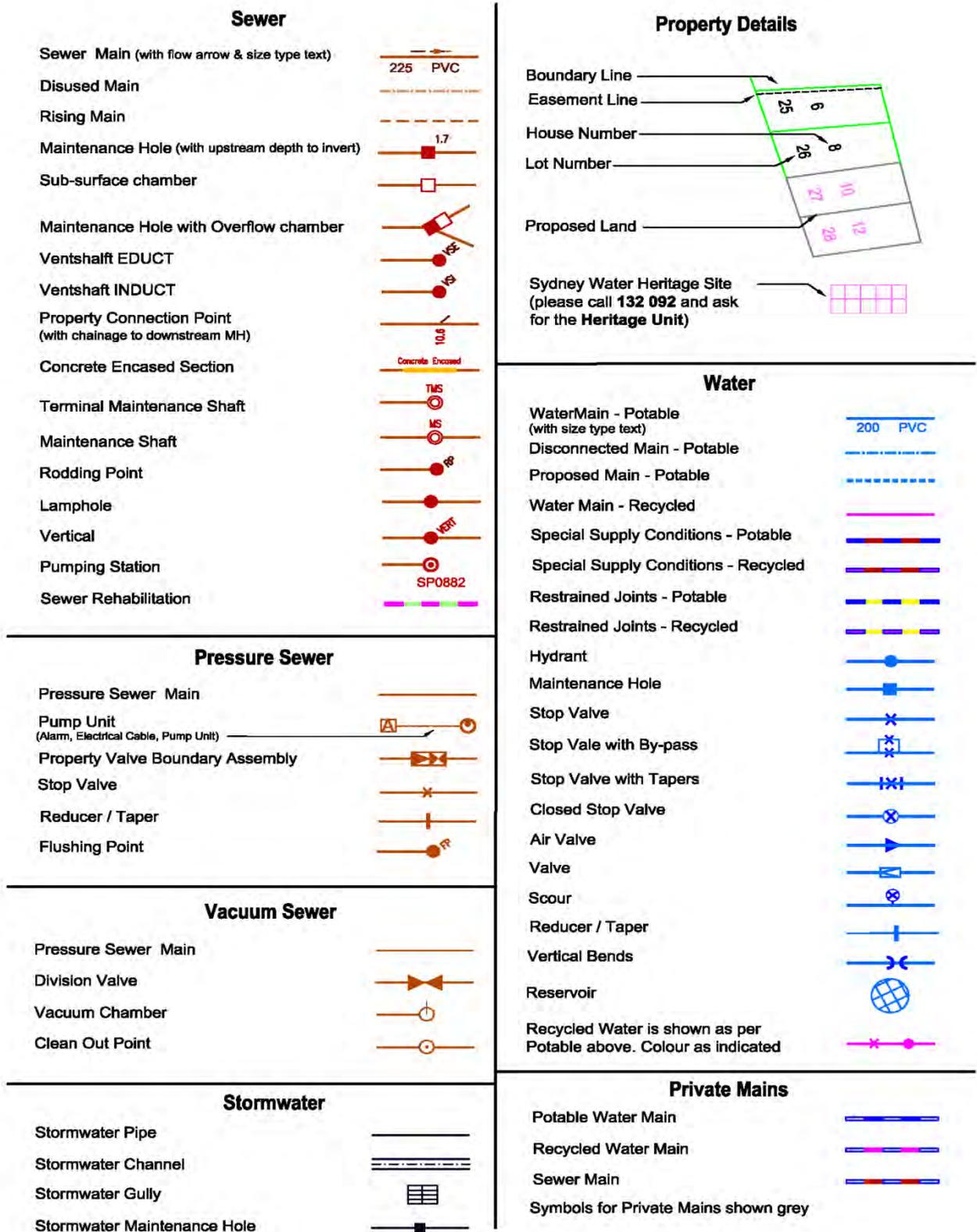
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Asset Information

Legend



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Pipe Types

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In an emergency, or to notify Sydney Water of damage or threats to its structures, call 13 20 90 (24 hours, 7 days)

Disclaimer

The information on this print shows if we provide any water, wastewater or stormwater services to this property. It may not be accurate or to scale. If you'd like to see the location of private wastewater pipes on the property, please buy a **Sewer service diagram**.

14 April 2025

Infotrack Pty Limited

Reference number: 8004231456

Property address: 40 Hulls Rd Leppington NSW 2179

Sewer service diagram is not available

Unfortunately, we don't have a Sewer service diagram available for this property.

This may indicate that a diagram was never drawn, an inspection did not occur or that the relevant fees and charges were not paid to submit the diagram to NSW Fair Trading.

The fee you paid has been used to cover the cost of searching our records.

Sincerely

The Sydney Water team

14 April 2025

Infotrack Pty Limited

Reference number: 8004231454

Property address: 46 Hulls Rd Leppington NSW 2179

Sewer service diagram is not available

Unfortunately, we don't have a Sewer service diagram available for this property.

This may indicate that a diagram was never drawn, an inspection did not occur or that the relevant fees and charges were not paid to submit the diagram to NSW Fair Trading.

The fee you paid has been used to cover the cost of searching our records.

Sincerely

The Sydney Water team

Sewer Service Diagram

Application Number: 8004231451

Private Sewer Diagram - 10/21/17

NO SEWER

PROPERTY INFORMATION		SEWERAGE SERVICE	
Address:	1234 Main St	Service Type:	Private Sewer
City:	Sydney	Service Status:	Not Connected
State:	NSW	Service Date:	10/21/17
Postcode:	2131	Service Provider:	Sydney Water
Lot Number:	1/1	Service Fee:	\$0.00
Block Number:	1	Service Charge:	\$0.00
Strata Title:	None	Service Meter:	None
Other:		Service Notes:	No sewer service available at this location.

Document generated at 14-04-2025 02:10:37 PM

Disclaimer

The information in this diagram shows the private wastewater pipes on this property. It may not be accurate or to scale and may not show our pipes, structures or all property boundaries. If you'd like to see these, please buy a **Service location print**.

Sewer Service Diagram

Application Number: 8004230469

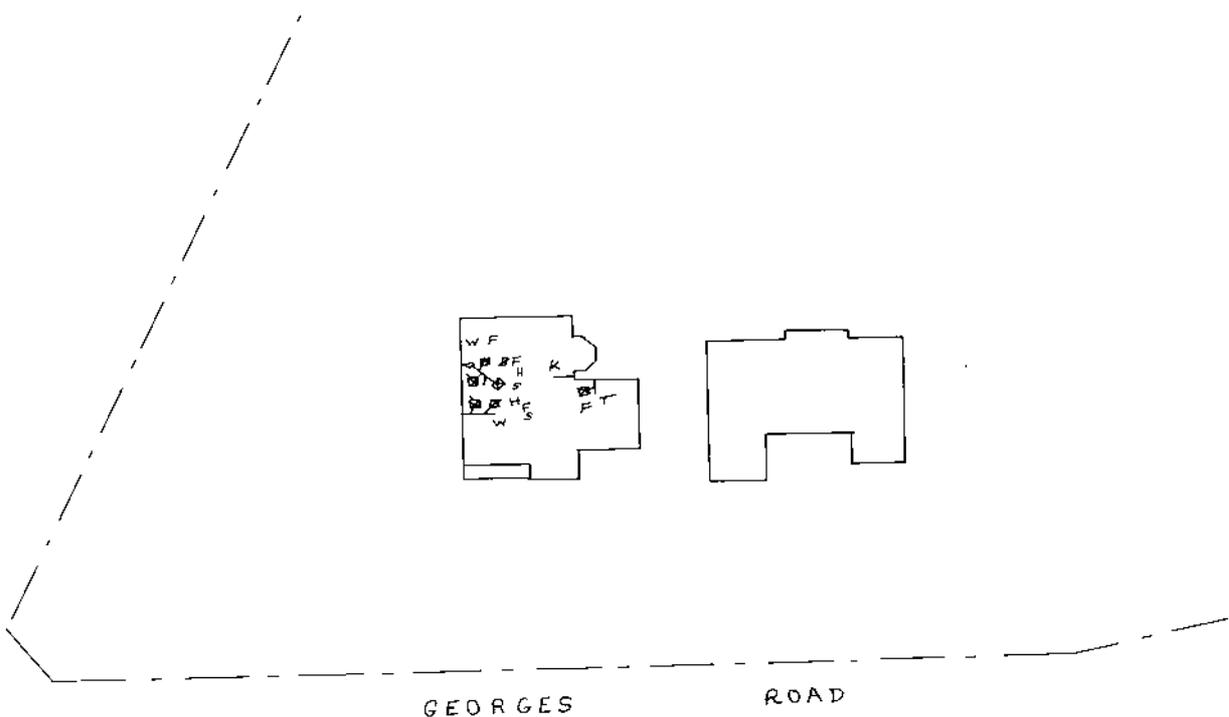
SEWERAGE SERVICE DIAGRAM



MUNICIPALITY OF CAMDEN SUBURB OF LEPPINGTON Copy of Diagram No. 236908

INDICATES - DRAINAGE FITTINGS		SYMBOLS AND ABBREVIATIONS		INDICATES - PLUMBING FIXTURES AND/OR FITTINGS	
	Manhole		P. Trap	CO	Clear Out
	Chamber		Reflex Valve	OV	Vent Pipe
	Lamp hole		Cleaning Eye	T	Tubs
	Boundary Trap		Vertical Pipe	K	Kitchen Sink
	Inspection Shaft		Induct Pipe	W	Water Closet
	Pit		Mica Flap	B	Bath Waste
	Grease Interceptor		Junction	H	Handbasin
	Gully		Rodding Point	SV	Soil Vent Pipe
				BS	Bar Sink
				LS	Lab Sink
				WS	Waste Stack
				BD	Bidet
				S	Shower
				DW	Dishwasher
				F	Floor Waste
				M	Washing Machine

SEWER AVAILABLE
 Where the sewer is not available and a special inspection is involved the Board accepts no responsibility for the suitability of the drainage in relation to the eventual position of the Board's sewer. The existence and position of the Board's sewers, stormwater channels, pipes, mains and structures should be ascertained by inspection of records available at Board's Business Offices. (Section 33 of Board's Act) Position of structures, boundaries, sewers and sewerage service shown hereon are approximate only and in general the outlines of buildings may have been drawn from initial building plans submitted to the Board. Discrepancies in outline can occur from amendment to these plans. Discrepancies in position and type of drainage lines and fittings can be due to unnotified work. Before building work is commenced location of drainage lines is recommended. Licensee is required to submit to the Board a Certificate of Compliance as not all work may have been supervised.
NOTE: This diagram only indicates availability of a sewer and any sewerage service shown as existing in Board's records (By Law 8, Clause 3).



Scale: Approx 1:500 Distances/depths in metres pipe diameters in millimetres

W.s _____ Ur.s _____ Sewer Ref. Sheet No. _____	DRAINAGE Inspected by _____	Date of Issue _____	PLUMBING Inspected	YES	NO
	Inspector _____	Outfall _____	Inspector _____		
	Cert. of Compliance No. _____	Drainer _____	Cert. of Compliance No. _____		
	Field Diagram Examined by _____	Plumber _____	For Regional Manager _____		
	Tracing Checked by _____	Boundary Trap is not required			

Connection Date: _____ Form 77 644 (A4 No. 11/May '93B) Water Board Print

RESIDENTIAL PROPERTY REQUISITIONS ON TITLE

Vendor:
Purchaser:
Property:
Dated:

Possession and tenancies

1. Vacant possession of the Property must be given on completion unless the Contract provides otherwise.
2. Is anyone in adverse possession of the Property or any part of it?
3.
 - (a) What are the nature and provisions of any tenancy or occupancy?
 - (b) If they are in writing, all relevant documentation should be produced, found in order and handed over on completion with notices of attornment.
 - (c) Please specify any existing breaches.
 - (d) All rent should be paid up to or beyond the date of completion.
 - (e) Please provide details of any bond together with the Rental Bond Board's reference number.
 - (f) If any bond money is held by the Rental Bond Board, the appropriate transfer documentation duly signed should be handed over on completion.
 - (g) Has the vendor or the tenant of the premises taken any steps to seek any benefit or protection under any law enacted in response to the COVID-19 pandemic? If so, please provide details of the steps taken and of the progress or outcome of any negotiations or hearing.
 - (h) Has there been any application for land tax relief or residential tenancy support payment? If so, please provide details.
 - (i)
4. Is the Property affected by a protected tenancy (a tenancy affected by Schedule 2, Part 7 of the *Residential Tenancies Act 2010* (NSW))? If so, please provide details.
5. If the tenancy is subject to the *Residential Tenancies Act 2010* (NSW):
 - (a) has either the vendor or any predecessor or the tenant applied to the NSW Civil and Administrative Tribunal for an order?
 - (b) have any orders been made by the NSW Civil and Administrative Tribunal? If so, please provide details.

Title

6. Subject to the Contract, on completion the vendor should be registered as proprietor in fee simple of the Property free from all encumbrances and notations.
7. On or before completion, any mortgage, caveat, writ or priority notice must be discharged, withdrawn, cancelled or removed as the case may be or, in the case of a mortgage, caveat or priority notice, an executed discharge or withdrawal or removal handed over on completion.
8. Are there any proceedings pending or concluded that could result in the recording of any writ on the title to the Property or in the General Register of Deeds? If so, full details should be provided at least 14 days prior to completion.
9. When and where may the title documents be inspected?
10. Are any chattels or fixtures subject to any hiring or leasing agreement or charge or to any security interest under the *Personal Property Securities Act 2009* (Cth)? If so, details must be given and all indebtedness cleared and title transferred unencumbered to the vendor prior to completion.

Adjustments

11. All outgoing referred to in clause 14.1 and 23.5 to 23.7 (inclusive) of the Contract must be paid up to and including the date of completion.
12. Is the vendor liable to pay land tax or is the Property otherwise charged or liable to be charged with land tax? If so:
 - (a) to what year has a return been made?
 - (b) what is the taxable value of the Property for land tax purposes for the current year?
13. If any land tax certificate shows a charge for land tax on the land, the vendor must produce evidence at completion that the charge is no longer effective against the land.

Survey and building

14. Subject to the Contract, the survey should be satisfactory and show that the whole of the Property is available and that there are no encroachments by or upon the Property and that all improvements comply with local government/planning legislation.
15. Is the vendor in possession of a survey report? If so, please produce a copy for inspection prior to completion. The original should be handed over on completion.
16.
 - (a) Have the provisions of the *Local Government Act 1993* (NSW), the *Environmental Planning and Assessment Act 1979* (NSW) and their regulations been complied with?
 - (b) Is there any matter that could justify the making of an upgrading or demolition order in respect of any building or structure?
 - (c) Has the vendor a Building Information Certificate or a Building Certificate which relates to all

- current buildings or structures? If so, it should be handed over on completion. Please provide a copy in advance.
- (d) Has the vendor a Final Occupation Certificate (as referred to in the former Section 109C of the *Environmental Planning and Assessment Act 1979* (NSW)) or an Occupation Certificate as referred to in Section 6.4 of the *Environmental Planning and Assessment Act 1979* (NSW) for all current buildings or structures? If so, it should be handed over on completion. Please provide a copy in advance.
- (e) In respect of any residential building work carried out in the last 7 years:
- (i) please identify the building work carried out;
 - (ii) when was the building work completed?
 - (iii) please state the builder's name and licence number;
 - (iv) please provide details of insurance or any alternative indemnity product under the *Home Building Act 1989* (NSW).
- (f) Have any actions been taken, including the issuing of any notices or orders, relating to any building or building works under the *Residential Apartment Buildings (Compliance and Enforcement Powers) Act 2020* (NSW) or have any undertakings been given by any developer under that Act? Any outstanding obligations should be satisfied by the vendor prior to completion.
- 17.
- (a) Has the vendor (or any predecessor) entered into any agreement with or granted any indemnity to the Council or any other authority concerning any development on the Property?
- (b) Is there any planning agreement or other arrangement referred to in Section 7.4 of the *Environmental Planning and Assessment Act 1979* (NSW), (registered or unregistered) affecting the Property? If so please provide details and indicate if there are any proposals for amendment or revocation?
18. If a swimming pool is included in the sale:
- (a) did its installation or construction commence before or after 1 August 1990?
- (b) has the swimming pool been installed or constructed in accordance with approvals under the *Local Government Act 1919* (NSW) and *Local Government Act 1993* (NSW)?
- (c) does it comply with the provisions of the *Swimming Pools Act 1992* (NSW) and regulations relating to access? If not, please provide details or the exemptions claimed;
- (d) have any notices or orders issued or been threatened under the *Swimming Pools Act 1992* (NSW) or regulations?
- (e) if a certificate of non-compliance has issued, please provide reasons for its issue if not disclosed in the contract;
- (f) originals of certificate of compliance or non-compliance and occupation certificate should be handed over on settlement.
- 19.
- (a) To whom do the boundary fences belong?
- (b) Are there any party walls?
- (c) If the answer to Requisition 19(b) is yes, specify what rights exist in relation to each party wall and produce any agreement. The benefit of any such agreement should be assigned to the purchaser on completion.
- (d) Is the vendor aware of any dispute regarding boundary or dividing fences or party walls?
- (e) Has the vendor received any notice, claim or proceedings under the *Dividing Fences Act 1991* (NSW) or the *Encroachment of Buildings Act 1922* (NSW)?
- Affectations/Benefits**
- 20.
- (a) Is the vendor aware of any rights, licences, easements, covenants or restrictions as to use affecting or benefiting the Property other than those disclosed in the Contract? If a licence benefits the Property please provide a copy and indicate:
- (i) whether there are any existing breaches by any party to it;
 - (ii) whether there are any matters in dispute; and
 - (iii) whether the licensor holds any deposit, bond or guarantee.
- (b) In relation to such licence:
- (i) All licence fees and other moneys payable should be paid up to and beyond the date of completion;
 - (ii) The vendor must comply with all requirements to allow the benefit to pass to the purchaser.
21. Is the vendor aware of:
- (a) any road, drain, sewer or storm water channel which intersects or runs through the land?
- (b) any dedication to or use by the public of any right of way or other easement over any part of the land?
- (c) any latent defects in the Property?
22. Has the vendor any notice or knowledge that the Property is affected by the following:
- (a) any resumption or acquisition or proposed resumption or acquisition?
- (b) any notice requiring work to be done or money to be spent on the Property or any footpath or road adjoining? If so, such notice must be complied with prior to completion.

- (c) any work done or intended to be done on the Property or the adjacent street which may create a charge on the Property or the cost of which might be or become recoverable from the purchaser?
 - (d) any sum due to any local or public authority? If so, it must be paid prior to completion.
 - (e) any realignment or proposed realignment of any road adjoining the Property?
 - (f) the existence of any contamination including, but not limited to, materials or substances dangerous to health such as asbestos and fibreglass or polyethylene or other flammable or combustible material including cladding?
23. If the Property is a building or part of a building to which external combustible cladding has been applied, has the owner provided to the Planning Secretary details of the building and the external combustible cladding and is the building recorded in the Register maintained by the Secretary?
- 24.
- (a) Does the Property have the benefit of water, sewerage, drainage, electricity, gas and telephone services?
 - (b) If so, do any of the connections for such services pass through any adjoining land?
 - (c) Do any service connections for any other property pass through the Property?
25. Has any claim been made by any person to close, obstruct or limit access to or from the Property or to prevent the enjoyment of any rights appurtenant to the Property?

Capacity

26. If the Contract discloses that the vendor is a trustee, evidence should be produced to establish the trustee's power of sale.

Requisitions and transfer

27. If not attached to the Contract and the transaction is not an excluded transaction, any *clearance certificate* under Section 14-220 of Schedule 1 of the *Taxation Administration Act 1953* (Cth) should be served on the purchaser at least 7 days prior to completion.
28. The vendor should furnish completed details within the time specified in the contract, sufficient to enable the purchaser to make any *GSTRW* payment.
29. If any document required for completion is executed pursuant to a power of attorney, then at least 7 days prior to completion a copy of the registered power of attorney should be produced and found in order.
30. Searches, surveys, enquiries and inspection of title deeds must prove satisfactory.
31. The purchaser reserves the right to make further requisitions prior to completion.
32. Unless we are advised by you to the contrary prior to completion, it will be assumed that your replies to these requisitions remain unchanged as at the completion date.

Off the plan contract

33. If the Contract is an off the plan contract:
- (a) Is the vendor aware of any inaccuracy in the disclosure statement attached to the Contract? If so, please provide particulars.
 - (b) The vendor should before completion serve on the purchaser a copy of the registered plan and any document that was registered with the plan.
 - (c) Please provide details, if not already given, of the holding of the deposit or any instalment as trust or controlled monies by a real estate agent, licensed conveyancer or law practice.
 - (d) Has any developer provided to the Secretary of the Department of Customer Services an expected completion notice under the *Residential Apartment Buildings (Compliance and Enforcement Powers) Act 2020* (NSW) in relation to the Property? If so, when was it made?
 - (e) The vendor should provide an occupation certificate as referred to in Section 6.4 of the *Environmental Planning and Assessment Act 1979* (NSW) for all buildings or structures on the Property.

Disclosure Statement – Off the Plan Contracts

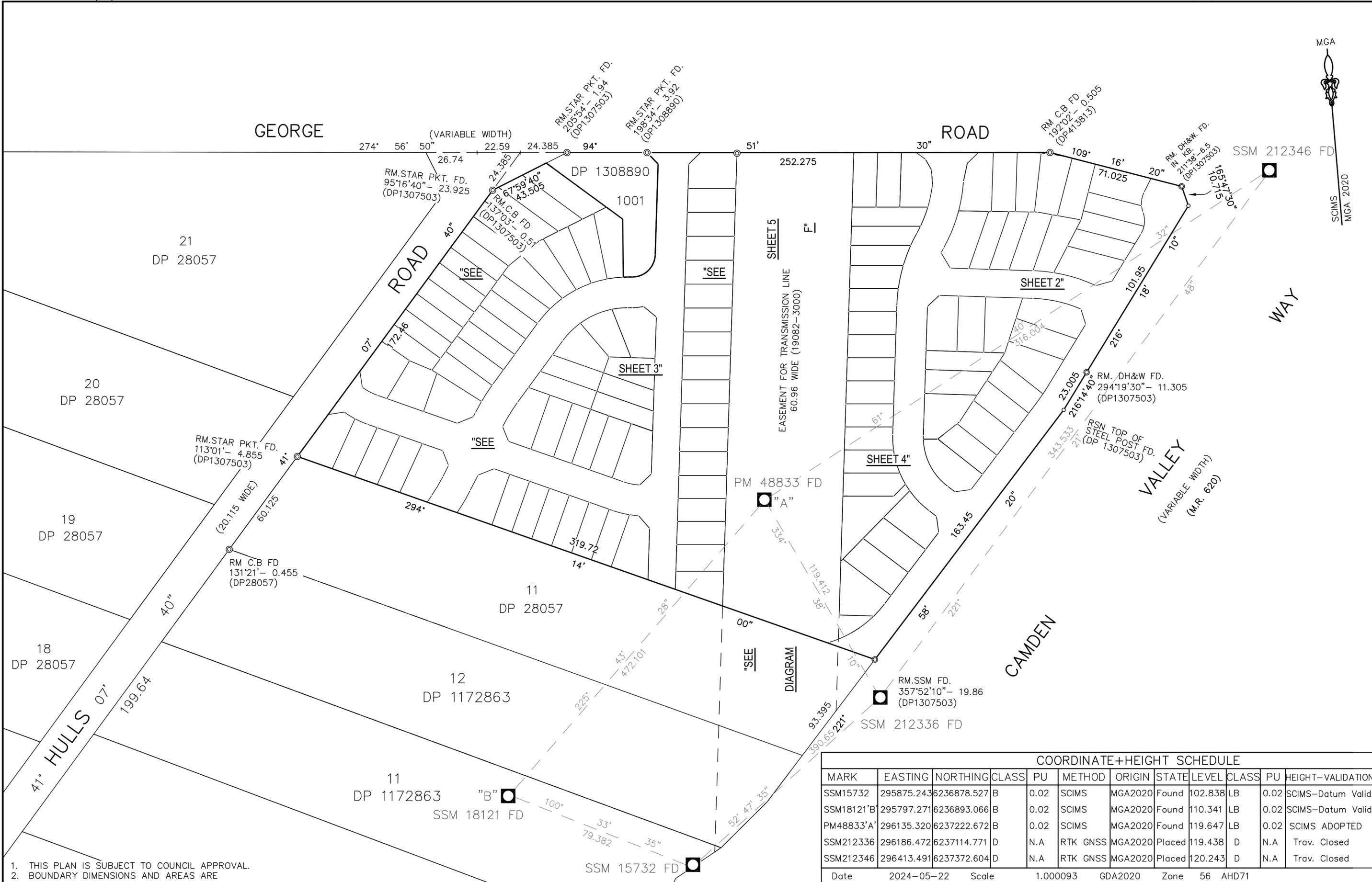
This is the approved form for the purposes of s66ZM of the Conveyancing Act 1919.

VENDOR	Hulls Road 52 Pty Ltd ACN 649 334 958 ATF Crown Trust 55
PROPERTY	Lot [] / 40, 46 & 52 Hulls Road and 15 George Road, Leppington NSW 2179

TITLE STRUCTURE	
Will the lot be a lot in a strata scheme?	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
Will the lot also be subject to a Strata Management Statement or Building Management Statement?	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
Will the lot form part of a community, precinct or neighbourhood scheme?	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes If Yes, please specify scheme type:

DETAILS					
Completion	The later of the following dates: (1) 42 days from the contract date; or (2) The date which is 21 days after the Vendor serves notice of registration of the Plan of Subdivision by NSW Land Registry Services to the Purchaser and provides the Purchaser with a copy of the registered Plan of Subdivision and Plan of Subdivision Instrument.	Refer to clause(s):	Additional condition 10.1		
Is there a sunset date?	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	Can this date be extended?	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	Refer to clause(s):	Additional condition 10.2
Does the purchaser pay anything more if they do not complete on time?	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	Provide details, including relevant clause(s) of contract:	Additional condition 3.3: \$350.00 plus GST Vendor's legal fees if a Notice to Complete is issued Additional condition 8: 10% Interest on balance price if completion delayed by purchaser		
Has development approval been obtained?	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	Development Approval No:	DA/2023/78/1 and DA/2023/78/2		
Has a principal certifying authority been appointed?	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	Provide details:	Camden Council		
Can the vendor cancel the contract if an event preventing or enabling the development does or does not occur?	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	Provide details, including relevant clause(s) of contract:	Additional condition 10.4: If plan of subdivision not registered by Sunset Date		

ATTACHMENTS (s66ZM(2) of the Conveyancing Act 1919)	
The following prescribed documents are included in this disclosure statement (select all that apply).	
<input checked="" type="checkbox"/> draft plan <input checked="" type="checkbox"/> s88B instrument proposed to be lodged with draft plan <input type="checkbox"/> proposed schedule of finishes <input type="checkbox"/> draft strata by-laws <input type="checkbox"/> draft strata development contract	<input type="checkbox"/> draft community/precinct/neighbourhood/management statement <input type="checkbox"/> draft community/precinct/neighbourhood/development contract <input type="checkbox"/> draft strata management statement <input type="checkbox"/> draft building management statement



1. THIS PLAN IS SUBJECT TO COUNCIL APPROVAL.
2. BOUNDARY DIMENSIONS AND AREAS ARE APPROXIMATE AND SUBJECT TO FINAL SURVEY AND A PLAN OF SURVEY BEING REGISTERED WITH NSW LAND REGISTRY SERVICES.
3. ADDITIONAL EASEMENTS AND RESTRICTIONS MAY BE CREATED ON THE FINAL PLAN.
4. PLAN ALTERATIONS MAY BE REQUIRED PRIOR TO ITS ACCEPTANCE AND REGISTRATION.

COORDINATE+HEIGHT SCHEDULE											
MARK	EASTING	NORTHING	CLASS	PU	METHOD	ORIGIN	STATE	LEVEL	CLASS	PU	HEIGHT-VALIDATION
SSM15732	295875.243	6236878.527	B	0.02	SCIMS	MGA2020	Found	102.838	LB	0.02	SCIMS-Datum Valid.
SSM18121'B	295797.271	6236893.066	B	0.02	SCIMS	MGA2020	Found	110.341	LB	0.02	SCIMS-Datum Valid.
PM48833'A	296135.320	6237222.672	B	0.02	SCIMS	MGA2020	Found	119.647	LB	0.02	SCIMS ADOPTED
SSM212336	296186.472	6237114.771	D	N.A	RTK GNSS	MGA2020	Placed	119.438	D	N.A	Trav. Closed
SSM212346	296413.491	6237372.604	D	N.A	RTK GNSS	MGA2020	Placed	120.243	D	N.A	Trav. Closed
Date	2024-05-22		Scale	1.000093		GDA2020	Zone	56		AHD71	

SURVEYOR: PHILIP D. YODALE
 OF YSCO GEOMATICS of Suite 4,
 114 Hampden Road, Artarmon
 Date of Survey: Version 04 March 2025
 Reference: 3721-DP

PLAN OF SUBDIVISION OF LOT 1002 IN DP 1308890
 LGA: CAMDEN
 Locality: LEPPINGTON
 Reduction Ratio: 1:1250
 Lengths are in metres

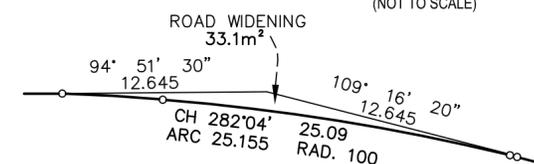
Registered

DRAFT
 DP 1292147

GEORGE ROAD

ROAD

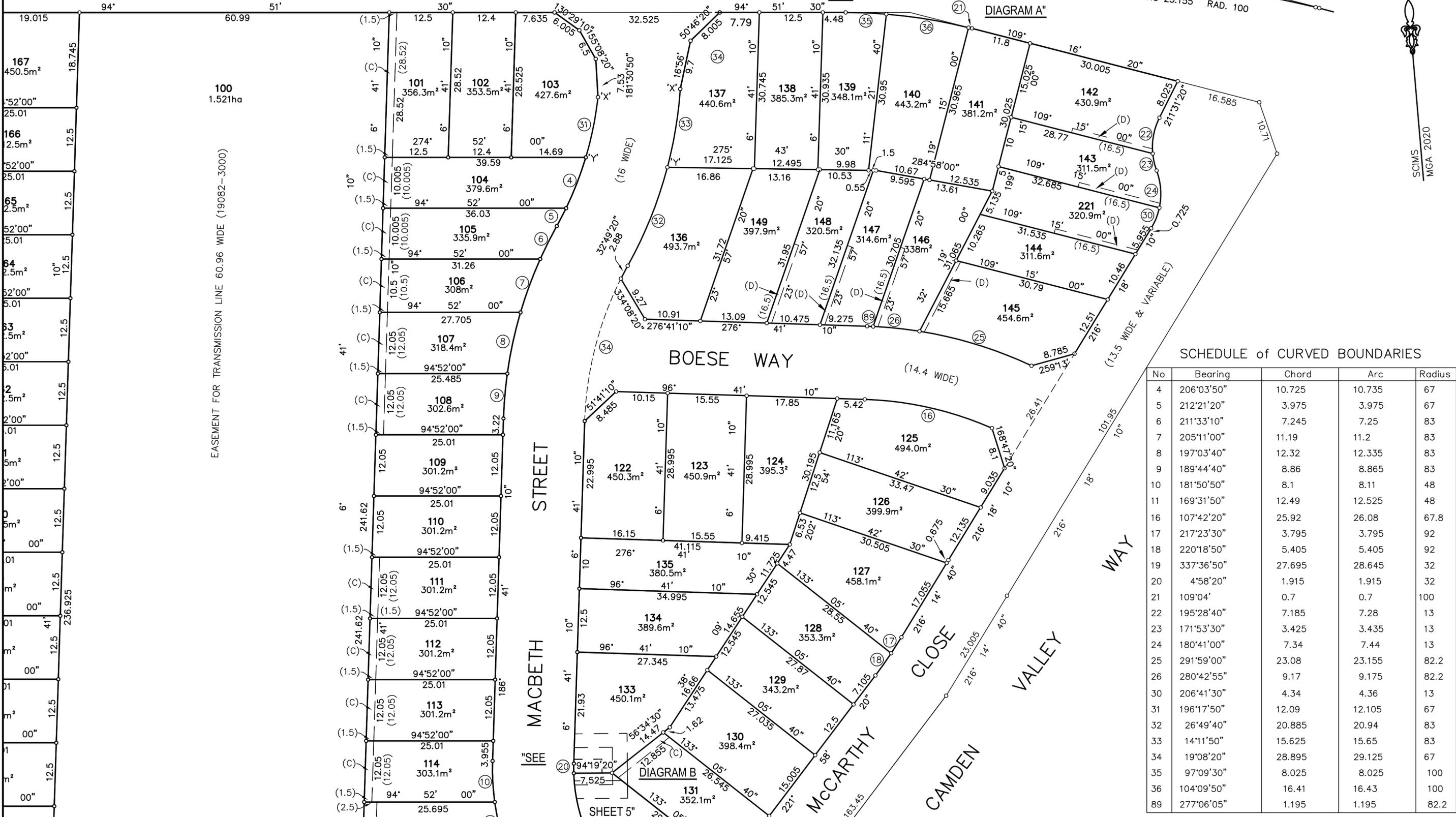
"DIAGRAM A"
(NOT TO SCALE)



MGA



SCIMS
MGA 2020



SCHEDULE of CURVED BOUNDARIES

No	Bearing	Chord	Arc	Radius
64	230°46'30"	16.70	18.47	12
65	273°44'00"	2.295	2.295	58
67	286°29'10"	8.63	8.655	32
68	36°28'00"	14.955	14.97	92
69	49°54'00"	12.81	12.86	42
70	71°06'20"	18.085	18.225	42
71	89°12'10"	8.29	8.305	42
72	88°46'50"	5.94	5.95	28
73	268°22'10"	8.555	8.56	58
74	259°54'40"	8.555	8.56	58
75	251°27'10"	8.555	8.565	58
76	242°59'50"	8.55	8.56	58
77	234°32'20"	8.56	8.565	58
78	225°43'00"	9.28	9.29	58
79	220°55'50"	0.75	0.75	108
80	218°04'20"	10.015	10.02	108
81	213°36'40"	6.805	6.81	108
82	302°22'00"	9.055	9.085	32
83	126°45'30"	6.64	6.645	48
84	118°30'50"	7.165	7.17	48
85	215°22'40"	11.47	11.475	92
86	35°22'40"	13.46	13.47	108



21
DP 28057

20
DP 28057

RM STAR PKT. FD.
113°01' - 4.855
(DP1307503)

RM STAR PKT. FD.
95°16'40" - 23.925
(DP1307503)

RM CB FD
(DAMAGED)
137°12' - 0.51
(DP1307503)

1001
DP 1308890

DRAINAGE RESERVE

HULLS

LEGHORN

TURKINS

AVENUE WIDE

STREET

CORNISH

STREET

(16 WIDE)

- (A) RIGHT OF ACCESS 5 WIDE
- (B) EASEMENT FOR DRAINAGE OF WATER 4 WIDE
- (C) EASEMENT FOR DRAINAGE OF WATER 1.5 WIDE
- (D) EASEMENT FOR SUPPORT & MAINTENANCE 0.9 WIDE

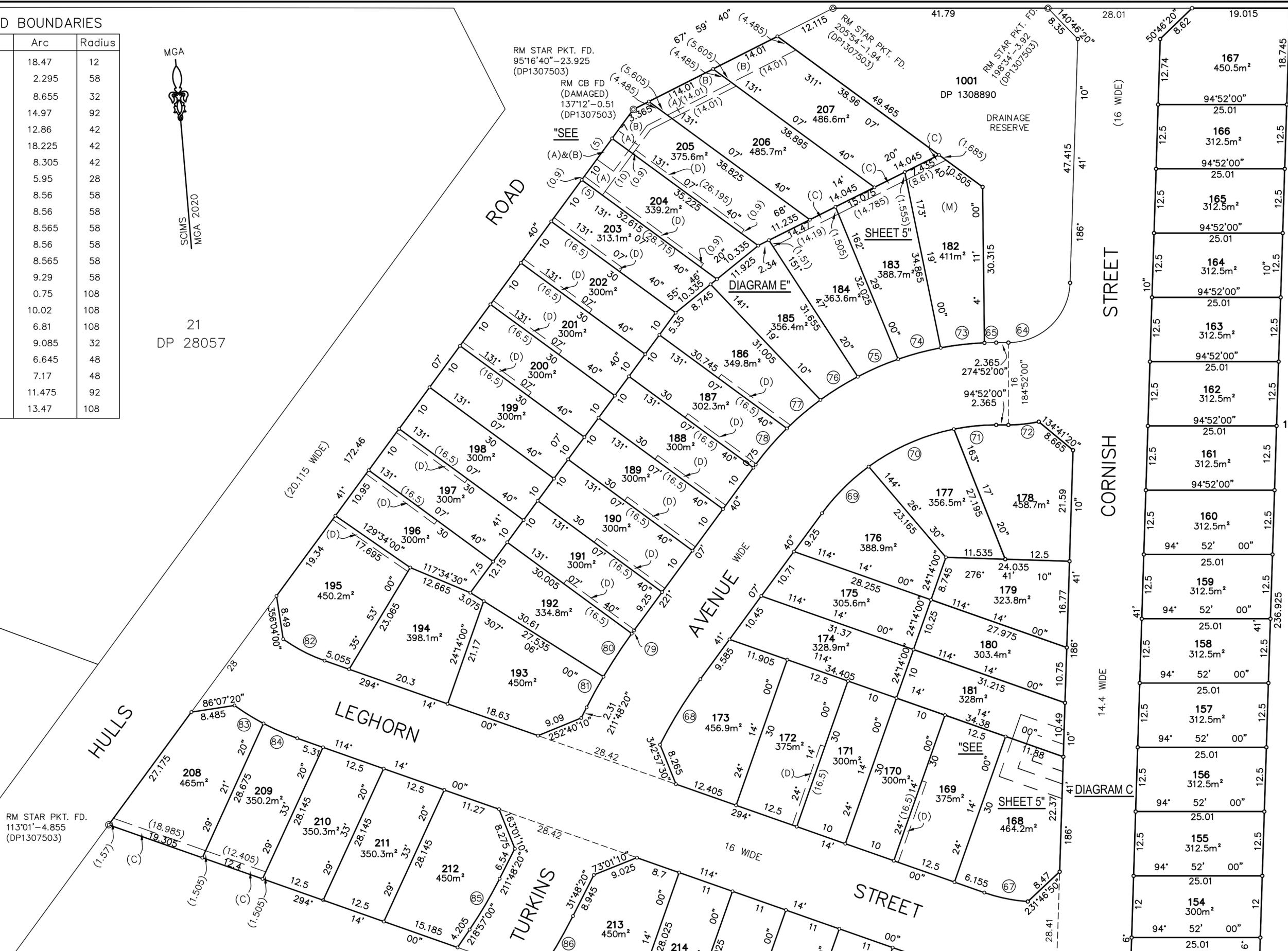
SURVEYOR: PHILIP D. YODALE
OF YSCO GEOMATICS of Suite 4,
114 Hampden Road, Artarmon
Date of Survey: Version 04 March 2025
Reference: 3721-DP

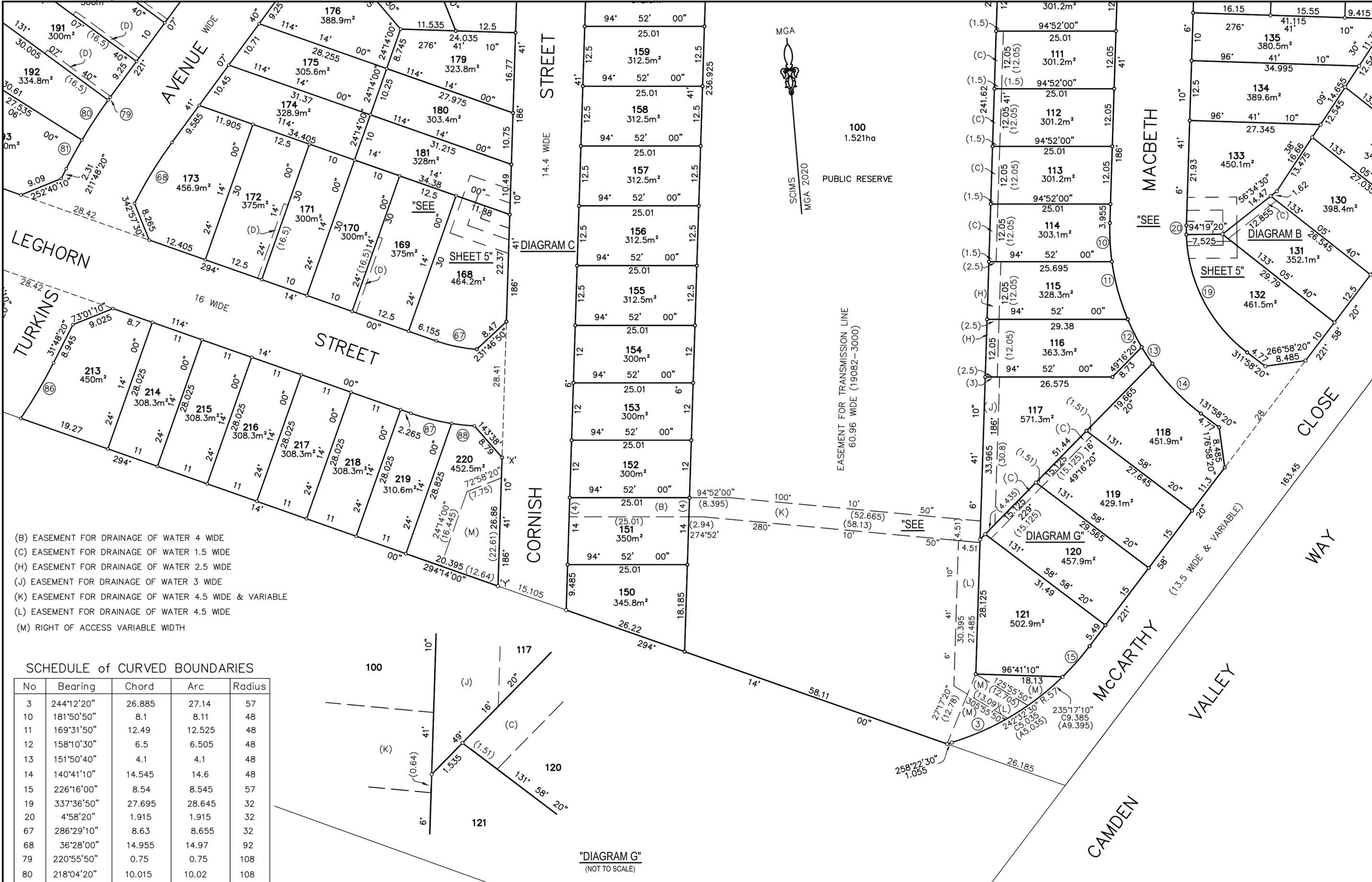
PLAN OF SUBDIVISION OF LOT 1002 IN DP 1308890

LGA: CAMDEN
Locality: LEPPINGTON
Reduction Ratio: 1:500
Lengths are in metres

Registered

DRAFT
DP 1292147

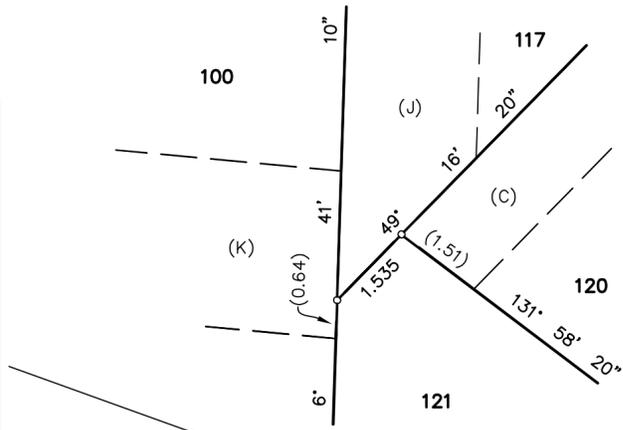




- (B) EASEMENT FOR DRAINAGE OF WATER 4 WIDE
- (C) EASEMENT FOR DRAINAGE OF WATER 1.5 WIDE
- (H) EASEMENT FOR DRAINAGE OF WATER 2.5 WIDE
- (J) EASEMENT FOR DRAINAGE OF WATER 3 WIDE
- (K) EASEMENT FOR DRAINAGE OF WATER 4.5 WIDE & VARIABLE
- (L) EASEMENT FOR DRAINAGE OF WATER 4.5 WIDE
- (M) RIGHT OF ACCESS VARIABLE WIDTH

SCHEDULE of CURVED BOUNDARIES

No	Bearing	Chord	Arc	Radius
3	244°12'20"	26.885	27.14	57
10	181°50'50"	8.1	8.11	48
11	169°31'50"	12.49	12.525	48
12	158°10'30"	6.5	6.505	48
13	151°50'40"	4.1	4.1	48
14	140°41'10"	14.545	14.6	48
15	226°16'00"	8.54	8.545	57
19	337°36'50"	27.695	28.645	32
20	4°58'20"	1.915	1.915	32
67	286°29'10"	8.63	8.655	32
68	36°28'00"	14.955	14.97	92
79	220°55'50"	0.75	0.75	108
80	218°04'20"	10.015	10.02	108
81	213°36'40"	6.805	6.81	108
86	35°22'40"	13.46	13.47	108
87	108°59'30"	8.77	8.78	48
88	100°54'10"	4.77	4.77	48

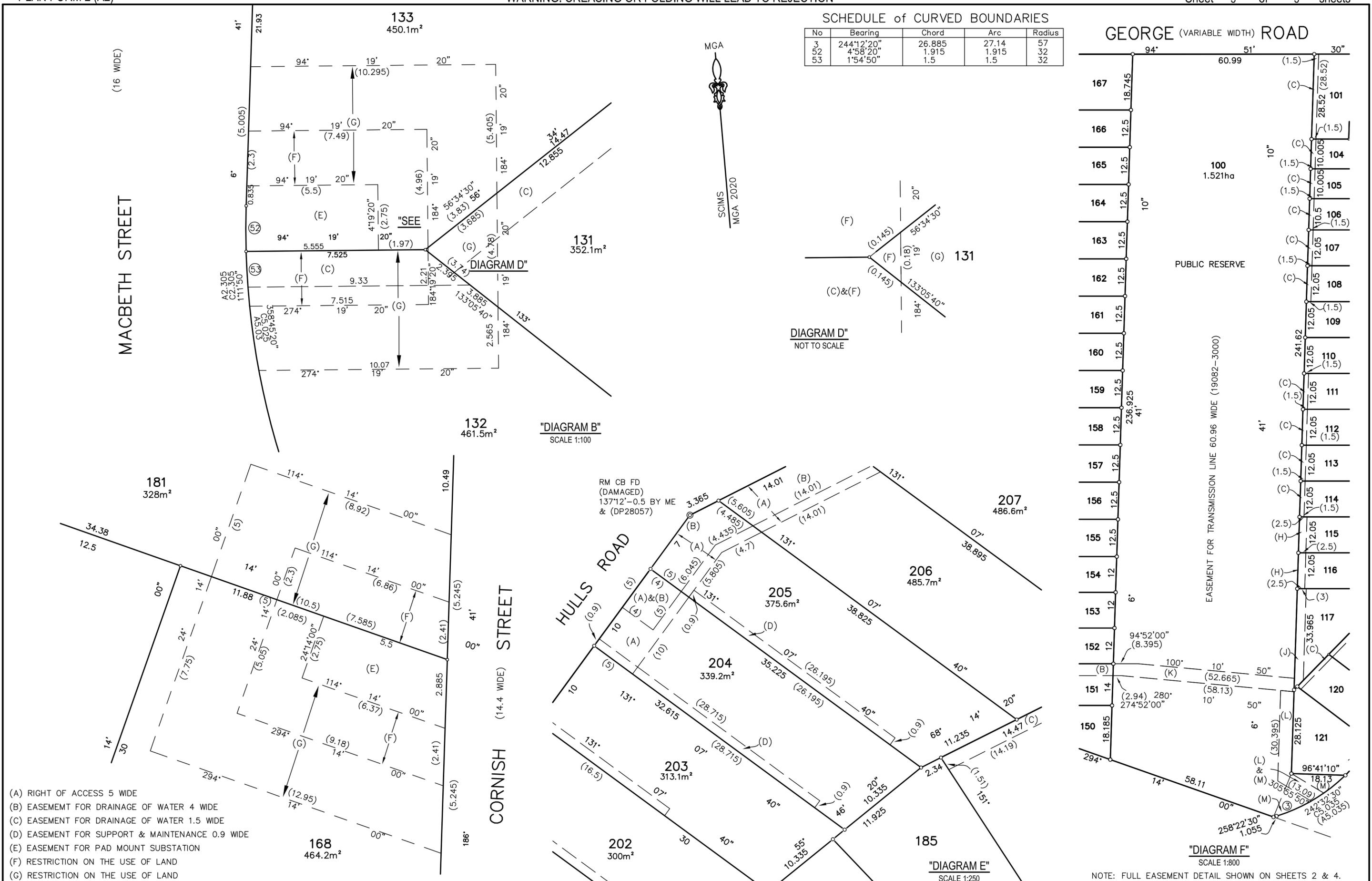


"DIAGRAM G"
(NOT TO SCALE)

SURVEYOR: PHILIP D. YODALE OF YSCO GEOMATICS of Suite 4, 114 Hampden Road, Artarmon Date of Survey: Version 05 March 2025 Reference: 3721-DP	PLAN OF SUBDIVISION OF LOT 1002 IN DP 1308890	LGA: CAMDEN Locality: LEPPINGTON Reduction Ratio: 1:500 Lengths are in metres	Registered	DRAFT DP 1292147
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SCHEDULE of CURVED BOUNDARIES

No	Bearing	Chord	Arc	Radius
3	244°12'20"	26.885	27.14	57
52	4°58'20"	1.915	1.915	32
53	1°54'50"	1.5	1.5	32



- (A) RIGHT OF ACCESS 5 WIDE
- (B) EASEMENT FOR DRAINAGE OF WATER 4 WIDE
- (C) EASEMENT FOR DRAINAGE OF WATER 1.5 WIDE
- (D) EASEMENT FOR SUPPORT & MAINTENANCE 0.9 WIDE
- (E) EASEMENT FOR PAD MOUNT SUBSTATION
- (F) RESTRICTION ON THE USE OF LAND
- (G) RESTRICTION ON THE USE OF LAND
- (H) EASEMENT FOR DRAINAGE OF WATER 2.5 WIDE
- (J) EASEMENT FOR DRAINAGE OF WATER 3 WIDE
- (K) EASEMENT FOR DRAINAGE OF WATER 4.5 WIDE & VARIABLE
- (L) EASEMENT FOR DRAINAGE OF WATER 4.5 WIDE
- (M) RIGHT OF ACCESS VARIABLE WIDTH

"DIAGRAM C"
SCALE 1:100

SURVEYOR: PHILIP D. YODALE
OF YSCO GEOMATICS of Suite 4,
114 Hampden Road, Artarmon
Date of Survey: Version 04 March 2025
Reference: 3721-DP

PLAN OF SUBDIVISION OF LOT 1002 IN DP 1308890

LGA: CAMDEN
Locality: LEPPINGTON
Reduction Ratio: AS ABOVE
Lengths are in metres

Registered

DRAFT
DP 1292147

NOTE: FULL EASEMENT DETAIL SHOWN ON SHEETS 2 & 4.

Plan Form 6_Digital (2021)	Deposited Plan Administration Sheet Sheet 1 of 15
OFFICE USE ONLY	<h1 style="margin: 0;">DP1292147</h1>
Registered	LGA CAMDEN
Title System <input style="width: 300px; height: 20px;" type="text"/>	LOCALITY LEPPINGTON
PLAN OF SUBDIVISION OF LOT 1002 IN DP1308890	PARISH COOK
	COUNTY CUMBERLAND
Survey Certificate <input style="float: right; margin-left: 100px;" type="button" value="Survey"/>	Crown Lands NSW/Western Lands Office Approval
I, Philip Youdale of YSCO GEOMATICS OF SUITE 4 114 HAMPDEN ROAD, ARTARMON, a surveyor registered under Surveying and Spatial Information Act 2002, certify that:	I, <input style="width: 150px;" type="text"/> (Authorised Officer) in approving this plan certify that all necessary approvals in regard to the allocation of the land shown herein have been given.
The land shown in the plan was surveyed in accordance with the Surveying and Spatial Information Regulation 2017, is accurate and the survey was completed on: TBC	Signature <input style="width: 300px; height: 40px;" type="text"/> Date <input style="width: 100px; height: 25px;" type="text"/>
Urban/Rural <input style="width: 100px; height: 25px;" type="text" value="URBAN"/>	File Number <input style="width: 200px;" type="text"/> Office <input style="width: 200px;" type="text"/>
Datum Line <input style="width: 250px; height: 25px;" type="text" value="'A' - 'B'"/>	Subdivision Certificate (Check One)
Signature <input style="width: 400px; height: 40px;" type="text"/>	<input type="checkbox"/> Authorised Person
Surveyor Identification No. <input style="width: 200px; height: 25px;" type="text" value="SU002502"/>	<input type="checkbox"/> General Manager
Surveyor registered under the Surveying and Spatial Information Act 2002.	<input type="checkbox"/> Registered Certifier
Plans Used in the preparation of this survey <input style="width: 400px; height: 100px;" type="text" value="DP1307503, DP1308890"/>	certify that the provisions of 6.15 of the <i>Environmental Planning and Assessment Act 1979</i> have been satisfied in relation to the proposed subdivision, new road or reserve set out herein.
	Signature <input style="width: 400px; height: 40px;" type="text"/>
	Consent Authority <input style="width: 200px;" type="text"/>
	Date of Endorsement <input style="width: 200px;" type="text"/> Subdivision Certificate Number <input style="width: 200px;" type="text"/>
	File Number <input style="width: 200px;" type="text"/>
	Statement of intention to dedicate public roads, create public reserves and drainage reserves, acquire/resume land.
	<input style="width: 400px; height: 80px;" type="text" value="See Sheet 2 for Dedications"/>
Surveyor's Reference 3721	Signatures, Seals and Section 88B Statements should appear on the following sheet(s)

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PLAN OF SUBDIVISION OF LOT 1002 IN DP1308890

This sheet is for the provision of the following information as required:

- A schedule of lots and addresses
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- Signatures and seals- see 195D *Conveyancing Act 1919*
- Any information which cannot fit in the appropriate panel of sheet 1 of the administration sheets.

Subdivision Certificate Number

Date of Endorsement

Statement of intention to dedicate public roads, create public reserves and drainage reserves, acquire/resume land.

IT IS INTENDED TO DEDICATE THE ROAD WIDENING SHOWN IN GEORGE ROAD TO THE PUBLIC AS ROAD

IT IS INTENDED TO DEDICATE MACBETH STREET, BOESE WAY, MCCARTHY CLOSE, LEGHORN STREET, TURKINS AVENUE & CORNISH STREET TO

THE PUBLIC AS ROAD.

IT IS INTENDED TO CREATE LOT 100 AS A PUBLIC RESERVE

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Subdivision Certificate Number

Date of Endorsement

LOT NUMBER	SUB-ADDRESS NUMBER	ADDRESS NUMBER	ROAD NAME	ROAD TYPE	LOCALITY NAME
100					LEPPINGTON
101			GEORGE	ROAD	LEPPINGTON
102			GEORGE	ROAD	LEPPINGTON
103			GEORGE	ROAD	LEPPINGTON
104			MACBETH	STREET	LEPPINGTON
105			MACBETH	STREET	LEPPINGTON
106			MACBETH	STREET	LEPPINGTON
107			MACBETH	STREET	LEPPINGTON
108			MACBETH	STREET	LEPPINGTON
109			MACBETH	STREET	LEPPINGTON
110			MACBETH	STREET	LEPPINGTON
111			MACBETH	STREET	LEPPINGTON
112			MACBETH	STREET	LEPPINGTON
113			MACBETH	STREET	LEPPINGTON
114			MACBETH	STREET	LEPPINGTON
115			MACBETH	STREET	LEPPINGTON
116			MACBETH	STREET	LEPPINGTON

Surveyor's Reference 3721

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Subdivision Certificate Number

Date of Endorsement

LOT NUMBER	SUB-ADDRESS NUMBER	ADDRESS NUMBER	ROAD NAME	ROAD TYPE	LOCALITY NAME
117			MACBETH	STREET	LEPPINGTON
118			MCCARTHY	CLOSE	LEPPINGTON
119			MCCARTHY	CLOSE	LEPPINGTON
120			MCCARTHY	CLOSE	LEPPINGTON
121			MCCARTHY	CLOSE	LEPPINGTON
122			BOESE	WAY	LEPPINGTON
123			BOESE	WAY	LEPPINGTON
124			BOESE	WAY	LEPPINGTON
125			BOESE	WAY	LEPPINGTON
126			MCCARTHY	CLOSE	LEPPINGTON
127			MCCARTHY	CLOSE	LEPPINGTON
128			MCCARTHY	CLOSE	LEPPINGTON
129			MCCARTHY	CLOSE	LEPPINGTON
130			MCCARTHY	CLOSE	LEPPINGTON
131			MCCARTHY	CLOSE	LEPPINGTON
132			MACBETH	STREET	LEPPINGTON
133			MACBETH	STREET	LEPPINGTON

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Subdivision Certificate Number

Date of Endorsement

LOT NUMBER	SUB-ADDRESS NUMBER	ADDRESS NUMBER	ROAD NAME	ROAD TYPE	LOCALITY NAME
134			MACBETH	STREET	LEPPINGTON
135			MACBETH	STREET	LEPPINGTON
136			BOESE	WAY	LEPPINGTON
137			GEORGE	ROAD	LEPPINGTON
138			GEORGE	ROAD	LEPPINGTON
139			GEORGE	ROAD	LEPPINGTON
140			GEORGE	ROAD	LEPPINGTON
141			GEORGE	ROAD	LEPPINGTON
142			MCCARTHY	CLOSE	LEPPINGTON
143			MCCARTHY	CLOSE	LEPPINGTON
144			MCCARTHY	CLOSE	LEPPINGTON
145			MCCARTHY	CLOSE	LEPPINGTON
146			BOESE	WAY	LEPPINGTON
147			BOESE	WAY	LEPPINGTON
148			BOESE	WAY	LEPPINGTON
149			BOESE	WAY	LEPPINGTON
150			CORNISH	STREET	LEPPINGTON

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Subdivision Certificate Number

Date of Endorsement

LOT NUMBER	SUB-ADDRESS NUMBER	ADDRESS NUMBER	ROAD NAME	ROAD TYPE	LOCALITY NAME
151			CORNISH	STREET	LEPPINGTON
152			CORNISH	STREET	LEPPINGTON
153			CORNISH	STREET	LEPPINGTON
154			CORNISH	STREET	LEPPINGTON
155			CORNISH	STREET	LEPPINGTON
156			CORNISH	STREET	LEPPINGTON
157			CORNISH	STREET	LEPPINGTON
158			CORNISH	STREET	LEPPINGTON
159			CORNISH	STREET	LEPPINGTON
160			CORNISH	STREET	LEPPINGTON
161			CORNISH	STREET	LEPPINGTON
162			CORNISH	STREET	LEPPINGTON
163			CORNISH	STREET	LEPPINGTON
164			CORNISH	STREET	LEPPINGTON
165			CORNISH	STREET	LEPPINGTON
166			CORNISH	STREET	LEPPINGTON
167			CORNISH	STREET	LEPPINGTON

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Subdivision Certificate Number

Date of Endorsement

LOT NUMBER	SUB-ADDRESS NUMBER	ADDRESS NUMBER	ROAD NAME	ROAD TYPE	LOCALITY NAME
168			LEGHORN	STREET	LEPPINGTON
169			LEGHORN	STREET	LEPPINGTON
170			LEGHORN	STREET	LEPPINGTON
171			LEGHORN	STREET	LEPPINGTON
172			LEGHORN	STREET	LEPPINGTON
173			LEGHORN	STREET	LEPPINGTON
174			TURKINS	AVENUE	LEPPINGTON
175			TURKINS	AVENUE	LEPPINGTON
176			TURKINS	AVENUE	LEPPINGTON
177			TURKINS	AVENUE	LEPPINGTON
178			TURKINS	AVENUE	LEPPINGTON
179			CORNISH	STREET	LEPPINGTON
180			CORNISH	STREET	LEPPINGTON
181			CORNISH	STREET	LEPPINGTON
182			TURKINS	AVENUE	LEPPINGTON
183			TURKINS	AVENUE	LEPPINGTON
184			TURKINS	AVENUE	LEPPINGTON

Surveyor's Reference 3721

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Subdivision Certificate Number

Date of Endorsement

LOT NUMBER	SUB-ADDRESS NUMBER	ADDRESS NUMBER	ROAD NAME	ROAD TYPE	LOCALITY NAME
185			TURKINS	AVENUE	LEPPINGTON
186			TURKINS	AVENUE	LEPPINGTON
187			TURKINS	AVENUE	LEPPINGTON
188			TURKINS	AVENUE	LEPPINGTON
189			TURKINS	AVENUE	LEPPINGTON
190			TURKINS	AVENUE	LEPPINGTON
191			TURKINS	AVENUE	LEPPINGTON
192			TURKINS	AVENUE	LEPPINGTON
193			TURKINS	AVENUE	LEPPINGTON
194			LEGHORN	STREET	LEPPINGTON
195			LEGHORN	STREET	LEPPINGTON
196			HULLS	ROAD	LEPPINGTON
197			HULLS	ROAD	LEPPINGTON
198			HULLS	ROAD	LEPPINGTON
199			HULLS	ROAD	LEPPINGTON
200			HULLS	ROAD	LEPPINGTON
201			HULLS	ROAD	LEPPINGTON

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Subdivision Certificate Number

Date of Endorsement

LOT NUMBER	SUB-ADDRESS NUMBER	ADDRESS NUMBER	ROAD NAME	ROAD TYPE	LOCALITY NAME
202			HULLS	ROAD	LEPPINGTON
203			HULLS	ROAD	LEPPINGTON
204			HULLS	ROAD	LEPPINGTON
205			HULLS	ROAD	LEPPINGTON
206			HULLS	ROAD	LEPPINGTON
207			HULLS	ROAD	LEPPINGTON
208			LEGHORN	STREET	LEPPINGTON
209			LEGHORN	STREET	LEPPINGTON
210			LEGHORN	STREET	LEPPINGTON
211			LEGHORN	STREET	LEPPINGTON
212			LEGHORN	STREET	LEPPINGTON
213			LEGHORN	STREET	LEPPINGTON
214			LEGHORN	STREET	LEPPINGTON
215			LEGHORN	STREET	LEPPINGTON
216			LEGHORN	STREET	LEPPINGTON
217			LEGHORN	STREET	LEPPINGTON
218			LEGHORN	STREET	LEPPINGTON

Surveyor's Reference 3721

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Subdivision Certificate Number

Date of Endorsement

PURSUANT TO SECTION 88B OF THE CONVEYANCING ACT 1919, IT IS INTENDED TO CREATE:

1. Right of access 5 Wide (A)
2. Easement for drainage of water 4 Wide (B)
3. Easement for drainage of water 1.5 Wide (C)
4. EASEMENT FOR SUPPORT & MAINTENANCE 0.9 Wide (D)
5. EASEMENT FOR PADMOUNT SUBSTATION 2.75 Wide (E)
6. Restriction(s) on the use of Land (F)
7. Restriction(s) on the use of Land (G)
8. Easement for drainage of water 2.5 Wide (H)
9. Easement for drainage of water 3 Wide (J)
10. Easement for drainage of water 4.5 Wide and Variable Width (K)
11. Easement for drainage of water 4.5 Wide (L)
12. Right of access Variable Width (N)
13. Restriction(s) on the use of Land
14. Restriction(s) on the use of Land
15. Restriction(s) on the use of Land
16. Restriction(s) on the use of Land
17. Restriction(s) on the use of Land
18. Restriction(s) on the use of Land
19. Restriction(s) on the use of Land
20. Restriction(s) on the use of Land
21. Restriction(s) on the use of Land
22. Restriction(s) on the use of Land
23. Restriction(s) on the use of Land

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Subdivision Certificate Number

Date of Endorsement

Council by its authorised delegate pursuant to

Signature of delegate

Name of delegate

I certify that I am an eligible witness and that the delegate signed in my presence.

Signature of Witness

Name of Witness

Address of Witness

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Subdivision Certificate Number

Date of Endorsement

Executed for and on behalf of

Under Power of Attorney dated

and registered in New South Wales Book

No

Signature of Attorney:

Name of Attorney:

(By executing this instrument the Attorney states that the Attorney has received no notice of the revocation of the Power of Attorney)

Signature of Witness:

Name of Witness:

Address of Witness:

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Subdivision Certificate Number

Date of Endorsement

Certificate of Currency

I, Philip Youdale of YSCO GEOMATICS OF SUITE 4 114 HAMPDEN ROAD, ARTARMON, a surveyor registered under Surveying and Spatial Information Act 2002, certify that, from the date of the completion of the survey shown on the survey certificate:

- (a) there are no changes to the boundaries of the land to which the survey relates (the subject land), and the definition of those boundaries in the plan of survey remains consistent with surrounding plans, or if not, the plan of survey has been updated;
- (b) 2 or more of the permanent survey marks used in the survey remain in place, or if not, the plan of survey has been updated;
- (c) all reference marks placed in respect of the survey remain in place, or if not, the reference marks have been replaced and the plan of survey has been updated; and
- (d) there has been no change to the occupations and other improvements relevant to the boundaries of the subject land since the completion of the survey, or if not, the plan of survey has been updated.

Signature

Date

Surveyor Identification No.

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Subdivision Certificate Number

Date of Endorsement

DRAFT

Instrument setting out terms of Easements or Profits à Prendre intended to be created or released and of Restrictions on the Use of Land or Positive Covenants intended to be created pursuant to Section 88B Conveyancing Act 1919.

Plan: **DP1292147**

PLAN OF SUBDIVISION OF LOT 1002 IN DP1308890

Full Name and Address of the Owner(s) of the land

HULLS ROAD 52 PTY LTD
Suite 502, Level 5, 95 Pitt Street, Sydney NSW 2000

Covered by Subdivision Certificate No.
dated

Part I (Creation)

Number of item shown in the intention panel on the plan	Identity of the easement, profit prendre, restriction or positive covenant to be created and referred to in the plan	Burdened lot(s) or parcel(s)	Benefited lot(s), road(s), bodies or Prescribed Authorities:
1	Right of access 5 Wide (A)	204-206 204-205 204	207 206-207 205-207
2	Easement for drainage of water 4 Wide (B)	204-207 151	Camden Council Camden Council
3	Easement for drainage of water 1.5 Wide (C)	182-184 182-183 182 132 101, 104-108 101, 104-107 101, 104-106 101, 104-105 101, 104 101 111-114 112-114 113-114 114 208-209 208 119-120 120	185 184-185 183-185 131 109 108-109 107-109 106-109 105-109 104-109 110 110-111 110-112 110-113 210 209-210 118 118-119

[Empty box for Attesting Witness signature]

Attesting Witness

Plan: **DP1292147**

Part 1 (Creation)

Number of item shown in the intention panel on the plan	Identity of the easement, profit prendre, restriction or positive covenant to be created and referred to in the plan	Burdened lot(s) or parcel(s)	Benefited lot(s), road(s), bodies or Prescribed Authorities:
4	EASEMENT FOR ACCESS, MAINTENANCE & OVERHANG 0.9 Wide (D)	204 205 148 147 146 145 203 202 201 200 197 196 186 187 188 189 190 191 169 172 142 143 221	203 204 149 148 147 146 202 201 200 199 198 197 187 188 189 190 191 192 170 171 143 221 144
5	EASEMENT FOR PADMOUNT SUBSTATION 2.75 Wide (E)	133, 168	Epsilon Distribution Ministerial Holding Corporation
6	Restriction(s) on the use of Land (F)	Part 131-133, 168, 181	Epsilon Distribution Ministerial Holding Corporation

Attesting Witness

Plan: **DP1292147**

Part 1 (Creation)

Number of item shown in the intention panel on the plan	Identity of the easement, profit prendre, restriction or positive covenant to be created and referred to in the plan	Burdened lot(s) or parcel(s)	Benefited lot(s), road(s), bodies or Prescribed Authorities:
7	Restriction(s) on the use of Land (G)	Part 131-133, 168, 181	Epsilon Distribution Ministerial Holding Corporation
8	Easement for drainage of water 2.5 Wide (H)	115-116 116	110-114 110-115
9	Easement for drainage of water 3 Wide (J)	117	110-116, 118-120
10	Easement for drainage of water 4.5 Wide and Variable Width (K)	100	Camden Council
11	Easement for drainage of water 4.5 Wide (L)	100	Camden Council
12	Right of access Variable Width (M)	100, 220	Camden Council
13	Restriction(s) on the use of Land	101-221	Every other lot
14	Restriction(s) on the use of Land	103, 137, 220	Camden Council
15	Restriction(s) on the use of Land	101-172, 174, 177-181, 183-186, 221	Camden Council
16	Restriction(s) on the use of Land	101-221	Camden Council
17	Restriction(s) on the use of Land	101-221	Camden Council
18	Restriction(s) on the use of Land	101-221	Camden Council
19	Restriction(s) on the use of Land	204-207	Camden Council
20	Restriction(s) on the use of Land	101, 104-117, 121, 150-167	Camden Council
21	Restriction(s) on the use of Land	182, 207	Camden Council
22	Restriction(s) on the use of Land	141	Camden Council
23	Restriction(s) on the use of Land	182	Camden Council

Attesting Witness

Part 2 (Terms)**Terms of easement, profit à prendre, restriction or positive covenant numbered 1 in the plan**

As per Schedule 8 Conveyancing Act, 1919 as amended.

Party whose consent is required to release, vary or modify this item: Camden Council. The cost and expense of any such release, variation or modification shall be borne by the person or corporation requesting same in all respects.

Terms of easement, profit à prendre, restriction or positive covenant numbered 2 in the plan

As per Schedule 4A Conveyancing Act, 1919 as amended. In addition, the registered proprietor of any lot burdened shall not alter the surface levels of the site of the easement within the burdened lot.

Terms of easement, profit à prendre, restriction or positive covenant numbered 3 in the plan

As per Schedule 8 Conveyancing Act, 1919 as amended. In addition, the registered proprietor of any lot burdened shall not alter the surface levels of the site of the easement within the burdened lot.

Party whose consent is required to release, vary or modify this item: Camden Council. The cost and expense of any such release, variation or modification shall be borne by the person or corporation requesting same in all respects.

Terms of easement, profit à prendre, restriction or positive covenant numbered 4 in the plan

1. The owner of the lot benefited and persons authorised by them may:

(a) With prior reasonable notice given to the owner or occupier of a lot burdened, use the easement site for the purpose of carrying out necessary work (including construction, maintenance and repair) on:

- (i) The lot benefited;
- (ii) Any structure constructed or to be constructed by the owner of the lot benefited, which cannot otherwise reasonably be carried out;

(b) Do anything reasonably necessary for that purpose including:

- (i) Entering into the lot burdened; and
- (ii) Taking anything onto the lot burdened; and
- (iii) Carrying out the necessary works.

2. In exercising the rights under clause 1., the owner of the lot benefited must:

- (a) Ensure that all work on the lot benefited is done properly and carried out as quickly as possible; and
- (b) Cause as little inconvenience to the owner and any occupier of the lot burdened; and

Plan: **DP1292147****Part 2 (Terms)**

(c) Cause as little damage as practicable to the lot burdened and any improvements on it; and

(d) Restore the lot burdened as nearly as is practicable to its former condition; and

(e) Make good any collateral damage.

3. The owner of the lot benefited indemnifies the owner of the lot burdened against any damage, injury, costs, expenses, liability, claim, suits or other actions arising from the exercise of the rights under this easement.

4. The owner of the lot burdened must not place any obstructions within the easement site or erect any building or other structure of any kind on or over the easement site except for any dwelling or garage or wall and/or slab, eave and/or gutter, meter boxes and/or roof structure attached to any dwelling or garage that has been granted development approval by Camden Council, and

5. The owner of the lot burdened and the owner of the lot benefited acknowledge that it is not the responsibility of Camden Council to determine any dispute in relation to the Easement for Access, Maintenance & Overhang and any dispute is a civil matter to be resolved with the relevant parties.

Party whose consent is required to release, vary or modify this item: CAMDEN COUNCIL The cost and expense of any such release, variation or modification shall be borne by the person or corporation requesting same in all respects.

Terms of easement, profit à prendre, restriction or positive covenant numbered 5 in the plan

The terms set out in Section 1 of Memorandum AR578978 are incorporated into this document.

Party whose consent is required to release, vary or modify this item: Epsilon Distribution Ministerial Holding Corporation (ABN 59 253 130 878)

Terms of easement, profit à prendre, restriction or positive covenant numbered 6 in the plan

The terms set out in Section 8 of Memorandum AR578978 are incorporated into this document.

Party whose consent is required to release, vary or modify this item: Epsilon Distribution Ministerial Holding Corporation (ABN 59 253 130 878)

Terms of easement, profit à prendre, restriction or positive covenant numbered 7 in the plan

The terms set out in Section 9 of Memorandum AR578978 are incorporated into this document.

Part 2 (Terms)**Party whose consent is required to release, vary or modify this item: Epsilon Distribution Ministerial Holding Corporation (ABN 59 253 130 878)****Terms of easement, profit à prendre, restriction or positive covenant numbered 8 in the plan**

As per Schedule 8 Conveyancing Act, 1919 as amended. In addition, the registered proprietor of any lot burdened shall not alter the surface levels of the site of the easement within the burdened lot.

Party whose consent is required to release, vary or modify this item: Camden Council. The cost and expense of any such release, variation or modification shall be borne by the person or corporation requesting same in all respects.

Terms of easement, profit à prendre, restriction or positive covenant numbered 9 in the plan

As per Schedule 8 Conveyancing Act, 1919 as amended. In addition, the registered proprietor of any lot burdened shall not alter the surface levels of the site of the easement within the burdened lot.

Party whose consent is required to release, vary or modify this item: Camden Council. The cost and expense of any such release, variation or modification shall be borne by the person or corporation requesting same in all respects.

Terms of easement, profit à prendre, restriction or positive covenant numbered 12 in the plan

As per Schedule 4A Conveyancing Act, 1919 as amended.

Terms of easement, profit à prendre, restriction or positive covenant numbered 13 in the plan

1. No garage outbuildings or other structures shall be erected or be permitted to remain on any lot burdened unless erected concurrently with or subsequently to the erection of a residential building.
2. No existing dwelling house or building or part thereof shall be partly or wholly moved to or placed and re-erected upon or re-constructed on or be permitted to remain on any lot burdened.
3. No building or any part thereof shall be erected or be permitted to remain on any lot burdened unless constructed entirely of new materials.
4. No building or buildings shall be erected or be permitted to remain erected on any lot burdened other than with external walls of brick and/or brick veneer and/or stone and/or concrete and/or glass and/or timber and/or hardiplank or similar product. No building or buildings shall be erected or permitted to remain erected on any lot burdened having a roof other than clay tiles, cement tiles, slate or non reflective surface corrugated iron. All roofing materials shall be black or shades of grey or neutral colours only.
5. No vehicle of any make or kind having a tare weight exceeding 5 tonnes shall be garaged, housed, parked, serviced or mechanical repairs carried out thereon or allowed to remain on any lot burdened except where such vehicles are being used for the delivery of goods or purposes of construction of any improvement on any lot burdened.
6. No fence shall be erected or permitted to remain on any lot hereby burdened unless the fencing is

Part 2 (Terms)

of a timber lapped and/or lapped and capped construction or colorbond construction provided such colourbond fence is of either surf mist, shale grey, dune, basalt or woodland grey colour only. No colourbond fence shall be erected on any street frontage or within the front building setback line.

7. No fence shall be erected on each lot burdened to divide it from any adjoining land owned by the abovenamed proprietors without the consent of the abovenamed proprietors but such consent shall not be withheld if such fence is erected without expense to the abovenamed proprietors provided that this restriction shall remain in force only during such time as the abovenamed proprietors are the Registered Proprietors of any land and shall bind the adjoining owner of such land successive owners and assigns of each lot burdened.
8. No advertising hoarding signs or matter shall be displayed or erected on any lot burdened (other than a sign advertising that the said lot is for sale) without the prior written consent of Hulls Road 52 Pty. Ltd. (ACN 649 334 958) or its successors in title or assigns.
9. No driveway shall be constructed on any lot burdened unless its surface is comprised of faux or stamped or coloured concrete or pavers or as approved by Hulls Road 52 Pty Ltd. (ACN 649 334 958) or its assigns AND unless driveway construction is undertaken prior to practical completion of the main building.
10. No dwelling shall be erected or permitted to remain on any lot burdened unless the area between the building line and the front boundary of the lot burdened is turfed.

Party whose consent is required to release, vary or modify this item: Hulls Road 52 Pty Ltd. (ACN 649 334 958) of Suite 502, 95 Pitt Street, Sydney NSW 2000 for such period as it is the registered proprietor of any lot in this plan of subdivision or any lot in a plan of re-subdivision of any part of this plan, and thereafter the person or persons shall be the registered proprietors of the lots having the benefit. All costs associated with any such release, variation or modification shall be borne by the applicant.

Terms of easement, profit à prendre, restriction or positive covenant numbered 14 in the plan

No vehicular access to the burdened lot is permitted other than via the area designated "X – Y" on the plan.

Terms of easement, profit à prendre, restriction or positive covenant numbered 15 in the plan

No building is to be constructed on the lot hereby burdened which has been filled above its natural or previously excavated level unless the footings and foundations of the building have been designed by a qualified civil/structural engineer based on geotechnical advice in the form of a report prepared by a laboratory registered with the National Association of Testing authorities.

Terms of easement, profit à prendre, restriction or positive covenant numbered 16 in the plan

No habitable building, apart from a single dwelling house, shall be erected or permitted to remain on the lot burdened without the written approval of Camden Council. No secondary dwellings, dual occupancies, or semi-detached dwellings may be developed on the lot burdened without the prior

Plan: **DP1292147****Part 2 (Terms)**

written consent of Council.

Terms of easement, profit à prendre, restriction or positive covenant numbered 17 in the plan

No dwelling shall be constructed on the land hereby burdened unless constructed in accordance with section 5 (pages 16 to 27) of the approved acoustic report "Traffic Noise Assessment Report - Residential Subdivision, 40-52 Hulls Road and 15 George Road, Leppington NSW – Report 7640-1.1R Rev. B" prepared by Day Design Pty. Limited dated 11 October 2024.

Party whose consent is required to release, vary or modify this item: Camden Council

Terms of easement, profit à prendre, restriction or positive covenant numbered 18 in the plan

1. In this restriction, "Salinity Management Plan" means the Salinity Management Plan - Proposed Residential Subdivision Development - Lot 6 to 7 DP 858010 and Lot 10 to 11 DP1164955 - No. 40-52 Hulls Road and No 15 George Road, Leppington NSW Ref: JC22432A-r5" prepared by GeoEnviro Consultancy Pty. Limited dated 01 November 2022.
2. No construction work including earthworks, imported fill, landscaping, buildings, and associated infrastructure is permitted on the land hereby burdened unless carried out or constructed in accordance with the Salinity Management Plan.
3. No building shall be constructed on the land hereby burdened unless the footings/foundations have been designed by a qualified Civil/Structural Engineer.

Terms of easement, profit à prendre, restriction or positive covenant numbered 19 in the plan

No building shall be erected on the lot hereby burdened unless in accordance with controls set out in the Building Envelope Plan "Building Envelope Plans - 40-52 Hulls Road and 15 Dwyer Road, Leppington - DWG No. DA-110-01 Rev 01" prepared by Glyde Bautovich and dated 17 November 2023 .

Terms of easement, profit à prendre, restriction or positive covenant numbered 20 in the plan

Fencing along the common boundary of Lot 100 in the lot burdened shall be of lapped and capped timber construction, 1.8 metres in height with palings to face Lot 100 and rails facing the burdened lot.

Terms of easement, profit à prendre, restriction or positive covenant numbered 21 in the plan

Fencing along the common boundary of Lot 1001 in DP 1308890 and the lot burdened shall be of lapped and capped timber construction, 1.8 metres in height with palings to face Lot 1001 and rails facing the burdened lot.

Terms of easement, profit à prendre, restriction or positive covenant numbered 22 in the plan

Any vehicular access to be provided to the burdened lot is to be adjacent to the common boundary with

Plan: **DP1292147****Part 2 (Terms)**

Lot 140 only.

Terms of easement, profit à prendre, restriction or positive covenant numbered 23 in the plan

No further development on the lot burdened is to take place until such time as On-site Detention, Bioretention and Water Quality facilities constructed on the lot have been suitably decommissioned and the land on the lot burdened has been suitably filled and compacted in accordance with Camden Council Engineering specifications.

DRAFT

Plan: **DP1292147**

Signature Sheet

Executed for and on behalf of

Under Power of Attorney dated

and registered in New South Wales Book

No

Signature of Attorney:

Name of Attorney:

(By executing this instrument the Attorney states that the Attorney has received no notice of the revocation of the Power of Attorney)

Signature of Witness:

Name of Witness:

Address of Witness:

Plan: **DP1292147**

Signature Sheet

DRAFT

Plan: **DP1292147**

Signature Sheet

I certify that the attorney signed this instrument in my presence.

Signed by the attorney named below who signed this instrument pursuant to the power of attorney specified for

on behalf of

pursuant to section 36 of the *Electricity Network Assets (Authorised Transactions) Act 2015 (NSW)*

Signature of witness:

Name of witness:

Address of witness:

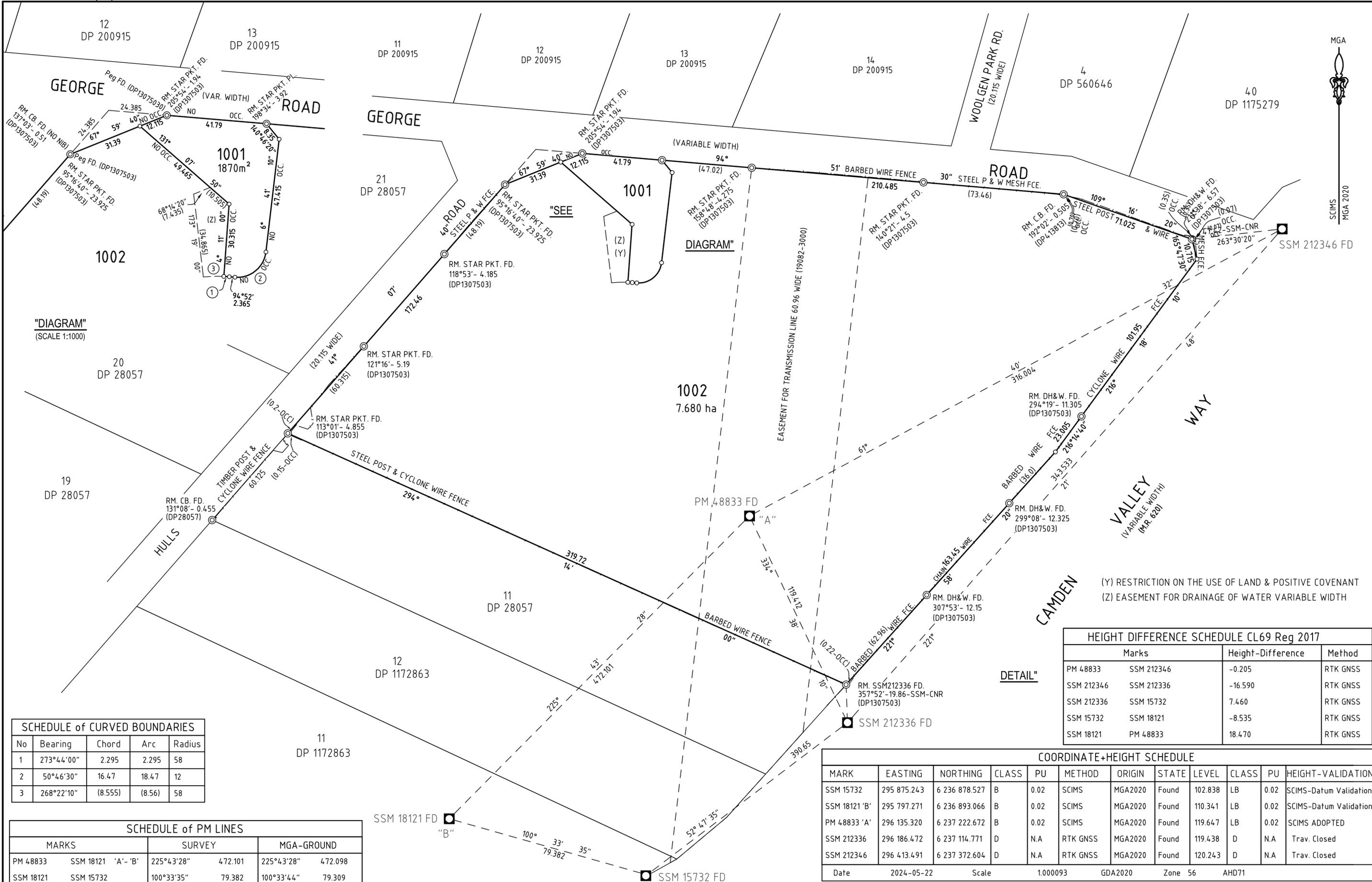
Signature of attorney:

Name and position of attorney:

Power of attorney:

Book No

Endeavour Energy reference:



"DIAGRAM"
(SCALE 1:1000)

"SEE
DIAGRAM"

"DETAIL"

SCHEDULE of CURVED BOUNDARIES

No	Bearing	Chord	Arc	Radius
1	273°44'00"	2.295	2.295	58
2	50°46'30"	16.47	18.47	12
3	268°22'10"	(8.555)	(8.56)	58

SCHEDULE of PM LINES

MARKS	SURVEY	MGA-GROUND
PM 48833	SSM 18121 'A' - 'B'	225°43'28" 472.101 225°43'28" 472.098
SSM 18121	SSM 15732	100°33'35" 79.382 100°33'44" 79.309
SSM 15732	SSM 212336	52°47'35" 390.650 52°47'57" 390.699
SSM 212336	PM 48833	334°38'10" 119.412 334°38'10" 119.401
PM 48833	SSM 212346	61°40'32" 316.004 61°40'32" 315.975
SSM 212346	SSM 212336	221°21'48" 343.533 221°21'49" 343.502

HEIGHT DIFFERENCE SCHEDULE CL69 Reg 2017

Marks	Height-Difference	Method
PM 48833 SSM 212346	-0.205	RTK GNSS
SSM 212346 SSM 212336	-16.590	RTK GNSS
SSM 212336 SSM 15732	7.460	RTK GNSS
SSM 15732 SSM 18121	-8.535	RTK GNSS
SSM 18121 PM 48833	18.470	RTK GNSS

COORDINATE+HEIGHT SCHEDULE

MARK	EASTING	NORTHING	CLASS	PU	METHOD	ORIGIN	STATE	LEVEL	CLASS	PU	HEIGHT-VALIDATION
SSM 15732	295 875.243	6 236 878.527	B	0.02	SCIMS	MGA2020	Found	102.838	LB	0.02	SCIMS-Datum Validation
SSM 18121 'B'	295 797.271	6 236 893.066	B	0.02	SCIMS	MGA2020	Found	110.341	LB	0.02	SCIMS-Datum Validation
PM 48833 'A'	296 135.320	6 237 222.672	B	0.02	SCIMS	MGA2020	Found	119.647	LB	0.02	SCIMS ADOPTED
SSM 212336	296 186.472	6 237 114.771	D	N.A	RTK GNSS	MGA2020	Found	119.438	D	N.A	Trav. Closed
SSM 212346	296 413.491	6 237 372.604	D	N.A	RTK GNSS	MGA2020	Found	120.243	D	N.A	Trav. Closed

Date: 2024-05-22 Scale: 1:000093 GDA2020 Zone 56 AHD71

<p>SURVEYOR: PHILIP D. YOUDALE OF YOUDALE STRUDWICK & CO. PTY LTD of Suite 4, 114 Hampden Road, Artarmon Date of Survey: 14 AUGUST, 2024 Reference: 3721-ST1-DP</p>	<p>PLAN OF SUBDIVISION OF LOTS 1001, 1002, 1003 & 1004 IN DP 1307503</p>	<p>LGA: CAMDEN Locality: LEPPINGTON Reduction Ratio: 1:1250 Lengths are in metres</p>	<p>Registered</p>	<p>DP</p>
---	--	---	-------------------	-----------

Plan Form 6_Digital (2021)	Deposited Plan Administration Sheet Sheet 1 of 4
OFFICE USE ONLY	DP1308890
Registered	LGA CAMDEN
Title System <input style="width: 300px; height: 20px;" type="text"/>	LOCALITY LEPPINGTON
PLAN OF SUBDIVISION OF LOTS 1001 - 1004 IN DP1307503	PARISH COOK
	COUNTY CUMBERLAND
Survey Certificate <input style="float: right; width: 100px; height: 20px;" type="text" value="Survey"/>	Crown Lands NSW/Western Lands Office Approval
I, Philip Youdale of YSCO GEOMATICS OF SUITE 4, 114 HAMPDEN ROAD, ARTARMON, a surveyor registered under Surveying and Spatial Information Act 2002, certify that:	I, <input style="width: 150px; height: 20px;" type="text"/> (Authorised Officer) in approving this plan certify that all necessary approvals in regard to the allocation of the land shown herein have been given.
The land shown in the plan was surveyed in accordance with the Surveying and Spatial Information Regulation 2017, is accurate and the survey was completed on: 14/08/2024	Signature <input style="width: 250px; height: 40px;" type="text"/> Date <input style="width: 100px; height: 25px;" type="text"/>
Urban/Rural <input style="width: 100px; height: 25px;" type="text" value="URBAN"/>	File Number <input style="width: 150px; height: 25px;" type="text"/> Office <input style="width: 150px; height: 25px;" type="text"/>
Datum Line <input style="width: 200px; height: 25px;" type="text" value="'A' - 'B'"/>	Subdivision Certificate (Check One)
Signature <input style="width: 350px; height: 40px;" type="text"/> Electronically signed via NSW LRS Connect by Philip Youdale, dated 27/08/2024 12:59 PM.	<input type="checkbox"/> Authorised Person <input type="checkbox"/> General Manager <input type="checkbox"/> Registered Certifier
Surveyor Identification No. <input style="width: 150px; height: 25px;" type="text" value="SU002502"/> Surveyor registered under the Surveying and Spatial Information Act 2002.	certify that the provisions of 6.15 of the <i>Environmental Planning and Assessment Act 1979</i> have been satisfied in relation to the proposed subdivision, new road or reserve set out herein.
Plans Used in the preparation of this survey <input style="width: 350px; height: 100px;" type="text" value="DP1307503"/>	Signature <input style="width: 350px; height: 40px;" type="text"/>
	Consent Authority <input style="width: 150px; height: 25px;" type="text"/>
	Date of Endorsement <input style="width: 150px; height: 25px;" type="text"/> Subdivision Certificate Number <input style="width: 150px; height: 25px;" type="text"/>
	File Number <input style="width: 150px; height: 25px;" type="text"/>
	Statement of intention to dedicate public roads, create public reserves and drainage reserves, acquire/resume land.
	<input style="width: 350px; height: 80px;" type="text" value="IT IS INTENDED TO CREATE LOT 1001 AS A DRAINAGE RESERVE"/>
Surveyor's Reference 3721-ST1-DP	Signatures, Seals and Section 88B Statements should appear on the following sheet(s)

Registered

OFFICE USE ONLY

DP1308890**PLAN OF SUBDIVISION OF LOTS 1001 - 1004 IN DP1307503**

This sheet is for the provision of the following information as required:

- A schedule of lots and addresses
- Statements of intention to create and release affecting interests in accordance with section 88B *Conveyancing Act 1919*
- Signatures and seals- see 195D *Conveyancing Act 1919*
- Any information which cannot fit in the appropriate panel of sheet 1 of the administration sheets.

Subdivision Certificate Number

Date of Endorsement

PURSUANT TO SECTION 88B OF THE CONVEYANCING ACT 1919, IT IS INTENDED TO CREATE:

1. Easement for drainage of water Variable Width (Z)
2. Positive Covenant (Y)
3. Restriction(s) on the use of Land (Y)

OFFICE USE ONLY

Registered

DP1308890**PLAN OF SUBDIVISION OF LOTS 1001 - 1004 IN DP1307503**

This sheet is for the provision of the following information as required:

- A schedule of lots and addresses
- Statements of intention to create and release affecting interests in accordance with section 88B *Conveyancing Act 1919*
- Signatures and seals- see 195D *Conveyancing Act 1919*
- Any information which cannot fit in the appropriate panel of sheet 1 of the administration sheets.

Subdivision Certificate Number

Date of Endorsement

Executed for and on behalf of

Under Power of Attorney dated

and registered in New South Wales Book

No

Signature of Attorney:

Name of Attorney:

(By executing this instrument the Attorney states that the Attorney has received no notice of the revocation of the Power of Attorney)

Signature of Witness:

Name of Witness:

Address of Witness:

Registered

OFFICE USE ONLY

DPI308890

PLAN OF SUBDIVISION OF LOTS 1001 - 1004 IN DPI307503

This sheet is for the provision of the following information as required:

- A schedule of lots and addresses
- Statements of intention to create and release affecting interests in accordance with section 88B *Conveyancing Act 1919*
- Signatures and seals- see 195D *Conveyancing Act 1919*
- Any information which cannot fit in the appropriate panel of sheet 1 of the administration sheets.

Subdivision Certificate Number

Date of Endorsement

Instrument setting out terms of Easements or Profits à Prendre intended to be created or released and of Restrictions on the Use of Land or Positive Covenants intended to be created pursuant to Section 88B Conveyancing Act 1919.

Plan: **DP1308890**

PLAN OF SUBDIVISION OF LOTS 1001 - 1004 IN DP1307503

Full Name and Address of the Owner(s) of the land

HULLS ROAD 52 PTY LTD
Suite 502. Level 5, 95 Pitt Street, Sydney NSW 2000

Covered by Subdivision Certificate No.
dated

Part 1 (Creation)

Number of item shown in the intention panel on the plan	Identity of the easement, profit prendre, restriction or positive covenant to be created and referred to in the plan	Burdened lot(s) or parcel(s)	Benefited lot(s), road(s), bodies or Prescribed Authorities:
1	Easement for drainage of water Variable Width (Z)	1002	CAMDEN COUNCIL
2	Positive Covenant (Y)	1002	CAMDEN COUNCIL
3	Restriction(s) on the use of Land (Y)	1002	CAMDEN COUNCIL

Attesting Witness

(Sheet 1 of 5 Sheets)

Part 2 (Terms)**Terms of easement, profit à prendre, restriction or positive covenant numbered 2 in the plan**

1. The proprietor of the land hereby burdened (herein called "the proprietor") shall covenant with Camden Council (herein called "the Council") at all times in respect of the part of the land designated (Y) in the abovementioned plan containing water management facilities (herein called "the basin") to:

i) construct, clean, maintain and repair all pits, tanks, pipelines, orifice plates, trench barriers, walls, earth banks and other structures,

ii) maintain the existing surface levels,

iii) regularly mow and remove grass clippings and debris as necessary to ensure the efficient operation of the basin

2. The Council shall have the right to enter upon the burdened lot with all necessary materials and equipment at all reasonable time and on reasonable notice but at any time and without notice in the case of an emergency:

i) to view the state of repair of the basin,

ii) to execute any work required to remedy a breach of the terms of this covenant if the proprietor has not within 14 days of the date of receipt by the proprietor of written notice from the Council requiring remedy of a breach of the terms of this covenant taken steps to remedy the breach and without prejudice to the Council's other remedies the Council may recover as a liquidated debt the cost of such remedial work from the proprietor forthwith upon demand.

Terms of easement, profit à prendre, restriction or positive covenant numbered 3 in the plan

1. The proprietor of the land hereby burdened (herein called "the proprietor") covenants with Camden Council (herein called "the Council" that the part of the land designated (Y) in the abovementioned plan, containing water management facilities herein called "the basin"), must not be altered, or removed in part, or structures erected thereon without the prior consent of Council.

2. The Council shall have the right to enter upon the burdened lot with all necessary materials and equipment at all reasonable times and on reasonable notice but at any given time and without notice in the case of an emergency

i) to view the state of repair of the basin,

ii) to execute any work required to remedy a breach of the terms of this covenant if the proprietor has not within 14 days of the date of receipt by the proprietor of written notice from the Council

Plan: **DP1308890****Part 2 (Terms)**

requiring remedy of a breach of the terms of this covenant taken steps to remedy the breach, and without prejudice to the Council's other remedies the Council may recover as a liquidated debt the cost of such remedial work from the proprietor forthwith upon demand.

Plan: **DP1308890**

Signature Sheet

Executed for and on behalf of

Under Power of Attorney dated

and registered in New South Wales Book

No

Signature of Attorney:

Name of Attorney:

(By executing this instrument the Attorney states that the Attorney has received no notice of the revocation of the Power of Attorney)

Signature of Witness:

Name of Witness:

Address of Witness:

Plan: **DP1308890**

Signature Sheet



EXISTING MH WITH DN150
ENDCAPPED INLET CONSTRUCTED
UNDER CN205221WW FOR FUTURE
CONNECTION OF PROPOSED MAIN.

END WITH T.M.S.

END WITH T.M.S.

END WITH T.M.S.

END WITH T.M.S.

MICROTUNNELING
LODGE MENT PIT
5x2.5m

HORIZONTAL CLEARANCE BETWEEN
PIT EXTERNAL WALL FACE TO EDGE
OF SEWER IS 550mm

FOR CONTINUATION

END WITH T.M.S.

MICROTUNNELING
LODGE MENT PIT
5x2.5m

D	SWC COMMENTS INCORPORATED	WL	20/01/25
C	SWC REVIEW SUBMISSION	WL	11/10/24
B	SALES ISSUE	CL	17/01/24
A	FOR COORDINATION	CL	18/04/23
No.	AMENDMENT DESCRIPTION	BY	DATE

WORK AS CONSTRUCTED CERTIFICATION		SYDNEY WATER CORPORATION	
DEVELOPER	W.S.C.	Sydney WATER	
CONSTRUCTOR	COMPLETED		
W.A.C. PREPARED		Case No.205172WW	SHT 2 OF 8 SHTS.
DESIGNER		SYDNEY WATER CORPORATION	
I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS		FOR DETAILS OF SERVICES SEE SHEET 1	

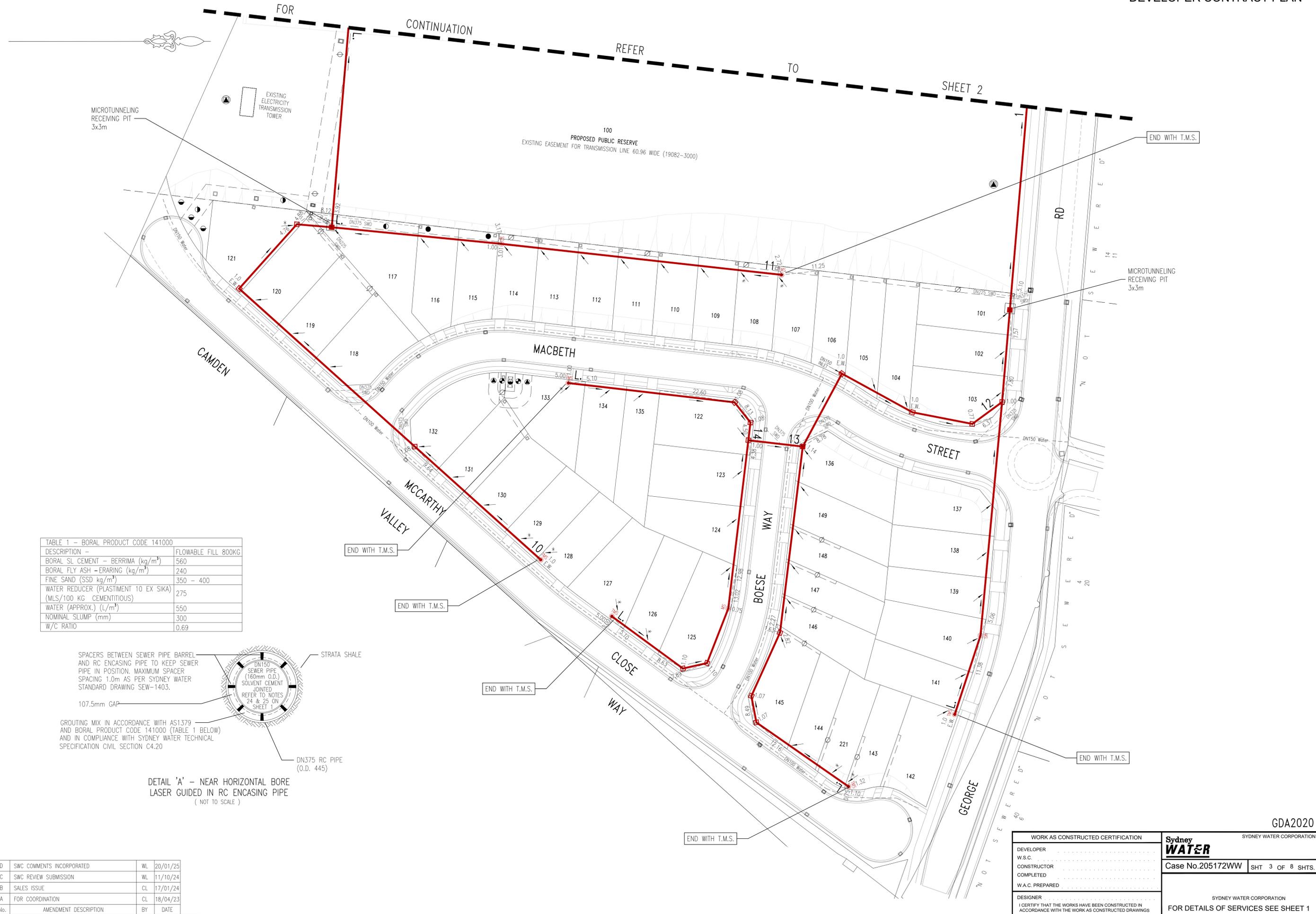
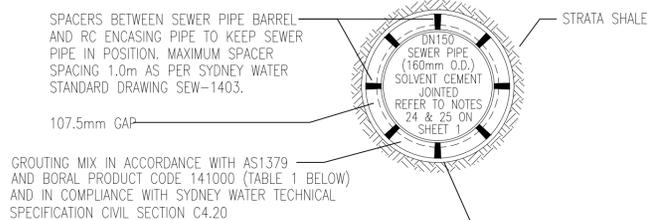


TABLE 1 - BORAL PRODUCT CODE 141000	
DESCRIPTION -	FLOWABLE FILL 800KG
BORAL SL CEMENT - BERRIMA (kg/m ³)	560
BORAL FLY ASH - ERARING (kg/m ³)	240
FINE SAND (SSD kg/m ³)	350 - 400
WATER REDUCER (PLASTIMENT 10 EX SIKA) (MLS/100 KG CEMENTITIOUS)	275
WATER (APPROX.) (L/m ³)	550
NOMINAL SLUMP (mm)	300
W/C RATIO	0.69



DETAIL 'A' - NEAR HORIZONTAL BORE LASER GUIDED IN RC ENCASING PIPE (NOT TO SCALE)

No.	AMENDMENT DESCRIPTION	BY	DATE
D	SWC COMMENTS INCORPORATED	WL	20/01/25
C	SWC REVIEW SUBMISSION	WL	11/10/24
B	SALES ISSUE	CL	17/01/24
A	FOR COORDINATION	CL	18/04/23

WORK AS CONSTRUCTED CERTIFICATION		SYDNEY WATER CORPORATION Case No.205172WW SHT 3 OF 8 SHTS.	
DEVELOPER	W.S.C.	DESIGNER	SYDNEY WATER CORPORATION
CONSTRUCTOR	COMPLETED	I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS	
W.A.C. PREPARED		FOR DETAILS OF SERVICES SEE SHEET 1	



DAY DESIGN PTY LTD
CONSULTING ACOUSTICAL ENGINEERS

SUITE 17, 808 FOREST ROAD, PEAKHURST 2210 ABN 73 107 291 494
P. 02 9046 3800 ACOUSTICS@DAYDESIGN.COM.AU WWW.DAYDESIGN.COM.AU

Traffic Noise Assessment Report

Residential Subdivision
40–52 Hulls Road and 15 George Road, Leppington, NSW

REPORT NUMBER
7640-1.1R Rev A

DATE ISSUED
29 February 2024

Prepared For:

Hulls Road 52 Pty Ltd (Crownland Developments)
C/- Mott McDonald
PO Box Q1678
QVB Sydney NSW 1230

Attention: Mr Reece McNeill



Revision History

Status	Date	Prepared	Checked	Comment
Final	21/10/2022	William Wang	Stephen Gauld	
Rev A	29/02/2024	William Wang	Stephen Gauld	Updated Layout

Document 7640-1.1R Rev A, 26 pages plus attachments

Disclaimer

The work presented in this document was carried out in accordance with the Day Design Pty Ltd Quality Management System. Day Design is certified to ISO9001.

Day Design Pty Ltd is a member company of the Association of Australasian Acoustical Consultants, and the work herein reported has been performed in accordance with the terms of membership.

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Recommendations made in this report are intended to resolve acoustical problems only. No claims of expertise in other areas are made and no liability is accepted in respect of design or construction for issues falling outside the specialist field of acoustical engineering including but not limited to structural, fire, thermal, architectural buildability, fit for purpose, waterproofing or other aspects of building construction. Supplementary professional advice should be sought in respect of these issues.

The information in this document should not be reproduced, presented or reviewed except in full. Prior to passing onto a third party, the Client is to fully inform the third party of the specific brief and limitations associated with the commission.



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1.0 CONSULTING BRIEF

Day Design Pty Ltd was engaged by Hulls Road 52 Pty Ltd (Crownland Developments) to assess the traffic noise impact from Camden Valley Way on the proposed residential properties within the residential subdivision at 40-52 Hulls Road and 15 George Road, Leppington, NSW.

This commission involves the following:

Scope of Work:

- Calculate road traffic noise levels based on the predicted future traffic volume
- Carry out noise propagation and intrusion analysis using the elevation contours and architectural drawings provided by the client
- Design sound insulation of the dwellings to meet the internal noise requirements of the State Environmental Planning Policy (Transport and Infrastructure) 2021
- Provide recommendations for noise intrusion control
- Prepare a Road Traffic Noise Intrusion Report.



2.0 SITE AND PROJECT DESCRIPTION

Hulls Road 52 Pty Ltd (Crownland Developments) is proposing to subdivide 40-52 Hulls Road and 15 George Road, Leppington, NSW (the site) into standard housing lots.

The Local Government Authority is Camden Council (Council). The site is located on land zoned R2 – Low Density Residential, R3 – Medium Density Residential and SP2 – Infrastructure under State Environmental Planning Policy (Sydney Region Growth Centres) Amendment (Leppington Precinct) 2021.

Camden Valley Way is identified as a principal arterial road (refer Figure 1) in the Leppington Precinct – Transport and Access Strategy report completed by AECOM for NSW Department of Planning and Infrastructure (reference 60272835 dated 10 March 2014).

The proposed allotments near Camden Valley Way may be exposed to high levels of road traffic noise. As such, Camden Council requires a road traffic noise assessment be carried out to assess the potential noise impacts in accordance with their Growth Centre Precincts Development Control Plan (2016).

Noise control recommendations have been provided for residential lots exposed to road traffic noise levels from Camden Valley Way to meet the internal noise levels as required by Camden Council.



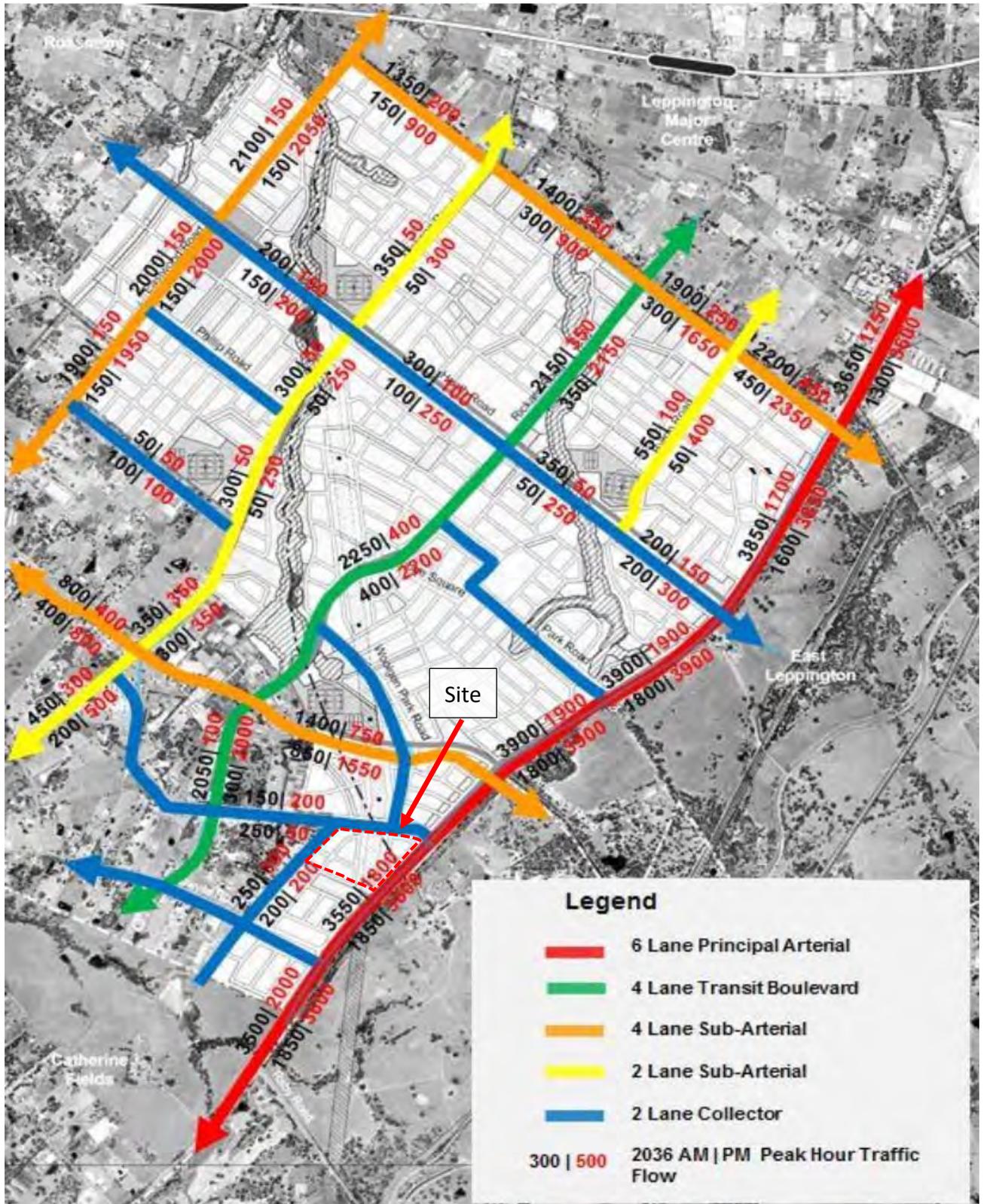


Figure 1 - Leppington Precinct Proposed Road Hierarchy and 2036 Peak Hour Flow (AECOM, 2014)



3.0 TRAFFIC NOISE INTRUSION

3.1 NSW Road Noise Policy

The NSW Environmental Protection Authority published the NSW Road Noise Policy in March 2011. The Policy provides criteria for the assessment of road traffic noise from existing roads, new road projects, road redevelopment projects, and traffic-generating developments.

Table 3 of the NSW Road Noise Policy sets out the assessment criteria for residential properties to be applied to particular types of projects, road category and land use, extracted as Table 1.

Table 1 Road Traffic Noise Assessment Criteria for Residential Land Uses

Road category	Type of project/land use	Assessment criteria – dB(A)	
		Day (7 am – 10 pm)	Night (10 pm – 7 am)
Freeway/ arterial/ sub- arterial roads	1. Existing residences affected by noise from new freeway/arterial/sub-arterial road corridors	L _{Aeq} , (15-hour) 55 (external)	L _{Aeq} , (9-hour) 50 (external)
	2. Existing residences affected by noise from redevelopment of existing freeway/arterial/sub-arterial roads	L _{Aeq} , (15-hour) 60 (external)	L _{Aeq} , (9-hour) 55 (external)
	3. Existing residences affected by additional traffic on existing freeway/arterial/sub-arterial roads generated by land use developments		
Local roads	4. Existing residences affected by noise from new local road corridors	L _{Aeq} , (15-hour) 55 (external)	L _{Aeq} , (9-hour) 50 (external)
	5. Existing residences affected by noise from redevelopment of existing local roads		
	6. Existing residences affected by additional traffic on existing local roads generated by land use developments		

Note: Land use developers must meet internal noise goals in the Infrastructure SEPP (Department of Planning NSW 2007) for sensitive developments near busy roads.



3.2 Camden Growth Centre Precincts Development Control Plan

The following has been extracted from Section 2.3.9 of the Camden Growth Centre Precincts Development Control Plan (2016).

2. Development Applications must be accompanied by an acoustic report where the development is in a location, shown on the Potential noise attenuation measures figure in the relevant Precinct Schedule, such as:

- adjacent to a railway line, arterial road, sub-arterial road, transit boulevard or other road with traffic volumes predicted to exceed (or currently exceeding) 6,000 vehicles per day;*
- potentially impacted upon by a nearby industrial/employment area; or*
- potentially impacting upon sensitive receivers such as residences within the precinct and outside the precinct.*

3. The acoustic report shall demonstrate that the noise criteria in Development Near Rail Corridors and Busy Roads- Interim Guideline (Department of Planning 2008), and Council's Environmental Noise Policy have been considered.

4. Subdivision design on land adjacent to significant noise sources is to consider and implement measures to attenuate noise within dwellings and in external areas that are classified as Principle Private Open Space (refer to clause 4.2.7)

5. Physical noise barriers (ie Noise walls or solid fencing) are not generally supported, and measures to attenuate noise through subdivision layout, such as setbacks, building orientation, and building design and materials selection should be implemented to achieve appropriate internal noise standards.

In Section 4.29 of its Growth Centre Precincts Development Control Plan (2016) the following acoustic requirements for residential development:

Controls

7. Dwellings along sub-arterial or arterial roads, or transit boulevards, or any other noise source, should be designed to minimize the impact of traffic noise, and where possible comply with the criteria in Table 4-7.

9. Noise walls are not permitted.

10. Development affected by rail or traffic noise is to comply with Development Near Rail Corridors and Busy Roads – Interim Guideline (Department of Planning 2008). The design of development is also to consider ways to mitigate noise in Principal Private Open Space areas with reference to Council's Environmental Noise Policy.



11. Architectural treatments are to be designed in accordance with AS3671 - Traffic Noise Intrusion Building Siting and Construction, the indoor sound criteria of AS2107 - Recommended Design Sound Levels and Reverberation Times for Building Interiors.

Table 4-7 is replicated in Table 2.

Table 2 Noise criteria for residential premises impacted by traffic noise

	Sleeping Areas	Living Areas
Naturally ventilated/windows open to 5% of the floor area (Mechanical ventilation or air conditioning systems not operating)	L _{Aeq} 15 hours (day): 40 dBA L _{Aeq} 9 hour (night): 35 dBA	L _{Aeq} 15 hours (day): 45 dBA L _{Aeq} 9 hour (night): 40 dBA
Doors and windows shut (Mechanical ventilation or air conditioning systems are operating)	L _{Aeq} 15 hours (day): 43 dBA L _{Aeq} 9 hour (night): 38 dBA	L _{Aeq} 15 hours (day): 46 dBA L _{Aeq} 9 hour (night): 43 dBA

Notes:

These levels correspond to the combined measured level of external sources and the ventilation system operating normally.

Where a naturally ventilated/windows open condition cannot be achieved, it is necessary to incorporate mechanical ventilation (Clause 4.1.3 Sustainable Building Design includes controls for appropriate ventilation systems) L_{Aeq} 1 hour noise levels shall be determined by taking as the second highest L_{Aeq} 1 hour over the day and night period for each day and arithmetically averaging the results over a week for each period (5 or 7 day week, whichever is highest)

3.3 Camden Council Environmental Noise Policy

Camden Council's Environmental Noise Policy (2018) has adopted the criteria for Principal Private Open Spaces as follows:

- L_{eq,15-hour} external noise level of 57 dBA for principal private open spaces within the residential boundaries of new release growth areas.



3.4 State Environment Planning Policy (Transport and Infrastructure) 2021

Section 2.120 of the SEPP (Transport and Infrastructure) 2021 regarding the impact of road noise or vibration on non-road development states the following:

- (3) *If the development is for the purposes of residential accommodation, the consent authority must not grant consent to the development unless it is satisfied that appropriate measures will be taken to ensure that the following LAeq levels are not exceeded—*
- (a) *in any bedroom in the residential accommodation—35 dB(A) at any time between 10 pm and 7 am,*
 - (b) *anywhere else in the residential accommodation (other than a garage, kitchen, bathroom or hallway)—40 dB(A) at any time.*
- (4) *In this section, **freeway**, **tollway** and **transitway** have the same meanings as they have in the Roads Act 1993.*

3.5 NSW Department of Planning and Environment

The NSW Department of Planning document “*Development Near Rail Corridors and Busy Roads – Interim Guidelines*” (2008) recommends noise criteria as shown in Table 3.

Table 3 Required Indoor Noise Levels – Residential Buildings

Type of Occupancy	Noise Level, dBA	Applicable Time Period
Sleeping areas (bedrooms)	35	Night 10 pm to 7 am
Other habitable rooms (excl garages, kitchens, bathrooms & hallways)	40	At any time

Note: airborne noise is calculated as L_{eq} (9h)(night) and L_{eq} (15hr)(day). Ground borne noise is calculated as L_{max} (slow) for 95% of rail pass-by events

In addition, it also states that:

“if internal noise levels with windows or doors open exceed the criteria by more than 10 dBA, the design of the ventilation for these rooms should be such that occupants can leave windows closed, if they so desire, and also to meet the ventilation requirements of the Building Code of Australia”.



3.6 Australian Standard AS3671:1989

Australian Standard AS3671:1989 “Acoustics - Road Traffic Noise Intrusion - Building Siting and Construction” recommends that an appropriate L_{Aeq} or L_{A10} criterion be used to assess the type of occupancy under consideration. We recommend the use of L_{Aeq} in favour of L_{A10} for residential traffic noise intrusion assessment, because the L_{Aeq} descriptor is applicable to both high and low level traffic noise. AS3671:1989 recommends the use of AS2107:2000 “Acoustics – Recommended design sound levels and reverberation times for building interiors” for determination of appropriate noise levels inside the buildings.

3.7 Australian Standard AS2107:2016

Australian Standard AS2107:2016 *Recommended design sound levels and reverberation times for building interiors* recommends the following internal noise levels for residential premises:

Table 4 AS2107 Recommended Indoor Noise Levels

Type of occupancy/activity	Design sound level ($L_{Aeq,t}$) range
	Satisfactory
Houses and apartments in inner city areas or entertainment districts or near major roads –	
Living areas	35 - 45
Sleeping areas (night time)	35 - 40
Houses and apartments in suburban areas or near minor roads –	
Living areas	30 - 40
Sleeping areas (night time)	30 - 35

3.8 Project Specific Noise Criteria

Based on the above noise policies, the adopted noise criteria is as follows:

- 40 dBA inside habitable spaces during the day;
- 35 dBA inside bedrooms at night;
- 57 dBA for Principal Private Open Spaces within the residential boundaries.



4.0 TRAFFIC NOISE LEVELS

4.1 Road Traffic Volumes

George and Hulls Road are identified as being collector roads while Camden Valley Way is identified as a principal arterial road (refer Figure 1) in the Leppington Precinct – Transport and Access Strategy report completed by AECOM for NSW Department of Planning and Infrastructure (reference 60272835 dated 10 March 2014).

Appendix B of the AECOM report identifies AM and PM Peak Hour traffic flows on Camden Valley Way adjacent to the proposed subdivision. The predicted traffic volumes for 2036 are shown in Table 5.

Table 5 Future Road Traffic Volumes (2036)

Approach	Approach Traffic Volumes	
	AM Peak Hour	PM Peak Hour
Camden Valley Way N	3569	1816
Camden Valley Way S	1830	3589
George Road E	144	117
George Road W	0	28
Hulls Road N	233	164
Hulls Road S	145	230

From past experience, Day Design has developed the following breakdown for traffic flow during the day/night periods:

Table 6 Traffic Flow Volumes Throughout The Day

Time	Description	% Of Daily Flow
06:00 to 09:00	Morning Peak	25% (approx 8-10% per hour)
09:00 to 16:00	Day	35% (approx 5% per hour)
16:00 to 19:00	Afternoon Peak	25% (approx 8-10% per hour)
19:00 to 00:00	Evening	10% (approx 2% per hour)
00:00 to 06:00	Night	5% (approx 1% per hour)



4.2 SoundPLAN Model Parameters

A traffic noise model was created using SoundPLAN 8.2 with the following parameters:

- Calculation standard: Calculation of Road Traffic Noise (CoRTN 1988)
- Traffic speed limit: Camden Valley Way 80 km/h, Heath Road 60 km/h
- Heavy Vehicle %: 3.9%
- Traffic Volume: Year 2036 prediction, ~45,000 AADT Camden Valley Way
~2,000 AADT George Road
~4,000 AADT Hulls Road
- Camden Valley Way AM Peak 3569 North 1830 South
- Camden Valley Way PM Peak 1816 North 3589 South
- George Road AM Peak 144 East 0 West
- George Road PM Peak 117 East 28 West
- Hulls Road AM Peak 233 North 145 South
- Hulls Road PM Peak 164 North 230 South.

The resultant road traffic noise generation from George Road, Hulls Road and Camden Valley Way at the subdivided residential lots is shown in Table 7.

Table 7 Future Road Traffic Sound Pressure Levels (2036)

Location	Daytime LAeq, 15 hour Noise Level (dBA)	Night Time LAeq, 9 hour Noise Level (dBA)
Group 1		
Lot 118 to Lot 121, Lot 125 to Lot 132, Lot 142 to Lot 145	64 to 67	60 to 63
Group 2		
Lot 101 to Lot 103, Lot 116 to Lot 117, Lot 137 to Lot 141, Lot 146 to Lot 147, Lot 150 to Lot 151, Lot 167 Lot 195 to Lot 208, Lot 220	60 to 63	56 to 59
Group 3		
Lot 104 to Lot 115, Lot 122 to Lot 124, Lot 133 to Lot 136, Lot 148 to Lot 149, Lot 152 to Lot 156, Lot 166, Lot 193 to Lot 194, Lot 209 to Lot 219	56 to 59	52 to 55
Group 4		
Lot 157 to Lot 165, Lot 168 to 192	< 55	50 to 51



4.3 Required Traffic Noise Reduction

In order to achieve the Camden Councils DCP and the DoPE criteria, the effective noise reduction required from outside to inside is therefore:

Group 1

- $(63 - 35) = 28$ dBA inside sleeping areas; and
- $(67 - 40) = 27$ dBA in other habitable spaces.

Group 2

- $(59 - 35) = 24$ dBA inside sleeping areas; and
- $(63 - 40) = 23$ dBA in other habitable spaces.

Group 3

- $(55 - 35) = 20$ dBA inside sleeping areas; and
- $(59 - 40) = 19$ dBA in other habitable spaces.

Group 4

- $(51 - 35) = 16$ dBA inside sleeping areas; and
- $(55 - 40) = 15$ dBA in other habitable spaces.



5.0 NOISE CONTROL RECOMMENDATIONS

5.1 Traffic Noise Intrusion Controls

To comply with the indoor noise criteria of both the SEPP (Transport and Infrastructure) 2021 as detailed in Section 3, acoustical treatment in the form of heavier acoustically rated construction of the dwellings highlighted in Appendix A will be required.

The necessary noise reduction for rooms within the development can be achieved if the following noise control recommendations are complied with, and there are no gaps at construction joints, around plumbing penetrations in external walls, at window sills, door frames, etc., through which sound may penetrate.

Once drawings of the dwellings to be constructed on these lots are provided, the noise controls may need to be revised.

5.2 Principal Private Open Space

As can be seen from the noise contour maps attached as Appendix B, the rear yards of the residential dwellings facing Camden Valley Way are likely to have a noise level of 55 dBA during the L_{Aeq} 15 hour period. This meets the criteria outlined in Camden Council's Environmental Noise Policy (2018) for principal private open spaces of 57 dBA in new release growth areas.



5.3 Group 1 Dwellings

5.3.1 Entry Doors

Entry doors in Group 1 dwellings should be of solid core timber construction with a nominal thickness of 45 mm.

Acoustic Seals should be fitted to the door as shown in the attached sketch AC809-5D.

Careful fitting of door frames and doors to minimise or plug edge gaps is essential. Door latches with a “backset” distance of 127 mm is preferred, but not less than 70 mm, to allow adequate finger clearance for acoustic seals.

5.3.2 Floor Coverings

All floors in habitable rooms of Group 1 dwellings should be carpet only (excluding bathrooms, laundries, and kitchens).

For display homes, if hard floorings are proposed for the living areas, soft furnishings are required to approximately the same surface area as the floor such as fabric seating furniture (not leather), heavy drapes over windows, large thick pile rugs, fabric wall hangings or similar.

5.3.3 Walls

Double brick walls are acceptable.

If Brick veneer is proposed, the following construction should be implemented:

- 110 mm bricks (min average weight 6 kg), and
- 90 mm stud frame with 75 mm thick bulk insulation, and
- 13 mm fire rated plasterboard lining on 90 mm studs.

If lightweight walls are proposed, the following construction should be implemented:

- 16 mm fibre cement clad sheeting such as James Hardie Stria or equivalent or 9 mm fibre cement sheeting, fixed on to battens, and
- Sarking and 25 mm wall blankets installed between the battens; and
- 2 layers of 9 mm fibre cement to the outside of 90 mm timber studs; and
- 75 mm bulk insulation (min 14 kg/m³ density) installed between the studs; and
- 2 layers of 16 mm fire rated plasterboard on the internal side of the studs.

Normal cavity-brick walls make an excellent sound barrier, reducing outside noise intrusion by as much as 50 dBA. Brick veneer walls also make good sound barriers. However, care must be exercised with brick-veneer walls to minimise sound penetration near the eaves as shown in the attached Figure AC806-J. Bricklayers should be instructed to ensure the perp-ends are filled and suitable cement-mortar used to eliminate shrinkage gaps during curing.



5.3.4 Ceiling and Roof System

- All roofs shall be of concrete tile or metal deck construction.
- Thermal insulation and a heavy Duty Sarking vapour barrier laid below the roof.
- Ceilings under the roof are to comprise one layer of 13 mm fire rated plasterboard.
- 160 mm thick bulk insulation batts (min 11 kg/m³ density) are to be placed between the ceiling joists.

5.3.5 Windows

Normal windows and doors will only reduce outside noise intrusion by 15 to 18 dBA.

Unless otherwise specified, window and door frames may be either sliding or casement style and be of robust sound-barrier construction having interlocking stiles and Schlegel (or similar) Q-lon or vinyl finned seals to minimise sound leakage.

Glazing for all rooms including the bedrooms, lounge, family room and dining room shall have R_w ratings as specified in Table 8. A typical glazing specification is given, however, an alternative glazing specification may be used if the R_w is achieved or exceeded.

Table 8 Schedule of Glazed Windows and Door Constructions – Group 1 Dwellings

Room Description	Minimum R_w	Typical Glazing Specification
Group 1 Dwellings		
Bedrooms Window (1800 x 1200)	37	12.5 mm Vlam HUSH glass with Q-Lon seals
Living/Dining Room Sliding Door/Window (2400 x 2100)	37	12.5 mm Vlam HUSH glass with Q-Lon seals
Kitchens/Bathrooms/ Laundries Window (1800 x 1200)	31	6.38 mm laminated glass with Q-Lon seals

It is most important that any sound leakage paths around the windows be sealed off. We recommend that prior to the fitting of architraves around the windows, the space between the frames and the wall structure be sealed off with polystyrene rod packers and silicone mastic, as shown in the attached datasheet AC809-4C. The window architraves can then be fitted.



5.4 Group 2 Dwellings

5.4.1 Entry Doors

Entry doors in Group 2 dwellings should be of solid core timber construction with a nominal thickness of 35 mm.

Acoustic Seals should be fitted to the door as shown in the attached sketch AC809-5D.

Careful fitting of door frames and doors to minimise or plug edge gaps is essential. Door latches with a “backset” distance of 127 mm is preferred, but not less than 70 mm, to allow adequate finger clearance for acoustic seals.

5.4.2 Floor Coverings

All floors in Group 2 dwellings may be carpet, timber or tile finishes.

5.4.3 Walls

Brick veneer using 110 mm bricks with 13 mm plasterboard lining on 90 mm studs is acceptable.

If Brick veneer walls are proposed, the following construction should be implemented:

- 110 mm bricks, and
- 90 mm stud frame with 75 mm thick insulation, and
- 13 mm standard plasterboard lining on 90 mm studs.

If light weight walls are proposed, the following construction should be implemented:

- 16 mm fibre cement clad sheeting such as James Hardie Stria or equivalent or 9 mm fibre cement sheeting, fixed to the external side of, and
- 90 mm timber studs, and
- 2 layers of 13 mm fire rated plasterboard fixed to the internal side of the studs, with
- 75 mm bulk insulation (min 14 kg/m³ density) installed between the studs.

Normal cavity-brick walls make an excellent sound barrier, reducing outside noise intrusion by as much as 50 dBA. Brick veneer walls also make good sound barriers. However, care must be exercised with brick-veneer walls to minimise sound penetration near the eaves as shown in the attached Figure AC806-J. Bricklayers should be instructed to ensure the perp-ends are filled and suitable cement-mortar used to eliminate shrinkage gaps during curing.



5.4.4 Ceiling and Roof System

- All roofs shall be of concrete tile or metal deck construction.
- Thermal insulation and a heavy Duty Sarking vapour barrier laid below the roof.
- Ceilings under the roof are to comprise a single layer of 13 mm standard plasterboard construction.
- 160 mm thick bulk insulation batts (min 11 kg/m³ density) are to be placed between the ceiling joists.

5.4.5 Windows

Normal windows and doors will only reduce outside noise intrusion by 15 to 18 dBA.

Unless otherwise specified, window and door frames may be either sliding or casement style and be of robust sound-barrier construction having interlocking stiles and Schlegel (or similar) Q-lon or vinyl finned seals to minimise sound leakage.

Glazing for all rooms including the bedrooms, lounge, family room and dining room shall have R_w ratings as specified in Table 9. A typical glazing specification is given, however, an alternative glazing specification may be used if the R_w is achieved or exceeded.

Table 9 Schedule of Glazed Windows and Door Constructions – Group 2 Dwellings

Room Description	Minimum R_w	Typical Glazing Specification
Group 2 Dwellings		
Bedrooms Window (1800 x 1200)	35	10.38 mm laminated glass in sliding/awning frame with Q-Lon seals
Living/Dining Room Sliding Door/Window (2400 x 2100)	32	6.38 mm laminated glass in sliding/awning frame with Q-Lon seals
Kitchens/Bathrooms/ Laundries Window (1800 x 1200)	29	5 mm glass in sliding/awning frame with Q-Lon seals

It is most important that any sound leakage paths around the windows be sealed off. We recommend that prior to the fitting of architraves around the windows, the space between the frames and the wall structure be sealed off with polystyrene rod packers and silicone mastic, as shown in the attached datasheet AC809-4C. The window architraves can then be fitted.



5.5 Group 3 Dwellings

5.5.1 Entry Doors

Entry doors in Group 3 dwellings should be of solid core timber construction with a nominal thickness of 35 mm.

Acoustic Seals should be fitted to the door as shown in the attached sketch AC809-5D.

Careful fitting of door frames and doors to minimise or plug edge gaps is essential. Door latches with a “backset” distance of 127 mm is preferred, but not less than 70 mm, to allow adequate finger clearance for acoustic seals.

5.5.2 Floor Coverings

All floors in Group 3 may be carpet, timber or tile finishes.

5.5.3 Walls

Double brick walls are acceptable.

If Brick veneer walls are proposed, the following construction should be implemented:

- 110 mm bricks, and
- 90 mm stud frame with 75 mm thick insulation, and
- 10 mm standard plasterboard lining on 90 mm studs.

If light weight walls are proposed, the following construction should be implemented:

- 16 mm fibre cement clad sheeting such as James Hardie Stria or equivalent or 9 mm fibre cement sheeting, fixed to the external side of, and
- 90 mm timber studs, and
- 1 layer of 13 mm fire rated plasterboard fixed to the internal side of the studs, with
- 75 mm bulk insulation (min 14 kg/m³ density) installed between the studs.

Normal cavity-brick walls make an excellent sound barrier, reducing outside noise intrusion by as much as 50 dBA. Brick veneer walls also make good sound barriers. However, care must be exercised with brick-veneer walls to minimise sound penetration near the eaves as shown in the attached Figure AC806-J. Bricklayers should be instructed to ensure the perp-ends are filled and suitable cement-mortar used to eliminate shrinkage gaps during curing.



5.5.4 Ceiling and Roof System

- All roofs shall be of concrete tile or metal deck construction.
- Thermal insulation and vapour barrier laid below the roof.
- Ceilings under the roof are to comprise a single layer of 13 mm standard plasterboard construction.
- 160 mm thick bulk insulation batts (min 11 kg/m³ density) are to be placed between the ceiling joists.

5.5.5 Windows

Normal windows and doors will only reduce outside noise intrusion by 15 to 18 dBA.

Unless otherwise specified, window and door frames may be either sliding or casement style and be of robust sound-barrier construction having interlocking stiles and Schlegel (or similar) Q-lon or vinyl finned seals to minimise sound leakage.

Glazing for the bedrooms, shall have R_w ratings as specified in Table 10. A typical glazing specification is given, however, an alternative glazing specification may be used if the R_w is achieved or exceeded.

Table 10 Schedule of Glazed Windows and Door Constructions – Group 3 Dwellings

Room Description	Minimum R_w	Typical Glazing Specification
Group 3 Dwellings		
Bedrooms Window (1800 x 1200)	32	6.38 mm laminated glass in sliding/awning frame with Q-Lon seals
Living/Dining Room Sliding Door/Window (2400 x 2100)	29	5 mm glass in sliding/awning frame with Q-Lon seals

It is most important that any sound leakage paths around the windows be sealed off. We recommend that prior to the fitting of architraves around the windows, the space between the frames and the wall structure be sealed off with polystyrene rod packers and silicone mastic, as shown in the attached datasheet AC809-4C. The window architraves can then be fitted.



5.6 Group 4 Dwellings

5.6.1 Entry Doors

Entry doors in Group 4 dwellings should be of solid core timber construction with a nominal thickness of 35 mm.

5.6.2 Floor Coverings

All floors in Group 4 dwellings may be carpet, timber or tile finishes.

5.6.3 Walls

Double brick walls are acceptable.

If Brick veneer walls are proposed, the following construction should be implemented:

- 110 mm bricks, and
- 90 mm stud frame with 75 mm thick insulation, and
- 10 mm standard plasterboard lining on 90 mm studs.

If light weight walls are proposed, the following construction should be implemented:

- 16 mm fibre cement clad sheeting such as James Hardie Stria or equivalent or 9 mm fibre cement sheeting, fixed to the external side of, and
- 90 mm timber studs, and
- 1 layer of 13 mm standard plasterboard fixed to the internal side of the studs, with
- 75 mm bulk insulation (min 14 kg/m³ density) installed between the studs

Normal cavity-brick walls make an excellent sound barrier, reducing outside noise intrusion by as much as 50 dBA. Brick veneer walls also make good sound barriers. However, care must be exercised with brick-veneer walls to minimise sound penetration near the eaves as shown in the attached Figure AC806-J. Bricklayers should be instructed to ensure the perp-ends are filled and suitable cement-mortar used to eliminate shrinkage gaps during curing.



5.6.4 Ceiling and Roof System

- All roofs shall be of concrete tile or metal deck construction.
- Thermal insulation and vapour barrier laid below the roof.
- Ceilings under the roof are to comprise a single layer of 10 mm standard plasterboard construction.
- 160 mm thick bulk insulation batts (min 11 kg/m³ density) are to be placed between the ceiling joists.

5.6.5 Windows

Normal windows and doors will only reduce outside noise intrusion by 15 to 18 dBA.

Unless otherwise specified, window and door frames may be either sliding or casement style and be of robust sound-barrier construction having interlocking stiles and Schlegel (or similar) Q-lon or vinyl finned seals to minimise sound leakage.

Glazing for the bedrooms, shall have R_w ratings as specified in Table 11. A typical glazing specification is given, however, an alternative glazing specification may be used if the R_w is achieved or exceeded.

Table 11 Schedule of Glazed Windows and Door Constructions – Group 4 Dwellings

Room Description	Minimum R_w	Typical Glazing Specification
Group 4 Dwellings		
Bedrooms Window (1800 x 1200)	29	5 mm glass in sliding/awning frame with Q-Lon seals

It is most important that any sound leakage paths around the windows be sealed off. We recommend that prior to the fitting of architraves around the windows, the space between the frames and the wall structure be sealed off with polystyrene rod packers and silicone mastic, as shown in the attached datasheet AC809-4C. The window architraves can then be fitted.



5.7 Eligible Suppliers of Windows and Glass Doors

The windows and doors are the most critical sound paths in a building. Only those companies who have conducted laboratory testing of their windows should be considered as eligible suppliers. Companies that we are aware of having conducted satisfactory testing include:

- *Architectural Window Systems*, Wetherill Park, NSW Phone: 8783 7611
- *Micos Aluminium Pty Ltd*, Hillsdale, NSW Phone: 9661 5233
- *Christoffel Pty Ltd*, Glendenning, NSW Phone: 9627 4811
- *Aska Windows*, Greenacre, NSW Phone: 9642 8588
- *James Hardie (Trend) Windows*, Girraween, NSW Phone: 9840 2000
- *Boral Window Systems*, Smithfield, NSW Phone: 9757 0555
- *Fernbran Windows*, Mt Druitt, NSW Phone: 9677 2933
- *Stegbar (Windows) Pty Ltd*, Lansvale, NSW Phone: 9794 5200
- *Thermosound Pty Ltd*, Bronte, NSW Phone: 9369 3018
- *Wideline Windows and Doors*, Rosebery, NSW Phone: 1300 943 354

Approval should be sought from Day Design before any other manufacturers' products are considered. R_w ratings claimed should be supported by acoustical laboratory test reports. We suggest that you obtain confirmation from the glazier that the glazing supplied will meet the required R_w rating above.

5.8 Construction Disclaimer and Copyright

The recommendations in this report have been prepared for the client whose name appears on the first page, and may be copied and distributed as required for this project. However, the principles and recommendations in this report and/or attachments may not be used by a third person without the written permission of Day Design Pty Ltd.

Recommendations made in this report are intended to resolve acoustical problems only. We make no claim of expertise in other areas and draw your attention to the possibility that our recommendations may not meet the structural, fire, thermal or other aspects of building construction.

We encourage clients to check with us before using materials or equipment that are alternative to those specified in our Acoustical Report.

The integrity of acoustic structures is very dependent on installation techniques. For example, a small crack between the top of a wall and a ceiling can reduce the effective sound transmission loss of a wall from R_w 50 to R_w 40. Therefore the use of contractors that are experienced in acoustic construction is encouraged. Furthermore, two insulation products may have the same thermal R rating but the sound absorption of one may be entirely deficient, therefore the use of materials and equipment that are supported by acoustic laboratory test data is encouraged.



6.0 NOISE IMPACT STATEMENT

Traffic noise level modelling was carried out based on the predicted traffic flow volume for 2036 presented on Camden Valley Way at the residential lots of the proposed residential subdivision at 40-52 Hulls Road and 15 George Road, Leppington, NSW.

Provided the recommendations in Section 5 of this report are implemented the road traffic noise levels will conform with the internal noise level controls in the State Environmental Planning Policy (Transport and Infrastructure) 2021, and Camden Council policies.



William Wang, BE (Mechatronics), MIEAust, MAAS

Senior Acoustical Engineer

for and on behalf of Day Design Pty Ltd

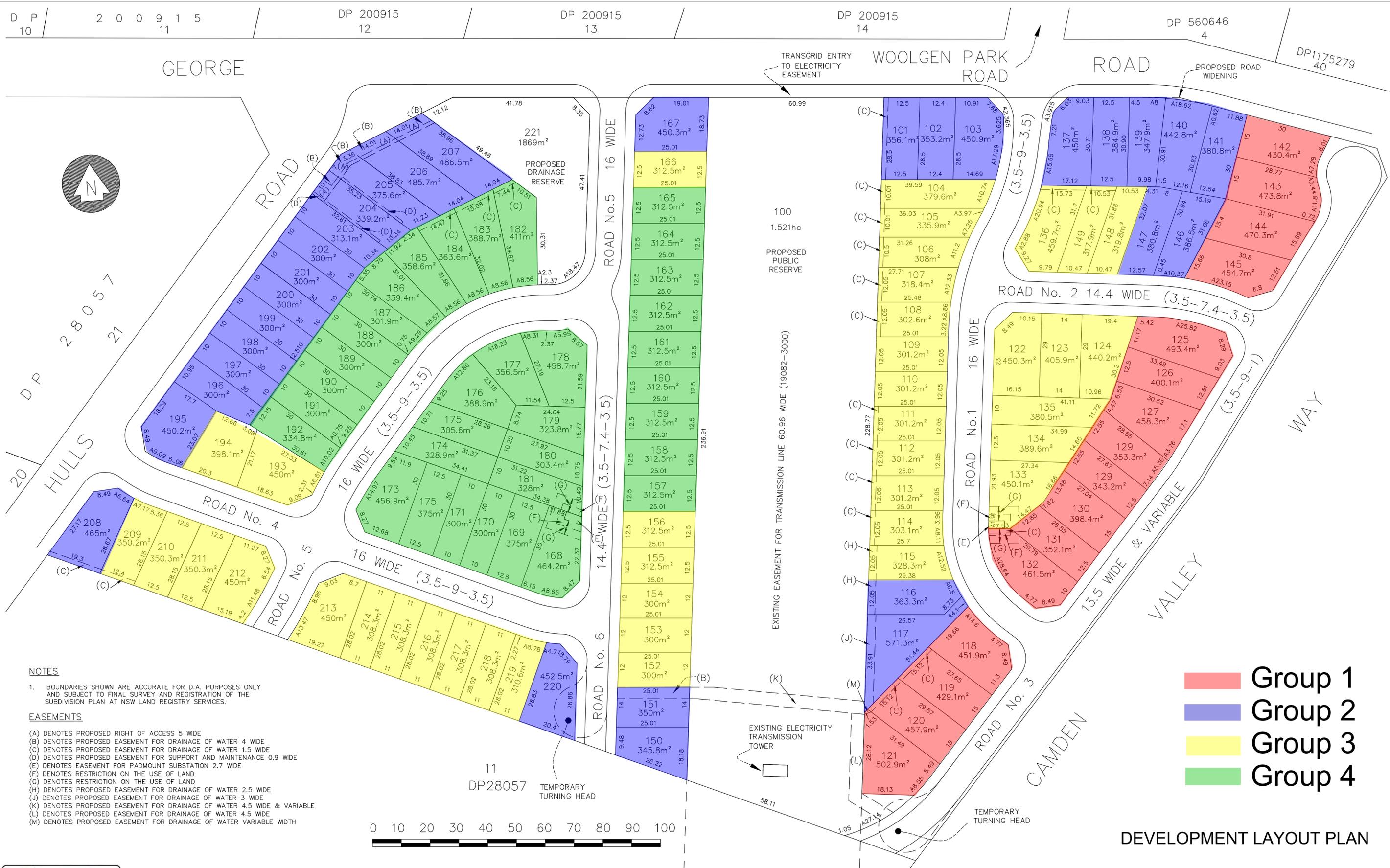
AAAC MEMBERSHIP

Day Design Pty Ltd is a member company of the Association of Australasian Acoustical Consultants, and the work herein reported has been performed in accordance with the terms of membership.

Attachments:

- Appendix A – Site Layout
- Appendix B – SoundPLAN Noise Contours
- Appendix C – SoundPLAN Traffic Noise Result Tables
- AC806-J – Reduction of Noise Intrusion by Wall Cavity Sealing
- AC809-4C – Frame Sealing Methods for Sound Rated Windows
- AC809-5D – Sound Rated Door





- NOTES**
- BOUNDARIES SHOWN ARE ACCURATE FOR D.A. PURPOSES ONLY AND SUBJECT TO FINAL SURVEY AND REGISTRATION OF THE SUBDIVISION PLAN AT NSW LAND REGISTRY SERVICES.
- EASEMENTS**
- (A) DENOTES PROPOSED RIGHT OF ACCESS 5 WIDE
 - (B) DENOTES PROPOSED EASEMENT FOR DRAINAGE OF WATER 4 WIDE
 - (C) DENOTES PROPOSED EASEMENT FOR DRAINAGE OF WATER 1.5 WIDE
 - (D) DENOTES PROPOSED EASEMENT FOR SUPPORT AND MAINTENANCE 0.9 WIDE
 - (E) DENOTES EASEMENT FOR PADMOUNT SUBSTATION 2.7 WIDE
 - (F) DENOTES RESTRICTION ON THE USE OF LAND
 - (G) DENOTES RESTRICTION ON THE USE OF LAND
 - (H) DENOTES PROPOSED EASEMENT FOR DRAINAGE OF WATER 2.5 WIDE
 - (J) DENOTES PROPOSED EASEMENT FOR DRAINAGE OF WATER 3 WIDE
 - (K) DENOTES PROPOSED EASEMENT FOR DRAINAGE OF WATER 4.5 WIDE & VARIABLE
 - (L) DENOTES PROPOSED EASEMENT FOR DRAINAGE OF WATER 4.5 WIDE
 - (M) DENOTES PROPOSED EASEMENT FOR DRAINAGE OF WATER VARIABLE WIDTH

Group 1 (Red)

Group 2 (Blue)

Group 3 (Yellow)

Group 4 (Green)



DATE	REVISIONS	BY	DATE	REVISIONS	BY
4/12/23	DRAINAGE EASEMENTS (B)(J)(K)(L) & (M) AMENDED	P.Y.	04/8/23	GENERAL AMENDMENTS	P.S
28/11/23	DRAINAGE EASEMENTS (H) TO (M) ADDED/AMENDED	P.Y.	29/4/22	GENERAL AMENDMENTS	P.S.
19/11/23	DIMS & AREAS. LOTS 151-154 AMENDED; VARIOUS EASEMENTS ADDED	P.Y.	17/4/22	REVISED LOT LAYOUT - NO BEP AND EXPANDED PLAN TITLE	P.S.
9/10/23	LOTS 103,136-140 & 147-149 FOR ROAD No. 1 ENTRY & ROUND-ABOUT; ACCESS TO LOTS 204-207 FROM HULL ROAD	P.Y.	8/4/22	BUILDING ENVELOPE PLAN ADDED	P.S.
			8/4/22	REVISED LOT LAYOUT FROM PDA	P.Y.
			17/3/22	TRANSMISSION LINE E'MENT NOTE	P.Y.
			16/3/22	TRANSMISSION LINE NOTATIONS	P.Y.
			15/3/22	TRANSMISSION LINE EASEMENT	P.Y.

YSCO GEOMATICS
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GEOMATIC ENGINEERING
LAND & ENGINEERING SURVEYING
PROJECT MANAGEMENT
SOIL AND WATER MANAGEMENT
ENVIRONMENTAL PLANNING & DESIGN

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PLAN OF PROPOSED SUBDIVISION OF LOTS 6 & 7 IN DP858010 AND LOTS 10 & 11 IN DP1164955 AT CAMDEN VALLEY WAY & GEORGE ROAD, LEPPINGTON IN THE CAMDEN L.G.A.

DRAWN:	CHECKED:	SCALE:	DATUM:	REFERENCE:
15 DECEMBER 2021	P.Y.	1:600 © A1	N/A	3721/4P

40 - 52 Hulls Road and 15 George Road, Leppington

Leq, 15-hr Daytime Noise Level Prediction Contour Map - First Floor Level

Note: Noise contours do not include facade reflection of 2.5 dB.

7640-1 Appendix B1



Noise levels dB(A)

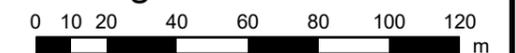
< 45.0	Dark Green
45.0 <=	Green
47.0 <=	Bright Green
49.0 <=	Light Green
51.0 <=	Yellow-Green
53.0 <=	Yellow
55.0 <=	Orange-Yellow
57.0 <=	Orange
59.0 <=	Red-Orange
61.0 <=	Red
63.0 <=	Pink
65.0 <=	Purple-Pink
67.0 <=	Purple
69.0 <=	Dark Purple

Signs and symbols

- Noise Assessment Point
- Road
- Residential Building

Date: 16 Feb 2024

Length Scale 1:2000



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 Peakhurst Sydney NSW 2210
 Phone: (02) 9584 2639
 Email: acoustics@daydesign.com.au

40 - 52 Hulls Road and 15 George Road, Leppington

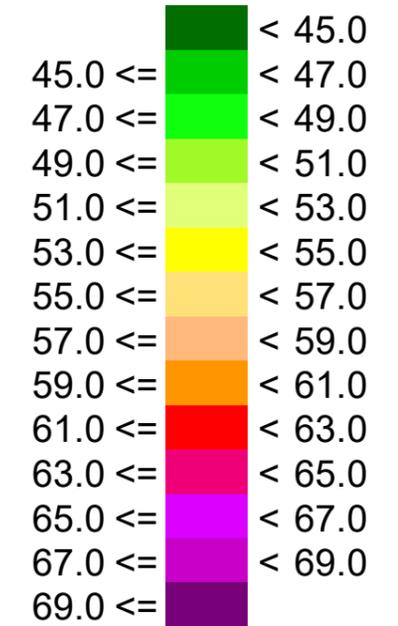
Leq,9-hr Night-time Noise Level Prediction Contour Map - First Floor Level

Note: Noise contours do not include facade reflection of 2.5 dB.

7640-1 Appendix B2



Noise levels dB(A)

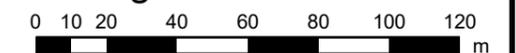


Signs and symbols

-  Noise Assessment Point
-  Road
-  Residential Building

Date: 16 Feb 2024

Length Scale 1:2000



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40-52 Hulls Road and 15 George Road, Leppington
Assessed Receiver Levels
"40-52 Hulls Road Updated Feb 2024.sit" Point Receiver

Receiver	Floor Level	Direction	Daytime Leq 15 hour dB(A)	Night-time Leq 9 hour dB(A)
Lot 101	GF	S	50.1	47.5
	F 1		52.5	50.0
Lot 101	GF	N	56.0	56.0
	F 1		58.2	57.4
Lot 102	GF	S	48.0	45.7
	F 1		50.9	48.7
Lot 102	GF	N	56.0	55.9
	F 1		58.3	57.4
Lot 103	GF	S	50.5	47.7
	F 1		52.4	49.8
Lot 103	GF	N	56.0	55.9
	F 1		58.4	57.5
Lot 104	GF	W	51.3	47.7
	F 1		54.5	50.9
Lot 104	GF	E	51.5	47.9
	F 1		53.3	49.7
Lot 105	GF	W	51.5	47.9
	F 1		54.7	51.1
Lot 105	GF	E	51.7	48.2
	F 1		53.4	49.8
Lot 106	GF	W	51.8	48.2
	F 1		54.9	51.3
Lot 106	GF	E	52.4	48.8
	F 1		53.8	50.3
Lot 107	GF	W	51.8	48.2
	F 1		55.0	51.4
Lot 107	GF	E	52.2	48.6
	F 1		53.7	50.2
Lot 108	GF	W	51.9	48.3
	F 1		55.3	51.7
Lot 108	GF	E	52.2	48.6
	F 1		53.8	50.3
Lot 109	GF	W	52.3	48.7
	F 1		55.8	52.2
Lot 109	GF	E	51.9	48.4
	F 1		53.8	50.2



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Project Number: 7640-1
Date: 16/02/2024
Engineer: WW



40-52 Hulls Road and 15 George Road, Leppington
Assessed Receiver Levels
"40-52 Hulls Road Updated Feb 2024.sit" Point Receiver

Receiver	Floor Level	Direction	Daytime Leq 15 hour dB(A)	Night-time Leq 9 hour dB(A)
Lot 110	GF	W	52.8	49.2
	F 1		56.2	52.6
Lot 110	GF	E	52.3	48.7
	F 1		54.2	50.6
Lot 111	GF	W	53.5	49.9
	F 1		56.6	53.1
Lot 111	GF	E	52.7	49.1
	F 1		54.7	51.1
Lot 112	GF	W	54.1	50.5
	F 1		57.0	53.4
Lot 112	GF	E	53.2	49.7
	F 1		55.2	51.6
Lot 113	GF	W	55.3	51.8
	F 1		57.6	54.1
Lot 113	GF	E	54.2	50.6
	F 1		56.3	52.7
Lot 114	GF	W	55.7	52.2
	F 1		58.0	54.4
Lot 114	GF	E	54.5	50.9
	F 1		56.8	53.2
Lot 115	GF	W	56.5	52.9
	F 1		58.5	54.9
Lot 115	GF	E	55.4	51.8
	F 1		57.8	54.2
Lot 116	GF	W	55.6	52.0
	F 1		57.7	54.2
Lot 116	GF	E	56.4	52.8
	F 1		58.8	55.2
Lot 117	GF	S	57.9	54.3
	F 1		59.8	56.2
Lot 117	GF	E	54.7	51.2
	F 1		57.7	54.2
Lot 118	GF	NE	60.1	56.5
	F 1		62.9	59.4
Lot 118	GF	SE	64.3	60.8
	F 1		66.8	63.2



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40-52 Hulls Road and 15 George Road, Leppington
 Assessed Receiver Levels
 "40-52 Hulls Road Updated Feb 2024.sit" Point Receiver

Receiver	Floor Level	Direction	Daytime Leq 15 hour dB(A)	Night-time Leq 9 hour dB(A)
Lot 119	GF	NW	49.0	45.4
	F 1		54.5	50.9
Lot 119	GF	SE	64.4	60.8
	F 1		66.8	63.3
Lot 120	GF	NW	49.0	45.4
	F 1		54.4	50.8
Lot 120	GF	SE	64.3	60.7
	F 1		66.6	63.1
Lot 121	GF	NW	55.9	52.4
	F 1		58.0	54.4
Lot 121	GF	SE	64.0	60.4
	F 1		66.3	62.7
Lot 122	GF	S	49.5	45.9
	F 1		53.5	49.9
Lot 122	GF	N	51.2	47.6
	F 1		54.0	50.5
Lot 123	GF	S	51.4	47.9
	F 1		55.2	51.6
Lot 123	GF	N	51.6	48.1
	F 1		54.9	51.3
Lot 124	GF	S	52.1	48.6
	F 1		55.7	52.2
Lot 124	GF	N	52.3	48.7
	F 1		55.8	52.3
Lot 125	GF	NE	59.0	55.5
	F 1		62.0	58.4
Lot 125	GF	SE	63.9	60.3
	F 1		66.5	62.9
Lot 126	GF	NW	49.0	45.5
	F 1		54.4	50.8
Lot 126	GF	SE	63.9	60.4
	F 1		66.7	63.1
Lot 127	GF	NW	48.8	45.3
	F 1		54.4	50.8
Lot 127	GF	SE	64.1	60.5
	F 1		66.9	63.3



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40-52 Hulls Road and 15 George Road, Leppington
Assessed Receiver Levels
"40-52 Hulls Road Updated Feb 2024.sit" Point Receiver

Receiver	Floor Level	Direction	Daytime Leq 15 hour dB(A)	Night-time Leq 9 hour dB(A)
Lot 128	GF	NW	48.9	45.3
	F 1		54.4	50.9
Lot 128	GF	SE	64.1	60.6
	F 1		66.9	63.3
Lot 129	GF	NW	48.9	45.4
	F 1		54.5	51.0
Lot 129	GF	SE	64.2	60.6
	F 1		66.9	63.3
Lot 130	GF	NW	48.9	45.3
	F 1		54.4	50.8
Lot 130	GF	SE	63.9	60.4
	F 1		66.7	63.1
Lot 131	GF	NW	48.9	45.3
	F 1		54.5	50.9
Lot 131	GF	SE	64.1	60.5
	F 1		66.7	63.2
Lot 132	GF	SW	59.7	56.1
	F 1		62.4	58.8
Lot 132	GF	SE	64.0	60.4
	F 1		66.5	63.0
Lot 133	GF	SE	50.9	47.3
	F 1		54.7	51.1
Lot 133	GF	S	51.7	48.1
	F 1		55.2	51.6
Lot 134	GF	E	51.2	47.7
	F 1		54.6	51.0
Lot 134	GF	W	49.8	46.2
	F 1		53.6	50.1
Lot 135	GF	E	51.8	48.2
	F 1		55.1	51.5
Lot 135	GF	W	49.6	46.0
	F 1		53.5	49.9
Lot 136	GF	S	53.4	49.8
	F 1		55.8	52.2
Lot 136	GF	N	50.2	46.7
	F 1		53.6	50.1



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40-52 Hulls Road and 15 George Road, Leppington
Assessed Receiver Levels
"40-52 Hulls Road Updated Feb 2024.sit" Point Receiver

Receiver	Floor Level	Direction	Daytime Leq 15 hour dB(A)	Night-time Leq 9 hour dB(A)
Lot 137	GF	W	52.6	53.5
	F 1		55.3	55.1
Lot 137	GF	N	57.1	56.4
	F 1		59.2	57.9
Lot 138	GF	S	51.4	48.5
	F 1		54.4	50.9
Lot 138	GF	N	57.3	56.4
	F 1		59.5	58.1
Lot 139	GF	S	52.0	48.4
	F 1		55.1	51.6
Lot 139	GF	N	57.5	56.6
	F 1		60.0	58.4
Lot 140	GF	S	51.8	48.2
	F 1		55.1	51.6
Lot 140	GF	N	57.8	56.7
	F 1		60.3	58.6
Lot 141	GF	S	52.0	48.4
	F 1		55.8	52.2
Lot 141	GF	N	57.3	56.2
	F 1		59.8	58.2
Lot 142	GF	E	63.6	60.6
	F 1		65.4	62.3
Lot 142	GF	N	61.0	59.0
	F 1		62.8	60.4
Lot 143	GF	W	50.0	46.4
	F 1		54.5	50.9
Lot 143	GF	E	63.8	60.3
	F 1		65.9	62.3
Lot 144	GF	W	49.2	45.6
	F 1		54.2	50.7
Lot 144	GF	SE	64.1	60.5
	F 1		66.2	62.6
Lot 145	GF	SW	60.9	57.3
	F 1		63.5	59.9
Lot 145	GF	SE	64.4	60.8
	F 1		66.5	63.0



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40-52 Hulls Road and 15 George Road, Leppington
Assessed Receiver Levels
"40-52 Hulls Road Updated Feb 2024.sit" Point Receiver

Receiver	Floor Level	Direction	Daytime Leq 15 hour dB(A)	Night-time Leq 9 hour dB(A)
Lot 146	GF	N	50.5	46.9
	F 1		55.0	51.4
Lot 146	GF	S	57.2	53.6
	F 1		60.2	56.7
Lot 147	GF	N	50.6	47.0
	F 1		54.6	51.0
Lot 147	GF	S	55.9	52.3
	F 1		58.8	55.2
Lot 148	GF	N	50.3	46.7
	F 1		53.9	50.3
Lot 148	GF	S	54.7	51.1
	F 1		57.5	53.9
Lot 149	GF	N	49.6	46.0
	F 1		53.5	49.9
Lot 149	GF	S	54.0	50.5
	F 1		56.7	53.1
Lot 150	GF	E	59.0	55.4
	F 1		60.6	57.0
Lot 150	GF	W	56.8	53.2
	F 1		58.2	54.6
Lot 151	GF	E	57.7	54.1
	F 1		59.4	55.9
Lot 151	GF	W	55.7	52.2
	F 1		57.3	53.8
Lot 152	GF	E	56.7	53.1
	F 1		58.6	55.0
Lot 152	GF	W	55.2	51.6
	F 1		56.8	53.3
Lot 153	GF	E	56.2	52.7
	F 1		58.1	54.5
Lot 153	GF	W	54.7	51.1
	F 1		56.5	52.9
Lot 154	GF	E	55.6	52.0
	F 1		57.4	53.9
Lot 154	GF	W	54.0	50.4
	F 1		56.1	52.5



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40-52 Hulls Road and 15 George Road, Leppington
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"40-52 Hulls Road Updated Feb 2024.sit" Point Receiver

Receiver	Floor Level	Direction	Daytime Leq 15 hour dB(A)	Night-time Leq 9 hour dB(A)
Lot 155	GF	E	54.7	51.1
	F 1		56.7	53.1
Lot 155	GF	W	52.6	49.0
	F 1		55.6	52.0
Lot 156	GF	E	53.9	50.4
	F 1		56.0	52.4
Lot 156	GF	W	51.3	47.7
	F 1		55.1	51.5
Lot 157	GF	E	53.5	50.0
	F 1		54.9	51.3
Lot 157	GF	W	49.5	45.9
	F 1		54.0	50.4
Lot 158	GF	E	53.2	49.6
	F 1		54.4	50.8
Lot 158	GF	W	49.0	45.4
	F 1		53.2	49.7
Lot 159	GF	E	52.8	49.3
	F 1		54.0	50.4
Lot 159	GF	W	48.7	45.1
	F 1		52.6	49.0
Lot 160	GF	E	52.1	48.5
	F 1		52.9	49.3
Lot 160	GF	W	47.8	44.2
	F 1		51.2	47.7
Lot 161	GF	E	51.7	48.1
	F 1		52.5	48.9
Lot 161	GF	W	47.6	44.0
	F 1		50.9	47.4
Lot 162	GF	E	51.3	47.7
	F 1		52.3	48.8
Lot 162	GF	W	47.6	44.0
	F 1		50.9	47.3
Lot 163	GF	E	51.5	47.9
	F 1		52.4	48.8
Lot 163	GF	W	48.2	44.6
	F 1		51.2	47.7



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40-52 Hulls Road and 15 George Road, Leppington
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"40-52 Hulls Road Updated Feb 2024.sit" Point Receiver

Receiver	Floor Level	Direction	Daytime Leq 15 hour dB(A)	Night-time Leq 9 hour dB(A)
Lot 164	GF	E	51.3	47.7
	F 1		52.7	49.1
Lot 164	GF	W	48.6	45.0
	F 1		51.5	47.9
Lot 165	GF	E	51.6	48.0
	F 1		53.1	49.5
Lot 165	GF	W	49.7	46.1
	F 1		52.4	48.8
Lot 166	GF	E	52.6	51.2
	F 1		54.2	52.7
Lot 166	GF	W	51.4	50.9
	F 1		53.9	52.8
Lot 167	GF	N	55.6	55.7
	F 1		57.5	57.0
Lot 167	GF	W	52.7	53.8
	F 1		55.2	55.3
Lot 168	GF	SW	52.0	48.4
	F 1		54.4	50.8
Lot 168	GF	NE	49.3	45.7
	F 1		51.7	48.1
Lot 169	GF	SW	51.0	47.4
	F 1		53.6	50.1
Lot 169	GF	NE	48.6	45.0
	F 1		51.3	47.7
Lot 170	GF	S	50.4	46.8
	F 1		53.0	49.4
Lot 170	GF	NE	48.4	44.8
	F 1		51.1	47.5
Lot 171	GF	S	50.0	46.4
	F 1		52.6	49.0
Lot 171	GF	NE	48.3	44.7
	F 1		50.9	47.3
Lot 172	GF	SW	49.8	46.2
	F 1		52.3	48.7
Lot 172	GF	N	47.4	43.9
	F 1		50.6	47.0



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40-52 Hulls Road and 15 George Road, Leppington
Assessed Receiver Levels
"40-52 Hulls Road Updated Feb 2024.sit" Point Receiver

Receiver	Floor Level	Direction	Daytime Leq 15 hour dB(A)	Night-time Leq 9 hour dB(A)
Lot 173	GF	SW	49.7	46.1
	F 1		52.1	48.6
Lot 173	GF	NE	47.1	43.5
	F 1		50.7	47.1
Lot 174	GF	SE	49.8	46.3
	F 1		52.4	48.8
Lot 174	GF	NW	44.6	41.1
	F 1		49.1	45.6
Lot 175	GF	E	50.2	46.6
	F 1		52.4	48.8
Lot 175	GF	NW	44.6	41.0
	F 1		49.1	45.6
Lot 176	GF	SE	50.3	46.7
	F 1		52.1	48.5
Lot 176	GF	NW	44.8	41.2
	F 1		49.0	45.4
Lot 177	GF	S	49.9	46.3
	F 1		52.1	48.5
Lot 177	GF	N	46.6	43.0
	F 1		49.9	46.3
Lot 178	GF	S	48.9	45.3
	F 1		50.6	47.0
Lot 178	GF	N	47.1	43.5
	F 1		49.9	46.4
Lot 179	GF	W	44.9	41.3
	F 1		49.7	46.1
Lot 179	GF	E	51.1	47.5
	F 1		53.0	49.4
Lot 180	GF	W	44.6	41.0
	F 1		49.3	45.7
Lot 180	GF	E	51.2	47.7
	F 1		53.2	49.6
Lot 181	GF	W	44.6	41.0
	F 1		49.3	45.7
Lot 181	GF	SE	50.4	46.8
	F 1		52.4	48.8



DAY DESIGN PTY LTD
Consulting Acoustical Engineers

Project Number: 7640-1
Date: 16/02/2024
Engineer: WW



40-52 Hulls Road and 15 George Road, Leppington
 Assessed Receiver Levels
 "40-52 Hulls Road Updated Feb 2024.sit" Point Receiver

Receiver	Floor Level	Direction	Daytime Leq 15 hour dB(A)	Night-time Leq 9 hour dB(A)
Lot 182	GF	S	49.1	45.5
	F 1		50.5	46.9
Lot 182	GF	N	50.4	46.8
	F 1		52.6	49.0
Lot 183	GF	S	48.8	45.2
	F 1		50.5	46.9
Lot 183	GF	N	49.1	45.5
	F 1		51.6	48.0
Lot 184	GF	S	48.6	45.1
	F 1		50.2	46.6
Lot 184	GF	N	47.3	43.7
	F 1		50.3	46.7
Lot 185	GF	SE	48.5	44.9
	F 1		50.1	46.5
Lot 185	GF	NW	46.2	42.6
	F 1		49.5	45.9
Lot 186	GF	SE	48.2	44.6
	F 1		50.0	46.4
Lot 186	GF	NW	45.0	41.5
	F 1		48.8	45.3
Lot 187	GF	SE	48.7	45.1
	F 1		50.6	47.1
Lot 187	GF	NW	45.0	41.5
	F 1		48.9	45.3
Lot 188	GF	SE	49.4	45.8
	F 1		51.3	47.8
Lot 188	GF	NW	45.6	47.8
	F 1		49.4	49.9
Lot 189	GF	SE	49.5	45.9
	F 1		51.4	47.9
Lot 189	GF	NW	45.4	47.7
	F 1		49.3	49.7
Lot 190	GF	SE	49.8	46.3
	F 1		51.9	48.3
Lot 190	GF	NW	45.7	48.0
	F 1		49.5	50.0



DAY DESIGN PTY LTD
 Consulting Acoustical Engineers

Project Number: 7640-1
 Date: 16/02/2024
 Engineer: WW



40-52 Hulls Road and 15 George Road, Leppington
Assessed Receiver Levels
"40-52 Hulls Road Updated Feb 2024.sit" Point Receiver

Receiver	Floor Level	Direction	Daytime Leq 15 hour dB(A)	Night-time Leq 9 hour dB(A)
Lot 191	GF	SE	50.1	47.4
	F 1		52.3	49.6
Lot 191	GF	NW	45.4	47.7
	F 1		49.3	49.8
Lot 192	GF	SE	50.5	48.4
	F 1		52.8	50.8
Lot 192	GF	NW	44.8	47.1
	F 1		49.0	49.3
Lot 193	GF	SW	50.7	49.6
	F 1		53.8	52.2
Lot 193	GF	NW	44.6	46.8
	F 1		49.2	49.5
Lot 194	GF	NE	47.9	47.7
	F 1		51.6	50.7
Lot 194	GF	SW	50.9	47.4
	F 1		54.5	51.0
Lot 195	GF	SW	57.0	56.4
	F 1		58.8	57.6
Lot 195	GF	NW	62.2	59.5
	F 1		62.9	60.1
Lot 196	GF	SE	46.8	45.5
	F 1		50.4	48.7
Lot 196	GF	NW	62.1	59.4
	F 1		63.2	60.2
Lot 197	GF	SE	47.0	47.0
	F 1		50.4	49.8
Lot 197	GF	NW	62.0	59.3
	F 1		63.2	60.3
Lot 198	GF	SE	46.9	46.9
	F 1		50.3	49.7
Lot 198	GF	NW	61.1	58.9
	F 1		63.0	60.2
Lot 199	GF	SE	47.3	47.1
	F 1		50.7	50.0
Lot 199	GF	NW	61.7	59.2
	F 1		63.1	60.2



DAY DESIGN PTY LTD
Consulting Acoustical Engineers

Project Number: 7640-1
Date: 16/02/2024
Engineer: WW



40-52 Hulls Road and 15 George Road, Leppington
 Assessed Receiver Levels
 "40-52 Hulls Road Updated Feb 2024.sit" Point Receiver

Receiver	Floor Level	Direction	Daytime Leq 15 hour dB(A)	Night-time Leq 9 hour dB(A)
Lot 200	GF	SE	47.4	47.2
	F 1		50.6	49.9
Lot 200	GF	NW	61.3	59.0
	F 1		62.9	60.1
Lot 201	GF	NW	61.0	58.3
	F 1		62.8	59.6
Lot 201	GF	SE	47.8	47.3
	F 1		50.6	49.8
Lot 202	GF	NW	61.9	58.8
	F 1		62.9	59.7
Lot 202	GF	SE	49.0	47.9
	F 1		51.1	50.2
Lot 203	GF	SE	49.1	47.0
	F 1		51.1	49.1
Lot 203	GF	NW	61.4	58.6
	F 1		62.5	59.5
Lot 204	GF	SE	49.2	45.7
	F 1		51.2	47.6
Lot 204	GF	NW	60.3	58.1
	F 1		61.7	59.2
Lot 205	GF	NW	58.6	57.9
	F 1		60.3	59.1
Lot 205	GF	SE	49.2	45.6
	F 1		51.1	47.5
Lot 206	GF	NW	56.5	57.4
	F 1		58.6	58.8
Lot 206	GF	SE	48.8	45.3
	F 1		50.8	47.3
Lot 207	GF	NW	55.9	57.0
	F 1		57.9	58.3
Lot 207	GF	NE	54.7	55.1
	F 1		56.3	56.1
Lot 208	GF	NE	58.4	57.0
	F 1		60.4	58.4
Lot 208	GF	NW	63.3	59.9
	F 1		63.3	60.0



DAY DESIGN PTY LTD
 Consulting Acoustical Engineers

Project Number: 7640-1
 Date: 16/02/2024
 Engineer: WW



40-52 Hulls Road and 15 George Road, Leppington
Assessed Receiver Levels
"40-52 Hulls Road Updated Feb 2024.sit" Point Receiver

Receiver	Floor Level	Direction	Daytime Leq 15 hour dB(A)	Night-time Leq 9 hour dB(A)
Lot 209	GF	NE	53.0	53.7
	F 1		56.0	55.9
Lot 209	GF	SW	56.2	54.7
	F 1		57.6	55.8
Lot 210	GF	SW	54.5	51.0
	F 1		56.6	53.1
Lot 210	GF	N	50.6	50.2
	F 1		53.3	52.4
Lot 211	GF	SW	54.0	50.5
	F 1		56.8	54.7
Lot 211	GF	NE	49.7	49.0
	F 1		52.0	48.4
Lot 212	GF	SW	55.4	53.2
	F 1		57.4	54.9
Lot 212	GF	NE	49.6	48.2
	F 1		52.0	50.1
Lot 213	GF	N	48.8	45.2
	F 1		51.4	47.8
Lot 213	GF	S	57.0	53.4
	F 1		58.0	54.4
Lot 214	GF	NE	49.2	45.7
	F 1		51.8	48.2
Lot 214	GF	SW	57.2	53.7
	F 1		58.2	54.6
Lot 215	GF	NE	49.4	45.9
	F 1		52.0	48.4
Lot 215	GF	SW	57.5	53.9
	F 1		58.5	54.9
Lot 216	GF	NE	49.5	46.0
	F 1		52.2	48.6
Lot 216	GF	SW	57.8	54.3
	F 1		58.8	55.2
Lot 217	GF	NE	49.5	45.9
	F 1		52.2	48.7
Lot 217	GF	SW	58.1	54.5
	F 1		59.0	55.4



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40-52 Hulls Road and 15 George Road, Leppington
 Assessed Receiver Levels
 "40-52 Hulls Road Updated Feb 2024.sit" Point Receiver

Receiver	Floor Level	Direction	Daytime Leq 15 hour dB(A)	Night-time Leq 9 hour dB(A)
Lot 218	GF	SW	58.3	54.7
	F 1		59.4	55.8
Lot 218	GF	NE	49.7	46.1
	F 1		52.5	48.9
Lot 219	GF	N	49.8	46.2
	F 1		52.6	49.0
Lot 219	GF	SW	58.6	55.0
	F 1		59.6	56.1
Lot 220	GF	NE	50.2	46.7
	F 1		53.0	49.4
Lot 220	GF	S	58.9	55.3
	F 1		60.0	56.4



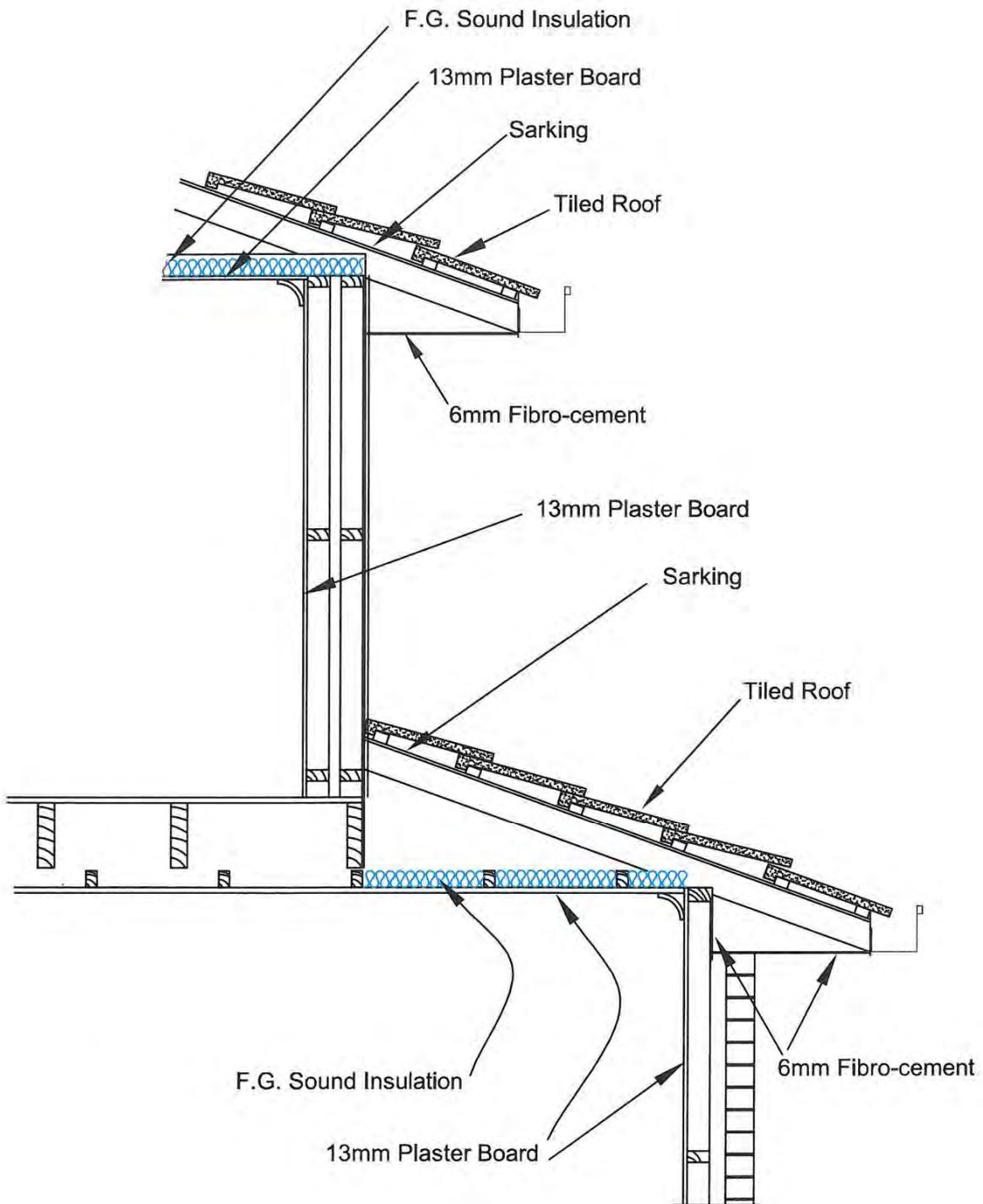
DAY DESIGN PTY LTD
 Consulting Acoustical Engineers

Project Number: 7640-1
 Date: 16/02/2024
 Engineer: WW

REDUCTION OF NOISE INTRUSION BY WALL CAVITY SEALING

AC806-J

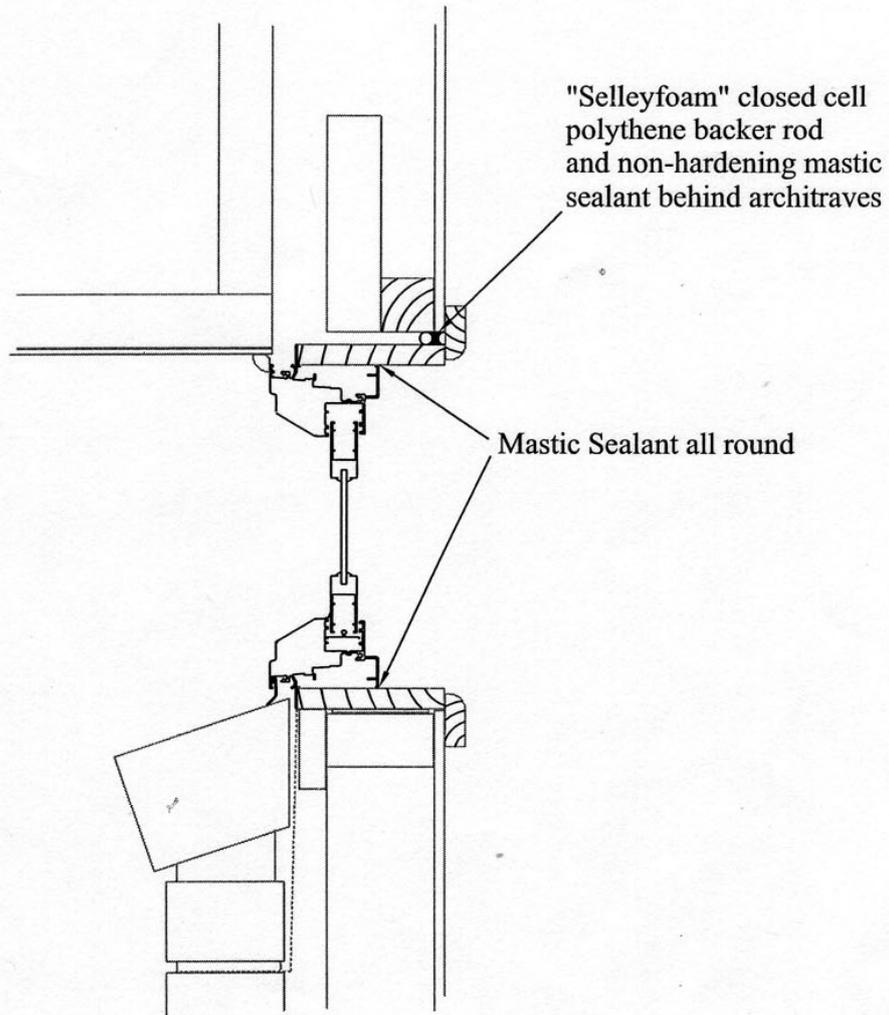
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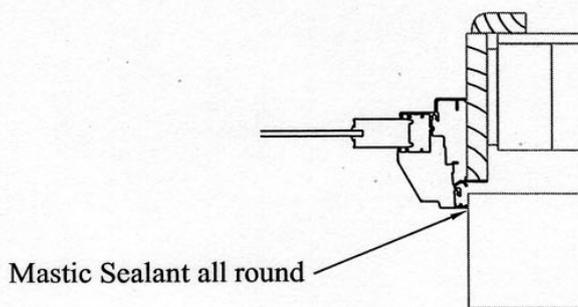
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ELEVATION



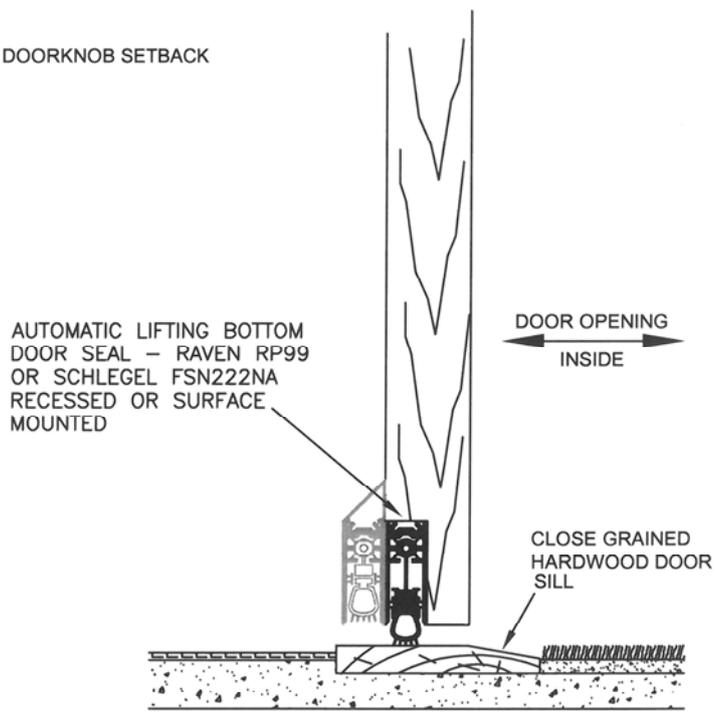
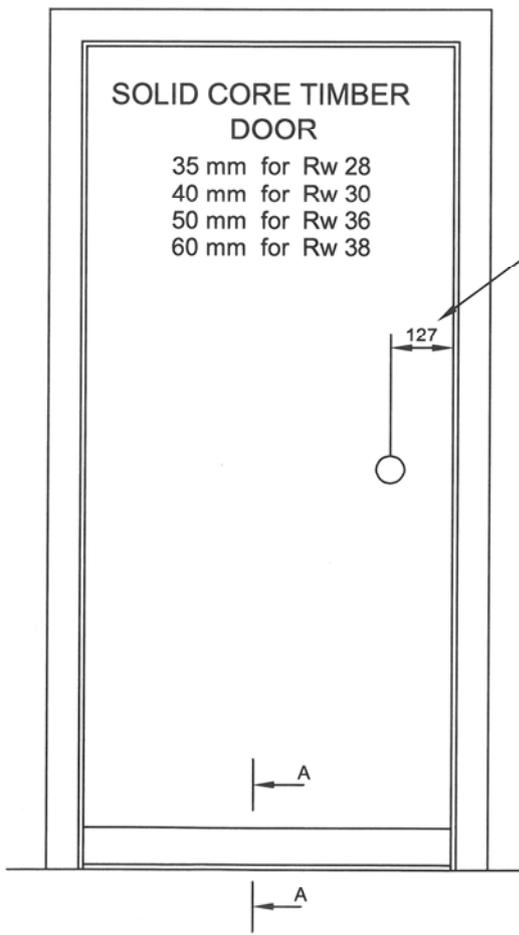
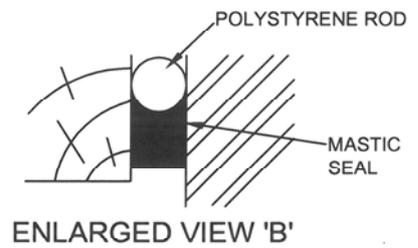
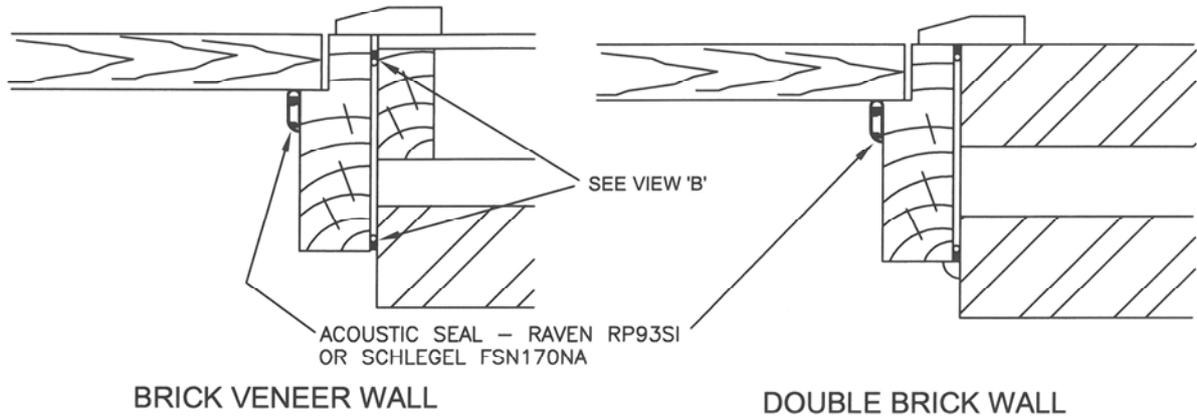
PLAN

BRICK VENEER WALL



SOUND RATED TIMBER DOOR

AC809-5D





Bushfire Assessment

Residential Subdivision

**40-52 Hulls Road & 15
George Road, Leppington**

Hulls Road 52 Pty Ltd

13 May 2022

(Ref: 22034)

report by
david peterson

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FPA AUSTRALIA (NO. BPAD18882)
BPAD LEVEL 3 ACCREDITED PRACTITIONER
ABN 28 607 444 833

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1 Introduction

Street or property name:	40-52 Hulls Rd & 15 George Rd	
Suburb, town or locality:	Leppington	Postcode: 2179
Lot/DP no:	Lots 6 & 7 DP 858010 and Lots 10 & 11 DP 1164955	
Local Government Area:	Camden	
Type of development:	Residential subdivision	

1.1 Background

Hulls Road 52 Pty Ltd commissioned Peterson Bushfire to prepare a Bushfire Assessment Report for a proposed residential subdivision located on bushfire prone land in Leppington, south-west Sydney. This report presents the assessment and recommendations to ensure compliance with the relevant bushfire protection legislation and policy.

This bushfire assessment has been prepared by a consultant accredited by the Fire Protection Association of Australia's BPAD scheme (Accreditation No. BPD-L3-18882).

1.2 Location of subject land and description of proposal

The subject land is located between Hulls Road, George Road and Camden Valley Way, Leppington as shown on Figure 1. Consisting of four lots, the subject land is approximately 8 hectares in size and supports four dwellings and various outbuildings.

The subject land is located within the Leppington Precinct of the South West Growth Centre. The subject land and adjoining properties will be developed to create a 'managed' environment in accordance with the Leppington Precinct Indicative Layout Plan (ILP).

The proposal consists of the subdivision of the subject land into residential lots and public roads. The plan of subdivision is included as Figure 2.

1.3 Assessment requirements

The subject land is identified as 'bushfire prone land' on the Camden Bushfire Prone Land Map (refer to Figure 3). Section 4.46 *Environmental Planning and Assessment Act 1979* requires a bushfire assessment of residential subdivision proposals on bushfire prone land following the process and methodology set out within Section 100B of the *Rural Fires Act 1997*, Clause 44 of the *Rural Fires Regulation 2013* and the NSW Rural Fire Service (RFS) document *Planning for Bush Fire Protection 2019* (referred to as 'PBP' throughout this report).



Legend

-  Subject Land
-  Watercourse
-  Contour - 2m


 **DKGIS**
 Date: 28/03/2022

 0 50 100 200
 Metres

Figure 1: Location

Coordinate System: GDA 1994 MGA Zone 56

Imagery: © Nearmap



Legend

-  Subject Land
-  Cadastre



Date: 13/05/2022



Coordinate System: GDA 1994 MGA Zone 56

Imagery: © Nearmap

Figure 2: Proposal



Legend

- | | | | |
|---|----------------------------|---|-----------------------|
|  | Subject Land |  | Vegetation Category 1 |
|  | Cadastre |  | Vegetation Category 2 |
|  | Bushfire Prone Land |  | Vegetation Category 3 |
|  | Vegetation Buffer | | |



DKGIS
 Date: 28/03/2022

 0 50 100 200
 Metres

Figure 3: Bushfire Prone Land

Coordinate System: GDA 1994 MGA Zone 56

Imagery: © Nearmap

2 Bushfire hazard

An assessment of the bushfire hazard is necessary to determine the application of bushfire protection measures such as Asset Protection Zone (APZ) location and dimension. The following sub-sections provide a detailed account of the vegetation communities (bushfire fuels) and the topography (effective slope) that combine to create the bushfire hazard that may affect bushfire behaviour at the site.

2.1 Predominant vegetation

The vegetation within 140 m of the subject land has been assessed in accordance with the methodology specified within PBP. Figure 4 maps the current and future distribution of the identified hazards and a description of the hazards is provided below.

Grassland to the north and west

Unmanaged properties to the north of George Road and west of Hulls Road are classified as a grassland hazard where unmaintained as mapped on Figure 4. The land currently and historically has been underutilised allowing grass growth subject to grazing only.

Woodland to the south

Woodland exists to the south which will most likely be retained within the open space in accordance with the Leppington ILP.

The remaining surrounding lands present an intensive land use that allows a 'managed land' classification.

2.2 Effective slope

The 'effective slope' influencing fire behaviour has been assessed in accordance with the methodology specified within PBP. This is conducted by measuring the slope that would most significantly influence fire behaviour where the hazard occurs within 100 m of the subject land. The slope was determined using a 2 m contour layer as shown on Figure 4.

The slope underneath the identified grassland hazards to the north and west are within the PBP slope class of 'downslope 0-5 degrees'. The slope underneath the woodland hazard to the south is within the slope class of 'downslope 5-10 degrees'. The slope classes are identified on Figure 4.



Legend

Subject Land

Vegetation Assessment - 140m

Watercourse

Contour - 2m

Vegetation Formation

Grassland

Woodland

Low Threat

Managed Land

Asset Protection Zone - 12m



Date: 13/05/2022



Coordinate System: GDA 1994 MGA Zone 56

Imagery: © Nearmap

Figure 4: Bushfire Hazard Assessment with Asset Protection Zone

3 Bushfire protection measures

PBP requires the assessment of a suite of bushfire protection measures that in total provide an adequate level of protection for residential subdivision. The measures required to be assessed are listed in Table 1 below and are discussed in detail in the remainder of this section.

Table 1: PBP bushfire protection measures

Measures	Considerations
Asset Protection Zones (APZ)	Location and dimension of APZ building setbacks from vegetation including prescriptions of vegetation management within the APZ.
Access	Assessment to include access and egress, perimeter access and design standards of public roads.
Water supply and other utilities	List requirements for reticulated water supply and hydrant provisions, and any static water supplies for fire-fighting.

3.1 Asset Protection Zones (APZ)

Using the vegetation and slope information presented in Section 2 and mapped on Figure 4, Asset Protection Zones (APZ) suitable for residential subdivision have been calculated. The APZs are mapped on Figure 4 and listed within Table 2 below.

The required APZs are currently in place as existing managed lands including roads. Additional APZ establishment is not required.

Table 2: APZ determination

Location ¹	Vegetation ²	Slope ³	Required APZ ⁴	APZ provided	How will the APZ be accommodated
North	Grassland	Downslope 0-5°	12 m	>12 m	George Road
West	Grassland	Downslope 0-5°	12 m	>12 m	Hulls Road
South	Woodland	Downslope 5-10°	20 m	>60 m	Managed property adjoining

¹ Direction of assessment from subject land. Refer to Figure 4.

² Predominant vegetation classification over 140 m from subject land.

³ Effective slope assessed over 100 m from subject land where the bushfire hazard occurs.

⁴ APZ required by Table A1.12.2 of Planning for Bush Fire Protection 2019.

3.2 Vegetation management

Earthworks and construction of the subdivision will ensure the subject land complies with the performance objectives of an Inner Protection Area (IPA) as described by Section A4.1.1 of PBP.

Maintenance of proposed lots and roads, including the installation of landscaping such as street trees, are to achieve the principles listed in Section A4.1.1 of PBP.

3.3 Access

Alternate access and egress

PBP requires an access design that enables safe evacuation whilst facilitating adequate emergency and operational response. All bushfire prone areas should have an alternate access or egress option depending on the bushfire risk, the density of the development, and the chances of the road being cut by fire for a prolonged period.

Initially, the access to the subdivision will be from two access points to George Road to the north and one access point to Hulls Road to the west. Three additional access points to the south will be provided in accordance with the Leppington Precinct ILP once the adjoining lands are developed.

The subdivision layout satisfies PBP access objectives in relation to access and egress.

Perimeter access

George Road and Hulls Road act as the perimeter roads to the identified hazards.

The subdivision layout satisfies PBP access objectives in relation to perimeter access.

Design and construction standards

The proposed roads will comply with the Camden Growth Centre Precincts Development Control Plan (DPE 2016). The roads will be 'Local Street' standard with 9 m carriageways.

The road typology complies with the PBP Acceptable Solutions (Table 5.3b of PBP) for the design and construction of non-perimeter roads in bushfire prone areas as listed below. An exemption is to be applied to Point 6 whereby a temporary turning head in accordance with the DCP is to be provided at the end of the road in the southern corner of the subject land.

PBP design standards for roads servicing residential subdivision:

1. *Property access roads are two-wheel drive, all weather roads.*
2. *Perimeter roads are provided for residential subdivisions of three or more allotments.*
3. *Subdivisions of three or more allotments have more than one access in an out of the development.*
4. *Traffic management devices are constructed to not prohibit access by emergency service vehicles.*

5. *Maximum grades for sealed roads do not exceed 15 degrees and an average grade of not more than 10 degrees or other gradient specified by road design standards, whichever is the lesser gradient.*
6. *All roads are through roads. Dead end roads are not recommended, but if unavoidable, dead ends are not more than 200 metres in length, incorporate a minimum 12 metres outer radius turning circle, and are clearly sign posted as a dead end.*
7. *Where kerb and guttering is provided on perimeter roads, roll top kerbing should be used to the hazard side of the road.*
8. *Where access/egress can only be achieved through forest, woodland or heath vegetation, secondary access shall be provided to an alternate point on the existing public road system.*
9. *The capacity of perimeter and non-perimeter road surfaces and any bridges and causeways is sufficient to carry fully loaded firefighting vehicles (up to 23 tonnes); Bridges/causeways to clearly indicate load rating.*
10. *Hydrants are located outside of parking reserves and road carriageways to ensure accessibility to reticulated water for fire suppression.*
11. *Hydrants are provided in accordance with AS 2419.1:2005.*
12. *There is suitable access for a Category 1 fire appliance to within 4 m of the static water supply where no reticulated supply is available.*
13. *Non-perimeter roads are:*
 - a) *Minimum 5.5 m width kerb to kerb;*
 - b) *parking is provided outside of the carriageway width;*
 - c) *hydrants are located clear of parking reserves;*
 - d) *there are through roads, and these are linked to the internal road system at an interval of no greater than 500 m;*
 - e) *curves of roads have a minimum inner radius of 6 m;*
 - f) *the road crossfall does not exceed 3°;*
 - g) *a minimum vertical clearance of 4 m to any overhanging obstruction, including tree branches, is provided.*

3.4 Water supply and utilities

Water supply

The development will require fire hydrants to be installed to comply with *AS 2419.1 – 2005 Fire Hydrant Installations - System Design, Installation and Commissioning* (AS 2419) so that all sides of a building envelope are within 70 m of a hydrant by lay of the hose (or 90 m with a tanker parked in-line maximum 20 m from the hydrant).

Electricity supply

Electricity will be provided below ground, therefore complying with PBP.

Gas supply

Any gas services are to be installed and maintained in accordance with *AS/NZS 1596-2014 The storage and handling of LP gas*.

4 Conclusion and recommendations

4.1 Summary

The proposal consists of a residential subdivision in the Leppington Precinct of the South West Growth Centre. The bushfire hazard consists of grassland areas and woodland that are separated from the subject land by managed land. The required APZs will be accommodated by the existing road layout and managed lands.

The proposed roads comply with the Camden Growth Centre Precincts Development Control Plan which also achieve compliance with PBP.

4.2 Conclusion

This report presents an assessment of a residential subdivision at 40-52 Hulls Road and 15 George Road, Leppington. The assessment demonstrates that the proposal, together with the recommendations (see below), complies with *Planning for Bush Fire Protection 2019*.

4.3 Recommendations

The recommendations made within this assessment are repeated below:

1. Maintenance of proposed lots and roads, including the installation of landscaping such as street trees, are to achieve the principles listed in Section A4.1.1 of PBP.
2. A temporary turning head in accordance with the Camden Growth Centre Precincts Development Control Plan (DPE 2016) is to be provided at the end of the road in the southern corner of the subject land.
3. The subdivision will require fire hydrants to be installed to comply with AS 2419.1 – 2005 *Fire Hydrant Installations - System Design, Installation and Commissioning* (AS 2419).
4. Any gas services are to be installed and maintained in accordance with AS/NZS 1596-2014 *The storage and handling of LP gas*.



David Peterson



References

Department of Planning and Environment (DPE) 2016. *Liverpool Growth Centre Precincts Development Control Plan*.

NSW Rural Fire Service (RFS). 2019. *Planning for Bush Fire Protection: A Guide for Councils, Planners, Fire Authorities and Developers*. State of New South Wales through the NSW Rural Fire Service.

Standards Australia. 2005. *Fire hydrant installations - System design, installation and commissioning*, AS2419.1, Fourth edition 2005, Standards Australia International Ltd, Sydney.

Standards Australia. 2014. *The storage and handling of LP Gas*, AS/NZS 1596-2014, Standards Australia International Ltd, Sydney.



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Fax: (02) 9679 8744

Report

Salinity Management Plan

Proposed Residential Subdivision Development

Lot 6 to 7 DP 858010 and Lot 10 to 11 DP 1164955

No 40-52 Hulls Road and No 15 George Road

Leppington NSW

Prepared for:

Hulls Road 52 Pty Ltd atf Crown Trust 55

C/- Mott MacDonald Pty Ltd

PO Box Q1678

QVB SYDNEY NSW 1230

Ref: JC22432A-r5

November 2022



GeoEnviro Consultancy Pty Ltd

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1st November 2022

Our Ref: JC22432A-r5

Hulls Road 52 Pty Ltd atf Crown Trust 55
C/- Mott MacDonald Pty Ltd
PO Box Q1678
QVB SYDNEY NSW 1230

Attention: Mr Reece McNeill

Dear Sir

**Re: Salinity Management Plan
Proposed Residential Subdivision Development
Lot 6 to 7 DP 858010 and Lot 10 to 11 DP 1164955,
No 40-52 Hulls Road and No 15 George Road Leppington NSW**

Further to our Salinity and Geotechnical Investigation Report (referenced JC22432A-r2 dated June 2022), this report presents our Salinity Management Plan (SMP) for the above site.

Should you have any queries, please contact the undersigned.

Yours faithfully,
GeoEnviro Consultancy Pty Ltd

Solern Liew BE CPEng NER CEnvP
Director

Steven Goss BE MIEAust
Environmental Scientist



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Document Control

Document Details	
Job No	JC22432A
Revision	r5
Title	Salinity Management Plan Proposed Residential Subdivision Development Lot 6 to 7 DP 858010 and Lot 10 to 11 DP 1164955, No 40-52 Hulls Road and No 15 George Road Leppington NSW
Address	No 40-52 Hulls Road and No 15 George Road Leppington NSW
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1. INTRODUCTION

This report presents the results of our Salinity Management Plan for the site located at No 40-52 Hulls Road and No 15 George Road in Leppington and identified as Lot 6 to 7 DP 858010 and Lot 10 to 11 DP 1164955 (the Subject Site) as shown on Drawing No. 1.

We understand that the proposed development will include subdivision of the site for residential allotments and construction of roads.

The site was the subject of a salinity and geotechnical investigation undertaken by GeoEnviro and this was compiled in our report referenced JC22432A-r2 dated June 2022 (Reference 1).

The objective of this SMP was to provide a salinity management strategy to mitigate potential adverse impact of saline soils on the proposed development.

2. SITE INFORMATION

2.1 Site Location

The Subject Site consists of four properties as follows;

- Lot 6 DP 858010, No 40 Hulls Road Leppington
- Lot 7 DP 858010, No 46 Hulls Road Leppington
- Lot 10 DP 1164955, No 52 Hulls Road Leppington
- Lot 11 DP 1164955, No 15 George Road Leppington

The site is roughly trapezoidal in shape and is bound by Hulls Road to the west, George Road to the north and Camden Valley Way to the east. The site measures about 195m along the Hulls Road frontage, about 360m along the George Road frontage and about 290m along the Camden Valley Way frontage. The total site area is about 7.9 hectares. We note that two areas across the site were inaccessible at the time of the investigation.

Refer to Drawing No 1 for site locality. The site is within the jurisdiction of The Camden Council.

2.2 Site Topography

The site is situated on gently undulating terrain with ground surface within the site sloping between 0 to 5 degrees towards the north west. Based on Google Earth, the ground surface within the site ranges in elevation from about 116 m in the north western corner to 124 m above sea level along the eastern site boundary.

2.3 Ground Cover and Salinity Indicators

The site comprised predominantly of grassy areas with some dirt/gravel access ways. Some areas were found to be wet due to recent extreme and prolonged wet weather conditions.

The site generally appeared reasonably well drained with no visible signs of permanent water-logged areas, groundwater or “springs”.

There were no obvious signs and indicators of salinity impacts such salt crystals on the surface, salt attacks and markings on existing building footings and vegetation distress.

2.4 Soil Landscape and Geological Setting

The 1:100,000 Soil Landscape of Penrith (Reference 3) prepared by the Soil Conservation Services of NSW indicates the site to be underlain by Residual soil belonging to the Blacktown landscape group (ref. 9030bt). Blacktown Landscape Group Soils typically consists of low permeability, highly plastic and moderately reactive soil. Refer to Drawing No 2.

The 1:100,000 Geological Map of Penrith (Reference 4) indicates the majority of the site to be underlain by Bringelly shale of the Wianamatta Group consisting of shale, carbonaceous claystone, claystone, laminite, fine to medium grained lithic sandstone, rare coal and tuff. Refer to Drawing No 3 for Geological Map.

2.5 Hydrology and Hydrogeology

Topography, surface cover and geology control the hydrogeology of the site. It is anticipated that the majority of rainfall runoff will flow into the series of dams that run across the site in a north westerly direction which flows north into a tributary of Kemps Creek.

Groundwater is also expected to flow in a general direction towards the north and north west to the tributary of Kemps Creek. Due to the anticipated relatively impervious nature of the underlying subsurface soil and bedrock, rainfall runoff infiltrating through the subsurface soil and expected bedrock profiles is expected to be minimal.

Based on our local knowledge and previous investigation of the general surrounding area, we expect regional groundwater to be at a significant depth (i.e. in excess of 3 m from ground surface) however localised perched groundwater may be present in areas of fill or in close proximity to the series of dams.

Our search of the NSW Department of Primary Industries groundwater database conducted on 22nd June 2022 indicates no groundwater bores within 1km from the Subject Site.

Groundwater is not considered to be a significant resource for the general area based on the presence of reticulated water supply.

2.6 Soil Salinity Map

Based on Salinity Potential in Western Sydney 2002 prepared by the Western Sydney Regional Organisation of Councils Ltd (Reference 3), the site is situated in an area with a moderate salinity potential. Refer to Drawing No 4 for soil salinity map.

2.7 Acid Sulphate Soil Map

Based on acid sulfate soil risk maps prepared by the Department of Planning and Environment, the site is situated in an area with no known occurrence or probability of acid sulfate soils.

2.8 Site Description

A site visit was carried out on the 16th, 17th and 24th May 2022 by an environmental scientist to observe existing site features and identify obvious or suspected areas of potential contamination. Reference should be made to Drawing No 1 for site locality and features plan.

At the time of our site investigation, the Subject Site consisted of several residential dwellings and sheds along the Hulls Road frontage and George Road frontage with the remaining majority of the site comprising of grassy areas with several dams, metal sheds and scattered trees.

The following is a brief description of the site features.

No 42 Hulls Road, Leppington	
Site Feature	Description
A1	Single storey residential dwelling with car port. The area to the rear comprised of a water tank, scattered surface waste, a shipping container and a metal shed.
B1	Gravel Driveway
C1	Septic tank
D1	Fibro garage/structure with an area at the rear used for rubbish
E1	Disused metal greenhouse structure
F1	Septic Bed (Unable to access)
G1	Pile of wooden logs and a metal tank
H1	Disused shaded area with metal poles and shade mesh.
I1	Dam
J1	Transmission Tower
K1	Previous Septic Area (based on interview with owner)
L1	Old Burial Area (based on interview with owner)
M1	Previous structures (possibly greenhouses) (Circa 1978)

No 46 Hulls Road, Leppington	
A2	Single Storey Brick residential dwelling with a concrete driveway and gravel areas and a pool to the rear.
B2	Brick garage/structure. The sides were used for storage.
C2	Single Storey Brick residential dwelling with a concrete driveway.
D2	Metal Shed / Tool Shed
E2	Dam
F2	Dam Embankment with service running through
G2	Transmission Pit
H2	Pile of green waste including tree trunks, branches and sticks.
I2	Gravel pile with timber planks
J2	Possible underground service (Circa 1978)
K2	Previous Shed (Circa 1978-2005)
L2	Previous land disturbance (Circa 1998 and 2012)

No 52 Hulls Road Leppington	
A3	Double Storey Brick residential dwelling with a pool to the rear
B3	Single Storey Brick residential dwelling with dirt driveway
C3	Metal Shed with areas to park vehicles (cars and caravans) , machinery and storage areas.
D3	Dam
E3	Area with several parked vehicles and caravans, a shipping container, some surface waste and two sheds/shelter
F3	Fill Mound with rubbish inclusions (about 2-3m tall). Rubbish/ Waste was observed on the surface along the existing tree line to the west.
G3	Possible buried carcass
H3	Dam
I3	Inaccessible area
J3	Land disturbance and fill mounds (circa 1986)

No 15 George Road, Leppington	
A4	Single Storey brick residential dwelling with a concrete driveway and a pool at the rear.
B4	Metal Shed
C4	Single Storey brick residential dwelling with a concrete driveway
D4	Metal Sheds / Garage with a shelter and tool shed at the rear.
E4	Stockpile / Fill Mound
F4	Metal Shed
G4	Several Metal and Timber Sheds for storage and animals (goat)
H4	Fill Mound
I4	Dam
J4	Dam Embankment (Unable to access)
K4	Disused Greenhouse frame structure
L4	Previous shed (Circa 1978)

3. SALINITY INVESTIGATION

Field investigation included excavation of test pits using a rubber tyred backhoe on 16th, 17th and 24th May 2022. Ninety-eight test pits (identified as TP 1 to TP98) were excavated across the site at accessible locations. We note that site access to two areas (Site Feature I3 and J4) were limited at time of the investigation. The test pit locations are shown on Drawing No 5.

The test pits were excavated to depths varying from 0.2 m to 3.4 m below existing ground surface. The test pits were observed for groundwater during and upon completion of the excavation. The field results together with details of the strata encountered are presented in Table 1.

To assess the strength of the subsurface soil, hand penetrometer tests were carried on the test pit walls. The test pits were observed for groundwater during and upon completion of the excavation. The field results together with details of the strata encountered are presented in Table 1.

Environmental soil samples were collected in duplicate from surface and at lower depths. Disturbed samples were taken from the site to our laboratory for analysis. GeoEnviro Consultancy's standard procedures were used for sampling and more information on the procedures adopted is provided in Appendix A.

Samples were analysed for the following;

- pH
- Electrical Conductivity (Ec)
- Cation Exchange Capacity (CEC)
- Exchangeable Sodium Percentage (ESP)
- Chloride (Cl)
- Sulphate (S04)
- Resistivity
- Emerson Dispersion
- Particle Size Distribution

Emerson and Particle Size analysis was carried out in our NATA accredited laboratory. The salinity analysis was carried out by Envirolab Services. The laboratory test reports for the salinity assessment are attached in Appendix B of this report

4. SUBSURFACE CONDITIONS

Reference should be made to the attached Table 1 in Appendix A for a summary of subsurface profiles encountered from the test pit investigation and Drawing No 5 for test pit location plan. The following is a summary of the subsurface profiles encountered in the test pits;

Fill

Fill was encountered in several areas across the site as follows:

- **Fill Mound (Site Feature H4)** - TP 2 was found to encounter Silty Clay Fill with gravel and some porcelain fragments. The fill was found to be about 900mm thick and assessed to be moist to wet.
- **Fill Mound (Site Feature E4)** - TP 14 was found to encounter Silty Clay/Clayey Silt Fill with siltstone gravel inclusions. The fill was found to be about 1.2m thick and assessed to be moist.
- **Previous Land Disturbance on No 52 Hulls Road (Site Feature J3)** – Fill was encountered in TP 29 to 33, 35 to 37 and 39 to 43 comprising predominantly of Silty Clay Fill with varying gravel inclusions and a Silty Clay/Clayey Silt mixture except for TP33 which comprised of coal wash.

Foreign material including wire, pvc, metal, plastic, brick, tile and glass fragments, sandstone cobbles, timber pieces and concrete pieces were encountered in TP31, 32, 35, 36, 39, 40, 41, 42, 43. Fibre cemented fragments was encountered within the fill in TP 40.

The fill was found to have thickness ranging from 150mm to greater than 2.3m and generally assessed to be moist to wet. TP 30 and 42 were terminated on fill at 1.8m and 0.7m respectively below ground surface due to trapped water and TP39 refused at a depth of about 2.3m below existing ground surface on rubbish fill.

- **Previous Land Disturbance on No 46 Hulls Road (Site Feature L2)** – TP 65 was found to encounter Silty Clay/Clayey Silt Fill with gravel and topsoil. The fill was found to be about 900mm thick and assessed to be moist to wet.

- **Driveway (Site Feature C3 and B1)** - TP47 and 89 was found to encounter Gravelly Silt Fill and Crushed rock (possibly coal wash) with a thickness of about 200mm and 250mm respectively.
- **Previous Shed/Structures (Site Feature K2)** – TP 68 was found to encounter a Silty Clay/Clayey Silt fill mixture with gravel. The fill was found to have a thickness of about 800mm thick and assessed to be moist.
- **Possible underground service (Site Feature J2)** – TP 69 was found to encounter Gravelly Silty Fill with a thickness of about 300mm. The fill was assessed to be moist.
- **Dam Embankment (Site Feature I1)** – TP 81 and 82 was found to encounter moist to wet Clayey Silt with a thickness of about 300mm and 350mm respectively. Underlying the Clayey Silt was Silty Clay Fill with gravel inclusions. The Silty Clay fill was found to be about 700mm and 850mm thick and generally assessed to be moist.
- **All other areas** – Fill was encountered in other areas across the site in TP5, 70, 85, 87, 97 consisting of clays and silts with variable gravel inclusions. The fill was found to have thicknesses ranging from 300mm to 1.1m thick.

Topsoil and Topsoil/Fill

Topsoil and Topsoil/fill was encountered on the surface and under fill in all test pits except TP30, 31, 32, 39, 42, 47, 49, 68, 69, 85, 89 and 97 consisting predominantly of low liquid limit Clayey Silt with variable gravel inclusions. Thickness of the topsoil was found to range from 200mm to 400mm and generally assessed to be moist to wet. We note thicker topsoil was encountered in TP39 with about 1.1m thick.

Coal was encountered in TP 51, 55 and 62 and other foreign inclusions such as brick fragments and plastic were encountered in TP 71 and 92

Natural Soil

Natural soil consisting generally of medium to high plasticity Silty Clay was encountered below the topsoil and fill in all test pits except TP30, 39, 42, 47, 48, 68, 69 and 70. The plasticity of clay generally reduces to medium at lower depths.

Based on the hand penetrometer test results, the natural clay was generally assessed to be very stiff and moist (ie moisture content approximately less than or equal to the plastic limit).

Some weak clays (i.e. stiff to very stiff and moist to wet) were encountered in TP 7, 8, 9, 12, 13, 19, 20, 25, 26, 32, 40, 41, 60, 65, 73, 75, 78, 79, 80, 83, 84, 87, 88, 89, 90, 93, 94, 95, 96, 97 and 98 generally to depths of up to 1.0m below existing ground condition. We note that deeper soft subgrade was encountered in TP 30, 32, 40 and 97 to depths of greater than 2.6m below existing ground surface however these areas were found to encounter fill with thicknesses ranging from 0.9m to greater than 1.8m thick.

Bedrock

Bedrock consisting of Siltstone and Shale was encountered in TP 2, 5, 7, 14, 17, 25, 29, 57, 74, 78, 86, 91 and 98 at depths generally ranging from 0.9m to 2.5m below existing ground surface. We note that TP2 was excavated on a 900mm thick fill mound and bedrock was encountered at a depth of 3.1m below the existing ground surface. The bedrock was subjectively assessed to be extremely weathered to distinctly weathered and have low to medium strength.

Groundwater

Groundwater was not encountered in any of the test pits during the investigation. We note that some test pits (i.e. TP 7, 8, 9, 12, 13, 19, 20, 25, 26, 30, 32, 40, 41, 60, 65, 73, 75, 78, 79, 80, 83, 84, 87, 89, 90, 93 to 98) were found to be moist to wet to depths generally ranging from 0.3m to greater than 1.3m m below existing ground condition.

and trapped water was found within the fill in TP 30 and 42. The test pits were taken to a maximum depth of 3.4m below existing ground level, therefore, the depth to groundwater is expected to exceed this depth.

5. POLICIES AND GUIDELINES

5.1 Urban Salinity and Proposed Development

We understand that the proposed development will include the following;

- Bulk earthworks to regrade the site to design levels.
- Construction of roads including footpaths and pedestrian pavements.
- Laying of underground services including drainage pipes, sewer pipes, water supply pipes, gas pipes and conduits (electrical and telecommunication).
- Construction of water detention structures and basins.
- Formation of parklands and reserves.
- Construction of retaining walls and other amenities buildings.

Salinity refers to the presence of excess salt in the environment and is able to occur if salts which are naturally found in soil or groundwater mobilise, allowing capillary rise and evaporation to concentrate the salt at the upper subsurface soil profile. Such movements are caused by changes in the natural water cycle. In urban areas, the processes which cause salinity are intensified by the increased volumes of water added to the natural system from irrigation of gardens, lawn and parks and from leaking infrastructures (eg pipes, sewer, stormwater, etc) and pool.

In recognition of the potential adverse impact of salinity to development, the Western Sydney Regional Organisation of Councils Ltd has a Salinity Code of Practice (Reference 5) to address the issue of salinity. It was acknowledged in the Code that salinity problems can change substantially over time and it is difficult to predict exactly where salinity will occur and how it will respond to the changing environment conditions.

5.2 Salinity Management Policy and Objectives

The salinity management policy to be adopted is as follows;

- The development of the site is carried out within the objectives and framework adopted by the Western Sydney Salinity Code of Practice. (Reference 5)
- The saline environment does not adversely impact on private and public assets.
- Adequate documentation and monitoring works are in place and appropriate management practices are adopted.

The main objectives of this Salinity Management Plan (SMP) were to;

- Identify potential impacts of saline environment on the site during and after construction.
- Establish responsibilities and procedures for the various parties involved in the proposed development.
- Establish procedures to review the implementation process and corrective actions to improve the performance.

5.3 Guidelines and Code of Practice

The fundamental criterion for assessing soil salinity is based on Electrical Conductivity (Reference 2).

Class	EC _e (ds/m)
Non-Saline	<2
Slightly Saline	2-4
Moderately Saline	4-8
Very Saline	8-16
Highly Saline	>16

Soil dispersion relates to stability of the soil in the presence of water. The following is a measure of soil dispersion;

Emerson Class No	Dispersibility
1	Very High
2	High
3	Moderate to High
4	Moderate
5 and 6	Slight
7 and 8	Negligible/Aggregated

Sodic soils are dispersible and are vulnerable to erosion and tunnelling. Sodicty is a measure of Exchangeable Sodium Percentage (ESP) and Cation Exchangeable Capacity (CEC).

Sodic soils are dispersible and are vulnerable to erosion and tunnelling. Sodicty is a measure of Exchangeable Sodium Percentage (ESP) and Cation Exchangeable Capacity (CEC).

The following is a measure of soil sodicty;

ESP (%)	Rating
Less than 5	Non-Sodic
5 to 15	Sodic
Greater than 15	Highly Sodic

The measure of Cation Exchangeable Capacity is as follows;

CEC (cmol ⁺ /kg)	Rating
Less than 6	Very Low
6 to 12	Low
12 to 25	Moderate
25 to 40	High
Greater than 40	Very High

In addition to the above, the presence of Sulphate and Chloride in the soil has the potential to cause high soil aggressivity to concrete and steel structures, in particular if the structures are in direct contact with the soil. The following is a measure of soil aggressivity to concrete based on the Australian Standard (Reference 7).

Sulfates (expressed as SO ₄)		pH	Chloride in Groundwater ppm	Soil Conditions A*	Soil Conditions B#
In Soil ppm	In Groundwater ppm				
<5000	<1000	>5.5	<6000	Mild	Non-aggressive
5000-10 000	1000-3000	4.5-5.5	6000-12 000	Moderate	Mild
10 000-20 000	3000-10 000	4-4.5	12 000-30 000	Severe	Moderate
>20 000	>10 000	<4	>30 000	Very Severe	Severe

Approximate 104ppm of SO₄=80ppm of SO₃

* Soil condition A = High permeability soils (eg sands and gravels) which is below groundwater

Soil conditions B = Low permeability soils (eg silts and clays) and all soils above groundwater

The following is a measure of soil aggressivity to steel piles based on the Australian Standard (Reference 7).

pH	Chlorides (Cl)		Resistivity ohm.cm	Soil Conditions A*	Soil Conditions B#
	In Soil ppm	In Groundwater ppm			
>5	<5000	<1000	>5000	Non-aggressive	Non-aggressive
4-5	5000-20 000	1000-10 000	2000-5000	Mild	Non-aggressive
3-4	20 000-50 000	10 000-20 000	1000-2000	Moderate	Mild
<3	>50 000	>20 000	<1000	Severe	Moderate

* Soil condition A = High permeability soils (eg sands and gravels) which is below groundwater

Soil conditions B = Low permeability soils (eg silts and clays) and all soils above groundwater

In addition to the above, the AS 3600-2018 "Concrete Structures" (Referenced 10) outlines an exposure classification for concrete in sulfate soils as follows;

Exposure Conditions			Exposure Classification	
Sulphate (expressed as SO ₃)		pH	Soil Conditions A*	Soil conditions B#
In Soil ppm	In Groundwater ppm			
<5000	<1000	>5.5	A2	A1
5000-10 000	1000-3000	4.5-5.5	B1	A2
10 000-20 000	3000-10 000	4-4.5	B2	B1
>20 000	>10 000	<4	C2	B2

Approximate 100ppm of SO₄=80ppm of SO₃

* Soil condition A = High permeability soils (eg sands and gravels) which is below groundwater

Soil conditions B = Low permeability soils (eg silts and clays) and all soils above groundwater

6. LABORATORY TEST RESULTS

The following is a summary of the laboratory test results;

6.1.1 Laboratory Test Results

The following is a summary of the laboratory test results;

Sample	Depth (m)	pH	ECe dS/m	Cl mg/kg	SO4 mg/kg	Resistivity ohm cm	CEC meq/100g	ESP %
TP 2	0.4-0.5	5.3	0.40	<10	37	24000		
	1.5-1.6	5.3	1.50	150	180	4300		
	2.7-2.8	5	3.30	480	67	2300		
TP 5	0.1-0.2	5.8	0.29	<10	10	34000		
	0.6-0.7	5.3	0.51	10	100	13000		
	1.4-1.5	5.5	0.66	10	71	11000		
TP 7	0-0.1	5.9	0.29					
	0.5-0.6	6	0.48	<10	65	14000		
	1.4-1.5	5.2	0.98	20	180	7800		
TP 11	0.1-0.2						9.6	[NT]
TP 14	0.6-0.7	6.6	0.40	<10	<10	25000		
	1.6-1.7	5.2	0.85	10	200	7500		
	2.3-2.4	5.2	2.40	190	240	3100		
TP 17	0-0.1	5.4	0.43					
	0.8-0.9	5.0	0.98	65	150	6500		
	1.9-2	4.7	4.43	540	270	1700		
TP 18	0-0.1						14	2
TP 25	0.1-0.2	5.7	0.08				5.2	4
	0.5-0.6	4.8	3.25	520	140	2000		
	1.8-1.9	4.7	4.43	580	170	1700		

Note: ECe – Electrical Conductivity (dS/m)
Cl – Chloride (mg/kg)
SO4 – Sulphate (mg/kg)
CEC – Cation Exchange Capacity
ESP – Exchangeable Sodium Percentage

	Class	EC _e (ds/m)
	Non-Saline	<2
	Slightly Saline	2-4
	Moderately Saline	4-8
	Very Saline	8-16
	Highly Saline	>16

Sample	Depth (m)	pH	ECe dS/m	Cl mg/kg	SO4 mg/kg	Resistivity ohm cm	CEC meq/100g	ESP %
TP 29	0.3-0.4	5.2	0.55	10	53	17000		
	0.8-0.9	5.4	0.59	10	120	11000		
	1.4-1.5	5.2	1.05	83	59	7300		
TP 33	0.6-0.7	5.1	1.71	73	180	5700		
	1.9-2	4.7	4.43	670	100	1700		
TP 38	0.2-0.3	6.3	0.35					
	0.5-0.6	5.2	1.82	150	260	3600		
	1.5-1.6	5.1	2.33	200	150	3200		
TP 45	0-0.1						14	<1
TP 50	0-0.1	5.9	0.25					
	0.4-0.5	5.5	0.34	10	32	19000		
	1.5-1.6	4.7	3.60	420	190	2100		
TP 57	0-0.1	5.6	0.21					
	0.4-0.5	5.7	0.21	<10	22	31000		
	1.6-1.7	5.0	1.80	180	77	4100		
TP 59	0.1-0.2						7.5	2
TP 60	0-0.1	5.8	0.71					
	0.4-0.5	5.2	1.82	150	200	3500		
	1.8-1.9	5.0	2.93	280	160	2600		
TP 63	0-0.1	6.1	0.49					
	0.5-0.6	5.2	1.24	83	150	5200		
	1.4-1.5	5.2	1.80	130	170	4100		

Note: ECe – Electrical Conductivity (dS/m)
Cl – Chloride (mg/kg)
SO4 – Sulphate (mg/kg)

CEC – Cation Exchange Capacity
ESP – Exchangeable Sodium Percentage

	Class	ECe (ds/m)
	Non-Saline	<2
	Slightly Saline	2-4
	Moderately Saline	4-8
	Very Saline	8-16
	Highly Saline	>16

Sample	Depth (m)	pH	ECe dS/m	Cl mg/kg	SO4 mg/kg	Resistivity ohm cm	CEC meq/100g	ESP %
TP 65	0-0.1	6.6	0.43	<10	20	23000		
	1.2-1.3	6.1	0.65	10	100	9600		
	2.1-2.2	5.3	1.28	40	170	5900		
TP 70	0.4-0.5						20	<1
TP 74	0-0.1	5.2	0.54	<10	35		5.7	2
	0.3-0.5	5.1	0.54	20	74	12000		
	0.9-1	4.8	1.28	180	66	5800		
TP 78	0-0.1	5.3	0.57	<10	24			
	0.4-0.5	5.5	0.40	<10	20	16000		
	1.4-1.5	4.9	1.20	100	100	6200		
TP 86	0-0.1	5.7	0.75	<10	24			
	0.4-0.5	6.6	0.85	77	47	7800	17	5
	1.4-1.5	4.7	4.43	630	300	1700		
TP 91	0-0.1	5.4	0.86	<10	34		9.9	2
	0.4-0.5	5.2	0.42	<10	24	15000		
	0.8-0.9	5.0	0.90	91	75	8300		
TP 98	0.1-0.2	5.9	1.14	53	56			
	0.4-0.5	5.2	0.98	90	85	6700		
	1.6-1.7	5.2	2.10	300	160	3600	18	17

Note: ECe – Electrical Conductivity (dS/m)
 Cl – Chloride (mg/kg)
 SO4 – Sulphate (mg/kg)
 CEC – Cation Exchange Capacity
 ESP – Exchangeable Sodium Percentage

	Class	ECe (ds/m)
	Non-Saline	<2
	Slightly Saline	2-4
	Moderately Saline	4-8
	Very Saline	8-16
	Highly Saline	>16

Emerson Class

Sample	Class	Dispersiveness
TP 2 (1.50-1.60m)	6	Slight
TP 5 (1.40-1.50m)	2	High
TP 7 (0.50-0.60m)	5	Slight
TP 14 (1.60-1.70m)	2	High
TP 17 (0.80-0.90m)	2	High
TP 25 (1.80-1.90m)	2	High
TP 29 (0.80-0.90m)	5	Slight
TP 33 (1.90-2.00m)	6	Slight
TP 38 (1.50-1.60m)	4	Moderate
TP 43 (0.70-0.80m)	2	High
TP 50 (0.40-0.50m)	4	Moderate
TP 57 (0.90-1.00m)	2	High
TP 60 (0.40-0.50m)	6	Slight
TP 63 (1.40-1.50m)	2	High
TP 74 (0.30-0.50m)	2	High
TP 78 (1.40-1.50m)	1	Very High
TP 86 (0.40-0.50m)	1	Very High
TP 91 (0.80-0.90m)	2	High
TP 98 (0.40-0.50m)	2	High

Particle Size Distribution

Sample	Clay & Silt (%)	Sand (%)	Gravel (%)
TP 2 (1.50-1.60m)	81	15	4
TP 17 (0.80-0.90m)	86	10	4
TP 43 (0.70-0.80m)	83	15	2
TP 60 (0.40-0.50m)	87	12	1
TP 74 (0.30-0.50m)	76	24	0
TP 91 (0.80-0.90m)	16	6	78

7. SALINITY HAZARD IDENTIFICATION AND ASSESSMENT

7.1 Surface Indicators

The following are site indicators which are used to identify the presence of soil salinity;

- Scorching or absence of vegetation cover
- Salt encrustations and salt crystals on the ground surface.
- Dieback of trees or trees which show signs of distress.
- Salt attacks and markings on existing building footings.

There were no obvious signs and indicators of salinity impacts on the site.

7.2 Groundwater

Based on our local knowledge and test pit investigation, we expect permanent groundwater table to be at a significant depth (ie 3m depth). The results of this investigation confirmed the subsurface profile to be dry with no subsurface groundwater seepage, aquifers or “springs”.

7.3 Salinity Assessment and Salt Profiles

The fundamental measurement of soil salinity is EC_e values and based on the laboratory test results, the insitu soil was found to generally be Non to Slightly Saline with EC_e values ranging from 0.08 dS/m to 3.60 dS/m except for TP17 (1.9-2.0m), TP 25 (1.8-1.9m), TP 33 (1.9-2.0m) and TP 86 (1.4-1.5m) which were found to be Moderately Saline with EC_e values of about 4.43 dS/m.

The Emerson test results indicate the insitu soil was found to be Slightly to Very Highly Dispersive. Based on the ESP and CEC test results, the insitu soil was found to be Non to Highly Sodic and with a rating of Very Low to Moderate Cation Exchangeable Capacity.

The subsurface soil was found to have low concentrations of Sulphate and a minimum pH value of 4.7, therefore the soil is considered to be Mildly-aggressive to buried concrete structures and therefore the site may be classified as “Class A2” in accordance to AS 3600-2018 “Concrete Structures” (Reference 10).

The subsurface soil was found to have low concentrations of Chloride, with a minimum pH value of 4.6 and the lowest resistivity of 1700 ohms/cm, the site was assessed to be Mildly aggressive to buried steel structures based on AS 2159 (Reference 7).

The concentration of salts in the subsurface soil may be modelled to three different profiles as follows based on the DWLC (2002) guidelines (Reference 5);

- ‘Normal’ Salt Profiles – The salinity levels in this profile increase with depth and there is no rising groundwater effect to bring the salts to the surface. This profile is common over the entire site.
- ‘Recharge’ Salt Profiles – The salinity levels in this profile are low and fairly constant with depth. This salt profile does not appear to have occurred on any part of the site.
- ‘Discharge’ Salt Profiles – The salinity levels in this profile reduce with depth and generally occurs when subsurface flows rises up due to the topography and vegetation uptake and salt is being brought up to the surface. This salt profile does not appear to have occurred on any part of the site.

The following Figure 1 shows typical salt profile shapes with depths for the site;

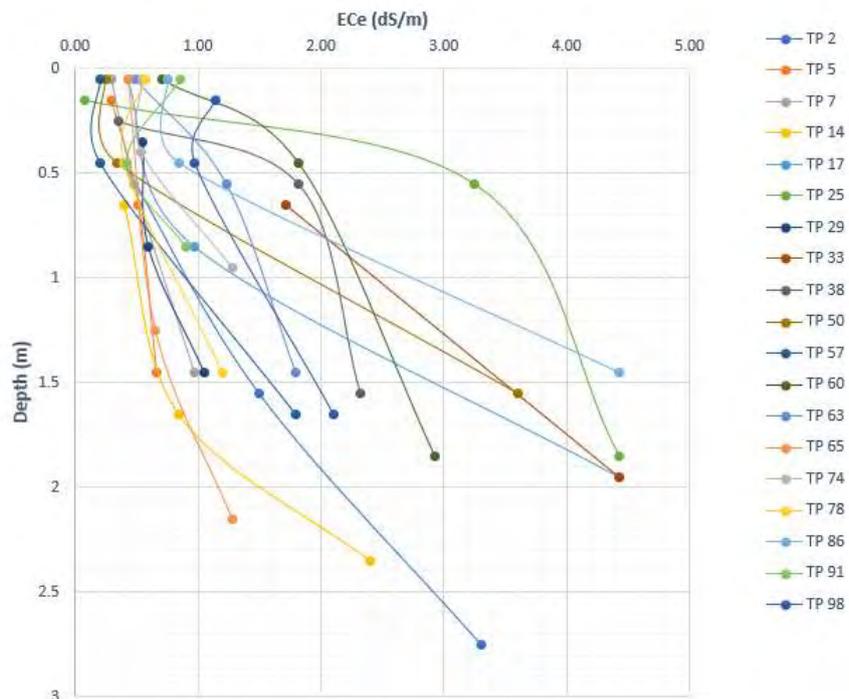


Figure 1: Salt Profile Shape from the Test Pits

7.4 Salinity Hazards

The impact of saline hazard on the development should be properly managed to ensure;

- The construction and maintenance of the proposed subdivision development do not result in a deterioration of the saline environment. Hazards derived from improper implementation of construction works and management of site may include;
 - Excavation and displacement of saline, sodic or dispersive soil during bulk earthworks.
 - Uncontrolled soil erosion and dispersion of sodic and dispersive soil down hill and into receiving waters.
 - Concentrations of salt due to altered surface and subsurface flows. Concentrations of salt may also occur from inadequate design of roads, drainage and footings resulting in impeded subsurface flows.
 - Rising of groundwater level due to basin construction and irrigation.
 - Increase in surface salt levels from poor management of parks and landscaping areas.
- The saline environment does not impact on the development. Hazards derived from improper design may include;
 - Damage to buildings and houses caused by deterioration of bricks, mortar and concrete when salt drawn up into capillaries of bricks and mortar expands resulting in spalling.
 - Deterioration of concrete kerbs and gutters as a result of chemical reaction between concrete and sulphates.
 - High chloride content in the soil may result in corrosion of steel reinforcement and buried metal structures.
 - Damage to underground pipes and infrastructures.
 - Water logging of ground surface due to sealing effect of sodic and dispersive soil.
 - Loss of vegetation cover and plants due to high salt content resulting in retardation of plants.

8. SALINITY MANAGEMENT PLAN

The salinity management plan takes into consideration the following;

- The assets to be constructed such as roads, buildings, services and parks.
- The construction activities during development and the maintenance required
- The associated salinity hazards and risks of the assets and activities (ie construction and maintenance)
- The likelihood of such hazards and risks eventuating
- The management of the hazards and risks including control measures
- The party responsible for the implementation and management of control measures.

The likelihood of hazards and risks eventuating may be categorised into three levels as follows;

- | | |
|-----------|---|
| Low: | The risk is minimal and is not likely to occur unless under exceptional circumstances. Normal management procedures should be sufficient. |
| Moderate: | The risk is likely to occur and some management procedures should be in placed to reduce such risk. |
| High: | The risk is highly likely to occur and proper management and treatment will be required to mitigate the risk. |

The following is a Salinity Management Plan considered relevant to the proposed development;

Assets and Procedures	Possible Hazards or Environmental Risks	Risk Class	Control Measures and Management	Action
Earthworks – Cut	<ol style="list-style-type: none"> 1. Soil erosion and scouring of sodic soil from excavation works. 2. Instability of slope from disintegration of sodic and dispersive soils. 3. Concentration of runoff and deposition of salts. 	High	<ol style="list-style-type: none"> 1. Avoid exposure and disturbance of sodic soil by minimising cut. 2. Deeper excavations in excess of 0.9m should be covered and retained by retaining walls or batters to not steeper than 1 Vertical to 2 Horizontal. 3. Vegetation of all batter slopes and bare surface. 4. Install adequate erosion controls such as silt fence. 5. Treatment of exposed surface with lime. 6. Install appropriate surface and subsurface drains. 	Developer/ Contractor
Earthworks – Fill and Stockpiling	<ol style="list-style-type: none"> 1. Subsurface flows may be impeded. 2. Soil erosion and scouring of sodic fill. 	High	<ol style="list-style-type: none"> 1. Avoid exposure and disturbance of sodic soil. 2. Vegetation of all batter slopes and bare surface. 3. Install adequate erosion controls such as silt fence. 4. Treatment of sodic and dispersive soil with lime. 5. Install appropriate surface and subsurface drains. 	Developer/ Contractor
Roadworks and car parks	<ol style="list-style-type: none"> 1. Excavation and compaction of subgrade may impede subsurface flows resulting in accumulation of salts. 2. Road construction will alter surface flows and salts will be deposited in a concentrated area. 	Moderate	<ol style="list-style-type: none"> 1. Install appropriate subsoil drainage at the upgradient side of road to ease subsurface flows. 2. Design roads to minimise the effect of concentration of surface flows. 	Developer/ Contractor /Designer
Trenching and Backfilling for Pipes and Services	<ol style="list-style-type: none"> 1. Trenching will bring saline soil up to the surface. 2. Differential settlement of trench backfill due to erosion and tunnelling 3. Migration of fines from surrounding dispersive soil into the trench resulting in ground subsidence. 4. Migration of salts through the trenches & accumulation of salts downstream resulting in salt attack on concrete & steel infrastructures. 	Moderate	<ol style="list-style-type: none"> 1. Avoid displacement of saline soil from the bottom to the top. 2. It is recommended rubber-ring jointed pipes be used. 3. Special types of ‘pipe-bedding’ (eg clean coarse sand) are to be used. 4. Ensure adequate compaction of trench backfill to reduce the permeability of the trench. 5. Soil erosion and tunnelling may be treated by using lime. 6. Use of non sodic and non dispersive soil in the trench. 7. Use of geofabrics to prevent migration of fines into the trench. 	Developer/ Contractor

Assets and Procedures	Possible Hazards or Environmental Risks	Risk Class	Control Measures and Management	Action
Drainage Pipes and Pits	1. Structural degradation of concrete due to salt attack.	Moderate	1. Ensure use of appropriate concrete grade not less than 32 MPa characteristic strength. 2. Minimise excavation into sodic and dispersive soil.	Developer/ Drainage Contractor
Conduits and Duct crossing	1. Structural degradation of steel due to salt attack	Moderate	1. Appropriate corrosion protection measures be in place. 2. Ensure construction of subsurface drains at the bottom.	Developer/ Electrical Contractor
Street Lightings and Signage	1. Salt attack on steel and concrete structures	Moderate	1. Adopt Moderately aggressive soil.	Developer/ Contractor
Slabs and Concrete Foundations	1. Structural degradation of concrete due to salt attack. 2. Corrosion of steel reinforcement and spalling of concrete	Moderate	1. Install appropriate waterproofing membranes under slab 2. Durability design based on Class A2 AS3600. 3. Ensure use of appropriate concrete grade not less than 32 MPa characteristic strength. 4. Ensure adequate concrete cover from reinforcement. Normally concrete cover is not less than 65mm. A lesser cover may be appropriate subject to other protection measures in placed 5. Placement of damp proof course and vapour barriers where required. 6. Construction of adequate surface and subsurface drainage around the slabs.	Developer/ Contractor
Steel Foundations and Buried Steel poles	1. Corrosion of steel	Moderate	1. Design for Mildly aggressive soils by adopting a corrosion rate of 0.01-0.02mm/year (AS2159)	Developer/ Contractor
Masonry Walls	1. Structural degradation of brick and masonry walls	Moderate	1. Placement of damp proof course and vapour barriers. 2. Use correct mortar and ensure appropriate mix.	Contractor
Concrete and bitumen driveways	1. Structural degradation of concrete caused by salt. 2. Deformation and cracking of asphalt seal.	Moderate	1. Construct appropriate surface and subsoil drains to intercept flows. 2. Use appropriate concrete grade.	Builder

Assets and Procedures	Possible Hazards or Environmental Risks	Risk Class	Control Measures and Management	Action
Sewer and water pipes	<ol style="list-style-type: none"> Structural degradation caused by salt Subsidence of service trenches caused by tunnelling and erosion. Migration of fines into the trenches and transportation of salts downstream. 	Moderate	<ol style="list-style-type: none"> Design system to minimise the interception of surface and subsurface flows. Ensure service trenches do not intercept the groundwater. Adequate compaction of the service trenches 	Builder/ Designer
Steel fencing	<ol style="list-style-type: none"> Corrosion and pitting of steel members in contact with the soil generally limited to 1m depth. 	Moderate to High	<ol style="list-style-type: none"> Use concrete footings with appropriate grade. Design for Mildly aggressive soils by adopting a corrosion rate of 0.01-0.02mm/year (AS2159) 	Builder/ Designer
Detention Basin and Ponds	<ol style="list-style-type: none"> Collection and accumulation of salt from runoffs. Leaching of salt into the underlying groundwater system. Erosion and scouring of embankment and banks 	High	<ol style="list-style-type: none"> Ensure detention basins are adequately design to minimise leakage. Use of liners maybe necessary. Use of gypsum to treat sodic and dispersive soil Cover ground surface with appropriate vegetation to stabilise the slopes. Adopt appropriate batter slopes for the embankment. Slope batters should not be steeper than 1 Vertical to 3 Horizontal. 	Developer/ Council
Landscaping	<ol style="list-style-type: none"> Growth impairment or death 	Moderate	<ol style="list-style-type: none"> Select appropriate tree planting schemes. Avoid planting trees and vegetation which are sensitive to salts. 	Developer/ Designer
Parks and Reserves	<ol style="list-style-type: none"> Accumulation of salts on the ground surface from irrigation Increase in salinity level from fertilisers. 	High	<ol style="list-style-type: none"> Implementation of proper park management. Monitor salt levels in receiving waters and basins. Avoid over irrigation and over fertilising of park areas. 	Council

9. GENERAL RECOMMENDATIONS

9.1 Excavation and Filling

- Excavations in excess of 1.0m should be battered to a 1 vertical to a 1 horizontal. Excavated stockpile material may either be treated immediately on site using 3% by weight of lime, otherwise capped with non-porous clay soils greater than 0.5m thick. Alternatively excavated material may be removed off-site to a landfill for treatment and disposal.
- Gypsum should be mixed into filling containing sodic soils and cuts where sodic soils are exposed on slopes to improve soil structure and to minimise erosion potential.
- Any material removed from the site should be carried out by a licensed contractor. This material should be sealed and contained using appropriate lining and capping material.
- Exposure and disturbance of subsoil material must be reduced by minimising cut and fill. Time of exposure of bare ground (without vegetation) should be kept to a minimum. If extended periods of rain are forecast, the bare ground should be covered with stable fill such as ripped sandstone or stabilised with lime proportioned to 3% by weight.
- Stormwater runoff from upstream should be diverted away from excavation areas by the use of bunding.
- Filling areas are to be graded, revegetated and adequate surface drainage infrastructure installed as soon as practical to avoid excessive infiltration, minimise salt leaching, soil erosion and ponding of water on-site.
- All imported fill should be verified by sampling and testing to ensure the material is non to slightly saline. Moderately to highly saline soil is not acceptable. Supporting information and documentation should be supplied verifying that the subject material complies. The addition of salts in the materials, fill or water used during construction must be limited.

- Reversing or mixing the soil profile when undertaking cut and fill activities must be avoided. Soils must be replaced in their original order. Excavations deeper than 1m should be backfilled in the same order, alternatively this material may be treated by using lime or used in fill at depths more than 1m from finished level.
- Batter slopes should be compacted with control of the moisture content to optimum moisture content plus 2 per cent (OMC +2%) or otherwise over-filled, compacted and then trimmed back to the final alignment to minimise infiltration through the exposed filling batters and the potential resulting flushing of salts from the filling. If the latter is to be carried out, the outer zone (3 metres) of the fill should be placed at OMC +2%.

9.2 Infrastructure and Drainage

- Trenching for underground services should be carried out in such a manner that there is minimal rotation and vertical displacement of the original soil profile as the lower soil profile is more erodible.
- Pipes used for stormwater drainage should be sealed to minimise the risk of leakage. Drainage, sewerage and water infrastructure is to be regularly maintained and repaired to prevent leakages.
- Concrete of suitable strength and reinforcement cover is to be used for drainage structures and wherever contact with water and increased soil moisture is expected.
- Watering or irrigation practices are to be managed to avoid excessive infiltration and water logging.
- Natural drainage patterns and infiltration rates must be maintained as far as practicable. Drainage should not be designed to discharge to groundwater or salinity affected areas that is likely to cause increased water logging adjacent to the road or that concentrated surface runoff.
- Direct runoff from paved areas into lined stormwater drains rather than along grassed channels as necessary.
- Groundwater extraction must not occur on the site.

9.3 Stormwater

- During construction, hay bales and other temporary erosion control devices should be placed at appropriate locations in areas where concentrated flows are expected and suitable dish drains should be constructed to retard flow and trap silt particles during heavy runoff. Temporary detention ponds in construction sites should be regularly monitored for water quality and cloudy water should be treated by flocculation with gypsum. This is critical before a storm event.
- Surface drains should be provided along the top of batter slopes or greater than 2.5 metres height to reduce the potential for concentrated flows of water flows slopes which may cause scour. Well graded subsoil should be provided at the base of all slopes where there are road pavements below the slope to reduce the risk of water logging.
- Line or locate any ponds higher in the landscape to avoid recharge where proximity to the water table is likely to create groundwater mounding.
- Ensure an appropriate ratio of hard (impermeable) and permeable surfaces to avoid rainwater runoff infiltrating the ground in large volumes at any given location.

9.4 Vegetation

- Native vegetation must be retained or restored on site where possible. Revegetation of the site may involve treatment of topsoil material and planting appropriate salt-tolerant water efficient plant species (trees, shrubs, and grasses).

9.5 Building Materials

- In seepage and discharge areas or areas with a high potential sulphate, resistant building materials must be used. Sulphate resistant materials should be used for underground services, roads and paving.
- For all building materials, the manufacturer's advice must be complied with regarding durability and correct use. Exposure of building materials to corrosive elements in soils should be minimised. Appropriate construction techniques such as suspended slab or piling to encourage ventilation and prevent soil moisture from being forced up the walls of the structure should be used.

9.6 Roads

- Roads must have well designed sub surface drainage. A waterproof seal must be used on roads to minimise evaporation and the concentration of salt.
- Roads and shoulder areas must be designed to drain surface water such that there is no excessive concentration of runoff or ponding which may result in water logging or additional recharge or groundwater. Road shoulders must also be sealed.
- Materials and waters used in the construction of roads and fill embankments should be selected to contain minimal or no salt. Where it is difficult a capping layer of either topsoil or sandy materials should be placed to reduce capillary rise, act as a drainage layer and also reduce the potential for dispersive behaviour in the sodic soils.
- Roads should not intercept known salt affected or water logged areas, and should be designed in a manner that does not impede the sub-soil flow or creates hydraulic pressure causing groundwater discharge.
- Avoid or minimise the use of on site stormwater detention except where in accordance with a stormwater management strategy adopted for the Precinct.

9.7 Residential and Other Buildings

- A high impact waterproof membrane, (not just a vapour proof membrane), should be lain under house slabs. The waterproof membrane must be extended to the outside face of the external edge beam up to the finishing ground level, as detailed in the Building Code of Australia (BCA).
- For masonry building construction, the damp proof course must consist of polyethylene or poly-ethylene coated metal and correctly placed in accordance with BCA. Ground levels immediately adjacent to masonry walls must be kept below the damp proof course.

- Appropriate infrastructure should be in place to manage urban water cycle and this includes all water flows such as water supply, stormwater and wastewater. Relevant design considerations are outlined in “Evaluating Options for Water Sensitive Urban Design (WSUD) - a national guide” Joint Steering Committee for Water Sensitive Cities, July 2009.
- For slab on ground construction, a layer of bedding sand at least 50mm thick should be laid under the slab to allow free drainage of water and to prevent pooling of water potentially carrying salts.
- Concrete floor slabs must comprise of Class 32MPa concrete or sulphate resisting Type SR cement with a water cement ratio of 0.5. Similar concrete should be used for bored piers or footings.
- Slabs must be vibrated and cured for a minimum 3 days
- The minimum cover to reinforcement should be 40mm from a membrane in contact with the ground.
- The minimum cover to reinforcement should be 50mm for strip footings and beams.
- Admixtures for waterproofing and /or corrosion prevention may be used.
- Salt tolerant masonry and mortar must be used below the damp proof course
- Constant monitoring of water pipes to detect any leakages and the repair of damaged pipes as soon as possible after detection
- Use Copper or non-metallic pipes instead of galvanised iron
- Ensure any underground services are provided with adequate corrosion protection.
- On sites where excavation and fill exceed 1m, Council may require suspended slab or pier and beam construction as an alternative to ‘slab on ground’ construction. This may occur on sloping sites as this will minimise exposure to potentially corrosive soils and reduce the potential cut and fill on site which could alter subsurface flows.

- Other measures that can be considered to improve the durability of concrete in saline environments should be considered. These include reducing the water cement ratio (hence increasing strength), minimising cracks and joints in plumbing on or near the concrete, reducing turbulence of any water flowing over the concrete and using a quality assurance supplier.
- It is essential in all masonry buildings that a brick damp course be properly installed so that it cannot be bridged either internally or externally. This will prevent moisture moving into brick work and up the wall.
- As there are various exposure classifications and durability ratings for the wide range of masonry available, reference should be made to the supplier in choosing suitable bricks of at least exposure quality. Water proofing agents can also be added to mortar to further restrict potential water movement. Bricks that are not susceptible to damage from salt water should be used. These are generally less permeable, do not contain salts during their construction and have good internal strength so that they can withstand any stress imposed on them by any salt encrustation.
- Design and construction to be carried out in accordance with relevant Australian Standards, Building Codes and current 'Industry Best Practice' in regard to urban salinity.
- Service connections and stormwater runoffs should be checked to avoid leaky pipes which may affect off site areas lower down the slope and increase groundwater recharge resulting in increases in groundwater levels.

9.8 Detention Ponds and Playing Fields

- All excavation works should be minimised by staging the construction into small areas to prevent salinity from developing. Very saline soil is not recommended for use as building platform fill. This material may be buried beneath proposed roadways away from where underground services will be laid. Very saline soil should be placed at depths greater than 1.5m below design level and covered with non to slightly saline fill.

- Surplus saline soil from construction works may be reused in playing fields. A revegetation scheme which includes introduction of salt tolerant plants should be in place. Amenities buildings, light poles, fences and other associated structures should be appropriately designed to reduce adverse impacts of the saline soil. A capping layer of non saline material with a minimum thickness of 1.5m may be adopted to reduce the impacts of salinity.
- Detention ponds should be constructed to minimise build up of salts in the groundwater system via infiltration through the base of the ponds. This may be achieved by lining the ponds with synthetic HDPE liners. Clay liners may be considered if justification can be provided on the material selection process and proposed construction methodology. If using a clay lining, the possibility that on site clays may be saline should be investigated before they are used for this purpose. In these situations an impermeable geotech fabric may be preferable.
- Sodic and dispersive soils can be managed by the addition of lime. Capping of sodic and dispersive soils within the embankments is recommended for protection against erosion.
- Spillways should be provided in pond embankments to reduce the potential for concentrated flows of water down slopes causing scour.
- Where mass concrete is required in or around the ponds, a minimum concrete strength of 32 MPa is recommended to limit the corrosive effects of the underlying and surrounding soils. Concrete or masonry elements of lower strength may be susceptible to long term adverse effects of the aggressive or saline soils.
- Utilise native and deep rooted vegetation in order to minimise soil erosion and limit the rising of the water table.

10. OTHER MANAGEMNET ISSUES

10.1 Health and Safety

Contractors and subcontractors performing work activities are expected to meet all Workcover's and other applicable Commonwealth and State/Territory requirements for employee's health and safety.

Appropriate personal protective equipment and clothings and on-site monitoring during fieldwork should be observed.

10.2 Records and Documentations

The entire process of the remedial works shall be sufficiently recorded and documented. Such information shall be systematically stored by the Project Manager and Council.

10.3 Compliance and Corrective Actions

The salinity management plan shall be taken to ensure the objectives outlined in above Section 5.2 are met and the works comply with the current regulations and practices. This will include;

- The monitoring of environmental performance on a regularly basis;
- Regularly perform audit of the environmental management system
- Record, investigate and analysis accidents/incidents

In the event where the objectives are not met, appropriate documentation should be made and corrective actions be undertaken.

11. LIMITATIONS

The interpretation and recommendations submitted in this report are based on a limited number of test pits. There is no investigation which is thorough enough to determine all site conditions and anomalies, no matter how comprehensive the investigation program is as site data is derived from extrapolation of limited test locations. The nature and extent of variations between test locations may not become evident until construction.

Groundwater conditions are only briefly examined in this investigation. The groundwater conditions may vary seasonally or as a consequence of construction activities on or adjacent to the site.

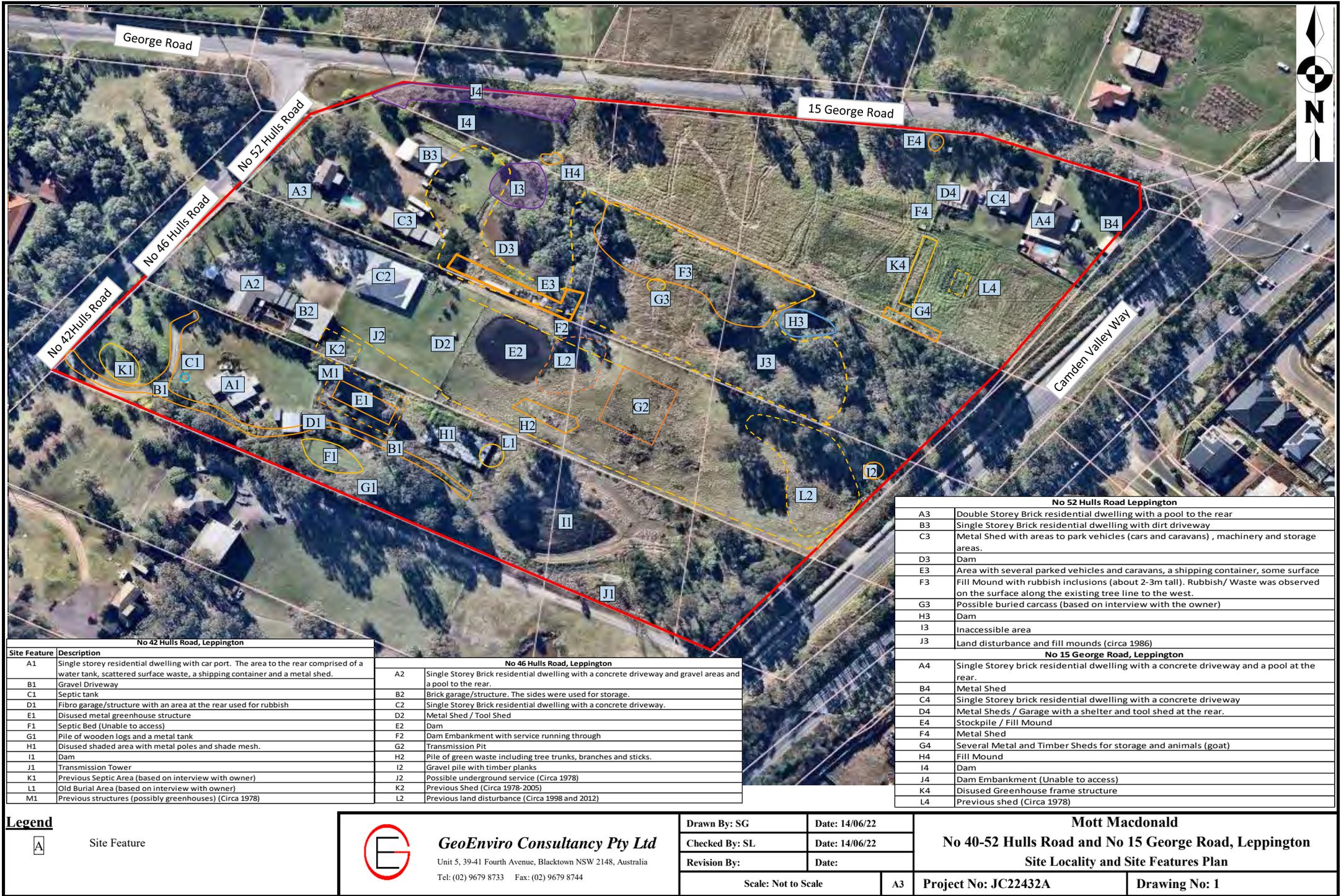
In view of the above, the subsurface soil and rock conditions between the test locations may be found to be different or interpreted to be different from those expected. If such differences appear to exist, we recommend that this office be contacted without delay.

The statements presented in these documents are intended to advise you of what should be your realistic expectations of this report, and to present you with recommendations on how to minimise the risks associated with the ground works for this project. The document is not intended to reduce the level of responsibility accepted by GeoEnviro Consultancy Pty Ltd, but rather to ensure that all parties who may rely on this report are aware of the responsibilities each assumes in so doing. Attached in Appendix C are documents entitled "Explanatory Notes" in conjunction with which this report must be read, as it details important limitations regarding the investigation undertaken and this report.

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REFERENCES

1. *Salinity and Geotechnical Investigation – Proposed Residential Subdivision Development Lot 6 to 7 DP 858010 and Lot 10 to 11 DP 1164955, No 40-52 Hulls Road and No 15 George Road Leppington NSW – GeoEnviro Consultancy Ref JC22432A-r2 dated June 2022*
2. *Department of Land and Water Conservation – “Site Investigation for Urban Salinity”.2002*
3. *1:100,000 Soil Landscape Map of Penrith – Soil Conservation Service of NSW; Sheet 9030 - 1989*
4. *1:100,000 Geological Map of Penrith– Geological Series Sheet 9030 (Edition 1) 1991*
5. *Salinity Code of Practice – Western Sydney Regional Organisation of Councils Ltd – 2003 (Amended January 2004)*
6. *What do all the numbers mean? A guide for the interpretation of soil test results. – Department of Conservation and Land Management, 1992*
7. *Australian Standard, AS 2159-2009 “Piling – Design and Installation”, 2009*
8. *Australian Standard, AS 2870 -2011 “Residential Slabs and Footings”.*
9. *Australian Standard, AS 3798 - 2007“Bulk Earthworks for Commercial and Residential Site*
10. *Australian Standard, AS 3600- 2018“Concrete Structures”*
11. *Australian Standard AS1726:2017. “Geotechnical Site Investigations”.*



No 42 Hulls Road, Leppington	
Site Feature	Description
A1	Single storey residential dwelling with car port. The area to the rear comprised of a water tank, scattered surface waste, a shipping container and a metal shed.
B1	Gravel Driveway
C1	Septic tank
D1	Fibro garage/structure with an area at the rear used for rubbish
E1	Disused metal greenhouse structure
F1	Septic Bed (Unable to access)
G1	Pile of wooden logs and a metal tank
H1	Disused shaded area with metal poles and shade mesh.
I1	Dam
J1	Transmission Tower
K1	Previous Septic Area (based on interview with owner)
L1	Old Burial Area (based on interview with owner)
M1	Previous structures (possibly greenhouses) (Circa 1978)

No 46 Hulls Road, Leppington	
Site Feature	Description
A2	Single Storey Brick residential dwelling with a concrete driveway and gravel areas and a pool to the rear.
B2	Brick garage/structure. The sides were used for storage.
C2	Single Storey Brick residential dwelling with a concrete driveway.
D2	Metal Shed / Tool Shed
E2	Dam
F2	Dam Embankment with service running through
G2	Transmission Pit
H2	Pile of green waste including tree trunks, branches and sticks.
I2	Gravel pile with timber planks
J2	Possible underground service (Circa 1978)
K2	Previous Shed (Circa 1978-2005)
L2	Previous land disturbance (Circa 1998 and 2012)

No 52 Hulls Road Leppington	
A3	Double Storey Brick residential dwelling with a pool to the rear
B3	Single Storey Brick residential dwelling with dirt driveway
C3	Metal Shed with areas to park vehicles (cars and caravans), machinery and storage areas.
D3	Dam
E3	Area with several parked vehicles and caravans, a shipping container, some surface
F3	Fill Mound with rubbish inclusions (about 2-3m tall). Rubbish/ Waste was observed on the surface along the existing tree line to the west.
G3	Possible buried carcass (based on interview with the owner)
H3	Dam
I3	Inaccessible area
J3	Land disturbance and fill mounds (circa 1986)
No 15 George Road, Leppington	
A4	Single Storey brick residential dwelling with a concrete driveway and a pool at the rear.
B4	Metal Shed
C4	Single Storey brick residential dwelling with a concrete driveway
D4	Metal Sheds / Garage with a shelter and tool shed at the rear.
E4	Stockpile / Fill Mound
F4	Metal Shed
G4	Several Metal and Timber Sheds for storage and animals (goat)
H4	Fill Mound
I4	Dam
J4	Dam Embankment (Unable to access)
K4	Disused Greenhouse frame structure
L4	Previous shed (Circa 1978)

Legend

 Site Feature

 **GeoEnviro Consultancy Pty Ltd**
 Unit 5, 39-41 Fourth Avenue, Blacktown NSW 2148, Australia
 Tel: (02) 9679 8733 Fax: (02) 9679 8744

Drawn By: SG	Date: 14/06/22
Checked By: SL	Date: 14/06/22
Revision By:	Date:
Scale: Not to Scale	

Mott Macdonald

No 40-52 Hulls Road and No 15 George Road, Leppington

Site Locality and Site Features Plan

Project No: JC22432A	Drawing No: 1
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Legend



GeoEnviro Consultancy Pty Ltd
 Unit 5, 39-41 Fourth Avenue, Blacktown NSW 2148, Australia
 Tel: (02) 9679 8733 Fax: (02) 9679 8744

Drawn By: SG	Date: 14/06/22
Checked By: SL	Date: 14/06/22
Revision By:	Date:

Mott Macdonald
No 40-52 Hulls Road and No 15 George Road, Leppington
Soil Landscapes Map

Scale: Not to Scale A3

Project No: JC22432A

Drawing No: 2



Legend



GeoEnviro Consultancy Pty Ltd
 Unit 5, 39-41 Fourth Avenue, Blacktown NSW 2148, Australia
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Drawn By: SG	Date: 14/06/22
Checked By: SL	Date: 14/06/22
Revision By:	Date:

Mott Macdonald
No 40-52 Hulls Road and No 15 George Road, Leppington
Geological Map

Scale: Not to Scale	A3
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Project No: JC22432A

Drawing No: 3



MAPPING CATEGORY	
	<p>KNOWN SALINITY</p> <p>Areas where there is a known occurrence of saline soil, or where air photo interpretation and field observations have confirmed more than one of these:</p> <ul style="list-style-type: none"> a - scalding b - salt efflorescence c - vegetation dieback d - salt tolerant plant species e - waterlogging <p>A high relative wetness index occurs in these areas.</p>
	<p>HIGH SALINITY POTENTIAL</p> <p>Areas where soil, geology, topography and groundwater conditions predispose a site to salinity. These conditions are similar to areas of known salinity (see above). These areas are most common in lower slopes and drainage systems where water accumulation is high (ie. high relative wetness index).</p>
	<p>MODERATE SALINITY POTENTIAL</p> <p>Areas on Wianamatta Group Shales and Tertiary Alluvial Terraces. Scattered areas of scalding and indicator vegetation have been noted but no concentrations have been mapped. Saline areas may occur in this zone, which have not yet been identified or may occur if risk factors change adversely.</p>
	<p>VERY LOW SALINITY POTENTIAL</p> <p>Areas where salinity processes do not operate or are of minor significance. Soils are rapidly drained and underlying strata (Hawkesbury/Narrabeen Sandstone) are highly permeable, resulting in continual flushing and removal of salts in the landscape. No salinity has been observed in these areas and is not expected to occur.</p>

Legend

	GeoEnviro Consultancy Pty Ltd	
	Unit 5, 39-41 Fourth Avenue, Blacktown NSW 2148, Australia	
	Tel: (02) 9679 8733 Fax: (02) 9679 8744	

Drawn By: SG	Date: 14/06/22
Checked By: SL	Date: 14/06/22
Revision By:	Date:
Scale: Not to Scale	

Mott Macdonald	
No 40-52 Hulls Road and No 15 George Road, Leppington	
Salinity Potential Map	
Project No: JC22432A	Drawing No: 4



No 42 Hulls Road, Leppington

Site Feature	Description
A1	Single storey residential dwelling with a pool. The area to the rear comprised of a water tank, scattered surface waste, a shipping container and a metal shed.
B1	Gravel Driveway
C1	Septic tank
D1	Fire garage/structure with a metal shed used for rubbish
E1	Discarded metal greenhouse structure
F1	Septic Shed (Unable to access)
G1	Pile of wooden logs and a metal tank
H1	Discarded shed area with metal poles and shade mesh.
I1	Dam
J1	Transmission Tower
K1	Previous Septic Area (based on interview with owner)
L1	Old Bush Area (based on site view with owner)
M1	Previous structures (possibly restructures) (Circa 1978)

No 46 Hulls Road, Leppington

A2	Single Storey brick residential dwelling with a concrete driveway and gravel area and a pool to the rear.
B2	Brick garage/structure. The sides were used for storage.
C2	Single Storey brick residential dwelling with a concrete driveway.
D2	Metal Shed / Tool Shed
E2	Dam
F2	Dam Embankment with service running through
G2	Transmission Pit
H2	Pile of green waste including tree trunks, branches and sticks.
I2	Gravel pile with timber planks
J2	Possible underground service (Circa 1978)
K2	Previous Shed (Circa 1978-2005)
L2	Previous land disturbance (Circa 1998 and 2012)

No 52 Hulls Road Leppington

A3	Double Storey brick residential dwelling with a pool to the rear
B3	Single Storey brick residential dwelling with dirt driveway
C3	Metal Shed with areas to park vehicles (cars and caravans), machinery and storage areas.
D3	Dam
E3	Area with several parked vehicles and caravans, a shipping container, some surface
F3	Fill Mound with rubbish inclusions (about 2-3m tall). Rubbish/ Waste was observed on the surface along the existing tree line to the west.
G3	Possible buried carcass (based on interview with the owner)
H3	Dam
I3	Inaccessible area
J3	Land disturbance and fill mounds (circa 1985)

No 15 George Road, Leppington

A4	Single Storey brick residential dwelling with a concrete driveway and a pool at the rear.
B4	Metal Shed
C4	Single Storey brick residential dwelling with a concrete driveway
D4	Metal Sheds / Garage with ashelter and tool shed at the rear.
E4	Stockpile / Fill Mound
F4	Metal Shed
G4	Several Metal and Timber Sheds for storage and animals (goat)
H4	Fill Mound
I4	Dam
J4	Dam Embankment (Unable to access)
K4	Discarded Greenhouse (frame structure)
L4	Previous shed (Circa 1978)

Legend

TP 1 Test Pit Location

GeoEnviro Consultancy Pty Ltd
 Unit 5, 39-41 Fourth Avenue, Blacktown NSW 2148, Australia
 Tel: (02) 9679 8733 Fax: (02) 9679 8744

Drawn By: SG	Date: 14/06/22
Checked By: SL	Date: 14/06/22
Revision By:	Date:
Scale: Not to Scale	

Mott Macdonald
No 40-52 Hulls Road and No 15 George Road, Leppington
Test Pit Location Plan

Project No: JC22432A	Drawing No: 5
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APPENDIX A

Table 1: Summary of Soil Profile

Test Pit Number	Depth (m)	Profile Type	Description	PID (ppm)
1	0.00 - 0.25 0.25 - 0.50	Topsoil Natural	Clayey Silt: lot liquid limit, brown, with gravel, moist (CH) Silty Clay: high plasticity, red brown, moist (MC=PL)	0.2
2 Fill Mound	0.00 - 0.90 0.90 - 1.20 1.20 - 2.00 2.00 - 3.10 3.10 - 3.40	Fill Topsoil Natural Natural Bedrock	Silty Clay: medium to high plasticity, red brown, with gravel, trace porcelain fragments, moist to wet Clayey Silt: low liquid limit, grey brown, moist to wet (CH) Silty Clay: high plasticity, red brown, dry to moist (MC<=PL), very stiff (PP=250-380kPa) (CI) Silty Clay: medium plasticity, grey, with iron staining and ironstone bands, dry to moist (MC<=PL), very stiff Shale/Siltstone: grey brown	2.5
3	0.00 - 0.30 0.30 - 0.60	Topsoil Natural	Clayey Silt: low liquid limit, grey brown, moist (CH) Silty Clay: high plasticity, red brown, moist (MC=PL), very stiff	1.8
4	0.00 - 0.30 0.30 - 0.60	Topsoil Natural	Clayey Silt: low liquid limit, grey brown, moist (CH) Silty Clay: high plasticity, red brown, moist (MC=PL), very stiff	3.2
5	0.00 - 0.30 0.30 - 0.50 0.50 - 0.90 0.90 - 1.50 1.50 - 1.70	Fill Topsoil Natural Natural Bedrock	Silty Clay/Clayey Silt: low liquid limit, low plasticity, brown red, trace gravel, moist Clayey Silt: low liquid limit, grey brown, moist to wet (CH) Silty Clay: high plasticity, red brown, moist (MC=PL), very stiff (CI) Shaley Clay: medium plasticity, grey brown, with siltstone bands, dry to moist Siltstone: grey brown. Near Refusal.	2.6
6	0.00 - 0.30 0.30 - 0.60	Topsoil Natural	Clayey Silt: low liquid limit, grey brown, moist to wet (CH) Silty Clay: high plasticity, red brown, moist (MC=PL), very stiff	2.5
7	0.00 - 0.25 0.25 - 0.90 0.90 - 1.60 1.60 - 2.00 2.00 - 2.20	Topsoil Natural Natural Natural Bedrock	Clayey Silt: low liquid limit, grey brown, moist to wet (CH) Silty Clay: high plasticity, red brown, moist to wet (MC>=PL), stiff to very stiff (PP=180-270kPa) (CI) Silty Clay: medium plasticity, grey brown, with siltstone bands, dry to moist (MC<=PL), very stiff (CI) Shaley Clay: medium plasticity, grey brown, with siltstone bands, dry to moist Siltstone: grey brown	1.4
8	0.00 - 0.25 0.25 - 0.60	Topsoil Natural	Clayey Silt: low liquid limit, grey brown, moist to wet (CH) Silty Clay: high plasticity, red brown, moist to wet (MC>=PL), stiff to very stiff	0.7
9	0.00 - 0.25 0.25 - 0.60	Topsoil Natural	Clayey Silt: low liquid limit, grey brown, moist to wet (CH) Silty Clay: high plasticity, red brown, moist to wet (MC>=PL), stiff to very stiff	1.7
10	0.00 - 0.30 0.30 - 0.50	Topsoil Natural	Clayey Silt: low liquid limit, grey brown, moist (CH) Silty Clay: high plasticity, red brown, moist (MC=PL), very stiff	0.7

Note:

PP = Pocket Penetrometer

MC = Moisture Content

PL = Plastic Limit



TABLE 1 (Page 1 of 10)
SUMMARY OF SOIL PROFILE

Mott MacDonald

Proposed Residential Subdivision Development

No 40, 46 and 52 Hulls Road and No 15 George Road, Leppington

Test Pit Number	Depth (m)	Profile Type	Description	PID (ppm)
11	0.00 - 0.25 0.25 - 0.60	Topsoil Natural	Clayey Silt: low liquid limit, grey brown, moist to wet (CH) Silty Clay: high plasticity, red brown, moist (MC=PL), very stiff	1.6
12	0.00 - 0.35 0.35 - 0.60	Topsoil Natural	Clayey Silt: low liquid limit, grey brown, moist (CH) Silty Clay: high plasticity, red brown, moist to wet (MC>=PL), stiff to very stiff	2.1
13	0.00 - 0.25 0.25 - 0.60	Topsoil Natural	Clayey Silt: low liquid limit, grey brown, moist to wet (CH) Silty Clay: high plasticity, red brown, moist to wet (MC>=PL), stiff to very stiff	2.7
14 Fill Mound	0.00 - 1.20 1.20 - 1.45 1.45 - 2.00 2.00 - 2.50 2.50 - 2.70	Fill Topsoil Natural Natural Bedrock	Silty Clay/Clayey Silt: low liquid limit, low plasticity, brown, with siltstone gravel, moist Clayey Silt: low liquid limit, grey brown, moist (CH) Silty Clay: high plasticity, red brown, moist (MC=PL), very stiff (CI) Silty Clay: medium plasticity, grey brown, dry to moist (MC<=PL), very stiff Siltstone: grey brown. Near Refusal	3.4
15	0.00 - 0.30 0.30 - 0.50	Topsoil Natural	Clayey Silt: low liquid limit, grey brown, moist to wet (CH) Silty Clay: high plasticity, red brown, moist (MC=PL), very stiff	3.5
16	0.00 - 0.40 0.40 - 0.60	Topsoil Natural	Clayey Silt: low liquid limit, grey brown, moist (CH) Silty Clay: high plasticity, red brown, dry to moist (MC<=PL), very stiff	1.8
17	0.00 - 0.35 0.35 - 1.00 1.00 - 2.20 2.20 - 2.30	Topsoil Natural Natural Bedrock	Clayey Silt: low liquid limit, grey brown, moist (CH) Silty Clay: high plasticity, red brown, dry to moist (MC<=PL), very stiff (PP=290-410kPa) (CI) Silty Clay: medium plasticity, grey, with ironstone gravel, dry to moist (MC<-PL), very stiff to hard (PP=360-430kPa) Shale/Siltstone: grey. Refusal at 2.3m.	2.4
18	0.00 - 0.35 0.35 - 0.50	Topsoil/Fill Natural	Clayey Silt: low liquid limit, grey brown, moist to wet (CH) Silty Clay: high plasticity, red brown, moist (MC=PL), very stiff	2.7
19	0.00 - 0.20 0.20 - 0.60	Topsoil/Fill Natural	Clayey Silt: low liquid limit, grey brown, moist (CH) Silty Clay: high plasticity, red brown, moist to wet (MC>=PL), stiff to very stiff	3.3
20	0.00 - 0.30 0.30 - 0.60	Topsoil/Fill Natural	Clayey Silt: low liquid limit, grey brown, wet (CH) Silty Clay: high plasticity, red brown, moist to wet (MC>=PL), stiff to very stiff	2.7

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PL = Plastic Limit



TABLE 1 (Page 2 of 10)
SUMMARY OF SOIL PROFILE

Mott MacDonald

Proposed Residential Subdivision Development

No 40, 46 and 52 Hulls Road and No 15 George Road, Leppington

Test Pit Number	Depth (m)	Profile Type	Description	PID (ppm)
21	0.00 - 0.40 0.40 - 0.50	Topsoil/Fill Natural	Clayey Silt: low liquid limit, grey brown, moist (CH) Silty Clay: high plasticity, red brown, moist (MC=PL), very stiff	3.2
22	0.00 - 0.30 0.30 - 0.40	Topsoil Natural	Clayey Silt: low liquid limit, grey brown, wet (CH) Silty Clay: high plasticity, red brown, moist (MC=PL), very stiff	1.6
23	0.00 - 0.35 0.35 - 0.50	Topsoil Natural	Clayey Silt: low liquid limit, grey brown, moist to wet (CH) Silty Clay: high plasticity, red brown, moist (MC=PL), very stiff	3.1
24	0.00 - 0.25 0.25 - 0.60	Topsoil Natural	Clayey Silt: low liquid limit, grey brown, moist to wet (CH) Silty Clay: high plasticity, red brown, moist (MC=PL), very stiff	2.2
25	0.00 - 0.35 0.35 - 1.00 1.00 - 1.90 1.90 - 2.10 2.10 - 2.30	Topsoil Natural Natural Natural Bedrock	Clayey Silt: low liquid limit, grey brown, moist to wet (CH) Silty Clay: high plasticity, red brown, moist to wet (MC>=PL), stiff to very stiff (PP=170-290kPa) (CI) Silty Clay: grey, trace iron staining and ironstone gravel, dry to moist (MC<-PL), very stiff to hard (PP=380-450kPa) As above with ironstone bands Siltstone: grey brown. Refusal at 2.3m.	0.8
26	0.00 - 0.20 0.20 - 0.30 0.30 - 0.50	Topsoil Topsoil Natural	Clayey Silt: low liquid limit, grey brown, moist to wet Clayey Silt: low liquid limit, grey , moist to wet (CH) Silty Clay: high plasticity, red brown, moist (MC=PL), very stiff	0.5
27	0.00 - 0.20 0.20 - 0.50	Topsoil Natural	Clayey Silt: low liquid limit, grey brown, moist to wet (CH) Silty Clay: high plasticity, red brown, moist (MC=PL), very stiff	1.3
28	0.00 - 0.25 0.25 - 0.60	Topsoil Natural	Clayey Silt: low liquid limit, grey brown, moist to wet (CH) Silty Clay: high plasticity, red brown, moist (MC=PL), very stiff	0.2
29	0.00 - 0.50 0.50 - 0.70 0.70 - 1.30 1.30 - 1.50 1.50 - 1.80	Fill Topsoil Natural Natural Bedrock	Silty Clay: medium to high plasticity, grey brown red, with gravel, moist Clayey Silt: low liquid limit, grey brown, moist (CH) Silty Clay: high plasticity, red brown, moist (MC=PL), very stiff (CI) Shaley Clay: medium plasticity, grey brown, with siltstone bands, dry to moist (MC<=PL), very stiff to hard Siltstone: grey brown. Refusal at 1.8m.	1.7
30	0.00 - 1.80	Fill	Silty Clay: medium plasticity, grey brown red, with topsoil and gravel, with electrical wire. Terminated at 1.8 due to Trapped Water.	0.5

Note:

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PL = Plastic Limit



TABLE 1 (Page 3 of 10)
SUMMARY OF SOIL PROFILE

Mott MacDonald

Proposed Residential Subdivision Development

No 40, 46 and 52 Hulls Road and No 15 George Road, Leppington

Test Pit Number	Depth (m)	Profile Type	Description	PID (ppm)
31	0.00 - 0.25 0.25 - 0.70	Fill Natural	Silty Clay: low to medium plasticity, grey brown, with gravel and brick fragments, moist (CH) Silty Clay: high plasticity, red brown, moist (MC=PL), very stiff	1.9
32	0.00 - 1.50 1.50 - 1.90	Fill Natural	Silty Clay: low to medium plasticity, grey brown, with gravel and brick fragments, moist to wet (CH) Silty Clay: high plasticity, red brown, moist to wet (MC>=PL), stiff to very stiff	0.5
33	0.00 - 0.15 0.15 - 0.40 0.40 - 1.30 1.30 - 2.80	Fill Topsoil Natural Natural	Coal Wash Clayey Silt: low liquid limit, brown, moist (CH) Silty Clay: high plasticity, red brown, moist (MC=PL), very stiff (PP=220-250kPa) (CI) Silty Clay: medium plasticity, grey red, moist (MC=PL), very stiff (PP=210-320kPa)	0.7
34	0.00 - 0.25 0.25 - 0.50	Topsoil Natural	Clayey Silt: low liquid limit, brown, dry to moist (CH) Silty Clay: high plasticity, red brown, dry to moist (MC<=PL), very stiff)	2.5
35	0.00 - 0.50 0.50 - 0.75 0.75 - 0.90	Fill Topsoil Natural	Silty Clay: low to medium plasticity, grey, with siltstone gravel, trace glass fragments, moist Clayey Silt: low liquid limit, brown, moist (CH) Silty Clay: high plasticity, red brown, moist (MC=PL), very stiff	2.7
36	0.00 - 0.25 0.25 - 0.40 0.40 - 0.60	Fill Topsoil Natural	Silty Clay/Clayey Silt: low liquid limit, low plasticity, grey, with siltstone gravel, trace glass fragments, moist Clayey Silt: low liquid limit, brown, moist (CH) Silty Clay: high plasticity, red brown, moist (MC=PL), very stiff	2.2
37	0.00 - 0.20 0.20 - 0.40 0.40 - 0.60	Fill Topsoil Natural	Silty Clay: low plasticity, grey brown, with gravel, moist to wet Clayey Silt: low liquid limit, brown, moist (CH) Silty Clay: high plasticity, red brown, moist (MC=PL), very stiff	0.8
38	0.00 - 1.10 0.40 - 1.10 1.10 - 2.00 2.00 - 2.70	Topsoil Natural Natural Natural	Clayey Silt: low liquid limit, brown, moist to wet (CH) Silty Clay: high plasticity, red brown, moist (MC=PL), very stiff (PP=280kPa) (CI) Silty Clay: medium plasticity, grey red, moist (MC=PL), very stiff (PP=220-250kPa) As above with ironstone gravel, dry to moist (MC<=PL)	2.3
39	0.00 - 2.30	Fill	Gravelly Silty Clay: low to medium plasticity, grey brown red, with sandstone cobbles, bricks, concrete pieces, scrap metal, pvc, tile and glass fragments. Refusal on Rubbish	1.3
40	0.00 - 0.60 0.60 - 1.90 1.90 - 2.20 2.20 - 2.60	Fill Fill Topsoil Natural	Silty Clay: medium plasticity, grey brown red, with gravel, concrete blocks and timber pieces, moist Silty Clay: medium plasticity, grey brown red, with abundant scrap metal, concrete pieces, bricks and fibre-cemented fragments, moist Clayey Silt: low liquid limit, grey brown, moist to wet (CH) Silty Clay: high plasticity, red brown, moist to wet (MC>=PL), stiff to very stiff	3.0

Note:

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PL = Plastic Limit



TABLE 1 (Page 4 of 10)
SUMMARY OF SOIL PROFILE

Mott MacDonald

Proposed Residential Subdivision Development

No 40, 46 and 52 Hulls Road and No 15 George Road, Leppington

Test Pit Number	Depth (m)	Profile Type	Description	PID (ppm)
41	0.00 - 0.50	Fill	Silty Clay: low to medium plasticity, grey brown, with gravel, trace plastic, moist to wet	1.2
	0.50 - 0.80	Topsoil	Clayey Silt: low liquid limit, brown, moist to wet	
	0.80 - 1.10	Natural	(CH) Silty Clay: high plasticity, red brown, moist to wet (MC>=PL), stiff to very stiff	
42	0.00 - 0.70	Fill	Silty Clay: medium plasticity, brown grey red, with gravel, bricks, concrete, plastic and metal wire, wet. Terminated at 0.7m due to trapped water.	1.1
43	0.00 - 0.40	Fill	Silty Clay: low to medium plasticity, grey brown, with gravel and bricks, moist	1.3
	0.40 - 0.70	Topsoil	Clayey Silt: low liquid limit, brown, moist	
	0.70 - 0.90	Natural	(CH) Silty Clay: high plasticity, light brown red, dry to moist (MC<=PL), very stiff	
44	0.00 - 0.25	Topsoil/Fill	Clayey Silt: low liquid limit, brown, with clay and gravel, moist	1.3
	0.25 - 0.40	Natural	(CH) Silty Clay: high plasticity, red brown, moist (MC=PL), very stiff	
45	0.00 - 0.40	Topsoil/Fill	Clayey Silt: low liquid limit, brown, moist	2.3
	0.40 - -0.60	Natural	(CH) Silty Clay: high plasticity, red brown, moist (MC=PL), very stiff	
46	0.00 - 0.35	Topsoil/Fill	Clayey Silt: low liquid limit, brown, moist	3.2
	0.35 - 0.50	Natural	(CH) Silty Clay: high plasticity, light brown red, moist (MC=PL), very stiff	
47	0.00 - 0.20	Fill	Gravelly Silt: low liquid limit, grey, dry (Driveway)	0.4
48	0.00 - 0.30	Topsoil/Fill	Clayey Silt: low liquid limit, brown, moist	1.3
49	0.00 - 0.20	Natural	(CI) Silty Clay: medium plasticity, grey brown, moist (MC=PL), very stiff	0.8
50	0.00 - 0.25	Topsoil/Fill	Clayey Silt: low liquid limit, brown, moist	0.4
	0.25 - 0.90	Natural	(CH) Silty Clay: high plasticity, red brown, moist (MC=PL), very stiff (PP=300kPa)	
	0.90 - 1.90	Natural	(CI) Silty Clay: medium plasticity, grey red, moist (MC=PL), very stiff (PP=340kPa)	
51	0.00 - 0.25	Topsoil/Fill	Clayey Silt: low liquid limit, brown, with coal wash, moist	1.7
	0.25 - 0.50	Natural	(CH) Silty Clay: high plasticity, light brown red, moist (MC=PL), very stiff	
52	0.00 - 0.20	Topsoil/Fill	Clayey Silt: low liquid limit, brown, moist	0.9
	0.20 - 0.50	Natural	(CH) Silty Clay: high plasticity, red brown, moist (MC=PL), very stiff	
53	0.00 - 0.25	Topsoil	Clayey Silt: low liquid limit, brown, moist to wet	3.0
	0.25 - 0.50	Natural	(CH) Silty Clay: high plasticity, red brown, moist (MC=PL), very stiff	

Note:

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PL = Plastic Limit



TABLE 1 (Page 5 of 10)
SUMMARY OF SOIL PROFILE

Mott MacDonald

Proposed Residential Subdivision Development

No 40, 46 and 52 Hulls Road and No 15 George Road, Leppington

Test Pit Number	Depth (m)	Profile Type	Description	PID (ppm)
54	0.00 - 0.25 0.25 - 0.50	Topsoil/Fill Natural	Clayey Silt: low liquid limit, brown, moist to wet (CH) Silty Clay: high plasticity, red brown, moist (MC=PL), very stiff	0.4
55	0.00 - 0.20 0.20 - 0.50	Topsoil/Fill Natural	Clayey Silt: low liquid limit, brown, with coal wash, moist (CH) Silty Clay: high plasticity, light brown red, moist (MC=PL), very stiff	1.5
56	0.00 - 0.25 0.25 - 0.60	Topsoil Natural	Clayey Silt: low liquid limit, brown, moist (CH) Silty Clay: high plasticity, red brown, moist (MC=PL), very stiff	3.3
57	0.00 - 0.30 0.30 - 0.80 0.80 - 1.40 1.40 - 1.90 1.90 - 2.40	Topsoil Natural Natural Natural Bedrock	Clayey Silt: low liquid limit, brown, moist (CH) Silty Clay: high plasticity, red brown, moist (MC=PL), very stiff (CI) Silty Clay: medium plasticity, grey red, moist (MC=PL), very stiff (CI) Shaley Clay: medium plasticity, grey brown, with siltstone bands, dry to moist (MC<=PL), hard (PP>600kPa) Siltstone: grey brown	1.5
58	0.00 - 0.20 0.20 - 0.70	Topsoil Natural	Clayey Silt: low liquid limit, brown, moist (CH) Silty Clay: high plasticity, red brown, moist (MC=PL), very stiff	3.4
59	0.00 - 0.25 0.25 - 0.60	Topsoil Natural	Clayey Silt: low liquid limit, brown, moist (CH) Silty Clay: high plasticity, red brown, moist (MC=PL), very stiff	3.3
60	0.00 - 0.25 0.25 - 0.90 0.90 - 2.50	Topsoil Natural Natural	Clayey Silt: low liquid limit, brown, moist to wet (CH) Silty Clay: high plasticity, red brown, moist to wet (MC>=PL), stiff (PP=150-200kPa) (CI) Silty Clay: medium plasticity, trace ironstone gravel, moist (MC=PL), very stiff to hard (PP=400-440kPa)	2.5
61	0.00 - 0.25 0.25 - 0.60	Topsoil Natural	Clayey Silt: low liquid limit, brown, moist (CH) Silty Clay: high plasticity, red brown, moist (MC=PL), very stiff	1.5
62	0.00 - 0.20 0.20 - 0.50	Topsoil/Fill Natural	Clayey Silt: low liquid limit, brown, with coal wash, moist (CH) Silty Clay: high plasticity, red brown, moist (MC=PL), very stiff	0.7
63	0.00 - 0.25 0.25 - 0.70 0.70 - 1.60	Topsoil Natural Natural	Clayey Silt: low liquid limit, brown, moist (CH) Silty Clay: high plasticity, red brown, moist (MC=PL), very stiff (CI) Silty Clay: medium plasticity, grey red, moist (MC=PL), very stiff	1.4
64	0.00 - 0.40 0.40 - 0.70	Topsoil Natural	Clayey Silt: low liquid limit, brown, wet (CH) Silty Clay: high plasticity, red brown, moist (MC=PL), very stiff	3.3

Note:

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PL = Plastic Limit



TABLE 1 (Page 6 of 10)
SUMMARY OF SOIL PROFILE

Mott MacDonald

Proposed Residential Subdivision Development

No 40, 46 and 52 Hulls Road and No 15 George Road, Leppington

Test Pit Number	Depth (m)	Profile Type	Description	PID (ppm)
65	0.00 - 0.90	Fill	Silty Clay/Clayey Silt: low liquid limit, low plasticity, grey brown, with gravel and topsoil, moist to wet	1.4
	0.90 - 1.20	Topsoil	Clayey Silt: low liquid limit, brown, wet	
	1.20 - 1.80	Natural	(CH) Silty Clay: high plasticity, red brown, moist to wet (MC \geq PL), stiff to very stiff (PP=190-240kPa)	
	1.80 - 2.50	Natural	(CI) Silty Clay: medium plasticity, grey red, moist to wet (MC \geq PL), very stiff (PP=270kPa)	
66	0.00 - 0.30	Topsoil	Clayey Silt: low liquid limit, brown, moist to wet	1.4
	0.30 - 0.50	Natural	(CH) Silty Clay: high plasticity, red brown, moist (MC=PL), very stiff	
67	0.00 - 0.25	Topsoil	Clayey Silt: low liquid limit, brown, moist	1.8
	0.25 - 0.60	Natural	(CH) Silty Clay: high plasticity, red brown, moist (MC=PL), very stiff	
68	0.00 - 0.80	Fill	Silty Clay/Clayey Silt: low liquid limit, low plasticity, brown, with gravel, moist	1.1
69	0.00 - 0.30	Fill	Gravelly Silt: low liquid limit, grey brown, with clay, moist	1.5
70	0.00 - 0.15	Topsoil/Fill	Clayey Silt: low liquid limit, brown, moist to wet	0.7
	0.15 - 0.60	Fill	Gravelly Silty Clay: low to medium plasticity, brown, moist. Refusal on possible gravel.	
71	0.00 - 0.20	Topsoil/Fill	Clayey Silt: low liquid limit, brown, with brick fragments and sand, moist	1.3
	0.20 - 0.40	Natural	(CH) Silty Clay: high plasticity, grey red, moist (MC=PL), very stiff	
72	0.00 - 0.25	Topsoil/Fill	Clayey Silt: low liquid limit, brown, moist	1.8
	0.25 - 0.40	Natural	(CH) Silty Clay: high plasticity, brown, moist (MC=PL), very stiff	
73	0.00 - 0.20	Topsoil	Clayey Silt: low liquid limit, brown, moist to wet	0.5
	0.20 - 0.60	Natural	(CH) Silty Clay: high plasticity, brown, moist to wet (MC \geq PL), stiff to very stiff	
74	0.00 - 0.25	Topsoil	Clayey Silt: low liquid limit, brown, moist to wet	0.9
	0.25 - 0.70	Natural	(CH) Silty Clay: high plasticity, brown, moist (MC=PL), very stiff (PP=290kPa)	
	0.70 - 1.00	Natural	(CI) Silty Clay: medium plasticity, grey brown, with ironstone, dry to moist (MC \leq PL), very stiff	
	1.00 - 1.20	Bedrock	Shale/Siltstone: brown and grey, distinctly weathered, low to medium strength	
75	0.00 - 0.35	Topsoil	Clayey Silt: low liquid limit, brown, moist to wet	0.9
	0.35 - 0.60	Natural	(CH) Silty Clay: high plasticity, brown, moist to wet (MC \geq PL), stiff to very stiff	
76	0.00 - 0.25	Topsoil	Clayey Silt: low liquid limit, brown, moist	0.9
	0.25 - 0.50	Natural	(CH) Silty Clay: high plasticity, brown, moist (MC=PL), very stiff (PP=290kPa)	

Note:

PP = Pocket Penetrometer

MC = Moisture Content

PL = Plastic Limit



TABLE 1 (Page 7 of 10)
SUMMARY OF SOIL PROFILE

Mott MacDonald

Proposed Residential Subdivision Development

No 40, 46 and 52 Hulls Road and No 15 George Road, Leppington

Test Pit Number	Depth (m)	Profile Type	Description	PID (ppm)
77	0.00 - 0.30 0.30 - 0.70	Topsoil Natural	Clayey Silt: low liquid limit, brown, moist to wet (CH) Silty Clay: high plasticity, brown, moist (MC=PL), very stiff (PP=290kPa)	0.4
78	0.00 - 0.30 0.30 - 1.10 1.10 - 1.60 1.60 - 1.80	Topsoil Natural Natural Bedrock	Clayey Silt: low liquid limit, brown, moist to wet (CH) Silty Clay: high plasticity, brown, moist to wet (MC>=PL), stiff to very stiff (CI) Silty Clay: medium plasticity, grey and brown, with ironstone gravel, dry to moist (MC<=PL), very stiff (PP=310-330kPa) Shale/Siltstone: grey and brown, with ironstone bands,	2.6
79	0.00 - 0.30 0.30 - 0.60	Topsoil Natural	Clayey Silt: low liquid limit, brown, moist to wet (CH) Silty Clay: high plasticity, brown, moist to wet (MC>=PL), stiff to very stiff	1.9
80	0.00 - 0.25 0.25 - 0.60	Topsoil Natural	Clayey Silt: low liquid limit, brown, moist to wet (CH) Silty Clay: high plasticity, brown, moist to wet (MC>=PL), stiff to very stiff	1.8
81 Dam Embankment	0.00 - 0.30 0.30 - 1.00 1.00 - 1.30 1.30 - 1.60	Topsoil/Fill Fill Topsoil Natural	Clayey Silt: low liquid limit, brown, moist to wet Silty Clay: medium to high plasticity, grey and red, trace gravel, moist Clayey Silt: low liquid limit, brown, moist (CH) Silty Clay: high plasticity, brown, moist to wet (MC>=PL), stiff to very stiff	1.4
82 Dam Embankment	0.00 - 0.35 0.35 - 1.20 1.20 - 1.50 1.50 - 1.70	Topsoil/Fill Fill Topsoil Natural	Clayey Silt: low liquid limit, brown, moist to wet Silty Clay: medium to high plasticity, grey and red, trace gravel, moist Clayey Silt: low liquid limit, brown, moist (CH) Silty Clay: high plasticity, brown, moist to wet (MC>=PL), stiff to very stiff	3.2
83	0.00 - 0.15 0.15 - 0.50	Topsoil Natural	Clayey Silt: low liquid limit, brown, moist to wet (CH) Silty Clay: high plasticity, brown, moist to wet (MC>=PL), stiff to very stiff	3.1
84	0.00 - 0.25 0.25 - 0.50	Topsoil Natural	Clayey Silt: low liquid limit, brown, moist to wet (CH) Silty Clay: high plasticity, brown, wet (MC>PL), stiff	0.9
85	0.00 - 0.80 0.80 - 1.10	Fill Natural	Clayey Silt: low liquid limit, brown, dry to moist (CH) Silty Clay: high plasticity, red brown, dry to moist (MC<=PL), very stiff	1.3

Note:

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TABLE 1 (Page 8 of 10)
SUMMARY OF SOIL PROFILE

Mott MacDonald

Proposed Residential Subdivision Development

No 40, 46 and 52 Hulls Road and No 15 George Road, Leppington

Test Pit Number	Depth (m)	Profile Type	Description	PID (ppm)
86	0.00 - 0.30	Topsoil/Fill	Gravelly Clayey Silt: low liquid limit, brown, with fine to coarse gravel, moist to wet	2.3
	0.30 - 0.80	Natural	(CH) Silty Clay: high plasticity, red brown, moist (MC=PL), very stiff (PP=270-280kPa)	
	0.80 - 1.50	Natural	(CI) Silty Clay: medium plasticity, grey red, dry to moist (MC<=PL), very stiff (PP=350kPa)	
	1.50 - 1.90	Natural	As above with shale bands, hard (PP=430-500kPa)	
	1.90 - 2.30	Bedrock	Shale: grey brown, extremely to distinctly weathered, low to medium strength	
87	0.00 - 0.20	Fill	Gravel, silt and Clay	0.6
	0.20 - 0.45	Topsoil	Clayey Silt: low liquid limit, brown, moist to wet	
	0.45 - 0.70	Natural	(CH) Silty Clay: high plasticity, brown, moist to wet (MC>=PL), stiff to very stiff	
88	0.00 - 0.30	Topsoil	Clayey Silt: low liquid limit, brown, moist to wet	0.5
	0.30 - 0.60	Natural	(CH) Silty Clay: high plasticity, brown, moist to wet (MC>=PL), stiff to very stiff	
89	0.00 - 0.25	Fill	Crushed Rocks (possibly coal wash)	3.4
	0.25 - 0.50	Natural	(CH) Silty Clay: high plasticity, brown, moist to wet (MC>=PL), stiff to very stiff	
90	0.00 - 0.20	Topsoil	Clayey Silt: low liquid limit, brown, wet	2.1
	0.20 - 0.60	Natural	(CH) Silty Clay: high plasticity, brown, moist to wet (MC>=PL), stiff to very stiff	
91	0.00 - 0.20	Topsoil	Clayey Silt: low liquid limit, brown, moist to wet	3.3
	0.20 - 0.60	Natural	(CH) Silty Clay: high plasticity, brown, with roots, moist (MC=PL), very stiff (PP=220-270kPa)	
	0.60 - 0.90	Natural	(CI) Gravelly Silty Clay: medium plasticity, grey brown, with shale gravel, dry to moist (MC<=PL), very stiff	
	0.90 - 1.20	Bedrock	Shale: grey brown	
92	0.00 - 0.25	Topsoil/Fill	Clayey Silt: low liquid limit, brown, with gravel and orange plastic, wet	3.4
	0.25 - 0.60	Natural	(CH) Silty Clay: high plasticity, red brown, moist (MC=PL), very stiff	
93	0.00 - 0.20	Topsoil	Clayey Silt: low liquid limit, brown, wet	2.5
	0.20 - 0.60	Natural	(CH) Silty Clay: high plasticity, brown, wet (MC>PL), stiff	
94	0.00 - 0.25	Topsoil	Clayey Silt: low liquid limit, brown, wet	0.5
	0.25 - 0.60	Natural	(CH) Silty Clay: high plasticity, brown, wet (MC>PL), stiff	
95	0.00 - 0.10	Topsoil	Clayey Silt: low liquid limit, brown, wet	1.9
	0.10 - 0.50	Natural	(CH) Silty Clay: high plasticity, brown, wet (MC>PL), stiff	

Note:

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PL = Plastic Limit



TABLE 1 (Page 9 of 10)
SUMMARY OF SOIL PROFILE

Mott MacDonald

Proposed Residential Subdivision Development

No 40, 46 and 52 Hulls Road and No 15 George Road, Leppington

Test Pit Number	Depth (m)	Profile Type	Description	PID (ppm)
96	0.00 - 0.20 0.20 - 0.60	Topsoil Natural	Clayey Silt: low liquid limit, brown, wet (CH) Silty Clay: high plasticity, brown, wet (MC>PL), stiff	1.9
97	0.00 - 1.10 1.10 - 1.30	Fill Natural	Gravelly Silty Clay: low to medium plasticity, brown, with clayey silt and fine to coarse gravel (CH) Silty Clay: high plasticity, red brown, moist to wet (MC>=PL), stiff to very stiff	3.2
98	0.00 - 0.30 0.30 - 1.10 1.10 - 1.70 1.70 - 2.00	Topsoil Natural Natural Bedrock	Clayey Silt: low liquid limit, brown, moist to wet (CH) Silty Clay: high plasticity, red brown, moist to wet (MC.=PL), stiff to very stiff (PP=210-250kPa) (CI) Silty Clay: medium plasticity, grey, trace ironstone gravel, moist (MC<=PL), very stiff to hard (PP=360-430kPa) Shale: grey, with ironstone bands, extremely to distinctly weathered, low strength	3.5

Note:

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TABLE 1 (Page 10 of 10)
SUMMARY OF SOIL PROFILE

Mott MacDonald

Proposed Residential Subdivision Development

No 40, 46 and 52 Hulls Road and No 15 George Road, Leppington

APPENDIX B
Laboratory Test Reports

CERTIFICATE OF ANALYSIS 295808

Client Details

Client	Geoenviro Consultancy Pty Ltd
Attention	Lab @Geoenviro, Adrian Tejada
Address	PO Box 1543, Macquarie Centre, North Ryde, NSW, 2113

Sample Details

Your Reference	JC22432A, 15 George Rd & 40-52 Hulls Rd Leppington
Number of Samples	112 Soil, 1 Material, 6 Water
Date samples received	18/05/2022
Date completed instructions received	18/05/2022

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	25/05/2022
Date of Issue	25/05/2022
NATA Accreditation Number 2901. This document shall not be reproduced except in full.	
Accredited for compliance with ISO/IEC 17025 - Testing. Tests not covered by NATA are denoted with *	

Asbestos Approved By

Analysed by Asbestos Approved Analyst: Lucy Zhu
 Authorised by Asbestos Approved Signatory: Lucy Zhu

Results Approved By

Diego Bigolin, Inorganics Supervisor
 Dragana Tomas, Senior Chemist
 Hannah Nguyen, Metals Supervisor
 Kyle Gavrily, Chemist
 Liam Timmins, Organic Instruments Team Leader
 Loren Bardwell, Development Chemist
 Lucy Zhu, Asbestos Supervisor
 Nick Sarlamis, Assistant Operation Manager

Authorised By



Nancy Zhang, Laboratory Manager

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		295808-2	295808-7	295808-20	295808-23	295808-28
Your Reference	UNITS	TP 2	TP 5	TP 14	TP 15	TP 18
Depth		0.4-0.5	0.1-0.2	0.6-0.7	0-0.1	0-0.1
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
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	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	98	95	95	95	92

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		295808-31	295808-41	295808-44	295808-45	295808-46
Your Reference	UNITS	TP 21	TP 29	TP 30	TP 31	TP 32
Depth		0-0.1	0.3-0.4	0.8-0.9	0.2-0.3	1.1-1.2
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
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	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	98	94	97	94	95

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		295808-47	295808-51	295808-52	295808-54	295808-58
Your Reference	UNITS	TP 33	TP 35	TP 36	TP 37	TP 39
Depth		0-0.1	0.2-0.3	0-0.1	0.1-0.2	1.8-1.9
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
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	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	98	103	94	77	82

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		295808-59	295808-61	295808-62	295808-63	295808-66
Your Reference	UNITS	TP 40	TP 41	TP 42	TP 43	TP 45
Depth		0.7-0.8	0.2-0.3	0.4-0.5	0.2-0.3	0-0.1
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
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	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	75	84	82	97	93

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		295808-68	295808-70	295808-74	295808-78	295808-89
Your Reference	UNITS	TP 47	TP 49	TP 51	TP 55	TP 62
Depth		0-0.1	0-0.1	0.1-0.2	0-0.1	0-0.1
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
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	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	99	105	89	106	97

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		295808-90	295808-94	295808-99	295808-100	295808-101
Your Reference	UNITS	TP 63	TP 65	TP 68	TP 69	TP 70
Depth		0-0.1	0-0.1	0.3-0.4	0.1-0.2	0.4-0.5
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
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	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	108	82	95	92	79

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		295808-102	295808-104	295808-105	295808-106	295808-107
Your Reference	UNITS	TP 71	Silt 1	Silt 2	Silt 3	Silt 4
Depth		0-0.1	-	-	-	-
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
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	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	89	100	82	85	96

vTRH(C6-C10)/BTEXN in Soil			
Our Reference		295808-112	295808-113
Your Reference	UNITS	Trip Blank 1	Trip Blank 2
Depth		-	-
Date Sampled		17/05/2022	17/05/2022
Type of sample		Soil	Soil
Date extracted	-	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022
TRH C ₆ - C ₉	mg/kg	<25	<25
TRH C ₆ - C ₁₀	mg/kg	<25	<25
vTPH C ₆ - C ₁₀ less BTEX (F1)	mg/kg	<25	<25
Benzene	mg/kg	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1
m+p-xylene	mg/kg	<2	<2
o-Xylene	mg/kg	<1	<1
Naphthalene	mg/kg	<1	<1
Total +ve Xylenes	mg/kg	<1	<1
Surrogate aaa-Trifluorotoluene	%	119	88

svTRH (C10-C40) in Soil						
Our Reference		295808-2	295808-7	295808-20	295808-23	295808-28
Your Reference	UNITS	TP 2	TP 5	TP 14	TP 15	TP 18
Depth		0.4-0.5	0.1-0.2	0.6-0.7	0-0.1	0-0.1
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	21/05/2022	21/05/2022	21/05/2022	21/05/2022	21/05/2022
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
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
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	%	76	78	77	79	75

svTRH (C10-C40) in Soil						
Our Reference		295808-31	295808-41	295808-44	295808-45	295808-46
Your Reference	UNITS	TP 21	TP 29	TP 30	TP 31	TP 32
Depth		0-0.1	0.3-0.4	0.8-0.9	0.2-0.3	1.1-1.2
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	21/05/2022	21/05/2022	21/05/2022	21/05/2022	21/05/2022
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
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
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	81	77	75	77

svTRH (C10-C40) in Soil						
Our Reference		295808-47	295808-51	295808-52	295808-54	295808-58
Your Reference	UNITS	TP 33	TP 35	TP 36	TP 37	TP 39
Depth		0-0.1	0.2-0.3	0-0.1	0.1-0.2	1.8-1.9
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	21/05/2022	21/05/2022	21/05/2022	21/05/2022	21/05/2022
TRH C ₁₀ - C ₁₄	mg/kg	<50	<50	<50	<50	<50
TRH C ₁₅ - C ₂₈	mg/kg	350	<100	<100	<100	<100
TRH C ₂₉ - C ₃₆	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	350	<50	<50	<50	<50
TRH >C ₁₀ -C ₁₆	mg/kg	53	<50	<50	<50	<50
TRH >C ₁₀ - C ₁₆ less Naphthalene (F2)	mg/kg	53	<50	<50	<50	<50
TRH >C ₁₆ -C ₃₄	mg/kg	370	<100	<100	120	<100
TRH >C ₃₄ -C ₄₀	mg/kg	<100	<100	<100	110	<100
Total +ve TRH (>C10-C40)	mg/kg	420	<50	<50	240	<50
Surrogate o-Terphenyl	%	#	77	76	81	73

svTRH (C10-C40) in Soil						
Our Reference		295808-59	295808-61	295808-62	295808-63	295808-66
Your Reference	UNITS	TP 40	TP 41	TP 42	TP 43	TP 45
Depth		0.7-0.8	0.2-0.3	0.4-0.5	0.2-0.3	0-0.1
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	21/05/2022	21/05/2022	21/05/2022	21/05/2022	21/05/2022
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
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
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	%	74	80	77	74	76

svTRH (C10-C40) in Soil						
Our Reference		295808-68	295808-70	295808-74	295808-78	295808-89
Your Reference	UNITS	TP 47	TP 49	TP 51	TP 55	TP 62
Depth		0-0.1	0-0.1	0.1-0.2	0-0.1	0-0.1
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	21/05/2022	21/05/2022	21/05/2022	21/05/2022	21/05/2022
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
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
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	%	78	75	76	74	82

svTRH (C10-C40) in Soil						
Our Reference		295808-90	295808-94	295808-99	295808-100	295808-101
Your Reference	UNITS	TP 63	TP 65	TP 68	TP 69	TP 70
Depth		0-0.1	0-0.1	0.3-0.4	0.1-0.2	0.4-0.5
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	21/05/2022	21/05/2022	21/05/2022	21/05/2022	21/05/2022
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
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
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	%	79	81	81	79	82

svTRH (C10-C40) in Soil						
Our Reference		295808-102	295808-104	295808-105	295808-106	295808-107
Your Reference	UNITS	TP 71	Silt 1	Silt 2	Silt 3	Silt 4
Depth		0-0.1	-	-	-	-
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	21/05/2022	21/05/2022	21/05/2022	21/05/2022	21/05/2022
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
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
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	%	85	86	92	77	78

PAHs in Soil						
Our Reference		295808-2	295808-7	295808-20	295808-23	295808-28
Your Reference	UNITS	TP 2	TP 5	TP 14	TP 15	TP 18
Depth		0.4-0.5	0.1-0.2	0.6-0.7	0-0.1	0-0.1
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
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	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
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	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
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 <i>p</i> -Terphenyl-d14	%	83	76	79	103	87

PAHs in Soil						
Our Reference		295808-31	295808-41	295808-44	295808-45	295808-46
Your Reference	UNITS	TP 21	TP 29	TP 30	TP 31	TP 32
Depth		0-0.1	0.3-0.4	0.8-0.9	0.2-0.3	1.1-1.2
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
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	<0.1	0.1	<0.1	0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	0.2	<0.1	0.2
Pyrene	mg/kg	<0.1	<0.1	0.2	<0.1	0.2
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	0.1
Chrysene	mg/kg	<0.1	<0.1	0.1	<0.1	0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	0.1	<0.05	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	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	0.81	<0.05	0.86
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 <i>p</i> -Terphenyl-d14	%	80	89	106	82	102

PAHs in Soil						
Our Reference		295808-47	295808-51	295808-52	295808-54	295808-58
Your Reference	UNITS	TP 33	TP 35	TP 36	TP 37	TP 39
Depth		0-0.1	0.2-0.3	0-0.1	0.1-0.2	1.8-1.9
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Naphthalene	mg/kg	0.3	<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	1	<0.1	<0.1	0.2	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	<0.1	0.1	<0.1
Pyrene	mg/kg	0.2	<0.1	<0.1	0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.2	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	0.09	<0.05	0.05	0.07	<0.05
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	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	1.8	<0.05	0.05	0.50	<0.05
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 <i>p</i> -Terphenyl-d14	%	106	87	110	105	80

PAHs in Soil						
Our Reference		295808-59	295808-61	295808-62	295808-63	295808-66
Your Reference	UNITS	TP 40	TP 41	TP 42	TP 43	TP 45
Depth		0.7-0.8	0.2-0.3	0.4-0.5	0.2-0.3	0-0.1
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	0.2	<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	<0.1	1.6	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	0.5	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	2.2	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	2.4	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	1.2	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	1.0	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	1.6	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	0.6	<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	<0.1	0.7	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	14	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	2.1	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	2.1	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	2.1	<0.5	<0.5
Surrogate <i>p</i> -Terphenyl-d14	%	107	109	110	104	107

PAHs in Soil						
Our Reference		295808-68	295808-70	295808-74	295808-78	295808-89
Your Reference	UNITS	TP 47	TP 49	TP 51	TP 55	TP 62
Depth		0-0.1	0-0.1	0.1-0.2	0-0.1	0-0.1
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
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	<0.1	<0.1	0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
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	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	0.1	<0.05
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	%	112	109	108	110	113

PAHs in Soil						
Our Reference		295808-90	295808-94	295808-99	295808-100	295808-101
Your Reference	UNITS	TP 63	TP 65	TP 68	TP 69	TP 70
Depth		0-0.1	0-0.1	0.3-0.4	0.1-0.2	0.4-0.5
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
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	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
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	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
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 <i>p</i> -Terphenyl-d14	%	83	85	86	110	86

PAHs in Soil						
Our Reference		295808-102	295808-104	295808-105	295808-106	295808-107
Your Reference	UNITS	TP 71	Silt 1	Silt 2	Silt 3	Silt 4
Depth		0-0.1	-	-	-	-
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
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	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
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	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
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 <i>p</i> -Terphenyl-d14	%	107	91	80	82	85

Organochlorine Pesticides in soil						
Our Reference		295808-2	295808-6	295808-7	295808-11	295808-14
Your Reference	UNITS	TP 2	TP 4	TP 5	TP 7	TP 8
Depth		0.4-0.5	0-0.1	0.1-0.2	0-0.1	0-0.1
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
HCB	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
gamma-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
Endosulfan II	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
Endrin Aldehyde	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
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	82	87	87	101

Organochlorine Pesticides in soil						
Our Reference		295808-19	295808-20	295808-25	295808-28	295808-30
Your Reference	UNITS	TP 13	TP 14	TP 17	TP 18	TP 20
Depth		0-0.1	0.6-0.7	0-0.1	0-0.1	0-0.1
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
HCB	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
gamma-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
Endosulfan II	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
Endrin Aldehyde	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
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	85	89	103	101

Organochlorine Pesticides in soil						
Our Reference		295808-45	295808-51	295808-58	295808-90	295808-94
Your Reference	UNITS	TP 31	TP 35	TP 39	TP 63	TP 65
Depth		0.2-0.3	0.2-0.3	1.8-1.9	0-0.1	0-0.1
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
HCB	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
gamma-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
Endosulfan II	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
Endrin Aldehyde	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
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	93	86	90	93

Organochlorine Pesticides in soil						
Our Reference		295808-99	295808-101	295808-104	295808-105	295808-106
Your Reference	UNITS	TP 68	TP 70	Silt 1	Silt 2	Silt 3
Depth		0.3-0.4	0.4-0.5	-	-	-
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
HCB	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
gamma-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
Endosulfan II	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
Endrin Aldehyde	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
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	%	81	95	88	73	88

Organochlorine Pesticides in soil		
Our Reference		295808-107
Your Reference	UNITS	Silt 4
Depth		-
Date Sampled		17/05/2022
Type of sample		Soil
Date extracted	-	20/05/2022
Date analysed	-	20/05/2022
alpha-BHC	mg/kg	<0.1
HCB	mg/kg	<0.1
beta-BHC	mg/kg	<0.1
gamma-BHC	mg/kg	<0.1
Heptachlor	mg/kg	<0.1
delta-BHC	mg/kg	<0.1
Aldrin	mg/kg	<0.1
Heptachlor Epoxide	mg/kg	<0.1
gamma-Chlordane	mg/kg	<0.1
alpha-chlordane	mg/kg	<0.1
Endosulfan I	mg/kg	<0.1
pp-DDE	mg/kg	<0.1
Dieldrin	mg/kg	<0.1
Endrin	mg/kg	<0.1
Endosulfan II	mg/kg	<0.1
pp-DDD	mg/kg	<0.1
Endrin Aldehyde	mg/kg	<0.1
pp-DDT	mg/kg	<0.1
Endosulfan Sulphate	mg/kg	<0.1
Methoxychlor	mg/kg	<0.1
Total +ve DDT+DDD+DDE	mg/kg	<0.1
Surrogate TCMX	%	77

PCBs in Soil						
Our Reference		295808-2	295808-7	295808-20	295808-28	295808-45
Your Reference	UNITS	TP 2	TP 5	TP 14	TP 18	TP 31
Depth		0.4-0.5	0.1-0.2	0.6-0.7	0-0.1	0.2-0.3
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
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	87	85	103	88

PCBs in Soil						
Our Reference		295808-51	295808-58	295808-90	295808-94	295808-99
Your Reference	UNITS	TP 35	TP 39	TP 63	TP 65	TP 68
Depth		0.2-0.3	1.8-1.9	0-0.1	0-0.1	0.3-0.4
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
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	%	93	86	90	93	81

PCBs in Soil						
Our Reference		295808-101	295808-104	295808-105	295808-106	295808-107
Your Reference	UNITS	TP 70	Silt 1	Silt 2	Silt 3	Silt 4
Depth		0.4-0.5	-	-	-	-
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
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	%	95	88	73	88	77

Acid Extractable metals in soil						
Our Reference		295808-1	295808-2	295808-3	295808-5	295808-6
Your Reference	UNITS	TP 1	TP 2	TP 2	TP 3	TP 4
Depth		0-0.1	0.4-0.5	1.5-1.6	0.1-0.2	0-0.1
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
Arsenic	mg/kg	13	8	12	12	11
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	20	18	23	20	19
Copper	mg/kg	15	25	22	19	19
Lead	mg/kg	18	17	13	23	17
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	7	10	8	9	8
Zinc	mg/kg	20	39	19	27	18

Acid Extractable metals in soil						
Our Reference		295808-7	295808-8	295808-10	295808-11	295808-12
Your Reference	UNITS	TP 5	TP 5	TP 6	TP 7	TP 7
Depth		0.1-0.2	0.6-0.7	0-0.1	0-0.1	0.5-0.6
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
Arsenic	mg/kg	17	17	12	14	14
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	23	27	17	54	23
Copper	mg/kg	21	25	28	66	22
Lead	mg/kg	18	15	23	21	14
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	9	8	8	8	8
Zinc	mg/kg	32	26	26	40	26

Acid Extractable metals in soil						
Our Reference		295808-14	295808-15	295808-16	295808-17	295808-18
Your Reference	UNITS	TP 8	TP 9	TP 10	TP 11	TP 12
Depth		0-0.1	0.1-0.2	0-0.1	0.1-0.2	0-0.1
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
Arsenic	mg/kg	16	14	14	10	10
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	19	22	18	17	21
Copper	mg/kg	48	48	25	47	39
Lead	mg/kg	26	17	17	16	21
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	8	8	7	6	7
Zinc	mg/kg	37	33	44	39	33

Acid Extractable metals in soil						
Our Reference		295808-19	295808-20	295808-21	295808-23	295808-24
Your Reference	UNITS	TP 13	TP 14	TP 14	TP 15	TP 16
Depth		0-0.1	0.6-0.7	1.6-1.7	0-0.1	0.2-0.3
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
Arsenic	mg/kg	7	9	15	6	7
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	17	19	28	16	18
Copper	mg/kg	48	27	22	58	44
Lead	mg/kg	17	16	15	26	20
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	14	10	10	6	6
Zinc	mg/kg	67	36	33	47	42

Acid Extractable metals in soil						
Our Reference		295808-25	295808-26	295808-28	295808-29	295808-30
Your Reference	UNITS	TP 17	TP 17	TP 18	TP 19	TP 20
Depth		0-0.1	0.8-0.9	0-0.1	0.1-0.2	0-0.1
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
Arsenic	mg/kg	6	6	6	6	7
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	16	15	16	19	16
Copper	mg/kg	35	36	34	48	72
Lead	mg/kg	19	16	18	20	20
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	8	11	7	8	5
Zinc	mg/kg	43	51	37	56	41

Acid Extractable metals in soil						
Our Reference		295808-31	295808-32	295808-33	295808-34	295808-35
Your Reference	UNITS	TP 21	TP 22	TP 23	TP 24	TP 25
Depth		0-0.1	0-0.1	0-0.1	0-0.1	0.1-0.2
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
Arsenic	mg/kg	7	8	11	10	9
Cadmium	mg/kg	<0.4	<0.4	0.6	0.4	<0.4
Chromium	mg/kg	17	19	27	18	18
Copper	mg/kg	76	15	53	14	14
Lead	mg/kg	18	15	31	20	22
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	5	8	11	10	9
Zinc	mg/kg	38	21	43	33	30

Acid Extractable metals in soil						
Our Reference		295808-36	295808-37	295808-38	295808-39	295808-40
Your Reference	UNITS	TP 25	TP 25	TP 26	TP 27	TP 28
Depth		0.5-0.6	1.8-1.9	0-0.1	0-0.1	0.1-0.2
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
Arsenic	mg/kg	6	<4	5	5	5
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	15	13	15	16	13
Copper	mg/kg	17	20	8	9	6
Lead	mg/kg	13	12	17	17	11
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	5	4	5	6	4
Zinc	mg/kg	21	23	17	16	11

Acid Extractable metals in soil						
Our Reference		295808-41	295808-42	295808-44	295808-45	295808-46
Your Reference	UNITS	TP 29	TP 29	TP 30	TP 31	TP 32
Depth		0.3-0.4	0.8-0.9	0.8-0.9	0.2-0.3	1.1-1.2
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
Arsenic	mg/kg	11	9	13	18	12
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	19	22	20	19	19
Copper	mg/kg	21	18	24	36	26
Lead	mg/kg	11	14	14	15	190
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	0.1
Nickel	mg/kg	6	6	7	11	10
Zinc	mg/kg	31	26	35	56	100

Acid Extractable metals in soil						
Our Reference		295808-47	295808-48	295808-50	295808-51	295808-52
Your Reference	UNITS	TP 33	TP 33	TP 34	TP 35	TP 36
Depth		0-0.1	0.6-0.7	0.1-0.2	0.2-0.3	0-0.1
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
Arsenic	mg/kg	8	8	8	11	13
Cadmium	mg/kg	0.6	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	8	24	33	23	32
Copper	mg/kg	30	17	18	28	29
Lead	mg/kg	37	18	28	25	34
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	18	10	12	15	24
Zinc	mg/kg	62	30	63	64	87

Acid Extractable metals in soil						
Our Reference		295808-53	295808-54	295808-55	295808-56	295808-58
Your Reference	UNITS	TP 36	TP 37	TP 38	TP 38	TP 39
Depth		0.4-0.5	0.1-0.2	0.2-0.3	0.5-0.6	1.8-1.9
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
Arsenic	mg/kg	12	9	12	15	16
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	35	22	26	31	25
Copper	mg/kg	22	25	22	24	72
Lead	mg/kg	20	30	34	17	92
Mercury	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	18	21	15	10	11
Zinc	mg/kg	29	55	62	24	490

Acid Extractable metals in soil						
Our Reference		295808-59	295808-61	295808-62	295808-63	295808-64
Your Reference	UNITS	TP 40	TP 41	TP 42	TP 43	TP 43
Depth		0.7-0.8	0.2-0.3	0.4-0.5	0.2-0.3	0.7-0.8
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
Arsenic	mg/kg	15	16	12	14	7
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	18	20	27	25	22
Copper	mg/kg	23	25	35	28	23
Lead	mg/kg	24	19	50	21	14
Mercury	mg/kg	<0.1	<0.1	0.1	<0.1	<0.1
Nickel	mg/kg	7	12	12	16	11
Zinc	mg/kg	200	55	110	59	38

Acid Extractable metals in soil						
Our Reference		295808-65	295808-66	295808-67	295808-68	295808-69
Your Reference	UNITS	TP 44	TP 45	TP 46	TP 47	TP 48
Depth		0-0.1	0-0.1	0.1-0.2	0-0.1	0-0.1
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
Arsenic	mg/kg	7	6	10	<4	8
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	19	16	19	17	17
Copper	mg/kg	26	36	28	31	25
Lead	mg/kg	21	23	19	14	28
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	10	16	10	30	13
Zinc	mg/kg	51	57	43	49	50

Acid Extractable metals in soil						
Our Reference		295808-70	295808-71	295808-72	295808-74	295808-75
Your Reference	UNITS	TP 49	TP 50	TP 50	TP 51	TP 52
Depth		0-0.1	0-0.1	0.4-0.5	0.1-0.2	0-0.1
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
Arsenic	mg/kg	4	7	6	4	7
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	17	17	17	9	17
Copper	mg/kg	24	16	18	13	15
Lead	mg/kg	15	19	14	18	22
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	5	7	5	5	8
Zinc	mg/kg	28	30	22	24	36

Acid Extractable metals in soil						
Our Reference		295808-76	295808-77	295808-78	295808-79	295808-80
Your Reference	UNITS	TP 53	TP 54	TP 55	TP 56	TP 57
Depth		0-0.1	0-0.1	0-0.1	0.1-0.2	0-0.1
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
Arsenic	mg/kg	9	7	6	6	10
Cadmium	mg/kg	0.6	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	15	17	18	17	21
Copper	mg/kg	31	15	12	10	11
Lead	mg/kg	24	23	24	18	21
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	18	9	6	5	6
Zinc	mg/kg	62	38	23	16	20

Acid Extractable metals in soil						
Our Reference		295808-81	295808-83	295808-84	295808-85	295808-86
Your Reference	UNITS	TP 57	TP 58	TP 59	TP 60	TP 60
Depth		0.4-0.5	0-0.1	0.1-0.2	0-0.1	0.4-0.5
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
Arsenic	mg/kg	12	7	7	8	7
Cadmium	mg/kg	<0.4	<0.4	<0.4	1	<0.4
Chromium	mg/kg	32	23	24	21	18
Copper	mg/kg	13	8	9	14	16
Lead	mg/kg	22	19	21	17	13
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	8	9	9	10	5
Zinc	mg/kg	22	22	28	21	15

Acid Extractable metals in soil						
Our Reference		295808-88	295808-89	295808-90	295808-91	295808-93
Your Reference	UNITS	TP 61	TP 62	TP 63	TP 63	TP 64
Depth		0.1-0.2	0-0.1	0-0.1	0.5-0.6	0-0.1
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
Arsenic	mg/kg	7	5	6	<4	5
Cadmium	mg/kg	0.5	0.5	<0.4	<0.4	<0.4
Chromium	mg/kg	23	15	17	16	17
Copper	mg/kg	10	21	21	21	17
Lead	mg/kg	17	26	22	14	33
Mercury	mg/kg	<0.1	0.2	<0.1	<0.1	<0.1
Nickel	mg/kg	6	11	13	5	11
Zinc	mg/kg	17	96	46	23	35

Acid Extractable metals in soil

Our Reference		295808-94	295808-95	295808-97	295808-98	295808-99
Your Reference	UNITS	TP 65	TP 65	TP 66	TP 67	TP 68
Depth		0-0.1	1.2-1.3	0-0.1	0-0.1	0.3-0.4
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
Arsenic	mg/kg	8	7	6	6	14
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	15	21	16	19	16
Copper	mg/kg	31	20	30	31	28
Lead	mg/kg	20	15	19	22	19
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	15	8	18	21	15
Zinc	mg/kg	49	26	37	46	63

Acid Extractable metals in soil

Our Reference		295808-100	295808-101	295808-102	295808-103	295808-104
Your Reference	UNITS	TP 69	TP 70	TP 71	TP 72	Silt 1
Depth		0.1-0.2	0.4-0.5	0-0.1	0-0.1	-
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
Arsenic	mg/kg	6	7	<4	6	6
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	15	20	14	15	12
Copper	mg/kg	22	23	15	25	9
Lead	mg/kg	28	23	20	19	14
Mercury	mg/kg	<0.1	<0.1	<0.1	0.2	<0.1
Nickel	mg/kg	9	14	9	10	1
Zinc	mg/kg	36	55	47	50	4

Acid Extractable metals in soil					
Our Reference		295808-105	295808-106	295808-107	295808-120
Your Reference	UNITS	Silt 2	Silt 3	Silt 4	TP 22 - [TRIPLICATE]
Depth		-	-	-	0-0.1
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil
Date prepared	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022
Arsenic	mg/kg	12	7	4	8
Cadmium	mg/kg	<0.4	<0.4	<0.4	0.5
Chromium	mg/kg	5	19	10	22
Copper	mg/kg	15	15	21	9
Lead	mg/kg	9	21	19	15
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	2	4	6	6
Zinc	mg/kg	14	25	24	15

Moisture						
Our Reference		295808-1	295808-2	295808-3	295808-5	295808-6
Your Reference	UNITS	TP 1	TP 2	TP 2	TP 3	TP 4
Depth		0-0.1	0.4-0.5	1.5-1.6	0.1-0.2	0-0.1
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
Moisture	%	20	17	22	24	21

Moisture						
Our Reference		295808-7	295808-8	295808-10	295808-11	295808-12
Your Reference	UNITS	TP 5	TP 5	TP 6	TP 7	TP 7
Depth		0.1-0.2	0.6-0.7	0-0.1	0-0.1	0.5-0.6
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
Moisture	%	21	23	20	20	19

Moisture						
Our Reference		295808-14	295808-15	295808-16	295808-17	295808-18
Your Reference	UNITS	TP 8	TP 9	TP 10	TP 11	TP 12
Depth		0-0.1	0.1-0.2	0-0.1	0.1-0.2	0-0.1
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
Moisture	%	26	21	20	19	23

Moisture						
Our Reference		295808-19	295808-20	295808-21	295808-23	295808-24
Your Reference	UNITS	TP 13	TP 14	TP 14	TP 15	TP 16
Depth		0-0.1	0.6-0.7	1.6-1.7	0-0.1	0.2-0.3
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
Moisture	%	20	18	23	23	17

Moisture						
Our Reference		295808-25	295808-26	295808-28	295808-29	295808-30
Your Reference	UNITS	TP 17	TP 17	TP 18	TP 19	TP 20
Depth		0-0.1	0.8-0.9	0-0.1	0.1-0.2	0-0.1
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
Moisture	%	19	19	19	23	22

Moisture						
Our Reference		295808-31	295808-32	295808-33	295808-34	295808-35
Your Reference	UNITS	TP 21	TP 22	TP 23	TP 24	TP 25
Depth		0-0.1	0-0.1	0-0.1	0-0.1	0.1-0.2
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
Moisture	%	20	19	26	19	21

Moisture						
Our Reference		295808-36	295808-37	295808-38	295808-39	295808-40
Your Reference	UNITS	TP 25	TP 25	TP 26	TP 27	TP 28
Depth		0.5-0.6	1.8-1.9	0-0.1	0-0.1	0.1-0.2
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
Moisture	%	17	16	19	20	15

Moisture						
Our Reference		295808-41	295808-42	295808-44	295808-45	295808-46
Your Reference	UNITS	TP 29	TP 29	TP 30	TP 31	TP 32
Depth		0.3-0.4	0.8-0.9	0.8-0.9	0.2-0.3	1.1-1.2
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
Moisture	%	16	19	17	16	17

Moisture						
Our Reference		295808-47	295808-48	295808-50	295808-51	295808-52
Your Reference	UNITS	TP 33	TP 33	TP 34	TP 35	TP 36
Depth		0-0.1	0.6-0.7	0.1-0.2	0.2-0.3	0-0.1
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
Moisture	%	7.9	20	17	14	23

Moisture						
Our Reference		295808-53	295808-54	295808-55	295808-56	295808-58
Your Reference	UNITS	TP 36	TP 37	TP 38	TP 38	TP 39
Depth		0.4-0.5	0.1-0.2	0.2-0.3	0.5-0.6	1.8-1.9
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
Moisture	%	18	12	20	21	16

Moisture						
Our Reference		295808-59	295808-61	295808-62	295808-63	295808-64
Your Reference	UNITS	TP 40	TP 41	TP 42	TP 43	TP 43
Depth		0.7-0.8	0.2-0.3	0.4-0.5	0.2-0.3	0.7-0.8
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
Moisture	%	14	11	19	17	17

Moisture						
Our Reference		295808-65	295808-66	295808-67	295808-68	295808-69
Your Reference	UNITS	TP 44	TP 45	TP 46	TP 47	TP 48
Depth		0-0.1	0-0.1	0.1-0.2	0-0.1	0-0.1
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
Moisture	%	17	22	19	8.5	22

Moisture						
Our Reference		295808-70	295808-71	295808-72	295808-74	295808-75
Your Reference	UNITS	TP 49	TP 50	TP 50	TP 51	TP 52
Depth		0-0.1	0-0.1	0.4-0.5	0.1-0.2	0-0.1
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
Moisture	%	15	18	16	10	17

Moisture						
Our Reference		295808-76	295808-77	295808-78	295808-79	295808-80
Your Reference	UNITS	TP 53	TP 54	TP 55	TP 56	TP 57
Depth		0-0.1	0-0.1	0-0.1	0.1-0.2	0-0.1
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
Moisture	%	20	18	14	16	18

Moisture						
Our Reference		295808-81	295808-83	295808-84	295808-85	295808-86
Your Reference	UNITS	TP 57	TP 58	TP 59	TP 60	TP 60
Depth		0.4-0.5	0-0.1	0.1-0.2	0-0.1	0.4-0.5
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
Moisture	%	20	18	20	17	18

Moisture						
Our Reference		295808-88	295808-89	295808-90	295808-91	295808-93
Your Reference	UNITS	TP 61	TP 62	TP 63	TP 63	TP 64
Depth		0.1-0.2	0-0.1	0-0.1	0.5-0.6	0-0.1
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
Moisture	%	17	26	21	17	19

Moisture						
Our Reference		295808-94	295808-95	295808-97	295808-98	295808-99
Your Reference	UNITS	TP 65	TP 65	TP 66	TP 67	TP 68
Depth		0-0.1	1.2-1.3	0-0.1	0-0.1	0.3-0.4
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
Moisture	%	21	19	18	18	27

Moisture						
Our Reference		295808-100	295808-101	295808-102	295808-103	295808-104
Your Reference	UNITS	TP 69	TP 70	TP 71	TP 72	Silt 1
Depth		0.1-0.2	0.4-0.5	0-0.1	0-0.1	-
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
Moisture	%	17	28	23	21	20

Moisture						
Our Reference		295808-105	295808-106	295808-107	295808-108	295808-109
Your Reference	UNITS	Silt 2	Silt 3	Silt 4	DUP A	DUP B
Depth		-	-	-	-	-
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
Moisture	%	29	26	29	19	22

Moisture			
Our Reference		295808-110	295808-111
Your Reference	UNITS	DUP C	DUP D
Depth		-	-
Date Sampled		17/05/2022	17/05/2022
Type of sample		Soil	Soil
Date prepared	-	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022
Moisture	%	19	23

Asbestos ID - soils						
Our Reference		295808-2	295808-7	295808-20	295808-23	295808-28
Your Reference	UNITS	TP 2	TP 5	TP 14	TP 15	TP 18
Depth		0.4-0.5	0.1-0.2	0.6-0.7	0-0.1	0-0.1
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	24/05/2022	24/05/2022	24/05/2022	24/05/2022	24/05/2022
Sample mass tested	g	Approx. 30g	Approx. 25g	Approx. 30g	Approx. 30g	Approx. 35g
Sample Description	-	Brown coarse-grained 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	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected				

Asbestos ID - soils						
Our Reference		295808-31	295808-41	295808-44	295808-45	295808-46
Your Reference	UNITS	TP 21	TP 29	TP 30	TP 31	TP 32
Depth		0-0.1	0.3-0.4	0.8-0.9	0.2-0.3	1.1-1.2
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	24/05/2022	24/05/2022	24/05/2022	24/05/2022	24/05/2022
Sample mass tested	g	Approx. 20g	Approx. 30g	Approx. 30g	Approx. 30g	Approx. 30g
Sample Description	-	Brown coarse-grained 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	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected				

Asbestos ID - soils						
Our Reference		295808-47	295808-51	295808-52	295808-54	295808-58
Your Reference	UNITS	TP 33	TP 35	TP 36	TP 37	TP 39
Depth		0-0.1	0.2-0.3	0-0.1	0.1-0.2	1.8-1.9
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	24/05/2022	24/05/2022	24/05/2022	24/05/2022	24/05/2022
Sample mass tested	g	Approx. 35g	Approx. 30g	Approx. 25g	Approx. 30g	Approx. 30g
Sample Description	-	Brown coarse-grained 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	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected				

Asbestos ID - soils						
Our Reference		295808-59	295808-61	295808-62	295808-63	295808-66
Your Reference	UNITS	TP 40	TP 41	TP 42	TP 43	TP 45
Depth		0.7-0.8	0.2-0.3	0.4-0.5	0.2-0.3	0-0.1
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	24/05/2022	24/05/2022	24/05/2022	24/05/2022	24/05/2022
Sample mass tested	g	Approx. 35g	Approx. 35g	Approx. 30g	Approx. 30g	Approx. 25g
Sample Description	-	Brown coarse-grained 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	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected				

Asbestos ID - soils						
Our Reference		295808-68	295808-70	295808-74	295808-78	295808-89
Your Reference	UNITS	TP 47	TP 49	TP 51	TP 55	TP 62
Depth		0-0.1	0-0.1	0.1-0.2	0-0.1	0-0.1
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	24/05/2022	24/05/2022	24/05/2022	24/05/2022	24/05/2022
Sample mass tested	g	Approx. 30g	Approx. 30g	Approx. 40g	Approx. 35g	Approx. 25g
Sample Description	-	Brown coarse-grained 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	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected				

Asbestos ID - soils						
Our Reference		295808-90	295808-94	295808-99	295808-100	295808-101
Your Reference	UNITS	TP 63	TP 65	TP 68	TP 69	TP 70
Depth		0-0.1	0-0.1	0.3-0.4	0.1-0.2	0.4-0.5
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	24/05/2022	24/05/2022	24/05/2022	24/05/2022	24/05/2022
Sample mass tested	g	Approx. 30g	Approx. 25g	Approx. 25g	Approx. 25g	Approx. 30g
Sample Description	-	Brown coarse-grained 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	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected				

Asbestos ID - soils						
Our Reference		295808-102	295808-104	295808-105	295808-106	295808-107
Your Reference	UNITS	TP 71	Silt 1	Silt 2	Silt 3	Silt 4
Depth		0-0.1	-	-	-	-
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	24/05/2022	24/05/2022	24/05/2022	24/05/2022	24/05/2022
Sample mass tested	g	Approx. 35g	Approx. 25g	Approx. 30g	Approx. 50g	Approx. 25g
Sample Description	-	Brown coarse-grained 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	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected				

Asbestos ID - soils					
Our Reference		295808-108	295808-109	295808-110	295808-111
Your Reference	UNITS	DUP A	DUP B	DUP C	DUP D
Depth		-	-	-	-
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil
Date analysed	-	24/05/2022	24/05/2022	24/05/2022	24/05/2022
Sample mass tested	g	Approx. 30g	Approx. 55g	Approx. 30g	Approx. 35g
Sample Description	-	Brown coarse-grained 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

Misc Inorg - Soil						
Our Reference		295808-2	295808-3	295808-4	295808-7	295808-8
Your Reference	UNITS	TP 2	TP 2	TP 2	TP 5	TP 5
Depth		0.4-0.5	1.5-1.6	2.7-2.8	0.1-0.2	0.6-0.7
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	24/05/2022	24/05/2022	24/05/2022	24/05/2022	24/05/2022
Date analysed	-	24/05/2022	24/05/2022	24/05/2022	24/05/2022	24/05/2022
pH 1:5 soil:water	pH Units	5.3	5.3	5.0	5.8	5.3
Electrical Conductivity 1:5 soil:water	µS/cm	42	230	440	29	79
Chloride, Cl 1:5 soil:water	mg/kg	<10	150	480	<10	10
Sulphate, SO4 1:5 soil:water	mg/kg	37	180	67	10	100
Resistivity in soil*	ohm m	240	43	23	340	130

Misc Inorg - Soil						
Our Reference		295808-9	295808-11	295808-12	295808-13	295808-20
Your Reference	UNITS	TP 5	TP 7	TP 7	TP 7	TP 14
Depth		1.4-1.5	0-0.1	0.5-0.6	1.4-1.5	0.6-0.7
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	24/05/2022	24/05/2022	24/05/2022	24/05/2022	24/05/2022
Date analysed	-	24/05/2022	24/05/2022	24/05/2022	24/05/2022	24/05/2022
pH 1:5 soil:water	pH Units	5.5	5.9	6.0	5.2	6.6
Electrical Conductivity 1:5 soil:water	µS/cm	88	31	74	130	40
Chloride, Cl 1:5 soil:water	mg/kg	10	[NA]	<10	20	<10
Sulphate, SO4 1:5 soil:water	mg/kg	71	[NA]	65	180	<10
Resistivity in soil*	ohm m	110	[NA]	140	78	250

Misc Inorg - Soil						
Our Reference		295808-21	295808-22	295808-25	295808-26	295808-27
Your Reference	UNITS	TP 14	TP 14	TP 17	TP 17	TP 17
Depth		1.6-1.7	2.3-2.4	0-0.1	0.8-0.9	1.9-2
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	24/05/2022	24/05/2022	24/05/2022	24/05/2022	24/05/2022
Date analysed	-	24/05/2022	24/05/2022	24/05/2022	24/05/2022	24/05/2022
pH 1:5 soil:water	pH Units	5.2	5.2	5.4	5.0	4.7
Electrical Conductivity 1:5 soil:water	µS/cm	130	320	45	150	590
Chloride, Cl 1:5 soil:water	mg/kg	10	190	[NA]	65	540
Sulphate, SO4 1:5 soil:water	mg/kg	200	240	[NA]	150	270
Resistivity in soil*	ohm m	75	31	[NA]	65	17

Misc Inorg - Soil						
Our Reference		295808-35	295808-36	295808-37	295808-41	295808-42
Your Reference	UNITS	TP 25	TP 25	TP 25	TP 29	TP 29
Depth		0.1-0.2	0.5-0.6	1.8-1.9	0.3-0.4	0.8-0.9
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	24/05/2022	24/05/2022	24/05/2022	24/05/2022	24/05/2022
Date analysed	-	24/05/2022	24/05/2022	24/05/2022	24/05/2022	24/05/2022
pH 1:5 soil:water	pH Units	5.7	4.8	4.7	5.2	5.4
Electrical Conductivity 1:5 soil:water	µS/cm	8	500	590	58	91
Chloride, Cl 1:5 soil:water	mg/kg	[NA]	520	580	10	10
Sulphate, SO4 1:5 soil:water	mg/kg	[NA]	140	170	53	120
Resistivity in soil*	ohm m	[NA]	20	17	170	110

Misc Inorg - Soil						
Our Reference		295808-43	295808-48	295808-49	295808-55	295808-56
Your Reference	UNITS	TP 29	TP 33	TP 33	TP 38	TP 38
Depth		1.4-1.5	0.6-0.7	1.9-2	0.2-0.3	0.5-0.6
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	24/05/2022	24/05/2022	24/05/2022	24/05/2022	24/05/2022
Date analysed	-	24/05/2022	24/05/2022	24/05/2022	24/05/2022	24/05/2022
pH 1:5 soil:water	pH Units	5.2	5.1	4.7	6.3	5.2
Electrical Conductivity 1:5 soil:water	µS/cm	140	180	590	37	280
Chloride, Cl 1:5 soil:water	mg/kg	83	73	670	[NA]	150
Sulphate, SO4 1:5 soil:water	mg/kg	59	180	100	[NA]	260
Resistivity in soil*	ohm m	73	57	17	[NA]	36

Misc Inorg - Soil						
Our Reference		295808-57	295808-71	295808-72	295808-73	295808-80
Your Reference	UNITS	TP 38	TP 50	TP 50	TP 50	TP 57
Depth		1.5-1.6	0-0.1	0.4-0.5	1.5-1.6	0-0.1
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	24/05/2022	24/05/2022	24/05/2022	24/05/2022	24/05/2022
Date analysed	-	24/05/2022	24/05/2022	24/05/2022	24/05/2022	24/05/2022
pH 1:5 soil:water	pH Units	5.1	5.9	5.5	4.7	5.6
Electrical Conductivity 1:5 soil:water	µS/cm	310	26	53	480	22
Chloride, Cl 1:5 soil:water	mg/kg	200	[NA]	10	420	[NA]
Sulphate, SO4 1:5 soil:water	mg/kg	150	[NA]	32	190	[NA]
Resistivity in soil*	ohm m	32	[NA]	190	21	[NA]

Misc Inorg - Soil						
Our Reference		295808-81	295808-82	295808-85	295808-86	295808-87
Your Reference	UNITS	TP 57	TP 57	TP 60	TP 60	TP 60
Depth		0.4-0.5	1.6-1.7	0-0.1	0.4-0.5	1.8-1.9
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	24/05/2022	24/05/2022	24/05/2022	24/05/2022	24/05/2022
Date analysed	-	24/05/2022	24/05/2022	24/05/2022	24/05/2022	24/05/2022
pH 1:5 soil:water	pH Units	5.7	5.0	5.8	5.2	5.0
Electrical Conductivity 1:5 soil:water	µS/cm	32	240	75	280	390
Chloride, Cl 1:5 soil:water	mg/kg	<10	180	[NA]	150	280
Sulphate, SO4 1:5 soil:water	mg/kg	22	77	[NA]	200	160
Resistivity in soil*	ohm m	310	41	[NA]	35	26

Misc Inorg - Soil						
Our Reference		295808-90	295808-91	295808-92	295808-94	295808-95
Your Reference	UNITS	TP 63	TP 63	TP 63	TP 65	TP 65
Depth		0-0.1	0.5-0.6	1.4-1.5	0-0.1	1.2-1.3
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	24/05/2022	24/05/2022	24/05/2022	24/05/2022	24/05/2022
Date analysed	-	24/05/2022	24/05/2022	24/05/2022	24/05/2022	24/05/2022
pH 1:5 soil:water	pH Units	6.1	5.2	5.2	6.6	6.1
Electrical Conductivity 1:5 soil:water	µS/cm	52	190	240	43	100
Chloride, Cl 1:5 soil:water	mg/kg	[NA]	83	130	<10	10
Sulphate, SO4 1:5 soil:water	mg/kg	[NA]	150	170	20	100
Resistivity in soil*	ohm m	[NA]	52	41	230	96

Misc Inorg - Soil						
Our Reference		295808-96	295808-104	295808-105	295808-106	295808-107
Your Reference	UNITS	TP 65	Silt 1	Silt 2	Silt 3	Silt 4
Depth		2.1-2.2	-	-	-	-
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	24/05/2022	24/05/2022	24/05/2022	24/05/2022	24/05/2022
Date analysed	-	24/05/2022	24/05/2022	24/05/2022	24/05/2022	24/05/2022
pH 1:5 soil:water	pH Units	5.3	6.3	5.2	5.4	6.8
Electrical Conductivity 1:5 soil:water	µS/cm	170	34	42	55	98
Chloride, Cl 1:5 soil:water	mg/kg	40	<10	<10	<10	<10
Sulphate, SO4 1:5 soil:water	mg/kg	170	10	20	39	37
Resistivity in soil*	ohm m	59	[NA]	[NA]	[NA]	[NA]

ESP/CEC						
Our Reference		295808-1	295808-17	295808-28	295808-35	295808-66
Your Reference	UNITS	TP 1	TP 11	TP 18	TP 25	TP 45
Depth		0-0.1	0.1-0.2	0-0.1	0.1-0.2	0-0.1
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	25/05/2022	25/05/2022	25/05/2022	25/05/2022	25/05/2022
Date analysed	-	25/05/2022	25/05/2022	25/05/2022	25/05/2022	25/05/2022
Exchangeable Ca	meq/100g	4.2	6.8	6.8	1.3	9.0
Exchangeable K	meq/100g	0.2	0.2	0.7	0.5	0.8
Exchangeable Mg	meq/100g	3.6	2.5	5.8	3.2	4.2
Exchangeable Na	meq/100g	0.2	<0.1	0.3	0.2	<0.1
Cation Exchange Capacity	meq/100g	8.2	9.6	14	5.2	14
ESP	%	3	[NT]	2	4	<1

ESP/CEC			
Our Reference		295808-84	295808-101
Your Reference	UNITS	TP 59	TP 70
Depth		0.1-0.2	0.4-0.5
Date Sampled		17/05/2022	17/05/2022
Type of sample		Soil	Soil
Date prepared	-	25/05/2022	25/05/2022
Date analysed	-	25/05/2022	25/05/2022
Exchangeable Ca	meq/100g	4.7	13
Exchangeable K	meq/100g	0.4	0.9
Exchangeable Mg	meq/100g	2.4	6.1
Exchangeable Na	meq/100g	0.1	<0.1
Cation Exchange Capacity	meq/100g	7.5	20
ESP	%	2	<1

Asbestos ID - materials		
Our Reference		295808-60
Your Reference	UNITS	TP 40 - Fragment
Depth		-
Date Sampled		17/05/2022
Type of sample		Material
Date analysed	-	24/05/2022
Mass / Dimension of Sample	-	95x65x5mm
Sample Description	-	Grey fibre cement material
Asbestos ID in materials	-	Chrysotile asbestos detected
Trace Analysis	-	[NT]

vTRH(C6-C10)/BTEXN in Water					
Our Reference		295808-116	295808-117	295808-118	295808-119
Your Reference	UNITS	DW 1	DW 2	DW 3	DW 4
Depth		-	-	-	-
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Water	Water	Water	Water
Date extracted	-	19/05/2022	19/05/2022	19/05/2022	19/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022
TRH C ₆ - C ₉	µg/L	<10	<10	<10	<10
TRH C ₆ - C ₁₀	µg/L	<10	<10	<10	<10
TRH C ₆ - C ₁₀ less BTEX (F1)	µg/L	<10	<10	<10	<10
Benzene	µg/L	<1	<1	<1	<1
Toluene	µg/L	<1	<1	<1	<1
Ethylbenzene	µg/L	<1	<1	<1	<1
m+p-xylene	µg/L	<2	<2	<2	<2
o-xylene	µg/L	<1	<1	<1	<1
Naphthalene	µg/L	<1	<1	<1	<1
Surrogate Dibromofluoromethane	%	97	95	97	95
Surrogate toluene-d8	%	101	101	102	100
Surrogate 4-BFB	%	102	100	102	103

svTRH (C10-C40) in Water					
Our Reference		295808-116	295808-117	295808-118	295808-119
Your Reference	UNITS	DW 1	DW 2	DW 3	DW 4
Depth		-	-	-	-
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Water	Water	Water	Water
Date extracted	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	21/05/2022	21/05/2022	21/05/2022	21/05/2022
TRH C ₁₀ - C ₁₄	µg/L	<50	<50	66	<50
TRH C ₁₅ - C ₂₈	µg/L	<100	120	<100	<100
TRH C ₂₉ - C ₃₆	µg/L	<100	<100	<100	<100
Total +ve TRH (C10-C36)	µg/L	<50	120	70	<50
TRH >C ₁₀ - C ₁₆	µg/L	<50	<50	<50	<50
TRH >C ₁₀ - C ₁₆ less Naphthalene (F2)	µg/L	<50	<50	<50	<50
TRH >C ₁₆ - C ₃₄	µg/L	<100	180	<100	<100
TRH >C ₃₄ - C ₄₀	µg/L	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	µg/L	<50	180	<50	<50
Surrogate o-Terphenyl	%	85	89	87	87

PAHs in Water					
Our Reference		295808-116	295808-117	295808-118	295808-119
Your Reference	UNITS	DW 1	DW 2	DW 3	DW 4
Depth		-	-	-	-
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Water	Water	Water	Water
Date extracted	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	21/05/2022	21/05/2022	21/05/2022	21/05/2022
Naphthalene	µg/L	<1	<1	<1	<1
Acenaphthylene	µg/L	<1	<1	<1	<1
Acenaphthene	µg/L	<1	<1	<1	<1
Fluorene	µg/L	<1	<1	<1	<1
Phenanthrene	µg/L	<1	<1	<1	<1
Anthracene	µg/L	<1	<1	<1	<1
Fluoranthene	µg/L	<1	<1	<1	<1
Pyrene	µg/L	<1	<1	<1	<1
Benzo(a)anthracene	µg/L	<1	<1	<1	<1
Chrysene	µg/L	<1	<1	<1	<1
Benzo(b,j+k)fluoranthene	µg/L	<2	<2	<2	<2
Benzo(a)pyrene	µg/L	<1	<1	<1	<1
Indeno(1,2,3-c,d)pyrene	µg/L	<1	<1	<1	<1
Dibenzo(a,h)anthracene	µg/L	<1	<1	<1	<1
Benzo(g,h,i)perylene	µg/L	<1	<1	<1	<1
Benzo(a)pyrene TEQ	µg/L	<5	<5	<5	<5
Total +ve PAH's	µg/L	NIL (+)VE	NIL (+)VE	NIL (+)VE	NIL (+)VE
Surrogate <i>p</i> -Terphenyl-d14	%	84	91	112	90

Organochlorine Pesticides in Water					
Our Reference		295808-116	295808-117	295808-118	295808-119
Your Reference	UNITS	DW 1	DW 2	DW 3	DW 4
Depth		-	-	-	-
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Water	Water	Water	Water
Date extracted	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	21/05/2022	21/05/2022	21/05/2022	21/05/2022
alpha-BHC	µg/L	<0.2	<0.2	<0.2	<0.2
HCB	µg/L	<0.2	<0.2	<0.2	<0.2
beta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2
gamma-BHC	µg/L	<0.2	<0.2	<0.2	<0.2
Heptachlor	µg/L	<0.2	<0.2	<0.2	<0.2
delta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2
Aldrin	µg/L	<0.2	<0.2	<0.2	<0.2
Heptachlor Epoxide	µg/L	<0.2	<0.2	<0.2	<0.2
gamma-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2
alpha-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2
Endosulfan I	µg/L	<0.2	<0.2	<0.2	<0.2
pp-DDE	µg/L	<0.2	<0.2	<0.2	<0.2
Dieldrin	µg/L	<0.2	<0.2	<0.2	<0.2
Endrin	µg/L	<0.2	<0.2	<0.2	<0.2
Endosulfan II	µg/L	<0.2	<0.2	<0.2	<0.2
pp-DDD	µg/L	<0.2	<0.2	<0.2	<0.2
Endrin Aldehyde	µg/L	<0.2	<0.2	<0.2	<0.2
pp-DDT	µg/L	<0.2	<0.2	<0.2	<0.2
Endosulfan Sulphate	µg/L	<0.2	<0.2	<0.2	<0.2
Methoxychlor	µg/L	<0.2	<0.2	<0.2	<0.2
Surrogate TCMX	%	83	89	110	89

PCBs in Water					
Our Reference		295808-116	295808-117	295808-118	295808-119
Your Reference	UNITS	DW 1	DW 2	DW 3	DW 4
Depth		-	-	-	-
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Water	Water	Water	Water
Date extracted	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	21/05/2022	21/05/2022	21/05/2022	21/05/2022
Aroclor 1016	µg/L	<2	<2	<2	<2
Aroclor 1221	µg/L	<2	<2	<2	<2
Aroclor 1232	µg/L	<2	<2	<2	<2
Aroclor 1242	µg/L	<2	<2	<2	<2
Aroclor 1248	µg/L	<2	<2	<2	<2
Aroclor 1254	µg/L	<2	<2	<2	<2
Aroclor 1260	µg/L	<2	<2	<2	<2
Surrogate TCMX	%	83	89	110	89

HM in water - total						
Our Reference		295808-114	295808-115	295808-116	295808-117	295808-118
Your Reference	UNITS	Rinsate 1	Rinsate 2	DW 1	DW 2	DW 3
Depth		-	-	-	-	-
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	24/05/2022	24/05/2022	24/05/2022	24/05/2022	24/05/2022
Date analysed	-	24/05/2022	24/05/2022	24/05/2022	24/05/2022	24/05/2022
Arsenic-Total	µg/L	<1	<1	4	4	12
Cadmium-Total	µg/L	<0.1	<0.1	0.2	<0.1	0.4
Chromium-Total	µg/L	<1	<1	5	2	9
Copper-Total	µg/L	<1	<1	23	4	120
Lead-Total	µg/L	<1	<1	13	3	140
Mercury-Total	µg/L	<0.05	<0.05	<0.05	<0.05	0.08
Nickel-Total	µg/L	<1	<1	7	2	8
Zinc-Total	µg/L	<1	<1	100	7	560

HM in water - total		
Our Reference		295808-119
Your Reference	UNITS	DW 4
Depth		-
Date Sampled		17/05/2022
Type of sample		Water
Date prepared	-	24/05/2022
Date analysed	-	24/05/2022
Arsenic-Total	µg/L	2
Cadmium-Total	µg/L	0.4
Chromium-Total	µg/L	1
Copper-Total	µg/L	8
Lead-Total	µg/L	7
Mercury-Total	µg/L	<0.05
Nickel-Total	µg/L	3
Zinc-Total	µg/L	49

Metals in Waters - Acid extractable					
Our Reference		295808-116	295808-117	295808-118	295808-119
Your Reference	UNITS	DW 1	DW 2	DW 3	DW 4
Depth		-	-	-	-
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Water	Water	Water	Water
Date prepared	-	25/05/2022	25/05/2022	25/05/2022	25/05/2022
Date analysed	-	25/05/2022	25/05/2022	25/05/2022	25/05/2022
Phosphorus - Total	mg/L	0.7	<0.05	0.9	0.3

Cations in water Dissolved					
Our Reference		295808-116	295808-117	295808-118	295808-119
Your Reference	UNITS	DW 1	DW 2	DW 3	DW 4
Depth		-	-	-	-
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Water	Water	Water	Water
Date digested	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Calcium - Dissolved	mg/L	19	2	12	9.1
Magnesium - Dissolved	mg/L	7.4	3	6.7	5.1
Hardness	mgCaCO ₃ /L	77	16	57	44

Miscellaneous Inorganics					
Our Reference		295808-116	295808-117	295808-118	295808-119
Your Reference	UNITS	DW 1	DW 2	DW 3	DW 4
Depth		-	-	-	-
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Water	Water	Water	Water
Date prepared	-	18/05/2022	18/05/2022	18/05/2022	18/05/2022
Date analysed	-	18/05/2022	18/05/2022	18/05/2022	18/05/2022
pH	pH Units	6.9	6.7	6.9	7.0
Electrical Conductivity	µS/cm	310	150	250	200
Chloride, Cl	mg/L	21	23	19	15
Sulphate, SO4	mg/L	8	2	4	1
Turbidity	NTU	600	340	750	180
Total Dissolved Solids (grav)	mg/L	290	190	230	220
Total Suspended Solids	mg/L	1,500	370	770	210
Total Nitrogen in water	mg/L	1.5	1.2	0.9	1.4

Microbiological Testing					
Our Reference		295808-116	295808-117	295808-118	295808-119
Your Reference	UNITS	DW 1	DW 2	DW 3	DW 4
Depth		-	-	-	-
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Water	Water	Water	Water
Date of testing	-	19/05/2022	19/05/2022	19/05/2022	19/05/2022
E. coli	cfu/100mL	4,000 A NBO	2000 A	2,000 A	6,000 A NBO
Enterococci	cfu/100mL	240	30A	140	910
Faecal Coliforms	cfu/100mL	4,000 A NBO	2,000 A	2,000 A	6,000 A NBO

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.
Ext-008	Subcontracted to Sonic Food & Water Testing. NATA Accreditation No. 4034.
Inorg-001	pH - Measured using pH meter and electrode in accordance with APHA latest edition, 4500-H+. Please note that the results for water analyses are indicative only, as analysis outside of the APHA storage times.
Inorg-002	Conductivity and Salinity - measured using a conductivity cell at 25°C in accordance with APHA latest edition 2510 and Rayment & Lyons.
Inorg-002	Conductivity and Salinity - measured using a conductivity cell at 25oC in accordance with APHA 22nd ED 2510 and Rayment & Lyons. Resistivity is calculated from Conductivity (non NATA). Resistivity (calculated) may not correlate with results otherwise obtained using Resistivity-Current method, depending on the nature of the soil being analysed.
Inorg-008	Moisture content determined by heating at 105+/-5 °C for a minimum of 12 hours.
Inorg-018	Total Dissolved Solids - determined gravimetrically. The solids are dried at 180+/-10°C.
Inorg-019	Suspended Solids - determined gravimetrically by filtration of the sample. The samples are dried at 104+/-5°C.
Inorg-022	Turbidity - measured nephelometrically using a turbidimeter, in accordance with APHA latest edition, 2130-B.
Inorg-055/062/127	Total Nitrogen - Calculation sum of TKN and oxidised Nitrogen. Alternatively analysed by combustion and chemiluminescence.
Inorg-081	Anions - a range of Anions are determined by Ion Chromatography, in accordance with APHA latest edition, 4110-B. Waters samples are filtered on receipt prior to analysis. Alternatively determined by colourimetry/turbidity using Discrete Analyser.
Metals-020	Determination of various metals by ICP-AES.
Metals-020	Determination of exchangeable cations and cation exchange capacity in soils using 1M Ammonium Chloride exchange and ICP-OES analytical finish.
Metals-021	Determination of Mercury by Cold Vapour AAS.
Metals-022	Determination of various metals by ICP-MS.
Org-020	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.
Org-020	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-021	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD.

Method ID	Methodology Summary
Org-021	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-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS.
Org-022/025	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-MS/GC-MSMS. 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-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS and/or GC-MS/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-023	Water samples are analysed directly by purge and trap GC-MS.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
Org-023	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-023	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.

Client Reference: JC22432A, 15 George Rd & 40-52 Hulls Rd Leppington

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-2	295808-7
Date extracted	-			20/05/2022	2	20/05/2022	20/05/2022		20/05/2022	20/05/2022
Date analysed	-			23/05/2022	2	23/05/2022	23/05/2022		23/05/2022	23/05/2022
TRH C ₆ - C ₉	mg/kg	25	Org-023	<25	2	<25	<25	0	108	103
TRH C ₆ - C ₁₀	mg/kg	25	Org-023	<25	2	<25	<25	0	108	103
Benzene	mg/kg	0.2	Org-023	<0.2	2	<0.2	<0.2	0	100	95
Toluene	mg/kg	0.5	Org-023	<0.5	2	<0.5	<0.5	0	107	100
Ethylbenzene	mg/kg	1	Org-023	<1	2	<1	<1	0	114	110
m+p-xylene	mg/kg	2	Org-023	<2	2	<2	<2	0	109	104
o-Xylene	mg/kg	1	Org-023	<1	2	<1	<1	0	117	110
Naphthalene	mg/kg	1	Org-023	<1	2	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	113	2	98	95	3	105	95

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-3	295808-94
Date extracted	-			[NT]	45	20/05/2022	20/05/2022		20/05/2022	20/05/2022
Date analysed	-			[NT]	45	23/05/2022	23/05/2022		23/05/2022	23/05/2022
TRH C ₆ - C ₉	mg/kg	25	Org-023	[NT]	45	<25	<25	0	93	91
TRH C ₆ - C ₁₀	mg/kg	25	Org-023	[NT]	45	<25	<25	0	93	91
Benzene	mg/kg	0.2	Org-023	[NT]	45	<0.2	<0.2	0	93	99
Toluene	mg/kg	0.5	Org-023	[NT]	45	<0.5	<0.5	0	97	92
Ethylbenzene	mg/kg	1	Org-023	[NT]	45	<1	<1	0	93	89
m+p-xylene	mg/kg	2	Org-023	[NT]	45	<2	<2	0	92	88
o-Xylene	mg/kg	1	Org-023	[NT]	45	<1	<1	0	87	87
Naphthalene	mg/kg	1	Org-023	[NT]	45	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	45	94	94	0	94	100

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-6	[NT]
Date extracted	-			[NT]	90	20/05/2022	20/05/2022		20/05/2022	[NT]
Date analysed	-			[NT]	90	23/05/2022	23/05/2022		23/05/2022	[NT]
TRH C ₆ - C ₉	mg/kg	25	Org-023	[NT]	90	<25	<25	0	101	[NT]
TRH C ₆ - C ₁₀	mg/kg	25	Org-023	[NT]	90	<25	<25	0	101	[NT]
Benzene	mg/kg	0.2	Org-023	[NT]	90	<0.2	<0.2	0	101	[NT]
Toluene	mg/kg	0.5	Org-023	[NT]	90	<0.5	<0.5	0	99	[NT]
Ethylbenzene	mg/kg	1	Org-023	[NT]	90	<1	<1	0	100	[NT]
m+p-xylene	mg/kg	2	Org-023	[NT]	90	<2	<2	0	102	[NT]
o-Xylene	mg/kg	1	Org-023	[NT]	90	<1	<1	0	98	[NT]
Naphthalene	mg/kg	1	Org-023	[NT]	90	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	90	108	95	13	98	[NT]

Client Reference: JC22432A, 15 George Rd & 40-52 Hulls Rd Leppington

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]	101	20/05/2022	20/05/2022		[NT]	[NT]
Date analysed	-			[NT]	101	23/05/2022	23/05/2022		[NT]	[NT]
TRH C ₆ - C ₉	mg/kg	25	Org-023	[NT]	101	<25	<25	0	[NT]	[NT]
TRH C ₆ - C ₁₀	mg/kg	25	Org-023	[NT]	101	<25	<25	0	[NT]	[NT]
Benzene	mg/kg	0.2	Org-023	[NT]	101	<0.2	<0.2	0	[NT]	[NT]
Toluene	mg/kg	0.5	Org-023	[NT]	101	<0.5	<0.5	0	[NT]	[NT]
Ethylbenzene	mg/kg	1	Org-023	[NT]	101	<1	<1	0	[NT]	[NT]
m+p-xylene	mg/kg	2	Org-023	[NT]	101	<2	<2	0	[NT]	[NT]
o-Xylene	mg/kg	1	Org-023	[NT]	101	<1	<1	0	[NT]	[NT]
Naphthalene	mg/kg	1	Org-023	[NT]	101	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	101	79	99	22	[NT]	[NT]

Client Reference: JC22432A, 15 George Rd & 40-52 Hulls Rd Leppington

QUALITY CONTROL: svTRH (C10-C40) in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-2	295808-7
Date extracted	-			20/05/2022	2	20/05/2022	20/05/2022		20/05/2022	20/05/2022
Date analysed	-			21/05/2022	2	21/05/2022	21/05/2022		21/05/2022	21/05/2022
TRH C ₁₀ - C ₁₄	mg/kg	50	Org-020	<50	2	<50	<50	0	97	94
TRH C ₁₅ - C ₂₈	mg/kg	100	Org-020	<100	2	<100	<100	0	85	83
TRH C ₂₉ - C ₃₆	mg/kg	100	Org-020	<100	2	<100	<100	0	102	96
TRH >C ₁₀ -C ₁₆	mg/kg	50	Org-020	<50	2	<50	<50	0	97	94
TRH >C ₁₆ -C ₃₄	mg/kg	100	Org-020	<100	2	<100	<100	0	85	83
TRH >C ₃₄ -C ₄₀	mg/kg	100	Org-020	<100	2	<100	<100	0	102	96
Surrogate o-Terphenyl	%		Org-020	78	2	76	80	5	116	117

QUALITY CONTROL: svTRH (C10-C40) in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-3	295808-94
Date extracted	-			[NT]	45	20/05/2022	20/05/2022		20/05/2022	20/05/2022
Date analysed	-			[NT]	45	21/05/2022	21/05/2022		21/05/2022	21/05/2022
TRH C ₁₀ - C ₁₄	mg/kg	50	Org-020	[NT]	45	<50	<50	0	108	105
TRH C ₁₅ - C ₂₈	mg/kg	100	Org-020	[NT]	45	<100	<100	0	93	102
TRH C ₂₉ - C ₃₆	mg/kg	100	Org-020	[NT]	45	<100	<100	0	117	97
TRH >C ₁₀ -C ₁₆	mg/kg	50	Org-020	[NT]	45	<50	<50	0	108	105
TRH >C ₁₆ -C ₃₄	mg/kg	100	Org-020	[NT]	45	<100	<100	0	93	102
TRH >C ₃₄ -C ₄₀	mg/kg	100	Org-020	[NT]	45	<100	<100	0	117	97
Surrogate o-Terphenyl	%		Org-020	[NT]	45	75	78	4	101	86

QUALITY CONTROL: svTRH (C10-C40) in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	90	20/05/2022	20/05/2022		[NT]	[NT]
Date analysed	-			[NT]	90	21/05/2022	21/05/2022		[NT]	[NT]
TRH C ₁₀ - C ₁₄	mg/kg	50	Org-020	[NT]	90	<50	<50	0	[NT]	[NT]
TRH C ₁₅ - C ₂₈	mg/kg	100	Org-020	[NT]	90	<100	<100	0	[NT]	[NT]
TRH C ₂₉ - C ₃₆	mg/kg	100	Org-020	[NT]	90	<100	<100	0	[NT]	[NT]
TRH >C ₁₀ -C ₁₆	mg/kg	50	Org-020	[NT]	90	<50	<50	0	[NT]	[NT]
TRH >C ₁₆ -C ₃₄	mg/kg	100	Org-020	[NT]	90	<100	<100	0	[NT]	[NT]
TRH >C ₃₄ -C ₄₀	mg/kg	100	Org-020	[NT]	90	<100	<100	0	[NT]	[NT]
Surrogate o-Terphenyl	%		Org-020	[NT]	90	79	83	5	[NT]	[NT]

Client Reference: JC22432A, 15 George Rd & 40-52 Hulls Rd Leppington

QUALITY CONTROL: svTRH (C10-C40) in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	101	20/05/2022	20/05/2022		[NT]	[NT]
Date analysed	-			[NT]	101	21/05/2022	21/05/2022		[NT]	[NT]
TRH C ₁₀ - C ₁₄	mg/kg	50	Org-020	[NT]	101	<50	<50	0	[NT]	[NT]
TRH C ₁₅ - C ₂₈	mg/kg	100	Org-020	[NT]	101	<100	<100	0	[NT]	[NT]
TRH C ₂₉ - C ₃₆	mg/kg	100	Org-020	[NT]	101	<100	<100	0	[NT]	[NT]
TRH >C ₁₀ -C ₁₆	mg/kg	50	Org-020	[NT]	101	<50	<50	0	[NT]	[NT]
TRH >C ₁₆ -C ₃₄	mg/kg	100	Org-020	[NT]	101	<100	<100	0	[NT]	[NT]
TRH >C ₃₄ -C ₄₀	mg/kg	100	Org-020	[NT]	101	<100	<100	0	[NT]	[NT]
Surrogate o-Terphenyl	%		Org-020	[NT]	101	82	85	4	[NT]	[NT]

Client Reference: JC22432A, 15 George Rd & 40-52 Hulls Rd Leppington

QUALITY CONTROL: PAHs in Soil				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-2	295808-7
Date extracted	-			20/05/2022	2	20/05/2022	20/05/2022		20/05/2022	20/05/2022
Date analysed	-			20/05/2022	2	20/05/2022	20/05/2022		20/05/2022	20/05/2022
Naphthalene	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	88	93
Acenaphthylene	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	85	89
Fluorene	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	95	101
Phenanthrene	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	82	86
Anthracene	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	78	79
Pyrene	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	81	91
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	81	87
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	<0.2	2	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	<0.05	2	<0.05	<0.05	0	122	106
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	87	2	83	80	4	83	90

QUALITY CONTROL: PAHs in Soil				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-3	295808-94
Date extracted	-			[NT]	45	20/05/2022	20/05/2022		20/05/2022	20/05/2022
Date analysed	-			[NT]	45	20/05/2022	20/05/2022		20/05/2022	20/05/2022
Naphthalene	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	<0.1	0	93	93
Acenaphthylene	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	<0.1	0	89	89
Fluorene	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	<0.1	0	97	97
Phenanthrene	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	<0.1	0	82	82
Anthracene	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	<0.1	0	88	99
Pyrene	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	<0.1	0	103	101
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	<0.1	0	91	89
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	[NT]	45	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	[NT]	45	<0.05	<0.05	0	90	96
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	45	82	88	7	82	94

Client Reference: JC22432A, 15 George Rd & 40-52 Hulls Rd Leppington

QUALITY CONTROL: PAHs in Soil				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	90	20/05/2022	20/05/2022		[NT]	[NT]
Date analysed	-			[NT]	90	20/05/2022	20/05/2022		[NT]	[NT]
Naphthalene	mg/kg	0.1	Org-022/025	[NT]	90	<0.1	<0.1	0	[NT]	[NT]
Acenaphthylene	mg/kg	0.1	Org-022/025	[NT]	90	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	[NT]	90	<0.1	<0.1	0	[NT]	[NT]
Fluorene	mg/kg	0.1	Org-022/025	[NT]	90	<0.1	<0.1	0	[NT]	[NT]
Phenanthrene	mg/kg	0.1	Org-022/025	[NT]	90	<0.1	<0.1	0	[NT]	[NT]
Anthracene	mg/kg	0.1	Org-022/025	[NT]	90	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	[NT]	90	<0.1	<0.1	0	[NT]	[NT]
Pyrene	mg/kg	0.1	Org-022/025	[NT]	90	<0.1	<0.1	0	[NT]	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	[NT]	90	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	[NT]	90	<0.1	<0.1	0	[NT]	[NT]
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	[NT]	90	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	[NT]	90	<0.05	<0.05	0	[NT]	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	[NT]	90	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	[NT]	90	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	[NT]	90	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	90	83	82	1	[NT]	[NT]

QUALITY CONTROL: PAHs in Soil				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	101	20/05/2022	20/05/2022		[NT]	[NT]
Date analysed	-			[NT]	101	20/05/2022	20/05/2022		[NT]	[NT]
Naphthalene	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Acenaphthylene	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Fluorene	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Phenanthrene	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Anthracene	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Pyrene	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	[NT]	101	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	[NT]	101	<0.05	<0.05	0	[NT]	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	101	86	86	0	[NT]	[NT]

Client Reference: JC22432A, 15 George Rd & 40-52 Hulls Rd Leppington

QUALITY CONTROL: Organochlorine Pesticides in soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-2	295808-7
Date extracted	-			20/05/2022	2	20/05/2022	20/05/2022		20/05/2022	20/05/2022
Date analysed	-			20/05/2022	2	20/05/2022	20/05/2022		20/05/2022	20/05/2022
alpha-BHC	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	84	88
HCB	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	89	97
gamma-BHC	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	93	93
delta-BHC	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	91	93
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	92	91
gamma-Chlordane	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	88	94
Dieldrin	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	92	91
Endrin	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	92	92
Endosulfan II	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	92	84
Endrin Aldehyde	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	100	90
Methoxychlor	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	92	2	88	86	2	78	86

Client Reference: JC22432A, 15 George Rd & 40-52 Hulls Rd Leppington

QUALITY CONTROL: Organochlorine Pesticides in soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-3	295808-94
Date extracted	-			[NT]	45	20/05/2022	20/05/2022		20/05/2022	20/05/2022
Date analysed	-			[NT]	45	20/05/2022	20/05/2022		20/05/2022	20/05/2022
alpha-BHC	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	<0.1	0	88	86
HCB	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	<0.1	0	96	96
gamma-BHC	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	<0.1	0	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	<0.1	0	93	91
delta-BHC	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	<0.1	0	95	95
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	<0.1	0	94	94
gamma-Chlordane	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	<0.1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	<0.1	0	96	96
Dieldrin	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	<0.1	0	92	91
Endrin	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	<0.1	0	88	92
Endosulfan II	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	<0.1	0	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	<0.1	0	74	76
Endrin Aldehyde	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	<0.1	0	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	<0.1	0	72	70
Methoxychlor	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	[NT]	45	88	94	7	90	90

Client Reference: JC22432A, 15 George Rd & 40-52 Hulls Rd Leppington

QUALITY CONTROL: Organochlorine Pesticides in soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	90	20/05/2022	20/05/2022		[NT]	[NT]
Date analysed	-			[NT]	90	20/05/2022	20/05/2022		[NT]	[NT]
alpha-BHC	mg/kg	0.1	Org-022/025	[NT]	90	<0.1	<0.1	0	[NT]	[NT]
HCB	mg/kg	0.1	Org-022/025	[NT]	90	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	[NT]	90	<0.1	<0.1	0	[NT]	[NT]
gamma-BHC	mg/kg	0.1	Org-022/025	[NT]	90	<0.1	<0.1	0	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	[NT]	90	<0.1	<0.1	0	[NT]	[NT]
delta-BHC	mg/kg	0.1	Org-022/025	[NT]	90	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	[NT]	90	<0.1	<0.1	0	[NT]	[NT]
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	[NT]	90	<0.1	<0.1	0	[NT]	[NT]
gamma-Chlordane	mg/kg	0.1	Org-022/025	[NT]	90	<0.1	<0.1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	[NT]	90	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	[NT]	90	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	[NT]	90	<0.1	<0.1	0	[NT]	[NT]
Dieldrin	mg/kg	0.1	Org-022/025	[NT]	90	<0.1	<0.1	0	[NT]	[NT]
Endrin	mg/kg	0.1	Org-022/025	[NT]	90	<0.1	<0.1	0	[NT]	[NT]
Endosulfan II	mg/kg	0.1	Org-022/025	[NT]	90	<0.1	<0.1	0	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	[NT]	90	<0.1	<0.1	0	[NT]	[NT]
Endrin Aldehyde	mg/kg	0.1	Org-022/025	[NT]	90	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	[NT]	90	<0.1	<0.1	0	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	[NT]	90	<0.1	<0.1	0	[NT]	[NT]
Methoxychlor	mg/kg	0.1	Org-022/025	[NT]	90	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	[NT]	90	90	90	0	[NT]	[NT]

Client Reference: JC22432A, 15 George Rd & 40-52 Hulls Rd Leppington

QUALITY CONTROL: Organochlorine Pesticides in soil				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	101	20/05/2022	20/05/2022		[NT]	[NT]
Date analysed	-			[NT]	101	20/05/2022	20/05/2022		[NT]	[NT]
alpha-BHC	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
HCB	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
gamma-BHC	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
delta-BHC	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
gamma-Chlordane	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Dieldrin	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Endrin	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Endosulfan II	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Endrin Aldehyde	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Methoxychlor	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	[NT]	101	95	82	15	[NT]	[NT]

Client Reference: JC22432A, 15 George Rd & 40-52 Hulls Rd Leppington

QUALITY CONTROL: PCBs in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-2	295808-7
Date extracted	-			20/05/2022	2	20/05/2022	20/05/2022		20/05/2022	20/05/2022
Date analysed	-			20/05/2022	2	20/05/2022	20/05/2022		20/05/2022	20/05/2022
Aroclor 1016	mg/kg	0.1	Org-021	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-021	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-021	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-021	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-021	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-021	<0.1	2	<0.1	<0.1	0	74	80
Aroclor 1260	mg/kg	0.1	Org-021	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-021	92	2	88	86	2	78	86

QUALITY CONTROL: PCBs in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-3	295808-94
Date extracted	-			[NT]	45	20/05/2022	20/05/2022		20/05/2022	20/05/2022
Date analysed	-			[NT]	45	20/05/2022	20/05/2022		20/05/2022	20/05/2022
Aroclor 1016	mg/kg	0.1	Org-021	[NT]	45	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-021	[NT]	45	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-021	[NT]	45	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-021	[NT]	45	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-021	[NT]	45	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-021	[NT]	45	<0.1	<0.1	0	82	100
Aroclor 1260	mg/kg	0.1	Org-021	[NT]	45	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-021	[NT]	45	88	94	7	90	90

QUALITY CONTROL: PCBs in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	90	20/05/2022	20/05/2022		[NT]	[NT]
Date analysed	-			[NT]	90	20/05/2022	20/05/2022		[NT]	[NT]
Aroclor 1016	mg/kg	0.1	Org-021	[NT]	90	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-021	[NT]	90	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-021	[NT]	90	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-021	[NT]	90	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-021	[NT]	90	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-021	[NT]	90	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1260	mg/kg	0.1	Org-021	[NT]	90	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-021	[NT]	90	90	90	0	[NT]	[NT]

Client Reference: JC22432A, 15 George Rd & 40-52 Hulls Rd Leppington

QUALITY CONTROL: PCBs in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	101	20/05/2022	20/05/2022		[NT]	[NT]
Date analysed	-			[NT]	101	20/05/2022	20/05/2022		[NT]	[NT]
Aroclor 1016	mg/kg	0.1	Org-021	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-021	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-021	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-021	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-021	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-021	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1260	mg/kg	0.1	Org-021	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-021	[NT]	101	95	82	15	[NT]	[NT]

Client Reference: JC22432A, 15 George Rd & 40-52 Hulls Rd Leppington

QUALITY CONTROL: Acid Extractable metals in soil				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	295808-3
Date prepared	-			20/05/2022	1	20/05/2022	20/05/2022		20/05/2022	20/05/2022
Date analysed	-			23/05/2022	1	23/05/2022	23/05/2022		23/05/2022	23/05/2022
Arsenic	mg/kg	4	Metals-020	<4	1	13	14	7	108	95
Cadmium	mg/kg	0.4	Metals-020	<0.4	1	<0.4	<0.4	0	106	91
Chromium	mg/kg	1	Metals-020	<1	1	20	21	5	105	113
Copper	mg/kg	1	Metals-020	<1	1	15	13	14	104	123
Lead	mg/kg	1	Metals-020	<1	1	18	18	0	103	95
Mercury	mg/kg	0.1	Metals-021	<0.1	1	<0.1	<0.1	0	121	110
Nickel	mg/kg	1	Metals-020	<1	1	7	7	0	103	97
Zinc	mg/kg	1	Metals-020	<1	1	20	19	5	112	102

QUALITY CONTROL: Acid Extractable metals in soil				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-2	295808-7
Date prepared	-			[NT]	2	20/05/2022	20/05/2022		20/05/2022	20/05/2022
Date analysed	-			[NT]	2	23/05/2022	23/05/2022		23/05/2022	23/05/2022
Arsenic	mg/kg	4	Metals-020	[NT]	2	8	8	0	110	94
Cadmium	mg/kg	0.4	Metals-020	[NT]	2	<0.4	<0.4	0	110	89
Chromium	mg/kg	1	Metals-020	[NT]	2	18	21	15	108	94
Copper	mg/kg	1	Metals-020	[NT]	2	25	25	0	107	109
Lead	mg/kg	1	Metals-020	[NT]	2	17	21	21	106	87
Mercury	mg/kg	0.1	Metals-021	[NT]	2	<0.1	<0.1	0	115	122
Nickel	mg/kg	1	Metals-020	[NT]	2	10	11	10	105	89
Zinc	mg/kg	1	Metals-020	[NT]	2	39	45	14	113	87

QUALITY CONTROL: Acid Extractable metals in soil				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-3	295808-33
Date prepared	-			[NT]	21	20/05/2022	20/05/2022		20/05/2022	20/05/2022
Date analysed	-			[NT]	21	23/05/2022	23/05/2022		23/05/2022	23/05/2022
Arsenic	mg/kg	4	Metals-020	[NT]	21	15	17	12	112	89
Cadmium	mg/kg	0.4	Metals-020	[NT]	21	<0.4	<0.4	0	110	86
Chromium	mg/kg	1	Metals-020	[NT]	21	28	31	10	108	87
Copper	mg/kg	1	Metals-020	[NT]	21	22	23	4	105	75
Lead	mg/kg	1	Metals-020	[NT]	21	15	15	0	106	76
Mercury	mg/kg	0.1	Metals-021	[NT]	21	<0.1	<0.1	0	116	105
Nickel	mg/kg	1	Metals-020	[NT]	21	10	10	0	105	84
Zinc	mg/kg	1	Metals-020	[NT]	21	33	34	3	113	#

Client Reference: JC22432A, 15 George Rd & 40-52 Hulls Rd Leppington

QUALITY CONTROL: Acid Extractable metals in soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-4	295808-72
Date prepared	-			[NT]	32	20/05/2022	20/05/2022		20/05/2022	20/05/2022
Date analysed	-			[NT]	32	23/05/2022	23/05/2022		23/05/2022	23/05/2022
Arsenic	mg/kg	4	Metals-020	[NT]	32	8	9	12	112	92
Cadmium	mg/kg	0.4	Metals-020	[NT]	32	<0.4	<0.4	0	110	90
Chromium	mg/kg	1	Metals-020	[NT]	32	19	20	5	108	100
Copper	mg/kg	1	Metals-020	[NT]	32	15	10	40	105	108
Lead	mg/kg	1	Metals-020	[NT]	32	15	18	18	106	92
Mercury	mg/kg	0.1	Metals-021	[NT]	32	<0.1	<0.1	0	119	113
Nickel	mg/kg	1	Metals-020	[NT]	32	8	7	13	106	91
Zinc	mg/kg	1	Metals-020	[NT]	32	21	16	27	113	93

QUALITY CONTROL: Acid Extractable metals in soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	295808-94
Date prepared	-			[NT]	45	20/05/2022	20/05/2022		20/05/2022	20/05/2022
Date analysed	-			[NT]	45	23/05/2022	23/05/2022		23/05/2022	23/05/2022
Arsenic	mg/kg	4	Metals-020	[NT]	45	18	13	32	112	83
Cadmium	mg/kg	0.4	Metals-020	[NT]	45	<0.4	<0.4	0	109	79
Chromium	mg/kg	1	Metals-020	[NT]	45	19	20	5	108	83
Copper	mg/kg	1	Metals-020	[NT]	45	36	25	36	107	93
Lead	mg/kg	1	Metals-020	[NT]	45	15	17	12	106	80
Mercury	mg/kg	0.1	Metals-021	[NT]	45	<0.1	<0.1	0	129	125
Nickel	mg/kg	1	Metals-020	[NT]	45	11	12	9	107	75
Zinc	mg/kg	1	Metals-020	[NT]	45	56	46	20	112	72

QUALITY CONTROL: Acid Extractable metals in soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	53	20/05/2022	20/05/2022		[NT]	[NT]
Date analysed	-			[NT]	53	23/05/2022	23/05/2022		[NT]	[NT]
Arsenic	mg/kg	4	Metals-020	[NT]	53	12	12	0	[NT]	[NT]
Cadmium	mg/kg	0.4	Metals-020	[NT]	53	<0.4	<0.4	0	[NT]	[NT]
Chromium	mg/kg	1	Metals-020	[NT]	53	35	31	12	[NT]	[NT]
Copper	mg/kg	1	Metals-020	[NT]	53	22	22	0	[NT]	[NT]
Lead	mg/kg	1	Metals-020	[NT]	53	20	17	16	[NT]	[NT]
Mercury	mg/kg	0.1	Metals-021	[NT]	53	0.1	<0.1	0	[NT]	[NT]
Nickel	mg/kg	1	Metals-020	[NT]	53	18	18	0	[NT]	[NT]
Zinc	mg/kg	1	Metals-020	[NT]	53	29	28	4	[NT]	[NT]

Client Reference: JC22432A, 15 George Rd & 40-52 Hulls Rd Leppington

QUALITY CONTROL: Acid Extractable metals in soil				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	71	20/05/2022	20/05/2022		[NT]	[NT]
Date analysed	-			[NT]	71	23/05/2022	23/05/2022		[NT]	[NT]
Arsenic	mg/kg	4	Metals-020	[NT]	71	7	6	15	[NT]	[NT]
Cadmium	mg/kg	0.4	Metals-020	[NT]	71	<0.4	<0.4	0	[NT]	[NT]
Chromium	mg/kg	1	Metals-020	[NT]	71	17	16	6	[NT]	[NT]
Copper	mg/kg	1	Metals-020	[NT]	71	16	16	0	[NT]	[NT]
Lead	mg/kg	1	Metals-020	[NT]	71	19	19	0	[NT]	[NT]
Mercury	mg/kg	0.1	Metals-021	[NT]	71	<0.1	<0.1	0	[NT]	[NT]
Nickel	mg/kg	1	Metals-020	[NT]	71	7	9	25	[NT]	[NT]
Zinc	mg/kg	1	Metals-020	[NT]	71	30	29	3	[NT]	[NT]

QUALITY CONTROL: Acid Extractable metals in soil				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	81	20/05/2022	20/05/2022		[NT]	[NT]
Date analysed	-			[NT]	81	23/05/2022	23/05/2022		[NT]	[NT]
Arsenic	mg/kg	4	Metals-020	[NT]	81	12	12	0	[NT]	[NT]
Cadmium	mg/kg	0.4	Metals-020	[NT]	81	<0.4	<0.4	0	[NT]	[NT]
Chromium	mg/kg	1	Metals-020	[NT]	81	32	28	13	[NT]	[NT]
Copper	mg/kg	1	Metals-020	[NT]	81	13	16	21	[NT]	[NT]
Lead	mg/kg	1	Metals-020	[NT]	81	22	21	5	[NT]	[NT]
Mercury	mg/kg	0.1	Metals-021	[NT]	81	<0.1	<0.1	0	[NT]	[NT]
Nickel	mg/kg	1	Metals-020	[NT]	81	8	8	0	[NT]	[NT]
Zinc	mg/kg	1	Metals-020	[NT]	81	22	22	0	[NT]	[NT]

QUALITY CONTROL: Acid Extractable metals in soil				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	90	20/05/2022	20/05/2022		[NT]	[NT]
Date analysed	-			[NT]	90	23/05/2022	23/05/2022		[NT]	[NT]
Arsenic	mg/kg	4	Metals-020	[NT]	90	6	6	0	[NT]	[NT]
Cadmium	mg/kg	0.4	Metals-020	[NT]	90	<0.4	<0.4	0	[NT]	[NT]
Chromium	mg/kg	1	Metals-020	[NT]	90	17	18	6	[NT]	[NT]
Copper	mg/kg	1	Metals-020	[NT]	90	21	21	0	[NT]	[NT]
Lead	mg/kg	1	Metals-020	[NT]	90	22	23	4	[NT]	[NT]
Mercury	mg/kg	0.1	Metals-021	[NT]	90	<0.1	<0.1	0	[NT]	[NT]
Nickel	mg/kg	1	Metals-020	[NT]	90	13	13	0	[NT]	[NT]
Zinc	mg/kg	1	Metals-020	[NT]	90	46	49	6	[NT]	[NT]

Client Reference: JC22432A, 15 George Rd & 40-52 Hulls Rd Leppington

QUALITY CONTROL: Acid Extractable metals in soil				Duplicate			Spike Recovery %			
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	101	20/05/2022	20/05/2022		[NT]	[NT]
Date analysed	-			[NT]	101	23/05/2022	23/05/2022		[NT]	[NT]
Arsenic	mg/kg	4	Metals-020	[NT]	101	7	7	0	[NT]	[NT]
Cadmium	mg/kg	0.4	Metals-020	[NT]	101	<0.4	<0.4	0	[NT]	[NT]
Chromium	mg/kg	1	Metals-020	[NT]	101	20	29	37	[NT]	[NT]
Copper	mg/kg	1	Metals-020	[NT]	101	23	26	12	[NT]	[NT]
Lead	mg/kg	1	Metals-020	[NT]	101	23	22	4	[NT]	[NT]
Mercury	mg/kg	0.1	Metals-021	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Nickel	mg/kg	1	Metals-020	[NT]	101	14	14	0	[NT]	[NT]
Zinc	mg/kg	1	Metals-020	[NT]	101	55	53	4	[NT]	[NT]

Client Reference: JC22432A, 15 George Rd & 40-52 Hulls Rd Leppington

QUALITY CONTROL: Misc Inorg - Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-2	295808-9
Date prepared	-			24/05/2022	3	24/05/2022	24/05/2022		24/05/2022	24/05/2022
Date analysed	-			24/05/2022	3	24/05/2022	24/05/2022		24/05/2022	24/05/2022
pH 1:5 soil:water	pH Units		Inorg-001	[NT]	3	5.3	5.3	0	100	[NT]
Electrical Conductivity 1:5 soil:water	µS/cm	1	Inorg-002	<1	3	230	230	0	100	[NT]
Chloride, Cl 1:5 soil:water	mg/kg	10	Inorg-081	<10	3	150	150	0	86	70
Sulphate, SO4 1:5 soil:water	mg/kg	10	Inorg-081	<10	3	180	180	0	84	#
Resistivity in soil*	ohm m	1	Inorg-002	<1	3	43	44	2	[NT]	[NT]

QUALITY CONTROL: Misc Inorg - Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-3	295808-22
Date prepared	-			[NT]	21	24/05/2022	24/05/2022		24/05/2022	24/05/2022
Date analysed	-			[NT]	21	24/05/2022	24/05/2022		24/05/2022	24/05/2022
pH 1:5 soil:water	pH Units		Inorg-001	[NT]	21	5.2	5.2	0	99	[NT]
Electrical Conductivity 1:5 soil:water	µS/cm	1	Inorg-002	[NT]	21	130	130	0	100	[NT]
Chloride, Cl 1:5 soil:water	mg/kg	10	Inorg-081	[NT]	21	10	10	0	84	#
Sulphate, SO4 1:5 soil:water	mg/kg	10	Inorg-081	[NT]	21	200	200	0	85	#
Resistivity in soil*	ohm m	1	Inorg-002	[NT]	21	75	77	3	[NT]	[NT]

QUALITY CONTROL: Misc Inorg - Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-6	[NT]
Date prepared	-			[NT]	48	24/05/2022	24/05/2022		24/05/2022	[NT]
Date analysed	-			[NT]	48	24/05/2022	24/05/2022		24/05/2022	[NT]
pH 1:5 soil:water	pH Units		Inorg-001	[NT]	48	5.1	5.1	0	100	[NT]
Electrical Conductivity 1:5 soil:water	µS/cm	1	Inorg-002	[NT]	48	180	170	6	100	[NT]
Chloride, Cl 1:5 soil:water	mg/kg	10	Inorg-081	[NT]	48	73	73	0	83	[NT]
Sulphate, SO4 1:5 soil:water	mg/kg	10	Inorg-081	[NT]	48	180	180	0	84	[NT]
Resistivity in soil*	ohm m	1	Inorg-002	[NT]	48	57	58	2	[NT]	[NT]

QUALITY CONTROL: Misc Inorg - Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	56	24/05/2022	24/05/2022		[NT]	[NT]
Date analysed	-			[NT]	56	24/05/2022	24/05/2022		[NT]	[NT]
pH 1:5 soil:water	pH Units		Inorg-001	[NT]	56	5.2	5.1	2	[NT]	[NT]
Electrical Conductivity 1:5 soil:water	µS/cm	1	Inorg-002	[NT]	56	280	270	4	[NT]	[NT]
Chloride, Cl 1:5 soil:water	mg/kg	10	Inorg-081	[NT]	56	150	150	0	[NT]	[NT]
Sulphate, SO4 1:5 soil:water	mg/kg	10	Inorg-081	[NT]	56	260	260	0	[NT]	[NT]
Resistivity in soil*	ohm m	1	Inorg-002	[NT]	56	36	37	3	[NT]	[NT]

Client Reference: JC22432A, 15 George Rd & 40-52 Hulls Rd Leppington

QUALITY CONTROL: Misc Inorg - Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	85	24/05/2022	24/05/2022		[NT]	[NT]
Date analysed	-			[NT]	85	24/05/2022	24/05/2022		[NT]	[NT]
pH 1:5 soil:water	pH Units		Inorg-001	[NT]	85	5.8	5.9	2	[NT]	[NT]
Electrical Conductivity 1:5 soil:water	µS/cm	1	Inorg-002	[NT]	85	75	78	4	[NT]	[NT]

Client Reference: JC22432A, 15 George Rd & 40-52 Hulls Rd Leppington

QUALITY CONTROL: ESP/CEC				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	295808-17
Date prepared	-			25/05/2022	1	25/05/2022	25/05/2022		25/05/2022	25/05/2022
Date analysed	-			25/05/2022	1	25/05/2022	25/05/2022		25/05/2022	25/05/2022
Exchangeable Ca	meq/100g	0.1	Metals-020	<0.1	1	4.2	4.3	2	103	128
Exchangeable K	meq/100g	0.1	Metals-020	<0.1	1	0.2	0.2	0	103	100
Exchangeable Mg	meq/100g	0.1	Metals-020	<0.1	1	3.6	3.5	3	102	101
Exchangeable Na	meq/100g	0.1	Metals-020	<0.1	1	0.2	0.2	0	111	106
ESP	%	1	Metals-020	[NT]	1	3	3	0	[NT]	[NT]

Client Reference: JC22432A, 15 George Rd & 40-52 Hulls Rd Leppington

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	[NT]
Date extracted	-			19/05/2022	[NT]	[NT]	[NT]	[NT]	19/05/2022	[NT]
Date analysed	-			23/05/2022	[NT]	[NT]	[NT]	[NT]	23/05/2022	[NT]
TRH C ₆ - C ₉	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	102	[NT]
TRH C ₆ - C ₁₀	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	102	[NT]
Benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	99	[NT]
Toluene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	99	[NT]
Ethylbenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	104	[NT]
m+p-xylene	µg/L	2	Org-023	<2	[NT]	[NT]	[NT]	[NT]	104	[NT]
o-xylene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	101	[NT]
Naphthalene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-023	96	[NT]	[NT]	[NT]	[NT]	100	[NT]
Surrogate toluene-d8	%		Org-023	100	[NT]	[NT]	[NT]	[NT]	103	[NT]
Surrogate 4-BFB	%		Org-023	100	[NT]	[NT]	[NT]	[NT]	98	[NT]

Client Reference: JC22432A, 15 George Rd & 40-52 Hulls Rd Leppington

QUALITY CONTROL: svTRH (C10-C40) in Water						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	[NT]
Date extracted	-			20/05/2022	117	20/05/2022	20/05/2022		20/05/2022	[NT]
Date analysed	-			21/05/2022	117	21/05/2022	21/05/2022		21/05/2022	[NT]
TRH C ₁₀ - C ₁₄	µg/L	50	Org-020	<50	117	<50	<50	0	86	[NT]
TRH C ₁₅ - C ₂₈	µg/L	100	Org-020	<100	117	120	120	0	85	[NT]
TRH C ₂₉ - C ₃₆	µg/L	100	Org-020	<100	117	<100	<100	0	94	[NT]
TRH >C ₁₀ - C ₁₆	µg/L	50	Org-020	<50	117	<50	<50	0	86	[NT]
TRH >C ₁₆ - C ₃₄	µg/L	100	Org-020	<100	117	180	190	5	85	[NT]
TRH >C ₃₄ - C ₄₀	µg/L	100	Org-020	<100	117	<100	<100	0	94	[NT]
Surrogate o-Terphenyl	%		Org-020	86	117	89	92	3	78	[NT]

Client Reference: JC22432A, 15 George Rd & 40-52 Hulls Rd Leppington

QUALITY CONTROL: PAHs in Water						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	295808-119
Date extracted	-			20/05/2022	117	20/05/2022	20/05/2022		20/05/2022	20/05/2022
Date analysed	-			21/05/2022	117	21/05/2022	21/05/2022		21/05/2022	21/05/2022
Naphthalene	µg/L	1	Org-022/025	<1	117	<1	<1	0	93	88
Acenaphthylene	µg/L	1	Org-022/025	<1	117	<1	<1	0	[NT]	[NT]
Acenaphthene	µg/L	1	Org-022/025	<1	117	<1	<1	0	93	85
Fluorene	µg/L	1	Org-022/025	<1	117	<1	<1	0	93	88
Phenanthrene	µg/L	1	Org-022/025	<1	117	<1	<1	0	96	90
Anthracene	µg/L	1	Org-022/025	<1	117	<1	<1	0	[NT]	[NT]
Fluoranthene	µg/L	1	Org-022/025	<1	117	<1	<1	0	98	88
Pyrene	µg/L	1	Org-022/025	<1	117	<1	<1	0	105	95
Benzo(a)anthracene	µg/L	1	Org-022/025	<1	117	<1	<1	0	[NT]	[NT]
Chrysene	µg/L	1	Org-022/025	<1	117	<1	<1	0	103	95
Benzo(b,j+k)fluoranthene	µg/L	2	Org-022/025	<2	117	<2	<2	0	[NT]	[NT]
Benzo(a)pyrene	µg/L	1	Org-022/025	<1	117	<1	<1	0	94	90
Indeno(1,2,3-c,d)pyrene	µg/L	1	Org-022/025	<1	117	<1	<1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	µg/L	1	Org-022/025	<1	117	<1	<1	0	[NT]	[NT]
Benzo(g,h,i)perylene	µg/L	1	Org-022/025	<1	117	<1	<1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	90	117	91	100	9	85	80

Client Reference: JC22432A, 15 George Rd & 40-52 Hulls Rd Leppington

QUALITY CONTROL: Organochlorine Pesticides in Water						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	295808-119
Date extracted	-			20/05/2022	117	20/05/2022	20/05/2022		20/05/2022	20/05/2022
Date analysed	-			21/05/2022	117	21/05/2022	21/05/2022		21/05/2022	21/05/2022
alpha-BHC	µg/L	0.2	Org-022/025	<0.2	117	<0.2	<0.2	0	92	86
HCB	µg/L	0.2	Org-022/025	<0.2	117	<0.2	<0.2	0	[NT]	[NT]
beta-BHC	µg/L	0.2	Org-022/025	<0.2	117	<0.2	<0.2	0	92	89
gamma-BHC	µg/L	0.2	Org-022/025	<0.2	117	<0.2	<0.2	0	[NT]	[NT]
Heptachlor	µg/L	0.2	Org-022/025	<0.2	117	<0.2	<0.2	0	91	83
delta-BHC	µg/L	0.2	Org-022/025	<0.2	117	<0.2	<0.2	0	[NT]	[NT]
Aldrin	µg/L	0.2	Org-022/025	<0.2	117	<0.2	<0.2	0	97	91
Heptachlor Epoxide	µg/L	0.2	Org-022/025	<0.2	117	<0.2	<0.2	0	98	88
gamma-Chlordane	µg/L	0.2	Org-022/025	<0.2	117	<0.2	<0.2	0	[NT]	[NT]
alpha-Chlordane	µg/L	0.2	Org-022/025	<0.2	117	<0.2	<0.2	0	[NT]	[NT]
Endosulfan I	µg/L	0.2	Org-022/025	<0.2	117	<0.2	<0.2	0	[NT]	[NT]
pp-DDE	µg/L	0.2	Org-022/025	<0.2	117	<0.2	<0.2	0	94	88
Dieldrin	µg/L	0.2	Org-022/025	<0.2	117	<0.2	<0.2	0	98	90
Endrin	µg/L	0.2	Org-022/025	<0.2	117	<0.2	<0.2	0	96	92
Endosulfan II	µg/L	0.2	Org-022/025	<0.2	117	<0.2	<0.2	0	[NT]	[NT]
pp-DDD	µg/L	0.2	Org-022/025	<0.2	117	<0.2	<0.2	0	96	88
Endrin Aldehyde	µg/L	0.2	Org-022/025	<0.2	117	<0.2	<0.2	0	[NT]	[NT]
pp-DDT	µg/L	0.2	Org-022/025	<0.2	117	<0.2	<0.2	0	[NT]	[NT]
Endosulfan Sulphate	µg/L	0.2	Org-022/025	<0.2	117	<0.2	<0.2	0	92	88
Methoxychlor	µg/L	0.2	Org-022/025	<0.2	117	<0.2	<0.2	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	89	117	89	99	11	86	79

Client Reference: JC22432A, 15 George Rd & 40-52 Hulls Rd Leppington

QUALITY CONTROL: PCBs in Water						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	295808-119
Date extracted	-			20/05/2022	117	20/05/2022	20/05/2022		20/05/2022	20/05/2022
Date analysed	-			21/05/2022	117	21/05/2022	21/05/2022		21/05/2022	21/05/2022
Aroclor 1016	µg/L	2	Org-021	<2	117	<2	<2	0	[NT]	[NT]
Aroclor 1221	µg/L	2	Org-021	<2	117	<2	<2	0	[NT]	[NT]
Aroclor 1232	µg/L	2	Org-021	<2	117	<2	<2	0	[NT]	[NT]
Aroclor 1242	µg/L	2	Org-021	<2	117	<2	<2	0	[NT]	[NT]
Aroclor 1248	µg/L	2	Org-021	<2	117	<2	<2	0	[NT]	[NT]
Aroclor 1254	µg/L	2	Org-021	<2	117	<2	<2	0	97	80
Aroclor 1260	µg/L	2	Org-021	<2	117	<2	<2	0	[NT]	[NT]
Surrogate TCMX	%		Org-021	89	117	89	99	11	86	79

Client Reference: JC22432A, 15 George Rd & 40-52 Hulls Rd Leppington

QUALITY CONTROL: HM in water - total				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	295808-117
Date prepared	-			24/05/2022	114	24/05/2022	24/05/2022		24/05/2022	24/05/2022
Date analysed	-			24/05/2022	114	24/05/2022	24/05/2022		24/05/2022	24/05/2022
Arsenic-Total	µg/L	1	Metals-022	<1	114	<1	[NT]		96	90
Cadmium-Total	µg/L	0.1	Metals-022	<0.1	114	<0.1	[NT]		97	99
Chromium-Total	µg/L	1	Metals-022	<1	114	<1	[NT]		99	93
Copper-Total	µg/L	1	Metals-022	<1	114	<1	[NT]		98	94
Lead-Total	µg/L	1	Metals-022	<1	114	<1	[NT]		99	96
Mercury-Total	µg/L	0.05	Metals-021	<0.05	114	<0.05	<0.05	0	115	[NT]
Nickel-Total	µg/L	1	Metals-022	<1	114	<1	[NT]		100	93
Zinc-Total	µg/L	1	Metals-022	<1	114	<1	[NT]		87	84

QUALITY CONTROL: HM in water - total				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	116	24/05/2022	24/05/2022		[NT]	[NT]
Date analysed	-			[NT]	116	24/05/2022	24/05/2022		[NT]	[NT]
Arsenic-Total	µg/L	1	Metals-022	[NT]	116	4	4	0	[NT]	[NT]
Cadmium-Total	µg/L	0.1	Metals-022	[NT]	116	0.2	0.1	67	[NT]	[NT]
Chromium-Total	µg/L	1	Metals-022	[NT]	116	5	5	0	[NT]	[NT]
Copper-Total	µg/L	1	Metals-022	[NT]	116	23	22	4	[NT]	[NT]
Lead-Total	µg/L	1	Metals-022	[NT]	116	13	12	8	[NT]	[NT]
Mercury-Total	µg/L	0.05	Metals-021	[NT]	116	<0.05	[NT]		[NT]	[NT]
Nickel-Total	µg/L	1	Metals-022	[NT]	116	7	7	0	[NT]	[NT]
Zinc-Total	µg/L	1	Metals-022	[NT]	116	100	98	2	[NT]	[NT]

Client Reference: JC22432A, 15 George Rd & 40-52 Hulls Rd Leppington

QUALITY CONTROL: Metals in Waters - Acid extractable					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date prepared	-			25/05/2022	[NT]	[NT]	[NT]	[NT]	25/05/2022	[NT]
Date analysed	-			25/05/2022	[NT]	[NT]	[NT]	[NT]	25/05/2022	[NT]
Phosphorus - Total	mg/L	0.05	Metals-020	<0.05	[NT]	[NT]	[NT]	[NT]	93	[NT]

Client Reference: JC22432A, 15 George Rd & 40-52 Hulls Rd Leppington

QUALITY CONTROL: Cations in water Dissolved						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date digested	-			20/05/2022	116	20/05/2022	20/05/2022		20/05/2022	[NT]
Date analysed	-			20/05/2022	116	20/05/2022	20/05/2022		20/05/2022	[NT]
Calcium - Dissolved	mg/L	0.5	Metals-020	<0.5	116	19	18	5	88	[NT]
Magnesium - Dissolved	mg/L	0.5	Metals-020	<0.5	116	7.4	7.3	1	93	[NT]
Hardness	mgCaCO ₃ /L	3	Metals-020	[NT]	116	77	76	1	[NT]	[NT]

Client Reference: JC22432A, 15 George Rd & 40-52 Hulls Rd Leppington

QUALITY CONTROL: Miscellaneous Inorganics					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date prepared	-			18/05/2022	116	18/05/2022	18/05/2022		18/05/2022	[NT]
Date analysed	-			18/05/2022	116	18/05/2022	18/05/2022		18/05/2022	[NT]
pH	pH Units		Inorg-001	[NT]	116	6.9	7.0	1	99	[NT]
Electrical Conductivity	µS/cm	1	Inorg-002	<1	116	310	310	0	95	[NT]
Chloride, Cl	mg/L	1	Inorg-081	<1	116	21	21	0	108	[NT]
Sulphate, SO4	mg/L	1	Inorg-081	<1	116	8	7	13	110	[NT]
Turbidity	NTU	0.1	Inorg-022	<0.1	116	600	590	2	95	[NT]
Total Dissolved Solids (grav)	mg/L	5	Inorg-018	<5	116	290	[NT]		118	[NT]
Total Suspended Solids	mg/L	5	Inorg-019	<5	116	1500	1500	0	98	[NT]
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	<0.1	116	1.5	[NT]		83	[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.	
The recommended maximums for analytes in urine are taken from "2018 TLVs and BEIs", as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.	
Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2	

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 (not SPOCAS); 60-140% for organics/SPOCAS (+/-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.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Report Comments

TRH Soil C10-C40 NEPM - # Percent recovery for the surrogate is not possible to report as the high concentration of analytes in sample 295808-47 have caused interference.

MISC_INORG_DRY:# Percent recovery is not applicable due to the high concentration of the analyte/s in the sample/s. However an acceptable recovery was obtained for the LCS.

Asbestos: A portion of the supplied sample was sub-sampled for asbestos according to ASB-001 asbestos subsampling procedure. We cannot guarantee that this sub-sample is indicative of the entire sample. Envirolab/MPL recommends supplying 40-60g or 500ml of sample in its own container.

Note: Samples were sub-sampled from jars provided by the client.

Enterococci analysed by Sonic Food & Water Testing. Report No. W2211531

Faecal Coliform & E.Coli analysed by Sonic Food & Water Testing. Report No. W2211530

Acid Extractable Metals in Soil:

-The laboratory RPD acceptance criteria has been exceeded for 295808-32 for Cu. Therefore a triplicate result has been issued as laboratory sample number 295808-120.

- # 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.

Dissolved Metals: no filtered, preserved sample was received, therefore the unpreserved sample was filtered through 0.45µm filter at the lab.

Note: there is a possibility some elements may be underestimated.

ESP: Where the exchangeable Sodium is less than the PQL and CEC is less than 10meq/100g, the ESP cannot be calculated.



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CERTIFICATE OF ANALYSIS 295808

Client Details

Client	Geoenviro Consultancy Pty Ltd
Attention	Lab @Geoenviro, Adrian Tejada
Address	PO Box 1543, Macquarie Centre, North Ryde, NSW, 2113

Sample Details

Your Reference	JC22432A, 15 George Rd & 40-52 Hulls Rd Leppington
Number of Samples	112 Soil, 1 Material, 6 Water
Date samples received	18/05/2022
Date completed instructions received	18/05/2022

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	25/05/2022
Date of Issue	21/06/2022
Reissue Details	This report replaces R00 created on 25/05/2022 due to: revised report with additional results.

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Asbestos Approved By

Analysed by Asbestos Approved Analyst: Lucy Zhu

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Authorised By

Nancy Zhang, Laboratory Manager

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		295808-2	295808-7	295808-20	295808-23	295808-28
Your Reference	UNITS	TP 2	TP 5	TP 14	TP 15	TP 18
Depth		0.4-0.5	0.1-0.2	0.6-0.7	0-0.1	0-0.1
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
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	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	98	95	95	95	92

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		295808-31	295808-41	295808-44	295808-45	295808-46
Your Reference	UNITS	TP 21	TP 29	TP 30	TP 31	TP 32
Depth		0-0.1	0.3-0.4	0.8-0.9	0.2-0.3	1.1-1.2
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
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	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	98	94	97	94	95

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		295808-47	295808-51	295808-52	295808-54	295808-58
Your Reference	UNITS	TP 33	TP 35	TP 36	TP 37	TP 39
Depth		0-0.1	0.2-0.3	0-0.1	0.1-0.2	1.8-1.9
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
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	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	98	103	94	77	82

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		295808-59	295808-61	295808-62	295808-63	295808-66
Your Reference	UNITS	TP 40	TP 41	TP 42	TP 43	TP 45
Depth		0.7-0.8	0.2-0.3	0.4-0.5	0.2-0.3	0-0.1
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
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	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	75	84	82	97	93

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		295808-68	295808-70	295808-74	295808-78	295808-89
Your Reference	UNITS	TP 47	TP 49	TP 51	TP 55	TP 62
Depth		0-0.1	0-0.1	0.1-0.2	0-0.1	0-0.1
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
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	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	99	105	89	106	97

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		295808-90	295808-94	295808-99	295808-100	295808-101
Your Reference	UNITS	TP 63	TP 65	TP 68	TP 69	TP 70
Depth		0-0.1	0-0.1	0.3-0.4	0.1-0.2	0.4-0.5
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
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	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	108	82	95	92	79

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		295808-102	295808-104	295808-105	295808-106	295808-107
Your Reference	UNITS	TP 71	Silt 1	Silt 2	Silt 3	Silt 4
Depth		0-0.1	-	-	-	-
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
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	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	89	100	82	85	96

vTRH(C6-C10)/BTEXN in Soil			
Our Reference		295808-112	295808-113
Your Reference	UNITS	Trip Blank 1	Trip Blank 2
Depth		-	-
Date Sampled		17/05/2022	17/05/2022
Type of sample		Soil	Soil
Date extracted	-	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022
TRH C ₆ - C ₉	mg/kg	<25	<25
TRH C ₆ - C ₁₀	mg/kg	<25	<25
vTPH C ₆ - C ₁₀ less BTEX (F1)	mg/kg	<25	<25
Benzene	mg/kg	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1
m+p-xylene	mg/kg	<2	<2
o-Xylene	mg/kg	<1	<1
Naphthalene	mg/kg	<1	<1
Total +ve Xylenes	mg/kg	<1	<1
Surrogate aaa-Trifluorotoluene	%	119	88

svTRH (C10-C40) in Soil						
Our Reference		295808-2	295808-7	295808-20	295808-23	295808-28
Your Reference	UNITS	TP 2	TP 5	TP 14	TP 15	TP 18
Depth		0.4-0.5	0.1-0.2	0.6-0.7	0-0.1	0-0.1
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	21/05/2022	21/05/2022	21/05/2022	21/05/2022	21/05/2022
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
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
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	%	76	78	77	79	75

svTRH (C10-C40) in Soil						
Our Reference		295808-31	295808-41	295808-44	295808-45	295808-46
Your Reference	UNITS	TP 21	TP 29	TP 30	TP 31	TP 32
Depth		0-0.1	0.3-0.4	0.8-0.9	0.2-0.3	1.1-1.2
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	21/05/2022	21/05/2022	21/05/2022	21/05/2022	21/05/2022
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
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
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	81	77	75	77

svTRH (C10-C40) in Soil						
Our Reference		295808-47	295808-51	295808-52	295808-54	295808-58
Your Reference	UNITS	TP 33	TP 35	TP 36	TP 37	TP 39
Depth		0-0.1	0.2-0.3	0-0.1	0.1-0.2	1.8-1.9
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	21/05/2022	21/05/2022	21/05/2022	21/05/2022	21/05/2022
TRH C ₁₀ - C ₁₄	mg/kg	<50	<50	<50	<50	<50
TRH C ₁₅ - C ₂₈	mg/kg	350	<100	<100	<100	<100
TRH C ₂₉ - C ₃₆	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	350	<50	<50	<50	<50
TRH >C ₁₀ -C ₁₆	mg/kg	53	<50	<50	<50	<50
TRH >C ₁₀ - C ₁₆ less Naphthalene (F2)	mg/kg	53	<50	<50	<50	<50
TRH >C ₁₆ -C ₃₄	mg/kg	370	<100	<100	120	<100
TRH >C ₃₄ -C ₄₀	mg/kg	<100	<100	<100	110	<100
Total +ve TRH (>C10-C40)	mg/kg	420	<50	<50	240	<50
Surrogate o-Terphenyl	%	#	77	76	81	73

svTRH (C10-C40) in Soil						
Our Reference		295808-59	295808-61	295808-62	295808-63	295808-66
Your Reference	UNITS	TP 40	TP 41	TP 42	TP 43	TP 45
Depth		0.7-0.8	0.2-0.3	0.4-0.5	0.2-0.3	0-0.1
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	21/05/2022	21/05/2022	21/05/2022	21/05/2022	21/05/2022
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
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
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	%	74	80	77	74	76

svTRH (C10-C40) in Soil						
Our Reference		295808-68	295808-70	295808-74	295808-78	295808-89
Your Reference	UNITS	TP 47	TP 49	TP 51	TP 55	TP 62
Depth		0-0.1	0-0.1	0.1-0.2	0-0.1	0-0.1
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	21/05/2022	21/05/2022	21/05/2022	21/05/2022	21/05/2022
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
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
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	%	78	75	76	74	82

svTRH (C10-C40) in Soil						
Our Reference		295808-90	295808-94	295808-99	295808-100	295808-101
Your Reference	UNITS	TP 63	TP 65	TP 68	TP 69	TP 70
Depth		0-0.1	0-0.1	0.3-0.4	0.1-0.2	0.4-0.5
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	21/05/2022	21/05/2022	21/05/2022	21/05/2022	21/05/2022
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
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
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	%	79	81	81	79	82

svTRH (C10-C40) in Soil						
Our Reference		295808-102	295808-104	295808-105	295808-106	295808-107
Your Reference	UNITS	TP 71	Silt 1	Silt 2	Silt 3	Silt 4
Depth		0-0.1	-	-	-	-
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	21/05/2022	21/05/2022	21/05/2022	21/05/2022	21/05/2022
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
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
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	%	85	86	92	77	78

PAHs in Soil						
Our Reference		295808-2	295808-7	295808-20	295808-23	295808-28
Your Reference	UNITS	TP 2	TP 5	TP 14	TP 15	TP 18
Depth		0.4-0.5	0.1-0.2	0.6-0.7	0-0.1	0-0.1
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
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	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
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	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
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 <i>p</i> -Terphenyl-d14	%	83	76	79	103	87

PAHs in Soil						
Our Reference		295808-31	295808-41	295808-44	295808-45	295808-46
Your Reference	UNITS	TP 21	TP 29	TP 30	TP 31	TP 32
Depth		0-0.1	0.3-0.4	0.8-0.9	0.2-0.3	1.1-1.2
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
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	<0.1	0.1	<0.1	0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	0.2	<0.1	0.2
Pyrene	mg/kg	<0.1	<0.1	0.2	<0.1	0.2
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	0.1
Chrysene	mg/kg	<0.1	<0.1	0.1	<0.1	0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	0.1	<0.05	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	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	0.81	<0.05	0.86
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 <i>p</i> -Terphenyl-d14	%	80	89	106	82	102

PAHs in Soil						
Our Reference		295808-47	295808-51	295808-52	295808-54	295808-58
Your Reference	UNITS	TP 33	TP 35	TP 36	TP 37	TP 39
Depth		0-0.1	0.2-0.3	0-0.1	0.1-0.2	1.8-1.9
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Naphthalene	mg/kg	0.3	<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	1	<0.1	<0.1	0.2	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	<0.1	0.1	<0.1
Pyrene	mg/kg	0.2	<0.1	<0.1	0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.2	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	0.09	<0.05	0.05	0.07	<0.05
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	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	1.8	<0.05	0.05	0.50	<0.05
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 <i>p</i> -Terphenyl-d14	%	106	87	110	105	80

PAHs in Soil						
Our Reference		295808-59	295808-61	295808-62	295808-63	295808-66
Your Reference	UNITS	TP 40	TP 41	TP 42	TP 43	TP 45
Depth		0.7-0.8	0.2-0.3	0.4-0.5	0.2-0.3	0-0.1
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	0.2	<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	<0.1	1.6	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	0.5	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	2.2	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	2.4	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	1.2	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	1.0	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	1.6	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	0.6	<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	<0.1	0.7	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	14	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	2.1	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	2.1	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	2.1	<0.5	<0.5
Surrogate <i>p</i> -Terphenyl-d14	%	107	109	110	104	107

PAHs in Soil						
Our Reference		295808-68	295808-70	295808-74	295808-78	295808-89
Your Reference	UNITS	TP 47	TP 49	TP 51	TP 55	TP 62
Depth		0-0.1	0-0.1	0.1-0.2	0-0.1	0-0.1
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
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	<0.1	<0.1	0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
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	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	0.1	<0.05
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 <i>p</i> -Terphenyl-d14	%	112	109	108	110	113

PAHs in Soil						
Our Reference		295808-90	295808-94	295808-99	295808-100	295808-101
Your Reference	UNITS	TP 63	TP 65	TP 68	TP 69	TP 70
Depth		0-0.1	0-0.1	0.3-0.4	0.1-0.2	0.4-0.5
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
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	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
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	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
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 <i>p</i> -Terphenyl-d14	%	83	85	86	110	86

PAHs in Soil						
Our Reference		295808-102	295808-104	295808-105	295808-106	295808-107
Your Reference	UNITS	TP 71	Silt 1	Silt 2	Silt 3	Silt 4
Depth		0-0.1	-	-	-	-
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
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	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
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	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
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 <i>p</i> -Terphenyl-d14	%	107	91	80	82	85

Organochlorine Pesticides in soil						
Our Reference		295808-2	295808-6	295808-7	295808-11	295808-14
Your Reference	UNITS	TP 2	TP 4	TP 5	TP 7	TP 8
Depth		0.4-0.5	0-0.1	0.1-0.2	0-0.1	0-0.1
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
HCB	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
gamma-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
Endosulfan II	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
Endrin Aldehyde	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
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	82	87	87	101

Organochlorine Pesticides in soil						
Our Reference		295808-19	295808-20	295808-25	295808-28	295808-30
Your Reference	UNITS	TP 13	TP 14	TP 17	TP 18	TP 20
Depth		0-0.1	0.6-0.7	0-0.1	0-0.1	0-0.1
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
HCB	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
gamma-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
Endosulfan II	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
Endrin Aldehyde	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
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	85	89	103	101

Organochlorine Pesticides in soil						
Our Reference		295808-45	295808-51	295808-58	295808-90	295808-94
Your Reference	UNITS	TP 31	TP 35	TP 39	TP 63	TP 65
Depth		0.2-0.3	0.2-0.3	1.8-1.9	0-0.1	0-0.1
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
HCB	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
gamma-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
Endosulfan II	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
Endrin Aldehyde	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
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	93	86	90	93

Organochlorine Pesticides in soil						
Our Reference		295808-99	295808-101	295808-104	295808-105	295808-106
Your Reference	UNITS	TP 68	TP 70	Silt 1	Silt 2	Silt 3
Depth		0.3-0.4	0.4-0.5	-	-	-
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
HCB	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
gamma-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
Endosulfan II	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
Endrin Aldehyde	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
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	%	81	95	88	73	88

Organochlorine Pesticides in soil		
Our Reference		295808-107
Your Reference	UNITS	Silt 4
Depth		-
Date Sampled		17/05/2022
Type of sample		Soil
Date extracted	-	20/05/2022
Date analysed	-	20/05/2022
alpha-BHC	mg/kg	<0.1
HCB	mg/kg	<0.1
beta-BHC	mg/kg	<0.1
gamma-BHC	mg/kg	<0.1
Heptachlor	mg/kg	<0.1
delta-BHC	mg/kg	<0.1
Aldrin	mg/kg	<0.1
Heptachlor Epoxide	mg/kg	<0.1
gamma-Chlordane	mg/kg	<0.1
alpha-chlordane	mg/kg	<0.1
Endosulfan I	mg/kg	<0.1
pp-DDE	mg/kg	<0.1
Dieldrin	mg/kg	<0.1
Endrin	mg/kg	<0.1
Endosulfan II	mg/kg	<0.1
pp-DDD	mg/kg	<0.1
Endrin Aldehyde	mg/kg	<0.1
pp-DDT	mg/kg	<0.1
Endosulfan Sulphate	mg/kg	<0.1
Methoxychlor	mg/kg	<0.1
Total +ve DDT+DDD+DDE	mg/kg	<0.1
Surrogate TCMX	%	77

PCBs in Soil						
Our Reference		295808-2	295808-7	295808-20	295808-28	295808-45
Your Reference	UNITS	TP 2	TP 5	TP 14	TP 18	TP 31
Depth		0.4-0.5	0.1-0.2	0.6-0.7	0-0.1	0.2-0.3
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
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	87	85	103	88

PCBs in Soil						
Our Reference		295808-51	295808-58	295808-90	295808-94	295808-99
Your Reference	UNITS	TP 35	TP 39	TP 63	TP 65	TP 68
Depth		0.2-0.3	1.8-1.9	0-0.1	0-0.1	0.3-0.4
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
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	%	93	86	90	93	81

PCBs in Soil						
Our Reference		295808-101	295808-104	295808-105	295808-106	295808-107
Your Reference	UNITS	TP 70	Silt 1	Silt 2	Silt 3	Silt 4
Depth		0.4-0.5	-	-	-	-
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
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	%	95	88	73	88	77

Acid Extractable metals in soil						
Our Reference		295808-1	295808-2	295808-3	295808-5	295808-6
Your Reference	UNITS	TP 1	TP 2	TP 2	TP 3	TP 4
Depth		0-0.1	0.4-0.5	1.5-1.6	0.1-0.2	0-0.1
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
Arsenic	mg/kg	13	8	12	12	11
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	20	18	23	20	19
Copper	mg/kg	15	25	22	19	19
Lead	mg/kg	18	17	13	23	17
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	7	10	8	9	8
Zinc	mg/kg	20	39	19	27	18

Acid Extractable metals in soil						
Our Reference		295808-7	295808-8	295808-10	295808-11	295808-12
Your Reference	UNITS	TP 5	TP 5	TP 6	TP 7	TP 7
Depth		0.1-0.2	0.6-0.7	0-0.1	0-0.1	0.5-0.6
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
Arsenic	mg/kg	17	17	12	14	14
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	23	27	17	54	23
Copper	mg/kg	21	25	28	66	22
Lead	mg/kg	18	15	23	21	14
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	9	8	8	8	8
Zinc	mg/kg	32	26	26	40	26

Acid Extractable metals in soil						
Our Reference		295808-14	295808-15	295808-16	295808-17	295808-18
Your Reference	UNITS	TP 8	TP 9	TP 10	TP 11	TP 12
Depth		0-0.1	0.1-0.2	0-0.1	0.1-0.2	0-0.1
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
Arsenic	mg/kg	16	14	14	10	10
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	19	22	18	17	21
Copper	mg/kg	48	48	25	47	39
Lead	mg/kg	26	17	17	16	21
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	8	8	7	6	7
Zinc	mg/kg	37	33	44	39	33

Acid Extractable metals in soil						
Our Reference		295808-19	295808-20	295808-21	295808-23	295808-24
Your Reference	UNITS	TP 13	TP 14	TP 14	TP 15	TP 16
Depth		0-0.1	0.6-0.7	1.6-1.7	0-0.1	0.2-0.3
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
Arsenic	mg/kg	7	9	15	6	7
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	17	19	28	16	18
Copper	mg/kg	48	27	22	58	44
Lead	mg/kg	17	16	15	26	20
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	14	10	10	6	6
Zinc	mg/kg	67	36	33	47	42

Acid Extractable metals in soil						
Our Reference		295808-25	295808-26	295808-28	295808-29	295808-30
Your Reference	UNITS	TP 17	TP 17	TP 18	TP 19	TP 20
Depth		0-0.1	0.8-0.9	0-0.1	0.1-0.2	0-0.1
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
Arsenic	mg/kg	6	6	6	6	7
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	16	15	16	19	16
Copper	mg/kg	35	36	34	48	72
Lead	mg/kg	19	16	18	20	20
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	8	11	7	8	5
Zinc	mg/kg	43	51	37	56	41

Acid Extractable metals in soil						
Our Reference		295808-31	295808-32	295808-33	295808-34	295808-35
Your Reference	UNITS	TP 21	TP 22	TP 23	TP 24	TP 25
Depth		0-0.1	0-0.1	0-0.1	0-0.1	0.1-0.2
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
Arsenic	mg/kg	7	8	11	10	9
Cadmium	mg/kg	<0.4	<0.4	0.6	0.4	<0.4
Chromium	mg/kg	17	19	27	18	18
Copper	mg/kg	76	15	53	14	14
Lead	mg/kg	18	15	31	20	22
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	5	8	11	10	9
Zinc	mg/kg	38	21	43	33	30

Acid Extractable metals in soil						
Our Reference		295808-36	295808-37	295808-38	295808-39	295808-40
Your Reference	UNITS	TP 25	TP 25	TP 26	TP 27	TP 28
Depth		0.5-0.6	1.8-1.9	0-0.1	0-0.1	0.1-0.2
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
Arsenic	mg/kg	6	<4	5	5	5
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	15	13	15	16	13
Copper	mg/kg	17	20	8	9	6
Lead	mg/kg	13	12	17	17	11
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	5	4	5	6	4
Zinc	mg/kg	21	23	17	16	11

Acid Extractable metals in soil						
Our Reference		295808-41	295808-42	295808-44	295808-45	295808-46
Your Reference	UNITS	TP 29	TP 29	TP 30	TP 31	TP 32
Depth		0.3-0.4	0.8-0.9	0.8-0.9	0.2-0.3	1.1-1.2
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
Arsenic	mg/kg	11	9	13	18	12
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	19	22	20	19	19
Copper	mg/kg	21	18	24	36	26
Lead	mg/kg	11	14	14	15	190
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	0.1
Nickel	mg/kg	6	6	7	11	10
Zinc	mg/kg	31	26	35	56	100

Acid Extractable metals in soil

Our Reference		295808-47	295808-48	295808-50	295808-51	295808-52
Your Reference	UNITS	TP 33	TP 33	TP 34	TP 35	TP 36
Depth		0-0.1	0.6-0.7	0.1-0.2	0.2-0.3	0-0.1
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
Arsenic	mg/kg	8	8	8	11	13
Cadmium	mg/kg	0.6	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	8	24	33	23	32
Copper	mg/kg	30	17	18	28	29
Lead	mg/kg	37	18	28	25	34
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	18	10	12	15	24
Zinc	mg/kg	62	30	63	64	87

Acid Extractable metals in soil

Our Reference		295808-53	295808-54	295808-55	295808-56	295808-58
Your Reference	UNITS	TP 36	TP 37	TP 38	TP 38	TP 39
Depth		0.4-0.5	0.1-0.2	0.2-0.3	0.5-0.6	1.8-1.9
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
Arsenic	mg/kg	12	9	12	15	16
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	35	22	26	31	25
Copper	mg/kg	22	25	22	24	72
Lead	mg/kg	20	30	34	17	92
Mercury	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	18	21	15	10	11
Zinc	mg/kg	29	55	62	24	490

Acid Extractable metals in soil

Our Reference		295808-59	295808-61	295808-62	295808-63	295808-64
Your Reference	UNITS	TP 40	TP 41	TP 42	TP 43	TP 43
Depth		0.7-0.8	0.2-0.3	0.4-0.5	0.2-0.3	0.7-0.8
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
Arsenic	mg/kg	15	16	12	14	7
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	18	20	27	25	22
Copper	mg/kg	23	25	35	28	23
Lead	mg/kg	24	19	50	21	14
Mercury	mg/kg	<0.1	<0.1	0.1	<0.1	<0.1
Nickel	mg/kg	7	12	12	16	11
Zinc	mg/kg	200	55	110	59	38

Acid Extractable metals in soil

Our Reference		295808-65	295808-66	295808-67	295808-68	295808-69
Your Reference	UNITS	TP 44	TP 45	TP 46	TP 47	TP 48
Depth		0-0.1	0-0.1	0.1-0.2	0-0.1	0-0.1
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
Arsenic	mg/kg	7	6	10	<4	8
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	19	16	19	17	17
Copper	mg/kg	26	36	28	31	25
Lead	mg/kg	21	23	19	14	28
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	10	16	10	30	13
Zinc	mg/kg	51	57	43	49	50

Acid Extractable metals in soil						
Our Reference		295808-70	295808-71	295808-72	295808-74	295808-75
Your Reference	UNITS	TP 49	TP 50	TP 50	TP 51	TP 52
Depth		0-0.1	0-0.1	0.4-0.5	0.1-0.2	0-0.1
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
Arsenic	mg/kg	4	7	6	4	7
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	17	17	17	9	17
Copper	mg/kg	24	16	18	13	15
Lead	mg/kg	15	19	14	18	22
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	5	7	5	5	8
Zinc	mg/kg	28	30	22	24	36

Acid Extractable metals in soil						
Our Reference		295808-76	295808-77	295808-78	295808-79	295808-80
Your Reference	UNITS	TP 53	TP 54	TP 55	TP 56	TP 57
Depth		0-0.1	0-0.1	0-0.1	0.1-0.2	0-0.1
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
Arsenic	mg/kg	9	7	6	6	10
Cadmium	mg/kg	0.6	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	15	17	18	17	21
Copper	mg/kg	31	15	12	10	11
Lead	mg/kg	24	23	24	18	21
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	18	9	6	5	6
Zinc	mg/kg	62	38	23	16	20

Acid Extractable metals in soil						
Our Reference		295808-81	295808-83	295808-84	295808-85	295808-86
Your Reference	UNITS	TP 57	TP 58	TP 59	TP 60	TP 60
Depth		0.4-0.5	0-0.1	0.1-0.2	0-0.1	0.4-0.5
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
Arsenic	mg/kg	12	7	7	8	7
Cadmium	mg/kg	<0.4	<0.4	<0.4	1	<0.4
Chromium	mg/kg	32	23	24	21	18
Copper	mg/kg	13	8	9	14	16
Lead	mg/kg	22	19	21	17	13
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	8	9	9	10	5
Zinc	mg/kg	22	22	28	21	15

Acid Extractable metals in soil						
Our Reference		295808-88	295808-89	295808-90	295808-91	295808-93
Your Reference	UNITS	TP 61	TP 62	TP 63	TP 63	TP 64
Depth		0.1-0.2	0-0.1	0-0.1	0.5-0.6	0-0.1
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
Arsenic	mg/kg	7	5	6	<4	5
Cadmium	mg/kg	0.5	0.5	<0.4	<0.4	<0.4
Chromium	mg/kg	23	15	17	16	17
Copper	mg/kg	10	21	21	21	17
Lead	mg/kg	17	26	22	14	33
Mercury	mg/kg	<0.1	0.2	<0.1	<0.1	<0.1
Nickel	mg/kg	6	11	13	5	11
Zinc	mg/kg	17	96	46	23	35

Acid Extractable metals in soil						
Our Reference		295808-94	295808-95	295808-97	295808-98	295808-99
Your Reference	UNITS	TP 65	TP 65	TP 66	TP 67	TP 68
Depth		0-0.1	1.2-1.3	0-0.1	0-0.1	0.3-0.4
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
Arsenic	mg/kg	8	7	6	6	14
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	15	21	16	19	16
Copper	mg/kg	31	20	30	31	28
Lead	mg/kg	20	15	19	22	19
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	15	8	18	21	15
Zinc	mg/kg	49	26	37	46	63

Acid Extractable metals in soil						
Our Reference		295808-100	295808-101	295808-102	295808-103	295808-104
Your Reference	UNITS	TP 69	TP 70	TP 71	TP 72	Silt 1
Depth		0.1-0.2	0.4-0.5	0-0.1	0-0.1	-
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
Arsenic	mg/kg	6	7	<4	6	6
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	15	20	14	15	12
Copper	mg/kg	22	23	15	25	9
Lead	mg/kg	28	23	20	19	14
Mercury	mg/kg	<0.1	<0.1	<0.1	0.2	<0.1
Nickel	mg/kg	9	14	9	10	1
Zinc	mg/kg	36	55	47	50	4

Acid Extractable metals in soil						
Our Reference		295808-105	295808-106	295808-107	295808-108	295808-109
Your Reference	UNITS	Silt 2	Silt 3	Silt 4	DUP A	DUP B
Depth		-	-	-	-	-
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	20/05/2022	20/05/2022	20/05/2022	21/06/2022	21/06/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	21/06/2022	21/06/2022
Arsenic	mg/kg	12	7	4	6	8
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	5	19	10	15	17
Copper	mg/kg	15	15	21	34	15
Lead	mg/kg	9	21	19	20	18
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	2	4	6	8	7
Zinc	mg/kg	14	25	24	40	22

Acid Extractable metals in soil				
Our Reference		295808-110	295808-111	295808-120
Your Reference	UNITS	DUP C	DUP D	TP 22 - [TRIPLICATE]
Depth		-	-	0-0.1
Date Sampled		17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil
Date prepared	-	21/06/2022	21/06/2022	20/05/2022
Date analysed	-	21/06/2022	21/06/2022	23/05/2022
Arsenic	mg/kg	6	8	8
Cadmium	mg/kg	<0.4	<0.4	0.5
Chromium	mg/kg	16	14	22
Copper	mg/kg	15	31	9
Lead	mg/kg	16	20	15
Mercury	mg/kg	<0.1	<0.1	<0.1
Nickel	mg/kg	7	12	6
Zinc	mg/kg	21	41	15

Moisture						
Our Reference		295808-1	295808-2	295808-3	295808-5	295808-6
Your Reference	UNITS	TP 1	TP 2	TP 2	TP 3	TP 4
Depth		0-0.1	0.4-0.5	1.5-1.6	0.1-0.2	0-0.1
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
Moisture	%	20	17	22	24	21

Moisture						
Our Reference		295808-7	295808-8	295808-10	295808-11	295808-12
Your Reference	UNITS	TP 5	TP 5	TP 6	TP 7	TP 7
Depth		0.1-0.2	0.6-0.7	0-0.1	0-0.1	0.5-0.6
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
Moisture	%	21	23	20	20	19

Moisture						
Our Reference		295808-14	295808-15	295808-16	295808-17	295808-18
Your Reference	UNITS	TP 8	TP 9	TP 10	TP 11	TP 12
Depth		0-0.1	0.1-0.2	0-0.1	0.1-0.2	0-0.1
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
Moisture	%	26	21	20	19	23

Moisture						
Our Reference		295808-19	295808-20	295808-21	295808-23	295808-24
Your Reference	UNITS	TP 13	TP 14	TP 14	TP 15	TP 16
Depth		0-0.1	0.6-0.7	1.6-1.7	0-0.1	0.2-0.3
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
Moisture	%	20	18	23	23	17

Moisture						
Our Reference		295808-25	295808-26	295808-28	295808-29	295808-30
Your Reference	UNITS	TP 17	TP 17	TP 18	TP 19	TP 20
Depth		0-0.1	0.8-0.9	0-0.1	0.1-0.2	0-0.1
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
Moisture	%	19	19	19	23	22

Moisture						
Our Reference		295808-31	295808-32	295808-33	295808-34	295808-35
Your Reference	UNITS	TP 21	TP 22	TP 23	TP 24	TP 25
Depth		0-0.1	0-0.1	0-0.1	0-0.1	0.1-0.2
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
Moisture	%	20	19	26	19	21

Moisture						
Our Reference		295808-36	295808-37	295808-38	295808-39	295808-40
Your Reference	UNITS	TP 25	TP 25	TP 26	TP 27	TP 28
Depth		0.5-0.6	1.8-1.9	0-0.1	0-0.1	0.1-0.2
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
Moisture	%	17	16	19	20	15

Moisture						
Our Reference		295808-41	295808-42	295808-44	295808-45	295808-46
Your Reference	UNITS	TP 29	TP 29	TP 30	TP 31	TP 32
Depth		0.3-0.4	0.8-0.9	0.8-0.9	0.2-0.3	1.1-1.2
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
Moisture	%	16	19	17	16	17

Moisture						
Our Reference		295808-47	295808-48	295808-50	295808-51	295808-52
Your Reference	UNITS	TP 33	TP 33	TP 34	TP 35	TP 36
Depth		0-0.1	0.6-0.7	0.1-0.2	0.2-0.3	0-0.1
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
Moisture	%	7.9	20	17	14	23

Moisture						
Our Reference		295808-53	295808-54	295808-55	295808-56	295808-58
Your Reference	UNITS	TP 36	TP 37	TP 38	TP 38	TP 39
Depth		0.4-0.5	0.1-0.2	0.2-0.3	0.5-0.6	1.8-1.9
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
Moisture	%	18	12	20	21	16

Moisture						
Our Reference		295808-59	295808-61	295808-62	295808-63	295808-64
Your Reference	UNITS	TP 40	TP 41	TP 42	TP 43	TP 43
Depth		0.7-0.8	0.2-0.3	0.4-0.5	0.2-0.3	0.7-0.8
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
Moisture	%	14	11	19	17	17

Moisture						
Our Reference		295808-65	295808-66	295808-67	295808-68	295808-69
Your Reference	UNITS	TP 44	TP 45	TP 46	TP 47	TP 48
Depth		0-0.1	0-0.1	0.1-0.2	0-0.1	0-0.1
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
Moisture	%	17	22	19	8.5	22

Moisture						
Our Reference		295808-70	295808-71	295808-72	295808-74	295808-75
Your Reference	UNITS	TP 49	TP 50	TP 50	TP 51	TP 52
Depth		0-0.1	0-0.1	0.4-0.5	0.1-0.2	0-0.1
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
Moisture	%	15	18	16	10	17

Moisture						
Our Reference		295808-76	295808-77	295808-78	295808-79	295808-80
Your Reference	UNITS	TP 53	TP 54	TP 55	TP 56	TP 57
Depth		0-0.1	0-0.1	0-0.1	0.1-0.2	0-0.1
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
Moisture	%	20	18	14	16	18

Moisture						
Our Reference		295808-81	295808-83	295808-84	295808-85	295808-86
Your Reference	UNITS	TP 57	TP 58	TP 59	TP 60	TP 60
Depth		0.4-0.5	0-0.1	0.1-0.2	0-0.1	0.4-0.5
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
Moisture	%	20	18	20	17	18

Moisture						
Our Reference		295808-88	295808-89	295808-90	295808-91	295808-93
Your Reference	UNITS	TP 61	TP 62	TP 63	TP 63	TP 64
Depth		0.1-0.2	0-0.1	0-0.1	0.5-0.6	0-0.1
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
Moisture	%	17	26	21	17	19

Moisture						
Our Reference		295808-94	295808-95	295808-97	295808-98	295808-99
Your Reference	UNITS	TP 65	TP 65	TP 66	TP 67	TP 68
Depth		0-0.1	1.2-1.3	0-0.1	0-0.1	0.3-0.4
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
Moisture	%	21	19	18	18	27

Moisture						
Our Reference		295808-100	295808-101	295808-102	295808-103	295808-104
Your Reference	UNITS	TP 69	TP 70	TP 71	TP 72	Silt 1
Depth		0.1-0.2	0.4-0.5	0-0.1	0-0.1	-
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
Moisture	%	17	28	23	21	20

Moisture						
Our Reference		295808-105	295808-106	295808-107	295808-108	295808-109
Your Reference	UNITS	Silt 2	Silt 3	Silt 4	DUP A	DUP B
Depth		-	-	-	-	-
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
Moisture	%	29	26	29	19	22

Moisture			
Our Reference		295808-110	295808-111
Your Reference	UNITS	DUP C	DUP D
Depth		-	-
Date Sampled		17/05/2022	17/05/2022
Type of sample		Soil	Soil
Date prepared	-	20/05/2022	20/05/2022
Date analysed	-	23/05/2022	23/05/2022
Moisture	%	19	23

Asbestos ID - soils						
Our Reference		295808-2	295808-7	295808-20	295808-23	295808-28
Your Reference	UNITS	TP 2	TP 5	TP 14	TP 15	TP 18
Depth		0.4-0.5	0.1-0.2	0.6-0.7	0-0.1	0-0.1
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	24/05/2022	24/05/2022	24/05/2022	24/05/2022	24/05/2022
Sample mass tested	g	Approx. 30g	Approx. 25g	Approx. 30g	Approx. 30g	Approx. 35g
Sample Description	-	Brown coarse-grained 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	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected				

Asbestos ID - soils						
Our Reference		295808-31	295808-41	295808-44	295808-45	295808-46
Your Reference	UNITS	TP 21	TP 29	TP 30	TP 31	TP 32
Depth		0-0.1	0.3-0.4	0.8-0.9	0.2-0.3	1.1-1.2
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	24/05/2022	24/05/2022	24/05/2022	24/05/2022	24/05/2022
Sample mass tested	g	Approx. 20g	Approx. 30g	Approx. 30g	Approx. 30g	Approx. 30g
Sample Description	-	Brown coarse-grained 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	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected				

Asbestos ID - soils						
Our Reference		295808-47	295808-51	295808-52	295808-54	295808-58
Your Reference	UNITS	TP 33	TP 35	TP 36	TP 37	TP 39
Depth		0-0.1	0.2-0.3	0-0.1	0.1-0.2	1.8-1.9
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	24/05/2022	24/05/2022	24/05/2022	24/05/2022	24/05/2022
Sample mass tested	g	Approx. 35g	Approx. 30g	Approx. 25g	Approx. 30g	Approx. 30g
Sample Description	-	Brown coarse-grained 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	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected				

Asbestos ID - soils						
Our Reference		295808-59	295808-61	295808-62	295808-63	295808-66
Your Reference	UNITS	TP 40	TP 41	TP 42	TP 43	TP 45
Depth		0.7-0.8	0.2-0.3	0.4-0.5	0.2-0.3	0-0.1
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	24/05/2022	24/05/2022	24/05/2022	24/05/2022	24/05/2022
Sample mass tested	g	Approx. 35g	Approx. 35g	Approx. 30g	Approx. 30g	Approx. 25g
Sample Description	-	Brown coarse-grained 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	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected				

Asbestos ID - soils						
Our Reference		295808-68	295808-70	295808-74	295808-78	295808-89
Your Reference	UNITS	TP 47	TP 49	TP 51	TP 55	TP 62
Depth		0-0.1	0-0.1	0.1-0.2	0-0.1	0-0.1
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	24/05/2022	24/05/2022	24/05/2022	24/05/2022	24/05/2022
Sample mass tested	g	Approx. 30g	Approx. 30g	Approx. 40g	Approx. 35g	Approx. 25g
Sample Description	-	Brown coarse-grained 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	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected				

Asbestos ID - soils						
Our Reference		295808-90	295808-94	295808-99	295808-100	295808-101
Your Reference	UNITS	TP 63	TP 65	TP 68	TP 69	TP 70
Depth		0-0.1	0-0.1	0.3-0.4	0.1-0.2	0.4-0.5
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	24/05/2022	24/05/2022	24/05/2022	24/05/2022	24/05/2022
Sample mass tested	g	Approx. 30g	Approx. 25g	Approx. 25g	Approx. 25g	Approx. 30g
Sample Description	-	Brown coarse-grained 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	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected				

Asbestos ID - soils						
Our Reference		295808-102	295808-104	295808-105	295808-106	295808-107
Your Reference	UNITS	TP 71	Silt 1	Silt 2	Silt 3	Silt 4
Depth		0-0.1	-	-	-	-
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	24/05/2022	24/05/2022	24/05/2022	24/05/2022	24/05/2022
Sample mass tested	g	Approx. 35g	Approx. 25g	Approx. 30g	Approx. 50g	Approx. 25g
Sample Description	-	Brown coarse-grained 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	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected				

Asbestos ID - soils					
Our Reference		295808-108	295808-109	295808-110	295808-111
Your Reference	UNITS	DUP A	DUP B	DUP C	DUP D
Depth		-	-	-	-
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil
Date analysed	-	24/05/2022	24/05/2022	24/05/2022	24/05/2022
Sample mass tested	g	Approx. 30g	Approx. 55g	Approx. 30g	Approx. 35g
Sample Description	-	Brown coarse-grained 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

Misc Inorg - Soil						
Our Reference		295808-2	295808-3	295808-4	295808-7	295808-8
Your Reference	UNITS	TP 2	TP 2	TP 2	TP 5	TP 5
Depth		0.4-0.5	1.5-1.6	2.7-2.8	0.1-0.2	0.6-0.7
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	24/05/2022	24/05/2022	24/05/2022	24/05/2022	24/05/2022
Date analysed	-	24/05/2022	24/05/2022	24/05/2022	24/05/2022	24/05/2022
pH 1:5 soil:water	pH Units	5.3	5.3	5.0	5.8	5.3
Electrical Conductivity 1:5 soil:water	µS/cm	42	230	440	29	79
Chloride, Cl 1:5 soil:water	mg/kg	<10	150	480	<10	10
Sulphate, SO4 1:5 soil:water	mg/kg	37	180	67	10	100
Resistivity in soil*	ohm m	240	43	23	340	130

Misc Inorg - Soil						
Our Reference		295808-9	295808-11	295808-12	295808-13	295808-20
Your Reference	UNITS	TP 5	TP 7	TP 7	TP 7	TP 14
Depth		1.4-1.5	0-0.1	0.5-0.6	1.4-1.5	0.6-0.7
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	24/05/2022	24/05/2022	24/05/2022	24/05/2022	24/05/2022
Date analysed	-	24/05/2022	24/05/2022	24/05/2022	24/05/2022	24/05/2022
pH 1:5 soil:water	pH Units	5.5	5.9	6.0	5.2	6.6
Electrical Conductivity 1:5 soil:water	µS/cm	88	31	74	130	40
Chloride, Cl 1:5 soil:water	mg/kg	10	[NA]	<10	20	<10
Sulphate, SO4 1:5 soil:water	mg/kg	71	[NA]	65	180	<10
Resistivity in soil*	ohm m	110	[NA]	140	78	250

Misc Inorg - Soil						
Our Reference		295808-21	295808-22	295808-25	295808-26	295808-27
Your Reference	UNITS	TP 14	TP 14	TP 17	TP 17	TP 17
Depth		1.6-1.7	2.3-2.4	0-0.1	0.8-0.9	1.9-2
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	24/05/2022	24/05/2022	24/05/2022	24/05/2022	24/05/2022
Date analysed	-	24/05/2022	24/05/2022	24/05/2022	24/05/2022	24/05/2022
pH 1:5 soil:water	pH Units	5.2	5.2	5.4	5.0	4.7
Electrical Conductivity 1:5 soil:water	µS/cm	130	320	45	150	590
Chloride, Cl 1:5 soil:water	mg/kg	10	190	[NA]	65	540
Sulphate, SO4 1:5 soil:water	mg/kg	200	240	[NA]	150	270
Resistivity in soil*	ohm m	75	31	[NA]	65	17

Misc Inorg - Soil						
Our Reference		295808-35	295808-36	295808-37	295808-41	295808-42
Your Reference	UNITS	TP 25	TP 25	TP 25	TP 29	TP 29
Depth		0.1-0.2	0.5-0.6	1.8-1.9	0.3-0.4	0.8-0.9
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	24/05/2022	24/05/2022	24/05/2022	24/05/2022	24/05/2022
Date analysed	-	24/05/2022	24/05/2022	24/05/2022	24/05/2022	24/05/2022
pH 1:5 soil:water	pH Units	5.7	4.8	4.7	5.2	5.4
Electrical Conductivity 1:5 soil:water	µS/cm	8	500	590	58	91
Chloride, Cl 1:5 soil:water	mg/kg	[NA]	520	580	10	10
Sulphate, SO4 1:5 soil:water	mg/kg	[NA]	140	170	53	120
Resistivity in soil*	ohm m	[NA]	20	17	170	110

Misc Inorg - Soil						
Our Reference		295808-43	295808-48	295808-49	295808-55	295808-56
Your Reference	UNITS	TP 29	TP 33	TP 33	TP 38	TP 38
Depth		1.4-1.5	0.6-0.7	1.9-2	0.2-0.3	0.5-0.6
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	24/05/2022	24/05/2022	24/05/2022	24/05/2022	24/05/2022
Date analysed	-	24/05/2022	24/05/2022	24/05/2022	24/05/2022	24/05/2022
pH 1:5 soil:water	pH Units	5.2	5.1	4.7	6.3	5.2
Electrical Conductivity 1:5 soil:water	µS/cm	140	180	590	37	280
Chloride, Cl 1:5 soil:water	mg/kg	83	73	670	[NA]	150
Sulphate, SO4 1:5 soil:water	mg/kg	59	180	100	[NA]	260
Resistivity in soil*	ohm m	73	57	17	[NA]	36

Misc Inorg - Soil						
Our Reference		295808-57	295808-71	295808-72	295808-73	295808-80
Your Reference	UNITS	TP 38	TP 50	TP 50	TP 50	TP 57
Depth		1.5-1.6	0-0.1	0.4-0.5	1.5-1.6	0-0.1
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	24/05/2022	24/05/2022	24/05/2022	24/05/2022	24/05/2022
Date analysed	-	24/05/2022	24/05/2022	24/05/2022	24/05/2022	24/05/2022
pH 1:5 soil:water	pH Units	5.1	5.9	5.5	4.7	5.6
Electrical Conductivity 1:5 soil:water	µS/cm	310	26	53	480	22
Chloride, Cl 1:5 soil:water	mg/kg	200	[NA]	10	420	[NA]
Sulphate, SO4 1:5 soil:water	mg/kg	150	[NA]	32	190	[NA]
Resistivity in soil*	ohm m	32	[NA]	190	21	[NA]

Misc Inorg - Soil						
Our Reference		295808-81	295808-82	295808-85	295808-86	295808-87
Your Reference	UNITS	TP 57	TP 57	TP 60	TP 60	TP 60
Depth		0.4-0.5	1.6-1.7	0-0.1	0.4-0.5	1.8-1.9
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	24/05/2022	24/05/2022	24/05/2022	24/05/2022	24/05/2022
Date analysed	-	24/05/2022	24/05/2022	24/05/2022	24/05/2022	24/05/2022
pH 1:5 soil:water	pH Units	5.7	5.0	5.8	5.2	5.0
Electrical Conductivity 1:5 soil:water	µS/cm	32	240	75	280	390
Chloride, Cl 1:5 soil:water	mg/kg	<10	180	[NA]	150	280
Sulphate, SO4 1:5 soil:water	mg/kg	22	77	[NA]	200	160
Resistivity in soil*	ohm m	310	41	[NA]	35	26

Misc Inorg - Soil						
Our Reference		295808-90	295808-91	295808-92	295808-94	295808-95
Your Reference	UNITS	TP 63	TP 63	TP 63	TP 65	TP 65
Depth		0-0.1	0.5-0.6	1.4-1.5	0-0.1	1.2-1.3
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	24/05/2022	24/05/2022	24/05/2022	24/05/2022	24/05/2022
Date analysed	-	24/05/2022	24/05/2022	24/05/2022	24/05/2022	24/05/2022
pH 1:5 soil:water	pH Units	6.1	5.2	5.2	6.6	6.1
Electrical Conductivity 1:5 soil:water	µS/cm	52	190	240	43	100
Chloride, Cl 1:5 soil:water	mg/kg	[NA]	83	130	<10	10
Sulphate, SO4 1:5 soil:water	mg/kg	[NA]	150	170	20	100
Resistivity in soil*	ohm m	[NA]	52	41	230	96

Misc Inorg - Soil						
Our Reference		295808-96	295808-104	295808-105	295808-106	295808-107
Your Reference	UNITS	TP 65	Silt 1	Silt 2	Silt 3	Silt 4
Depth		2.1-2.2	-	-	-	-
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	24/05/2022	24/05/2022	24/05/2022	24/05/2022	24/05/2022
Date analysed	-	24/05/2022	24/05/2022	24/05/2022	24/05/2022	24/05/2022
pH 1:5 soil:water	pH Units	5.3	6.3	5.2	5.4	6.8
Electrical Conductivity 1:5 soil:water	µS/cm	170	34	42	55	98
Chloride, Cl 1:5 soil:water	mg/kg	40	<10	<10	<10	<10
Sulphate, SO4 1:5 soil:water	mg/kg	170	10	20	39	37
Resistivity in soil*	ohm m	59	[NA]	[NA]	[NA]	[NA]

ESP/CEC						
Our Reference		295808-1	295808-17	295808-28	295808-35	295808-66
Your Reference	UNITS	TP 1	TP 11	TP 18	TP 25	TP 45
Depth		0-0.1	0.1-0.2	0-0.1	0.1-0.2	0-0.1
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	25/05/2022	25/05/2022	25/05/2022	25/05/2022	25/05/2022
Date analysed	-	25/05/2022	25/05/2022	25/05/2022	25/05/2022	25/05/2022
Exchangeable Ca	meq/100g	4.2	6.8	6.8	1.3	9.0
Exchangeable K	meq/100g	0.2	0.2	0.7	0.5	0.8
Exchangeable Mg	meq/100g	3.6	2.5	5.8	3.2	4.2
Exchangeable Na	meq/100g	0.2	<0.1	0.3	0.2	<0.1
Cation Exchange Capacity	meq/100g	8.2	9.6	14	5.2	14
ESP	%	3	[NT]	2	4	<1

ESP/CEC			
Our Reference		295808-84	295808-101
Your Reference	UNITS	TP 59	TP 70
Depth		0.1-0.2	0.4-0.5
Date Sampled		17/05/2022	17/05/2022
Type of sample		Soil	Soil
Date prepared	-	25/05/2022	25/05/2022
Date analysed	-	25/05/2022	25/05/2022
Exchangeable Ca	meq/100g	4.7	13
Exchangeable K	meq/100g	0.4	0.9
Exchangeable Mg	meq/100g	2.4	6.1
Exchangeable Na	meq/100g	0.1	<0.1
Cation Exchange Capacity	meq/100g	7.5	20
ESP	%	2	<1

Asbestos ID - materials		
Our Reference		295808-60
Your Reference	UNITS	TP 40 - Fragment
Depth		-
Date Sampled		17/05/2022
Type of sample		Material
Date analysed	-	24/05/2022
Mass / Dimension of Sample	-	95x65x5mm
Sample Description	-	Grey fibre cement material
Asbestos ID in materials	-	Chrysotile asbestos detected
Trace Analysis	-	[NT]

vTRH(C6-C10)/BTEXN in Water					
Our Reference		295808-116	295808-117	295808-118	295808-119
Your Reference	UNITS	DW 1	DW 2	DW 3	DW 4
Depth		-	-	-	-
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Water	Water	Water	Water
Date extracted	-	19/05/2022	19/05/2022	19/05/2022	19/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022
TRH C ₆ - C ₉	µg/L	<10	<10	<10	<10
TRH C ₆ - C ₁₀	µg/L	<10	<10	<10	<10
TRH C ₆ - C ₁₀ less BTEX (F1)	µg/L	<10	<10	<10	<10
Benzene	µg/L	<1	<1	<1	<1
Toluene	µg/L	<1	<1	<1	<1
Ethylbenzene	µg/L	<1	<1	<1	<1
m+p-xylene	µg/L	<2	<2	<2	<2
o-xylene	µg/L	<1	<1	<1	<1
Naphthalene	µg/L	<1	<1	<1	<1
Surrogate Dibromofluoromethane	%	97	95	97	95
Surrogate toluene-d8	%	101	101	102	100
Surrogate 4-BFB	%	102	100	102	103

svTRH (C10-C40) in Water					
Our Reference		295808-116	295808-117	295808-118	295808-119
Your Reference	UNITS	DW 1	DW 2	DW 3	DW 4
Depth		-	-	-	-
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Water	Water	Water	Water
Date extracted	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	21/05/2022	21/05/2022	21/05/2022	21/05/2022
TRH C ₁₀ - C ₁₄	µg/L	<50	<50	66	<50
TRH C ₁₅ - C ₂₈	µg/L	<100	120	<100	<100
TRH C ₂₉ - C ₃₆	µg/L	<100	<100	<100	<100
Total +ve TRH (C10-C36)	µg/L	<50	120	70	<50
TRH >C ₁₀ - C ₁₆	µg/L	<50	<50	<50	<50
TRH >C ₁₀ - C ₁₆ less Naphthalene (F2)	µg/L	<50	<50	<50	<50
TRH >C ₁₆ - C ₃₄	µg/L	<100	180	<100	<100
TRH >C ₃₄ - C ₄₀	µg/L	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	µg/L	<50	180	<50	<50
Surrogate o-Terphenyl	%	85	89	87	87

PAHs in Water					
Our Reference		295808-116	295808-117	295808-118	295808-119
Your Reference	UNITS	DW 1	DW 2	DW 3	DW 4
Depth		-	-	-	-
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Water	Water	Water	Water
Date extracted	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	21/05/2022	21/05/2022	21/05/2022	21/05/2022
Naphthalene	µg/L	<1	<1	<1	<1
Acenaphthylene	µg/L	<1	<1	<1	<1
Acenaphthene	µg/L	<1	<1	<1	<1
Fluorene	µg/L	<1	<1	<1	<1
Phenanthrene	µg/L	<1	<1	<1	<1
Anthracene	µg/L	<1	<1	<1	<1
Fluoranthene	µg/L	<1	<1	<1	<1
Pyrene	µg/L	<1	<1	<1	<1
Benzo(a)anthracene	µg/L	<1	<1	<1	<1
Chrysene	µg/L	<1	<1	<1	<1
Benzo(b,j+k)fluoranthene	µg/L	<2	<2	<2	<2
Benzo(a)pyrene	µg/L	<1	<1	<1	<1
Indeno(1,2,3-c,d)pyrene	µg/L	<1	<1	<1	<1
Dibenzo(a,h)anthracene	µg/L	<1	<1	<1	<1
Benzo(g,h,i)perylene	µg/L	<1	<1	<1	<1
Benzo(a)pyrene TEQ	µg/L	<5	<5	<5	<5
Total +ve PAH's	µg/L	NIL (+)VE	NIL (+)VE	NIL (+)VE	NIL (+)VE
Surrogate <i>p</i> -Terphenyl-d14	%	84	91	112	90

Organochlorine Pesticides in Water					
Our Reference		295808-116	295808-117	295808-118	295808-119
Your Reference	UNITS	DW 1	DW 2	DW 3	DW 4
Depth		-	-	-	-
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Water	Water	Water	Water
Date extracted	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	21/05/2022	21/05/2022	21/05/2022	21/05/2022
alpha-BHC	µg/L	<0.2	<0.2	<0.2	<0.2
HCB	µg/L	<0.2	<0.2	<0.2	<0.2
beta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2
gamma-BHC	µg/L	<0.2	<0.2	<0.2	<0.2
Heptachlor	µg/L	<0.2	<0.2	<0.2	<0.2
delta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2
Aldrin	µg/L	<0.2	<0.2	<0.2	<0.2
Heptachlor Epoxide	µg/L	<0.2	<0.2	<0.2	<0.2
gamma-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2
alpha-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2
Endosulfan I	µg/L	<0.2	<0.2	<0.2	<0.2
pp-DDE	µg/L	<0.2	<0.2	<0.2	<0.2
Dieldrin	µg/L	<0.2	<0.2	<0.2	<0.2
Endrin	µg/L	<0.2	<0.2	<0.2	<0.2
Endosulfan II	µg/L	<0.2	<0.2	<0.2	<0.2
pp-DDD	µg/L	<0.2	<0.2	<0.2	<0.2
Endrin Aldehyde	µg/L	<0.2	<0.2	<0.2	<0.2
pp-DDT	µg/L	<0.2	<0.2	<0.2	<0.2
Endosulfan Sulphate	µg/L	<0.2	<0.2	<0.2	<0.2
Methoxychlor	µg/L	<0.2	<0.2	<0.2	<0.2
Surrogate TCMX	%	83	89	110	89

PCBs in Water					
Our Reference		295808-116	295808-117	295808-118	295808-119
Your Reference	UNITS	DW 1	DW 2	DW 3	DW 4
Depth		-	-	-	-
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Water	Water	Water	Water
Date extracted	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	21/05/2022	21/05/2022	21/05/2022	21/05/2022
Aroclor 1016	µg/L	<2	<2	<2	<2
Aroclor 1221	µg/L	<2	<2	<2	<2
Aroclor 1232	µg/L	<2	<2	<2	<2
Aroclor 1242	µg/L	<2	<2	<2	<2
Aroclor 1248	µg/L	<2	<2	<2	<2
Aroclor 1254	µg/L	<2	<2	<2	<2
Aroclor 1260	µg/L	<2	<2	<2	<2
Surrogate TCMX	%	83	89	110	89

HM in water - total						
Our Reference		295808-114	295808-115	295808-116	295808-117	295808-118
Your Reference	UNITS	Rinsate 1	Rinsate 2	DW 1	DW 2	DW 3
Depth		-	-	-	-	-
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	24/05/2022	24/05/2022	24/05/2022	24/05/2022	24/05/2022
Date analysed	-	24/05/2022	24/05/2022	24/05/2022	24/05/2022	24/05/2022
Arsenic-Total	µg/L	<1	<1	4	4	12
Cadmium-Total	µg/L	<0.1	<0.1	0.2	<0.1	0.4
Chromium-Total	µg/L	<1	<1	5	2	9
Copper-Total	µg/L	<1	<1	23	4	120
Lead-Total	µg/L	<1	<1	13	3	140
Mercury-Total	µg/L	<0.05	<0.05	<0.05	<0.05	0.08
Nickel-Total	µg/L	<1	<1	7	2	8
Zinc-Total	µg/L	<1	<1	100	7	560

HM in water - total		
Our Reference		295808-119
Your Reference	UNITS	DW 4
Depth		-
Date Sampled		17/05/2022
Type of sample		Water
Date prepared	-	24/05/2022
Date analysed	-	24/05/2022
Arsenic-Total	µg/L	2
Cadmium-Total	µg/L	0.4
Chromium-Total	µg/L	1
Copper-Total	µg/L	8
Lead-Total	µg/L	7
Mercury-Total	µg/L	<0.05
Nickel-Total	µg/L	3
Zinc-Total	µg/L	49

Metals in Waters - Acid extractable					
Our Reference		295808-116	295808-117	295808-118	295808-119
Your Reference	UNITS	DW 1	DW 2	DW 3	DW 4
Depth		-	-	-	-
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Water	Water	Water	Water
Date prepared	-	25/05/2022	25/05/2022	25/05/2022	25/05/2022
Date analysed	-	25/05/2022	25/05/2022	25/05/2022	25/05/2022
Phosphorus - Total	mg/L	0.7	<0.05	0.9	0.3

Cations in water Dissolved					
Our Reference		295808-116	295808-117	295808-118	295808-119
Your Reference	UNITS	DW 1	DW 2	DW 3	DW 4
Depth		-	-	-	-
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Water	Water	Water	Water
Date digested	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Date analysed	-	20/05/2022	20/05/2022	20/05/2022	20/05/2022
Calcium - Dissolved	mg/L	19	2	12	9.1
Magnesium - Dissolved	mg/L	7.4	3	6.7	5.1
Hardness	mgCaCO ₃ /L	77	16	57	44

Miscellaneous Inorganics					
Our Reference		295808-116	295808-117	295808-118	295808-119
Your Reference	UNITS	DW 1	DW 2	DW 3	DW 4
Depth		-	-	-	-
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Water	Water	Water	Water
Date prepared	-	18/05/2022	18/05/2022	18/05/2022	18/05/2022
Date analysed	-	18/05/2022	18/05/2022	18/05/2022	18/05/2022
pH	pH Units	6.9	6.7	6.9	7.0
Electrical Conductivity	µS/cm	310	150	250	200
Chloride, Cl	mg/L	21	23	19	15
Sulphate, SO4	mg/L	8	2	4	1
Turbidity	NTU	600	340	750	180
Total Dissolved Solids (grav)	mg/L	290	190	230	220
Total Suspended Solids	mg/L	1,500	370	770	210
Total Nitrogen in water	mg/L	1.5	1.2	0.9	1.4

Microbiological Testing					
Our Reference		295808-116	295808-117	295808-118	295808-119
Your Reference	UNITS	DW 1	DW 2	DW 3	DW 4
Depth		-	-	-	-
Date Sampled		17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Water	Water	Water	Water
Date of testing	-	19/05/2022	19/05/2022	19/05/2022	19/05/2022
E. coli	cfu/100mL	4,000 A NBO	2000 A	2,000 A	6,000 A NBO
Enterococci	cfu/100mL	240	30A	140	910
Faecal Coliforms	cfu/100mL	4,000 A NBO	2,000 A	2,000 A	6,000 A NBO

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.
Ext-008	Subcontracted to Sonic Food & Water Testing. NATA Accreditation No. 4034.
Inorg-001	pH - Measured using pH meter and electrode in accordance with APHA latest edition, 4500-H+. Please note that the results for water analyses are indicative only, as analysis outside of the APHA storage times.
Inorg-002	Conductivity and Salinity - measured using a conductivity cell at 25°C in accordance with APHA latest edition 2510 and Rayment & Lyons.
Inorg-002	Conductivity and Salinity - measured using a conductivity cell at 25oC in accordance with APHA 22nd ED 2510 and Rayment & Lyons. Resistivity is calculated from Conductivity (non NATA). Resistivity (calculated) may not correlate with results otherwise obtained using Resistivity-Current method, depending on the nature of the soil being analysed.
Inorg-008	Moisture content determined by heating at 105+/-5 °C for a minimum of 12 hours.
Inorg-018	Total Dissolved Solids - determined gravimetrically. The solids are dried at 180+/-10°C.
Inorg-019	Suspended Solids - determined gravimetrically by filtration of the sample. The samples are dried at 104+/-5°C.
Inorg-022	Turbidity - measured nephelometrically using a turbidimeter, in accordance with APHA latest edition, 2130-B.
Inorg-055/062/127	Total Nitrogen - Calculation sum of TKN and oxidised Nitrogen. Alternatively analysed by combustion and chemiluminescence.
Inorg-081	Anions - a range of Anions are determined by Ion Chromatography, in accordance with APHA latest edition, 4110-B. Waters samples are filtered on receipt prior to analysis. Alternatively determined by colourimetry/turbidity using Discrete Analyser.
Metals-020	Determination of various metals by ICP-AES.
Metals-020	Determination of exchangeable cations and cation exchange capacity in soils using 1M Ammonium Chloride exchange and ICP-OES analytical finish.
Metals-021	Determination of Mercury by Cold Vapour AAS.
Metals-022	Determination of various metals by ICP-MS.
Org-020	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.
Org-020	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-021	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD.

Method ID	Methodology Summary
Org-021	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-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS.
Org-022/025	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-MS/GC-MSMS. 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-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS and/or GC-MS/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-023	Water samples are analysed directly by purge and trap GC-MS.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
Org-023	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-023	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.

Client Reference: JC22432A, 15 George Rd & 40-52 Hulls Rd Leppington

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-2	295808-7
Date extracted	-			20/05/2022	2	20/05/2022	20/05/2022		20/05/2022	20/05/2022
Date analysed	-			23/05/2022	2	23/05/2022	23/05/2022		23/05/2022	23/05/2022
TRH C ₆ - C ₉	mg/kg	25	Org-023	<25	2	<25	<25	0	108	103
TRH C ₆ - C ₁₀	mg/kg	25	Org-023	<25	2	<25	<25	0	108	103
Benzene	mg/kg	0.2	Org-023	<0.2	2	<0.2	<0.2	0	100	95
Toluene	mg/kg	0.5	Org-023	<0.5	2	<0.5	<0.5	0	107	100
Ethylbenzene	mg/kg	1	Org-023	<1	2	<1	<1	0	114	110
m+p-xylene	mg/kg	2	Org-023	<2	2	<2	<2	0	109	104
o-Xylene	mg/kg	1	Org-023	<1	2	<1	<1	0	117	110
Naphthalene	mg/kg	1	Org-023	<1	2	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	113	2	98	95	3	105	95

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-3	295808-94
Date extracted	-			[NT]	45	20/05/2022	20/05/2022		20/05/2022	20/05/2022
Date analysed	-			[NT]	45	23/05/2022	23/05/2022		23/05/2022	23/05/2022
TRH C ₆ - C ₉	mg/kg	25	Org-023	[NT]	45	<25	<25	0	93	91
TRH C ₆ - C ₁₀	mg/kg	25	Org-023	[NT]	45	<25	<25	0	93	91
Benzene	mg/kg	0.2	Org-023	[NT]	45	<0.2	<0.2	0	93	99
Toluene	mg/kg	0.5	Org-023	[NT]	45	<0.5	<0.5	0	97	92
Ethylbenzene	mg/kg	1	Org-023	[NT]	45	<1	<1	0	93	89
m+p-xylene	mg/kg	2	Org-023	[NT]	45	<2	<2	0	92	88
o-Xylene	mg/kg	1	Org-023	[NT]	45	<1	<1	0	87	87
Naphthalene	mg/kg	1	Org-023	[NT]	45	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	45	94	94	0	94	100

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-6	[NT]
Date extracted	-			[NT]	90	20/05/2022	20/05/2022		20/05/2022	[NT]
Date analysed	-			[NT]	90	23/05/2022	23/05/2022		23/05/2022	[NT]
TRH C ₆ - C ₉	mg/kg	25	Org-023	[NT]	90	<25	<25	0	101	[NT]
TRH C ₆ - C ₁₀	mg/kg	25	Org-023	[NT]	90	<25	<25	0	101	[NT]
Benzene	mg/kg	0.2	Org-023	[NT]	90	<0.2	<0.2	0	101	[NT]
Toluene	mg/kg	0.5	Org-023	[NT]	90	<0.5	<0.5	0	99	[NT]
Ethylbenzene	mg/kg	1	Org-023	[NT]	90	<1	<1	0	100	[NT]
m+p-xylene	mg/kg	2	Org-023	[NT]	90	<2	<2	0	102	[NT]
o-Xylene	mg/kg	1	Org-023	[NT]	90	<1	<1	0	98	[NT]
Naphthalene	mg/kg	1	Org-023	[NT]	90	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	90	108	95	13	98	[NT]

Client Reference: JC22432A, 15 George Rd & 40-52 Hulls Rd Leppington

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]	101	20/05/2022	20/05/2022		[NT]	[NT]
Date analysed	-			[NT]	101	23/05/2022	23/05/2022		[NT]	[NT]
TRH C ₆ - C ₉	mg/kg	25	Org-023	[NT]	101	<25	<25	0	[NT]	[NT]
TRH C ₆ - C ₁₀	mg/kg	25	Org-023	[NT]	101	<25	<25	0	[NT]	[NT]
Benzene	mg/kg	0.2	Org-023	[NT]	101	<0.2	<0.2	0	[NT]	[NT]
Toluene	mg/kg	0.5	Org-023	[NT]	101	<0.5	<0.5	0	[NT]	[NT]
Ethylbenzene	mg/kg	1	Org-023	[NT]	101	<1	<1	0	[NT]	[NT]
m+p-xylene	mg/kg	2	Org-023	[NT]	101	<2	<2	0	[NT]	[NT]
o-Xylene	mg/kg	1	Org-023	[NT]	101	<1	<1	0	[NT]	[NT]
Naphthalene	mg/kg	1	Org-023	[NT]	101	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	101	79	99	22	[NT]	[NT]

Client Reference: JC22432A, 15 George Rd & 40-52 Hulls Rd Leppington

QUALITY CONTROL: svTRH (C10-C40) in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-2	295808-7
Date extracted	-			20/05/2022	2	20/05/2022	20/05/2022		20/05/2022	20/05/2022
Date analysed	-			21/05/2022	2	21/05/2022	21/05/2022		21/05/2022	21/05/2022
TRH C ₁₀ - C ₁₄	mg/kg	50	Org-020	<50	2	<50	<50	0	97	94
TRH C ₁₅ - C ₂₈	mg/kg	100	Org-020	<100	2	<100	<100	0	85	83
TRH C ₂₉ - C ₃₆	mg/kg	100	Org-020	<100	2	<100	<100	0	102	96
TRH >C ₁₀ -C ₁₆	mg/kg	50	Org-020	<50	2	<50	<50	0	97	94
TRH >C ₁₆ -C ₃₄	mg/kg	100	Org-020	<100	2	<100	<100	0	85	83
TRH >C ₃₄ -C ₄₀	mg/kg	100	Org-020	<100	2	<100	<100	0	102	96
Surrogate o-Terphenyl	%		Org-020	78	2	76	80	5	116	117

QUALITY CONTROL: svTRH (C10-C40) in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-3	295808-94
Date extracted	-			[NT]	45	20/05/2022	20/05/2022		20/05/2022	20/05/2022
Date analysed	-			[NT]	45	21/05/2022	21/05/2022		21/05/2022	21/05/2022
TRH C ₁₀ - C ₁₄	mg/kg	50	Org-020	[NT]	45	<50	<50	0	108	105
TRH C ₁₅ - C ₂₈	mg/kg	100	Org-020	[NT]	45	<100	<100	0	93	102
TRH C ₂₉ - C ₃₆	mg/kg	100	Org-020	[NT]	45	<100	<100	0	117	97
TRH >C ₁₀ -C ₁₆	mg/kg	50	Org-020	[NT]	45	<50	<50	0	108	105
TRH >C ₁₆ -C ₃₄	mg/kg	100	Org-020	[NT]	45	<100	<100	0	93	102
TRH >C ₃₄ -C ₄₀	mg/kg	100	Org-020	[NT]	45	<100	<100	0	117	97
Surrogate o-Terphenyl	%		Org-020	[NT]	45	75	78	4	101	86

QUALITY CONTROL: svTRH (C10-C40) in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	90	20/05/2022	20/05/2022		[NT]	[NT]
Date analysed	-			[NT]	90	21/05/2022	21/05/2022		[NT]	[NT]
TRH C ₁₀ - C ₁₄	mg/kg	50	Org-020	[NT]	90	<50	<50	0	[NT]	[NT]
TRH C ₁₅ - C ₂₈	mg/kg	100	Org-020	[NT]	90	<100	<100	0	[NT]	[NT]
TRH C ₂₉ - C ₃₆	mg/kg	100	Org-020	[NT]	90	<100	<100	0	[NT]	[NT]
TRH >C ₁₀ -C ₁₆	mg/kg	50	Org-020	[NT]	90	<50	<50	0	[NT]	[NT]
TRH >C ₁₆ -C ₃₄	mg/kg	100	Org-020	[NT]	90	<100	<100	0	[NT]	[NT]
TRH >C ₃₄ -C ₄₀	mg/kg	100	Org-020	[NT]	90	<100	<100	0	[NT]	[NT]
Surrogate o-Terphenyl	%		Org-020	[NT]	90	79	83	5	[NT]	[NT]

Client Reference: JC22432A, 15 George Rd & 40-52 Hulls Rd Leppington

QUALITY CONTROL: svTRH (C10-C40) in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	101	20/05/2022	20/05/2022		[NT]	[NT]
Date analysed	-			[NT]	101	21/05/2022	21/05/2022		[NT]	[NT]
TRH C ₁₀ - C ₁₄	mg/kg	50	Org-020	[NT]	101	<50	<50	0	[NT]	[NT]
TRH C ₁₅ - C ₂₈	mg/kg	100	Org-020	[NT]	101	<100	<100	0	[NT]	[NT]
TRH C ₂₉ - C ₃₆	mg/kg	100	Org-020	[NT]	101	<100	<100	0	[NT]	[NT]
TRH >C ₁₀ -C ₁₆	mg/kg	50	Org-020	[NT]	101	<50	<50	0	[NT]	[NT]
TRH >C ₁₆ -C ₃₄	mg/kg	100	Org-020	[NT]	101	<100	<100	0	[NT]	[NT]
TRH >C ₃₄ -C ₄₀	mg/kg	100	Org-020	[NT]	101	<100	<100	0	[NT]	[NT]
Surrogate o-Terphenyl	%		Org-020	[NT]	101	82	85	4	[NT]	[NT]

Client Reference: JC22432A, 15 George Rd & 40-52 Hulls Rd Leppington

QUALITY CONTROL: PAHs in Soil				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-2	295808-7
Date extracted	-			20/05/2022	2	20/05/2022	20/05/2022		20/05/2022	20/05/2022
Date analysed	-			20/05/2022	2	20/05/2022	20/05/2022		20/05/2022	20/05/2022
Naphthalene	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	88	93
Acenaphthylene	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	85	89
Fluorene	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	95	101
Phenanthrene	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	82	86
Anthracene	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	78	79
Pyrene	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	81	91
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	81	87
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	<0.2	2	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	<0.05	2	<0.05	<0.05	0	122	106
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	87	2	83	80	4	83	90

QUALITY CONTROL: PAHs in Soil				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-3	295808-94
Date extracted	-			[NT]	45	20/05/2022	20/05/2022		20/05/2022	20/05/2022
Date analysed	-			[NT]	45	20/05/2022	20/05/2022		20/05/2022	20/05/2022
Naphthalene	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	<0.1	0	93	93
Acenaphthylene	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	<0.1	0	89	89
Fluorene	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	<0.1	0	97	97
Phenanthrene	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	<0.1	0	82	82
Anthracene	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	<0.1	0	88	99
Pyrene	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	<0.1	0	103	101
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	<0.1	0	91	89
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	[NT]	45	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	[NT]	45	<0.05	<0.05	0	90	96
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	45	82	88	7	82	94

Client Reference: JC22432A, 15 George Rd & 40-52 Hulls Rd Leppington

QUALITY CONTROL: PAHs in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	90	20/05/2022	20/05/2022		[NT]	[NT]
Date analysed	-			[NT]	90	20/05/2022	20/05/2022		[NT]	[NT]
Naphthalene	mg/kg	0.1	Org-022/025	[NT]	90	<0.1	<0.1	0	[NT]	[NT]
Acenaphthylene	mg/kg	0.1	Org-022/025	[NT]	90	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	[NT]	90	<0.1	<0.1	0	[NT]	[NT]
Fluorene	mg/kg	0.1	Org-022/025	[NT]	90	<0.1	<0.1	0	[NT]	[NT]
Phenanthrene	mg/kg	0.1	Org-022/025	[NT]	90	<0.1	<0.1	0	[NT]	[NT]
Anthracene	mg/kg	0.1	Org-022/025	[NT]	90	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	[NT]	90	<0.1	<0.1	0	[NT]	[NT]
Pyrene	mg/kg	0.1	Org-022/025	[NT]	90	<0.1	<0.1	0	[NT]	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	[NT]	90	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	[NT]	90	<0.1	<0.1	0	[NT]	[NT]
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	[NT]	90	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	[NT]	90	<0.05	<0.05	0	[NT]	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	[NT]	90	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	[NT]	90	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	[NT]	90	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	90	83	82	1	[NT]	[NT]

QUALITY CONTROL: PAHs in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	101	20/05/2022	20/05/2022		[NT]	[NT]
Date analysed	-			[NT]	101	20/05/2022	20/05/2022		[NT]	[NT]
Naphthalene	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Acenaphthylene	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Fluorene	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Phenanthrene	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Anthracene	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Pyrene	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	[NT]	101	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	[NT]	101	<0.05	<0.05	0	[NT]	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	101	86	86	0	[NT]	[NT]

Client Reference: JC22432A, 15 George Rd & 40-52 Hulls Rd Leppington

QUALITY CONTROL: Organochlorine Pesticides in soil				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-2	295808-7
Date extracted	-			20/05/2022	2	20/05/2022	20/05/2022		20/05/2022	20/05/2022
Date analysed	-			20/05/2022	2	20/05/2022	20/05/2022		20/05/2022	20/05/2022
alpha-BHC	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	84	88
HCB	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	89	97
gamma-BHC	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	93	93
delta-BHC	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	91	93
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	92	91
gamma-Chlordane	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	88	94
Dieldrin	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	92	91
Endrin	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	92	92
Endosulfan II	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	92	84
Endrin Aldehyde	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	100	90
Methoxychlor	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	92	2	88	86	2	78	86

Client Reference: JC22432A, 15 George Rd & 40-52 Hulls Rd Leppington

QUALITY CONTROL: Organochlorine Pesticides in soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-3	295808-94
Date extracted	-			[NT]	45	20/05/2022	20/05/2022		20/05/2022	20/05/2022
Date analysed	-			[NT]	45	20/05/2022	20/05/2022		20/05/2022	20/05/2022
alpha-BHC	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	<0.1	0	88	86
HCB	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	<0.1	0	96	96
gamma-BHC	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	<0.1	0	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	<0.1	0	93	91
delta-BHC	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	<0.1	0	95	95
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	<0.1	0	94	94
gamma-Chlordane	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	<0.1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	<0.1	0	96	96
Dieldrin	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	<0.1	0	92	91
Endrin	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	<0.1	0	88	92
Endosulfan II	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	<0.1	0	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	<0.1	0	74	76
Endrin Aldehyde	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	<0.1	0	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	<0.1	0	72	70
Methoxychlor	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	[NT]	45	88	94	7	90	90

Client Reference: JC22432A, 15 George Rd & 40-52 Hulls Rd Leppington

QUALITY CONTROL: Organochlorine Pesticides in soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	90	20/05/2022	20/05/2022		[NT]	[NT]
Date analysed	-			[NT]	90	20/05/2022	20/05/2022		[NT]	[NT]
alpha-BHC	mg/kg	0.1	Org-022/025	[NT]	90	<0.1	<0.1	0	[NT]	[NT]
HCB	mg/kg	0.1	Org-022/025	[NT]	90	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	[NT]	90	<0.1	<0.1	0	[NT]	[NT]
gamma-BHC	mg/kg	0.1	Org-022/025	[NT]	90	<0.1	<0.1	0	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	[NT]	90	<0.1	<0.1	0	[NT]	[NT]
delta-BHC	mg/kg	0.1	Org-022/025	[NT]	90	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	[NT]	90	<0.1	<0.1	0	[NT]	[NT]
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	[NT]	90	<0.1	<0.1	0	[NT]	[NT]
gamma-Chlordane	mg/kg	0.1	Org-022/025	[NT]	90	<0.1	<0.1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	[NT]	90	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	[NT]	90	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	[NT]	90	<0.1	<0.1	0	[NT]	[NT]
Dieldrin	mg/kg	0.1	Org-022/025	[NT]	90	<0.1	<0.1	0	[NT]	[NT]
Endrin	mg/kg	0.1	Org-022/025	[NT]	90	<0.1	<0.1	0	[NT]	[NT]
Endosulfan II	mg/kg	0.1	Org-022/025	[NT]	90	<0.1	<0.1	0	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	[NT]	90	<0.1	<0.1	0	[NT]	[NT]
Endrin Aldehyde	mg/kg	0.1	Org-022/025	[NT]	90	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	[NT]	90	<0.1	<0.1	0	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	[NT]	90	<0.1	<0.1	0	[NT]	[NT]
Methoxychlor	mg/kg	0.1	Org-022/025	[NT]	90	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	[NT]	90	90	90	0	[NT]	[NT]

Client Reference: JC22432A, 15 George Rd & 40-52 Hulls Rd Leppington

QUALITY CONTROL: Organochlorine Pesticides in soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	101	20/05/2022	20/05/2022		[NT]	[NT]
Date analysed	-			[NT]	101	20/05/2022	20/05/2022		[NT]	[NT]
alpha-BHC	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
HCB	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
gamma-BHC	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
delta-BHC	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
gamma-Chlordane	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Dieldrin	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Endrin	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Endosulfan II	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Endrin Aldehyde	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Methoxychlor	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	[NT]	101	95	82	15	[NT]	[NT]

Client Reference: JC22432A, 15 George Rd & 40-52 Hulls Rd Leppington

QUALITY CONTROL: PCBs in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-2	295808-7
Date extracted	-			20/05/2022	2	20/05/2022	20/05/2022		20/05/2022	20/05/2022
Date analysed	-			20/05/2022	2	20/05/2022	20/05/2022		20/05/2022	20/05/2022
Aroclor 1016	mg/kg	0.1	Org-021	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-021	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-021	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-021	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-021	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-021	<0.1	2	<0.1	<0.1	0	74	80
Aroclor 1260	mg/kg	0.1	Org-021	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-021	92	2	88	86	2	78	86

QUALITY CONTROL: PCBs in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-3	295808-94
Date extracted	-			[NT]	45	20/05/2022	20/05/2022		20/05/2022	20/05/2022
Date analysed	-			[NT]	45	20/05/2022	20/05/2022		20/05/2022	20/05/2022
Aroclor 1016	mg/kg	0.1	Org-021	[NT]	45	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-021	[NT]	45	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-021	[NT]	45	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-021	[NT]	45	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-021	[NT]	45	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-021	[NT]	45	<0.1	<0.1	0	82	100
Aroclor 1260	mg/kg	0.1	Org-021	[NT]	45	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-021	[NT]	45	88	94	7	90	90

QUALITY CONTROL: PCBs in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	90	20/05/2022	20/05/2022		[NT]	[NT]
Date analysed	-			[NT]	90	20/05/2022	20/05/2022		[NT]	[NT]
Aroclor 1016	mg/kg	0.1	Org-021	[NT]	90	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-021	[NT]	90	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-021	[NT]	90	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-021	[NT]	90	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-021	[NT]	90	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-021	[NT]	90	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1260	mg/kg	0.1	Org-021	[NT]	90	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-021	[NT]	90	90	90	0	[NT]	[NT]

Client Reference: JC22432A, 15 George Rd & 40-52 Hulls Rd Leppington

QUALITY CONTROL: PCBs in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	101	20/05/2022	20/05/2022		[NT]	[NT]
Date analysed	-			[NT]	101	20/05/2022	20/05/2022		[NT]	[NT]
Aroclor 1016	mg/kg	0.1	Org-021	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-021	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-021	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-021	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-021	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-021	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1260	mg/kg	0.1	Org-021	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-021	[NT]	101	95	82	15	[NT]	[NT]

Client Reference: JC22432A, 15 George Rd & 40-52 Hulls Rd Leppington

QUALITY CONTROL: Acid Extractable metals in soil				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	295808-3
Date prepared	-			20/05/2022	1	20/05/2022	20/05/2022		20/05/2022	20/05/2022
Date analysed	-			23/05/2022	1	23/05/2022	23/05/2022		23/05/2022	23/05/2022
Arsenic	mg/kg	4	Metals-020	<4	1	13	14	7	108	95
Cadmium	mg/kg	0.4	Metals-020	<0.4	1	<0.4	<0.4	0	106	91
Chromium	mg/kg	1	Metals-020	<1	1	20	21	5	105	113
Copper	mg/kg	1	Metals-020	<1	1	15	13	14	104	123
Lead	mg/kg	1	Metals-020	<1	1	18	18	0	103	95
Mercury	mg/kg	0.1	Metals-021	<0.1	1	<0.1	<0.1	0	121	110
Nickel	mg/kg	1	Metals-020	<1	1	7	7	0	103	97
Zinc	mg/kg	1	Metals-020	<1	1	20	19	5	112	102

QUALITY CONTROL: Acid Extractable metals in soil				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-2	295808-7
Date prepared	-			[NT]	2	20/05/2022	20/05/2022		20/05/2022	20/05/2022
Date analysed	-			[NT]	2	23/05/2022	23/05/2022		23/05/2022	23/05/2022
Arsenic	mg/kg	4	Metals-020	[NT]	2	8	8	0	110	94
Cadmium	mg/kg	0.4	Metals-020	[NT]	2	<0.4	<0.4	0	110	89
Chromium	mg/kg	1	Metals-020	[NT]	2	18	21	15	108	94
Copper	mg/kg	1	Metals-020	[NT]	2	25	25	0	107	109
Lead	mg/kg	1	Metals-020	[NT]	2	17	21	21	106	87
Mercury	mg/kg	0.1	Metals-021	[NT]	2	<0.1	<0.1	0	115	122
Nickel	mg/kg	1	Metals-020	[NT]	2	10	11	10	105	89
Zinc	mg/kg	1	Metals-020	[NT]	2	39	45	14	113	87

QUALITY CONTROL: Acid Extractable metals in soil				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-3	295808-33
Date prepared	-			[NT]	21	20/05/2022	20/05/2022		20/05/2022	20/05/2022
Date analysed	-			[NT]	21	23/05/2022	23/05/2022		23/05/2022	23/05/2022
Arsenic	mg/kg	4	Metals-020	[NT]	21	15	17	12	112	89
Cadmium	mg/kg	0.4	Metals-020	[NT]	21	<0.4	<0.4	0	110	86
Chromium	mg/kg	1	Metals-020	[NT]	21	28	31	10	108	87
Copper	mg/kg	1	Metals-020	[NT]	21	22	23	4	105	75
Lead	mg/kg	1	Metals-020	[NT]	21	15	15	0	106	76
Mercury	mg/kg	0.1	Metals-021	[NT]	21	<0.1	<0.1	0	116	105
Nickel	mg/kg	1	Metals-020	[NT]	21	10	10	0	105	84
Zinc	mg/kg	1	Metals-020	[NT]	21	33	34	3	113	#

Client Reference: JC22432A, 15 George Rd & 40-52 Hulls Rd Leppington

QUALITY CONTROL: Acid Extractable metals in soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-4	295808-72
Date prepared	-			[NT]	32	20/05/2022	20/05/2022		20/05/2022	20/05/2022
Date analysed	-			[NT]	32	23/05/2022	23/05/2022		23/05/2022	23/05/2022
Arsenic	mg/kg	4	Metals-020	[NT]	32	8	9	12	112	92
Cadmium	mg/kg	0.4	Metals-020	[NT]	32	<0.4	<0.4	0	110	90
Chromium	mg/kg	1	Metals-020	[NT]	32	19	20	5	108	100
Copper	mg/kg	1	Metals-020	[NT]	32	15	10	40	105	108
Lead	mg/kg	1	Metals-020	[NT]	32	15	18	18	106	92
Mercury	mg/kg	0.1	Metals-021	[NT]	32	<0.1	<0.1	0	119	113
Nickel	mg/kg	1	Metals-020	[NT]	32	8	7	13	106	91
Zinc	mg/kg	1	Metals-020	[NT]	32	21	16	27	113	93

QUALITY CONTROL: Acid Extractable metals in soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	295808-94
Date prepared	-			[NT]	45	20/05/2022	20/05/2022		20/05/2022	20/05/2022
Date analysed	-			[NT]	45	23/05/2022	23/05/2022		23/05/2022	23/05/2022
Arsenic	mg/kg	4	Metals-020	[NT]	45	18	13	32	112	83
Cadmium	mg/kg	0.4	Metals-020	[NT]	45	<0.4	<0.4	0	109	79
Chromium	mg/kg	1	Metals-020	[NT]	45	19	20	5	108	83
Copper	mg/kg	1	Metals-020	[NT]	45	36	25	36	107	93
Lead	mg/kg	1	Metals-020	[NT]	45	15	17	12	106	80
Mercury	mg/kg	0.1	Metals-021	[NT]	45	<0.1	<0.1	0	129	125
Nickel	mg/kg	1	Metals-020	[NT]	45	11	12	9	107	75
Zinc	mg/kg	1	Metals-020	[NT]	45	56	46	20	112	72

QUALITY CONTROL: Acid Extractable metals in soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	53	20/05/2022	20/05/2022		[NT]	[NT]
Date analysed	-			[NT]	53	23/05/2022	23/05/2022		[NT]	[NT]
Arsenic	mg/kg	4	Metals-020	[NT]	53	12	12	0	[NT]	[NT]
Cadmium	mg/kg	0.4	Metals-020	[NT]	53	<0.4	<0.4	0	[NT]	[NT]
Chromium	mg/kg	1	Metals-020	[NT]	53	35	31	12	[NT]	[NT]
Copper	mg/kg	1	Metals-020	[NT]	53	22	22	0	[NT]	[NT]
Lead	mg/kg	1	Metals-020	[NT]	53	20	17	16	[NT]	[NT]
Mercury	mg/kg	0.1	Metals-021	[NT]	53	0.1	<0.1	0	[NT]	[NT]
Nickel	mg/kg	1	Metals-020	[NT]	53	18	18	0	[NT]	[NT]
Zinc	mg/kg	1	Metals-020	[NT]	53	29	28	4	[NT]	[NT]

Client Reference: JC22432A, 15 George Rd & 40-52 Hulls Rd Leppington

QUALITY CONTROL: Acid Extractable metals in soil				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	71	20/05/2022	20/05/2022		[NT]	[NT]
Date analysed	-			[NT]	71	23/05/2022	23/05/2022		[NT]	[NT]
Arsenic	mg/kg	4	Metals-020	[NT]	71	7	6	15	[NT]	[NT]
Cadmium	mg/kg	0.4	Metals-020	[NT]	71	<0.4	<0.4	0	[NT]	[NT]
Chromium	mg/kg	1	Metals-020	[NT]	71	17	16	6	[NT]	[NT]
Copper	mg/kg	1	Metals-020	[NT]	71	16	16	0	[NT]	[NT]
Lead	mg/kg	1	Metals-020	[NT]	71	19	19	0	[NT]	[NT]
Mercury	mg/kg	0.1	Metals-021	[NT]	71	<0.1	<0.1	0	[NT]	[NT]
Nickel	mg/kg	1	Metals-020	[NT]	71	7	9	25	[NT]	[NT]
Zinc	mg/kg	1	Metals-020	[NT]	71	30	29	3	[NT]	[NT]

QUALITY CONTROL: Acid Extractable metals in soil				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	81	20/05/2022	20/05/2022		[NT]	[NT]
Date analysed	-			[NT]	81	23/05/2022	23/05/2022		[NT]	[NT]
Arsenic	mg/kg	4	Metals-020	[NT]	81	12	12	0	[NT]	[NT]
Cadmium	mg/kg	0.4	Metals-020	[NT]	81	<0.4	<0.4	0	[NT]	[NT]
Chromium	mg/kg	1	Metals-020	[NT]	81	32	28	13	[NT]	[NT]
Copper	mg/kg	1	Metals-020	[NT]	81	13	16	21	[NT]	[NT]
Lead	mg/kg	1	Metals-020	[NT]	81	22	21	5	[NT]	[NT]
Mercury	mg/kg	0.1	Metals-021	[NT]	81	<0.1	<0.1	0	[NT]	[NT]
Nickel	mg/kg	1	Metals-020	[NT]	81	8	8	0	[NT]	[NT]
Zinc	mg/kg	1	Metals-020	[NT]	81	22	22	0	[NT]	[NT]

QUALITY CONTROL: Acid Extractable metals in soil				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	90	20/05/2022	20/05/2022		[NT]	[NT]
Date analysed	-			[NT]	90	23/05/2022	23/05/2022		[NT]	[NT]
Arsenic	mg/kg	4	Metals-020	[NT]	90	6	6	0	[NT]	[NT]
Cadmium	mg/kg	0.4	Metals-020	[NT]	90	<0.4	<0.4	0	[NT]	[NT]
Chromium	mg/kg	1	Metals-020	[NT]	90	17	18	6	[NT]	[NT]
Copper	mg/kg	1	Metals-020	[NT]	90	21	21	0	[NT]	[NT]
Lead	mg/kg	1	Metals-020	[NT]	90	22	23	4	[NT]	[NT]
Mercury	mg/kg	0.1	Metals-021	[NT]	90	<0.1	<0.1	0	[NT]	[NT]
Nickel	mg/kg	1	Metals-020	[NT]	90	13	13	0	[NT]	[NT]
Zinc	mg/kg	1	Metals-020	[NT]	90	46	49	6	[NT]	[NT]

Client Reference: JC22432A, 15 George Rd & 40-52 Hulls Rd Leppington

QUALITY CONTROL: Acid Extractable metals in soil				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	101	20/05/2022	20/05/2022		[NT]	[NT]
Date analysed	-			[NT]	101	23/05/2022	23/05/2022		[NT]	[NT]
Arsenic	mg/kg	4	Metals-020	[NT]	101	7	7	0	[NT]	[NT]
Cadmium	mg/kg	0.4	Metals-020	[NT]	101	<0.4	<0.4	0	[NT]	[NT]
Chromium	mg/kg	1	Metals-020	[NT]	101	20	29	37	[NT]	[NT]
Copper	mg/kg	1	Metals-020	[NT]	101	23	26	12	[NT]	[NT]
Lead	mg/kg	1	Metals-020	[NT]	101	23	22	4	[NT]	[NT]
Mercury	mg/kg	0.1	Metals-021	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Nickel	mg/kg	1	Metals-020	[NT]	101	14	14	0	[NT]	[NT]
Zinc	mg/kg	1	Metals-020	[NT]	101	55	53	4	[NT]	[NT]

QUALITY CONTROL: Acid Extractable metals in soil				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	108	21/06/2022	21/06/2022		[NT]	[NT]
Date analysed	-			[NT]	108	21/06/2022	21/06/2022		[NT]	[NT]
Arsenic	mg/kg	4	Metals-020	[NT]	108	6	6	0	[NT]	[NT]
Cadmium	mg/kg	0.4	Metals-020	[NT]	108	<0.4	<0.4	0	[NT]	[NT]
Chromium	mg/kg	1	Metals-020	[NT]	108	15	16	6	[NT]	[NT]
Copper	mg/kg	1	Metals-020	[NT]	108	34	34	0	[NT]	[NT]
Lead	mg/kg	1	Metals-020	[NT]	108	20	20	0	[NT]	[NT]
Mercury	mg/kg	0.1	Metals-021	[NT]	108	<0.1	<0.1	0	[NT]	[NT]
Nickel	mg/kg	1	Metals-020	[NT]	108	8	8	0	[NT]	[NT]
Zinc	mg/kg	1	Metals-020	[NT]	108	40	37	8	[NT]	[NT]

Client Reference: JC22432A, 15 George Rd & 40-52 Hulls Rd Leppington

QUALITY CONTROL: Misc Inorg - Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-2	295808-9
Date prepared	-			24/05/2022	3	24/05/2022	24/05/2022		24/05/2022	24/05/2022
Date analysed	-			24/05/2022	3	24/05/2022	24/05/2022		24/05/2022	24/05/2022
pH 1:5 soil:water	pH Units		Inorg-001	[NT]	3	5.3	5.3	0	100	[NT]
Electrical Conductivity 1:5 soil:water	µS/cm	1	Inorg-002	<1	3	230	230	0	100	[NT]
Chloride, Cl 1:5 soil:water	mg/kg	10	Inorg-081	<10	3	150	150	0	86	70
Sulphate, SO4 1:5 soil:water	mg/kg	10	Inorg-081	<10	3	180	180	0	84	#
Resistivity in soil*	ohm m	1	Inorg-002	<1	3	43	44	2	[NT]	[NT]

QUALITY CONTROL: Misc Inorg - Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-3	295808-22
Date prepared	-			[NT]	21	24/05/2022	24/05/2022		24/05/2022	24/05/2022
Date analysed	-			[NT]	21	24/05/2022	24/05/2022		24/05/2022	24/05/2022
pH 1:5 soil:water	pH Units		Inorg-001	[NT]	21	5.2	5.2	0	99	[NT]
Electrical Conductivity 1:5 soil:water	µS/cm	1	Inorg-002	[NT]	21	130	130	0	100	[NT]
Chloride, Cl 1:5 soil:water	mg/kg	10	Inorg-081	[NT]	21	10	10	0	84	#
Sulphate, SO4 1:5 soil:water	mg/kg	10	Inorg-081	[NT]	21	200	200	0	85	#
Resistivity in soil*	ohm m	1	Inorg-002	[NT]	21	75	77	3	[NT]	[NT]

QUALITY CONTROL: Misc Inorg - Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-6	[NT]
Date prepared	-			[NT]	48	24/05/2022	24/05/2022		24/05/2022	[NT]
Date analysed	-			[NT]	48	24/05/2022	24/05/2022		24/05/2022	[NT]
pH 1:5 soil:water	pH Units		Inorg-001	[NT]	48	5.1	5.1	0	100	[NT]
Electrical Conductivity 1:5 soil:water	µS/cm	1	Inorg-002	[NT]	48	180	170	6	100	[NT]
Chloride, Cl 1:5 soil:water	mg/kg	10	Inorg-081	[NT]	48	73	73	0	83	[NT]
Sulphate, SO4 1:5 soil:water	mg/kg	10	Inorg-081	[NT]	48	180	180	0	84	[NT]
Resistivity in soil*	ohm m	1	Inorg-002	[NT]	48	57	58	2	[NT]	[NT]

QUALITY CONTROL: Misc Inorg - Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	56	24/05/2022	24/05/2022		[NT]	[NT]
Date analysed	-			[NT]	56	24/05/2022	24/05/2022		[NT]	[NT]
pH 1:5 soil:water	pH Units		Inorg-001	[NT]	56	5.2	5.1	2	[NT]	[NT]
Electrical Conductivity 1:5 soil:water	µS/cm	1	Inorg-002	[NT]	56	280	270	4	[NT]	[NT]
Chloride, Cl 1:5 soil:water	mg/kg	10	Inorg-081	[NT]	56	150	150	0	[NT]	[NT]
Sulphate, SO4 1:5 soil:water	mg/kg	10	Inorg-081	[NT]	56	260	260	0	[NT]	[NT]
Resistivity in soil*	ohm m	1	Inorg-002	[NT]	56	36	37	3	[NT]	[NT]

Client Reference: JC22432A, 15 George Rd & 40-52 Hulls Rd Leppington

QUALITY CONTROL: Misc Inorg - Soil				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	85	24/05/2022	24/05/2022		[NT]	[NT]
Date analysed	-			[NT]	85	24/05/2022	24/05/2022		[NT]	[NT]
pH 1:5 soil:water	pH Units		Inorg-001	[NT]	85	5.8	5.9	2	[NT]	[NT]
Electrical Conductivity 1:5 soil:water	µS/cm	1	Inorg-002	[NT]	85	75	78	4	[NT]	[NT]

Client Reference: JC22432A, 15 George Rd & 40-52 Hulls Rd Leppington

QUALITY CONTROL: ESP/CEC				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	295808-17
Date prepared	-			25/05/2022	1	25/05/2022	25/05/2022		25/05/2022	25/05/2022
Date analysed	-			25/05/2022	1	25/05/2022	25/05/2022		25/05/2022	25/05/2022
Exchangeable Ca	meq/100g	0.1	Metals-020	<0.1	1	4.2	4.3	2	103	128
Exchangeable K	meq/100g	0.1	Metals-020	<0.1	1	0.2	0.2	0	103	100
Exchangeable Mg	meq/100g	0.1	Metals-020	<0.1	1	3.6	3.5	3	102	101
Exchangeable Na	meq/100g	0.1	Metals-020	<0.1	1	0.2	0.2	0	111	106
ESP	%	1	Metals-020	[NT]	1	3	3	0	[NT]	[NT]

Client Reference: JC22432A, 15 George Rd & 40-52 Hulls Rd Leppington

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	[NT]
Date extracted	-			19/05/2022	[NT]	[NT]	[NT]	[NT]	19/05/2022	[NT]
Date analysed	-			23/05/2022	[NT]	[NT]	[NT]	[NT]	23/05/2022	[NT]
TRH C ₆ - C ₉	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	102	[NT]
TRH C ₆ - C ₁₀	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	102	[NT]
Benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	99	[NT]
Toluene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	99	[NT]
Ethylbenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	104	[NT]
m+p-xylene	µg/L	2	Org-023	<2	[NT]	[NT]	[NT]	[NT]	104	[NT]
o-xylene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	101	[NT]
Naphthalene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-023	96	[NT]	[NT]	[NT]	[NT]	100	[NT]
Surrogate toluene-d8	%		Org-023	100	[NT]	[NT]	[NT]	[NT]	103	[NT]
Surrogate 4-BFB	%		Org-023	100	[NT]	[NT]	[NT]	[NT]	98	[NT]

Client Reference: JC22432A, 15 George Rd & 40-52 Hulls Rd Leppington

QUALITY CONTROL: svTRH (C10-C40) in Water						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	[NT]
Date extracted	-			20/05/2022	117	20/05/2022	20/05/2022		20/05/2022	[NT]
Date analysed	-			21/05/2022	117	21/05/2022	21/05/2022		21/05/2022	[NT]
TRH C ₁₀ - C ₁₄	µg/L	50	Org-020	<50	117	<50	<50	0	86	[NT]
TRH C ₁₅ - C ₂₈	µg/L	100	Org-020	<100	117	120	120	0	85	[NT]
TRH C ₂₉ - C ₃₆	µg/L	100	Org-020	<100	117	<100	<100	0	94	[NT]
TRH >C ₁₀ - C ₁₆	µg/L	50	Org-020	<50	117	<50	<50	0	86	[NT]
TRH >C ₁₆ - C ₃₄	µg/L	100	Org-020	<100	117	180	190	5	85	[NT]
TRH >C ₃₄ - C ₄₀	µg/L	100	Org-020	<100	117	<100	<100	0	94	[NT]
Surrogate o-Terphenyl	%		Org-020	86	117	89	92	3	78	[NT]

Client Reference: JC22432A, 15 George Rd & 40-52 Hulls Rd Leppington

QUALITY CONTROL: PAHs in Water						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	295808-119
Date extracted	-			20/05/2022	117	20/05/2022	20/05/2022		20/05/2022	20/05/2022
Date analysed	-			21/05/2022	117	21/05/2022	21/05/2022		21/05/2022	21/05/2022
Naphthalene	µg/L	1	Org-022/025	<1	117	<1	<1	0	93	88
Acenaphthylene	µg/L	1	Org-022/025	<1	117	<1	<1	0	[NT]	[NT]
Acenaphthene	µg/L	1	Org-022/025	<1	117	<1	<1	0	93	85
Fluorene	µg/L	1	Org-022/025	<1	117	<1	<1	0	93	88
Phenanthrene	µg/L	1	Org-022/025	<1	117	<1	<1	0	96	90
Anthracene	µg/L	1	Org-022/025	<1	117	<1	<1	0	[NT]	[NT]
Fluoranthene	µg/L	1	Org-022/025	<1	117	<1	<1	0	98	88
Pyrene	µg/L	1	Org-022/025	<1	117	<1	<1	0	105	95
Benzo(a)anthracene	µg/L	1	Org-022/025	<1	117	<1	<1	0	[NT]	[NT]
Chrysene	µg/L	1	Org-022/025	<1	117	<1	<1	0	103	95
Benzo(b,j+k)fluoranthene	µg/L	2	Org-022/025	<2	117	<2	<2	0	[NT]	[NT]
Benzo(a)pyrene	µg/L	1	Org-022/025	<1	117	<1	<1	0	94	90
Indeno(1,2,3-c,d)pyrene	µg/L	1	Org-022/025	<1	117	<1	<1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	µg/L	1	Org-022/025	<1	117	<1	<1	0	[NT]	[NT]
Benzo(g,h,i)perylene	µg/L	1	Org-022/025	<1	117	<1	<1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	90	117	91	100	9	85	80

Client Reference: JC22432A, 15 George Rd & 40-52 Hulls Rd Leppington

QUALITY CONTROL: Organochlorine Pesticides in Water						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	295808-119
Date extracted	-			20/05/2022	117	20/05/2022	20/05/2022		20/05/2022	20/05/2022
Date analysed	-			21/05/2022	117	21/05/2022	21/05/2022		21/05/2022	21/05/2022
alpha-BHC	µg/L	0.2	Org-022/025	<0.2	117	<0.2	<0.2	0	92	86
HCB	µg/L	0.2	Org-022/025	<0.2	117	<0.2	<0.2	0	[NT]	[NT]
beta-BHC	µg/L	0.2	Org-022/025	<0.2	117	<0.2	<0.2	0	92	89
gamma-BHC	µg/L	0.2	Org-022/025	<0.2	117	<0.2	<0.2	0	[NT]	[NT]
Heptachlor	µg/L	0.2	Org-022/025	<0.2	117	<0.2	<0.2	0	91	83
delta-BHC	µg/L	0.2	Org-022/025	<0.2	117	<0.2	<0.2	0	[NT]	[NT]
Aldrin	µg/L	0.2	Org-022/025	<0.2	117	<0.2	<0.2	0	97	91
Heptachlor Epoxide	µg/L	0.2	Org-022/025	<0.2	117	<0.2	<0.2	0	98	88
gamma-Chlordane	µg/L	0.2	Org-022/025	<0.2	117	<0.2	<0.2	0	[NT]	[NT]
alpha-Chlordane	µg/L	0.2	Org-022/025	<0.2	117	<0.2	<0.2	0	[NT]	[NT]
Endosulfan I	µg/L	0.2	Org-022/025	<0.2	117	<0.2	<0.2	0	[NT]	[NT]
pp-DDE	µg/L	0.2	Org-022/025	<0.2	117	<0.2	<0.2	0	94	88
Dieldrin	µg/L	0.2	Org-022/025	<0.2	117	<0.2	<0.2	0	98	90
Endrin	µg/L	0.2	Org-022/025	<0.2	117	<0.2	<0.2	0	96	92
Endosulfan II	µg/L	0.2	Org-022/025	<0.2	117	<0.2	<0.2	0	[NT]	[NT]
pp-DDD	µg/L	0.2	Org-022/025	<0.2	117	<0.2	<0.2	0	96	88
Endrin Aldehyde	µg/L	0.2	Org-022/025	<0.2	117	<0.2	<0.2	0	[NT]	[NT]
pp-DDT	µg/L	0.2	Org-022/025	<0.2	117	<0.2	<0.2	0	[NT]	[NT]
Endosulfan Sulphate	µg/L	0.2	Org-022/025	<0.2	117	<0.2	<0.2	0	92	88
Methoxychlor	µg/L	0.2	Org-022/025	<0.2	117	<0.2	<0.2	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	89	117	89	99	11	86	79

Client Reference: JC22432A, 15 George Rd & 40-52 Hulls Rd Leppington

QUALITY CONTROL: PCBs in Water						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	295808-119
Date extracted	-			20/05/2022	117	20/05/2022	20/05/2022		20/05/2022	20/05/2022
Date analysed	-			21/05/2022	117	21/05/2022	21/05/2022		21/05/2022	21/05/2022
Aroclor 1016	µg/L	2	Org-021	<2	117	<2	<2	0	[NT]	[NT]
Aroclor 1221	µg/L	2	Org-021	<2	117	<2	<2	0	[NT]	[NT]
Aroclor 1232	µg/L	2	Org-021	<2	117	<2	<2	0	[NT]	[NT]
Aroclor 1242	µg/L	2	Org-021	<2	117	<2	<2	0	[NT]	[NT]
Aroclor 1248	µg/L	2	Org-021	<2	117	<2	<2	0	[NT]	[NT]
Aroclor 1254	µg/L	2	Org-021	<2	117	<2	<2	0	97	80
Aroclor 1260	µg/L	2	Org-021	<2	117	<2	<2	0	[NT]	[NT]
Surrogate TCMX	%		Org-021	89	117	89	99	11	86	79

Client Reference: JC22432A, 15 George Rd & 40-52 Hulls Rd Leppington

QUALITY CONTROL: HM in water - total				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	295808-117
Date prepared	-			24/05/2022	114	24/05/2022	24/05/2022		24/05/2022	24/05/2022
Date analysed	-			24/05/2022	114	24/05/2022	24/05/2022		24/05/2022	24/05/2022
Arsenic-Total	µg/L	1	Metals-022	<1	114	<1	[NT]		96	90
Cadmium-Total	µg/L	0.1	Metals-022	<0.1	114	<0.1	[NT]		97	99
Chromium-Total	µg/L	1	Metals-022	<1	114	<1	[NT]		99	93
Copper-Total	µg/L	1	Metals-022	<1	114	<1	[NT]		98	94
Lead-Total	µg/L	1	Metals-022	<1	114	<1	[NT]		99	96
Mercury-Total	µg/L	0.05	Metals-021	<0.05	114	<0.05	<0.05	0	115	[NT]
Nickel-Total	µg/L	1	Metals-022	<1	114	<1	[NT]		100	93
Zinc-Total	µg/L	1	Metals-022	<1	114	<1	[NT]		87	84

QUALITY CONTROL: HM in water - total				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	116	24/05/2022	24/05/2022		[NT]	[NT]
Date analysed	-			[NT]	116	24/05/2022	24/05/2022		[NT]	[NT]
Arsenic-Total	µg/L	1	Metals-022	[NT]	116	4	4	0	[NT]	[NT]
Cadmium-Total	µg/L	0.1	Metals-022	[NT]	116	0.2	0.1	67	[NT]	[NT]
Chromium-Total	µg/L	1	Metals-022	[NT]	116	5	5	0	[NT]	[NT]
Copper-Total	µg/L	1	Metals-022	[NT]	116	23	22	4	[NT]	[NT]
Lead-Total	µg/L	1	Metals-022	[NT]	116	13	12	8	[NT]	[NT]
Mercury-Total	µg/L	0.05	Metals-021	[NT]	116	<0.05	[NT]		[NT]	[NT]
Nickel-Total	µg/L	1	Metals-022	[NT]	116	7	7	0	[NT]	[NT]
Zinc-Total	µg/L	1	Metals-022	[NT]	116	100	98	2	[NT]	[NT]

Client Reference: JC22432A, 15 George Rd & 40-52 Hulls Rd Leppington

QUALITY CONTROL: Metals in Waters - Acid extractable					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date prepared	-			25/05/2022	[NT]	[NT]	[NT]	[NT]	25/05/2022	[NT]
Date analysed	-			25/05/2022	[NT]	[NT]	[NT]	[NT]	25/05/2022	[NT]
Phosphorus - Total	mg/L	0.05	Metals-020	<0.05	[NT]	[NT]	[NT]	[NT]	93	[NT]

Client Reference: JC22432A, 15 George Rd & 40-52 Hulls Rd Leppington

QUALITY CONTROL: Cations in water Dissolved						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date digested	-			20/05/2022	116	20/05/2022	20/05/2022		20/05/2022	[NT]
Date analysed	-			20/05/2022	116	20/05/2022	20/05/2022		20/05/2022	[NT]
Calcium - Dissolved	mg/L	0.5	Metals-020	<0.5	116	19	18	5	88	[NT]
Magnesium - Dissolved	mg/L	0.5	Metals-020	<0.5	116	7.4	7.3	1	93	[NT]
Hardness	mgCaCO ₃ /L	3	Metals-020	[NT]	116	77	76	1	[NT]	[NT]

Client Reference: JC22432A, 15 George Rd & 40-52 Hulls Rd Leppington

QUALITY CONTROL: Miscellaneous Inorganics					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date prepared	-			18/05/2022	116	18/05/2022	18/05/2022		18/05/2022	[NT]
Date analysed	-			18/05/2022	116	18/05/2022	18/05/2022		18/05/2022	[NT]
pH	pH Units		Inorg-001	[NT]	116	6.9	7.0	1	99	[NT]
Electrical Conductivity	µS/cm	1	Inorg-002	<1	116	310	310	0	95	[NT]
Chloride, Cl	mg/L	1	Inorg-081	<1	116	21	21	0	108	[NT]
Sulphate, SO4	mg/L	1	Inorg-081	<1	116	8	7	13	110	[NT]
Turbidity	NTU	0.1	Inorg-022	<0.1	116	600	590	2	95	[NT]
Total Dissolved Solids (grav)	mg/L	5	Inorg-018	<5	116	290	[NT]		118	[NT]
Total Suspended Solids	mg/L	5	Inorg-019	<5	116	1500	1500	0	98	[NT]
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	<0.1	116	1.5	[NT]		83	[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.	
The recommended maximums for analytes in urine are taken from "2018 TLVs and BEIs", as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.	
Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2	

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 (not SPOCAS); 60-140% for organics/SPOCAS (+/-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.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Report Comments

TRH Soil C10-C40 NEPM - # Percent recovery for the surrogate is not possible to report as the high concentration of analytes in sample 295808-47 have caused interference.

MISC_INORG_DRY:# Percent recovery is not applicable due to the high concentration of the analyte/s in the sample/s. However an acceptable recovery was obtained for the LCS.

Asbestos: A portion of the supplied sample was sub-sampled for asbestos according to ASB-001 asbestos subsampling procedure. We cannot guarantee that this sub-sample is indicative of the entire sample. Envirolab/MPL recommends supplying 40-60g or 500ml of sample in its own container.

Note: Samples were sub-sampled from jars provided by the client.

Enterococci analysed by Sonic Food & Water Testing. Report No. W2211531

Faecal Coliform & E.Coli analysed by Sonic Food & Water Testing. Report No. W2211530

Acid Extractable Metals in Soil:

-The laboratory RPD acceptance criteria has been exceeded for 295808-32 for Cu. Therefore a triplicate result has been issued as laboratory sample number 295808-120.

- # 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.

Dissolved Metals: no filtered, preserved sample was received, therefore the unpreserved sample was filtered through 0.45µm filter at the lab.

Note: there is a possibility some elements may be underestimated.

ESP: Where the exchangeable Sodium is less than the PQL and CEC is less than 10meq/100g, the ESP cannot be calculated.

APPENDIX C
Explanatory Notes



EXPLANATORY NOTES

Introduction

These notes have been provided to amplify the geotechnical report with regard to investigation procedures, classification methods and certain matters relating to the Discussion and Comments sections. Not all notes are necessarily relevant to all reports.

Geotechnical reports are based on information gained from finite sub-surface probing, excavation, boring, sampling or other means of investigation, supplemented by experience and knowledge of local geology. For this reason they must be regarded as interpretative rather than factual documents, limited to some extent by the scope of information on which they rely.

Description and Classification Methods

The methods the description and classification of soils and rocks used in this report are based on Australian standard 1726, the SSA Site investigation Code, in general descriptions cover the following properties - strength or density, colour, structure, soil or rock type and inclusions. Identification and classification of soil and rock involves to a large extent, judgement within the acceptable level commonly adopted by current geotechnical practices.

Soil types are described according to the predominating particle size, qualified by the grading or other particles present (eg sandy clay) on the following bases:

Table with 2 columns: Soil Classification, Particle Size. Rows include Clay, Silt, Sand, Gravel with corresponding particle size ranges.

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Cohesive soils are classified on the basis of strength, either by laboratory testing or engineering examination. The strength terms are defined as follows:

Table with 2 columns: Classification, Undrained Shear Strength kPa. Rows include Very Soft, Soft, Firm, Stiff, Very Stiff, Hard with corresponding strength values.

Non-cohesive soils are classified on the basis of relative density, generally from the results of standard penetration tests (SPT) or Dutch cone penetrometer test (CPT), as below:

Table with 3 columns: Relative Dense, SPT 'N' Value (blows/300mm), CPT Cone Value (qc-Mpa). Rows include Very Loose, Loose, Medium Dense, Dense, Very Dense with corresponding values.

Rock types are classified by their geological names, together with descriptive terms on degrees of weathering strength, defects and other minor components. Where relevant, further information

regarding rock classification, is given on the following sheet.

Sampling

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

Disturbed samples taken during drilling provided information on plasticity, grained size, colour, type, moisture content, 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 (normally know as U50) into the soil and withdrawing 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. Details of the type and method of sampling are given in the report.

Field Investigation Methods

The following is a brief summary of investigation methods currently carried out by this company and comments on their use and application.

Hand Auger Drilling

The borehole is advanced by manually operated equipment. The diameter of the borehole ranges from 50mm to 100mm. Penetration depth of hand augered boreholes may be limited by premature refusal on a variety of materials, such as hard clay, gravels or ironstone.

Test Pits

These are excavated with a tractor-mounted backhoe or a tracked excavator, allowing close examination of the insitu soils if it is safe to descend into the pit. The depth of penetration is limited to about 3.0m for a backhoe and up to 6.0m for an excavator. A potential disadvantage is the disturbance caused by the excavation.

Care must be taken if construction is to be carried out near, or within the test pit locations, to either adequately recompact the backfill during construction, or to design the structure or accommodate the poorly compacted backfill.

Large Diameter Auger (eg Pengo)

The hole is advanced by a rotating plate or short spiral auger generally 300mm or larger in diameter. The cuttings are returned to the surface at intervals (generally of not more than 05m) 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 sampling.

Continuous Spiral Flight Augers

The hole is advanced by using 90mm - 115mm diameter continuous spiral flight augers, which are withdrawn at intervals to allow sampling or insitu testing. This is a relatively economical means of drilling in clays and in sands above the water table. Samples are returned to the surface, or may be collected after withdrawal of the augers flights, but they are very disturbed and may be highly mixed with soil of other stratum.

Information from the drilling (as distinct from specific sampling by SPT or undisturbed samples) is of relatively low reliability due to remoulding, mixing or softening of samples by ground water, resulting in uncertainties of the original sample depth.

Continuous Spiral Flight Augers (continued)

The spiral augers are usually advanced by using a V - bit through the soil profile refusal, followed by Tungsten Carbide (TC) bit, to penetrate into bedrock. The quality and continuity of the bedrock may be assessed by examination of the recovered rock fragments and through observation of the drilling penetration resistance.

Non - core Rotary Drilling (Wash Boring)

The hole is advanced by a rotary bit, with water being pumped down the drill rod and returned up the annulus, carrying the cuttings, together with some information from the "feel" and rate of penetration.

Rotary Mud Stabilised Drilling

This is similar to rotary drilling, but uses drilling mud as a circulating fluid, which may consist of a range of products, from bentonite to polymers such as Revert or Biogel. The mud tends to mask the cuttings and reliable identification is again only possible from separate intact sampling (eg SPT and U_{50} samples).

Continuous Core Drilling

A continuous core sample is obtained using a diamond tipped core barrel. Providing full core recovery is achieved (which is not always possible in very weak rock and granular soils) this technique provides a very reliable (but relatively expensive) method of investigation. In rocks an NMLC triple tube core barrel which gives a core of about 50mm diameter, is usually used with water flush.

Portable Proline Drilling

This is manually operated equipment and is only used in sites which require bedrock core sampling and there is restricted site access to truck mounted drill rigs. The boreholes are usually advanced initially using a tricone roller bit and water circulation to penetrate the upper soil profile. In some instances a hand auger may be used to penetrate the soil profile. Subsequent drilling into bedrock involves the use of NMLC triple tube equipment, using water as a lubricant.

Standard Penetration Tests

Standard penetration tests are used mainly in non-cohesive soils, but occasionally also in cohesive soils, as a means of determining density or strength and of obtaining a relatively undisturbed sample. The test procedure is described in Australian Standard 1289 "Methods of testing Soils for Engineering Purpose"- Test F31.

The test is carried out in a borehole by driving a 50mm diameter split sample tube under the impact of a 63Kg hammer with a free fall of 769mm. It is normal for the tube to be driven in three successive 150mm increments and the "N" value is taken as the number of blows for the last 300mm. In dense sands, very hard clays or weak rocks, the full 450mm penetration may not be practicable and the test is discontinued.

The test results are reported in the following form:

- In a case where full penetration is obtained with successive blows counts for each 150mm of, say 4, 6, and 7 blows.

$$\begin{array}{l} \text{as 4, 6, 7} \\ N = 13 \end{array}$$

- In a case where the test is discontinued short of full penetration, say after 15 blows for the first 150mm and 30 blows for the next 40mm.

$$\text{as 15,30/40mm}$$

The results of the tests can be related empirically to the engineering properties of the soil. Occasionally the test

methods is used to obtain samples in 50mm diameter thin walled samples tubes in clays. In these circumstances, the best results are shown on the bore logs in brackets.

Dynamic Cone Penetration Test

A modification to the SPT test is where the same driving system is used with a solid 60° tipped steel cone of the same diameter as the SPT hollow sampler. The cone can be continuously driven into the borehole and is normally used in areas with thick layers of soft clays or loose sand. The results of this test are shown as 'N_c' on the bore logs, together with the number of blows per 150mm penetration.

Cone Penetrometer Testing and Interpretation

Cone penetrometer testing (sometimes referred to as Dutch Cone-CPT) described in this report, has been carried out using an electrical friction cone penetrometer and the test is described in Australian Standard 1289 test F5.1.

In the test, a 35mm diameter rod with cone tipped end is pushed continuously into the soil, the reaction being provided by a specially designed truck or rig, which is fitted with a hydraulic ram system. Measurements are made of the end bearing resistance on the cone and the friction resistance on a separate 130mm long sleeve, immediately behind the cone. Transducer in the tip of the assembly are connected by electrical wires passing through the centre of the push rods to an amplifier and recorder unit mounted on the control truck.

As penetration occurs (at a rate of approximately 20mm per second) the information is output on continuous chart recorders. The plotted results in this report have been traced from the original records. The information provided on the charts comprises:

- Cone resistance - the actual end bearing force divided by the cross sectional area of the cone, expressed in Mpa.
- Sleeve friction - the frictional force on the sleeve divided by the surface area, expressed in kPa.
- Friction ratio - the ratio of sleeve friction to cone resistance, expressed in percentage.

There are two scales available for measurement of cone resistance. The lower "A" scale (0-5Mpa) is used in very soft soils where increased sensitivity is required and is shown in the graphs as a dotted line. The main "B" scale (0-50Mpa) is less sensitive and is shown as a full line.

The ratios of the sleeve resistance to cone resistance will vary with the type of soil encountered, with higher relative frictions in clays than in sands. Friction ratios of 1% to 2% are commonly encountered in sands and very soft clays, rising to 4% to 10% in stiff clays.

In sands, the relationship between cone resistance and SPT value is commonly in the range:

$$q_c \text{ (Mpa)} = (0.4 \text{ to } 0.6) N \text{ (blows per 300mm)}$$

In clays the relationship between undrained shear strength and cone resistance is commonly in the range:

$$q_c = (12 \text{ to } 18) C_u$$

Interpretation of CPT values can also be made to allow estimate of modulus or compressibility values to allow calculation of foundation settlements. Inferred stratification, as shown on the attached report, is assessed from the cone and friction traces, from experience and information from nearby boreholes etc.



Cone Penetrometer Testing and Interpretation continued

This information is presented for general guidance, but must be regarded as being to some extent interpretive. The test method provides a continuous profile of engineering properties and where precise information or soil classification is required, direct drilling and sampling may be preferable.

Portable Dynamic Cone Penetrometer (AS1289)

Portable dynamic cone penetrometer tests are carried out by driving a rod in to the ground with a falling weight hammer and measuring the blows per successive 100mm increments of penetration.

There are two similar tests, Cone Penetrometer (commonly known as Scala Penetrometer) and the Perth Sand Penetrometer. Scala Penetrometer is commonly adopted by this company and consists of a 16mm rod with a 20mm diameter cone end, driven with a 9kg hammer, dropping 510mm (AS 1289 Test F3.2).

Laboratory Testing

Laboratory testing is carried out in accordance with Australian Standard 1289 "Methods of Testing Soil for Engineering Purposes". Details of the test procedures are given on the individual report forms.

Engineering Logs

The engineering logs presented herein are an engineering and/or geological interpretation of the sub-surface conditions and their reliability will depend to some extent on frequency of sampling and the method of drilling. Ideally, continuous undisturbed sampling or core drilling will provide the most reliable assessment, however, this is not always practicable or possible to justify economically. As it is, the boreholes represent only a small sample of the total sub-surface profile. Interpretation of the information and its application to design and construction should take into account the spacing of boreholes, frequency of sampling and the possibility of other than "straight line" variations between the boreholes.

Ground water

Where ground water levels are measured in boreholes, there are several potential problems:

- In low permeability soils, ground water although present, may enter the hole slowly, or perhaps not at all, during the investigation period.
- A localised perched water table may lead to a erroneous indication of the true water table.
- Water table levels will vary from time to time, due to the seasons or recent weather changes. They may not be the same at the time of construction as indicated in the report.
- The use of water or mud as a drilling fluid will mask any ground water inflow. Water has to be blown out of the hole and drilling mud must be washed out of the hole if any water observations are to be made.

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

Engineering Reports

Engineering reports are prepared by qualified personnel and are based on the information obtained and on current engineering standards of interpretation and analysis. Where the report has been prepared for a specific design proposal is changed, say to a twenty storey building. If this occurs, the company will be pleased to review the report and sufficiency of the investigation work.

Every care is taken with the report as it relates to interpretation of sub-surface conditions, discussions of geotechnical aspects and recommendations or suggestions for design and construction. However, the company cannot always anticipate or assume responsibility for:

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

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

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, the company request immediate notification. Most problems are much more readily resolved when conditions are exposed than at some later stage, well after the event.

Reproduction of Information for Contractual Purposes

Attention is drawn to the document "Guidelines for the Provision of Geotechnical Information trader Documents", published by the Institute of Engineers Australia. Where information obtained for this investigation is provided for tender 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. The Company would be pleased to assist in this regard and/or make additional copies of the report available for contract purpose, at a nominal charge.

Site Inspection

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

Review of Design

Where major civil or structural developments are proposed, or where only a limited investigation has been completed, or where the geotechnical conditions are complex, it is prudent to have the design reviewed by a Senior Geotechnical Engineer.



Graphic Symbols For Soil and Rock

SOIL		ROCK	
	Fill		Shale
	Topsoil		Sandstone
	Gravel (GW, GP)		Siltstone, Mudstone, Claystone
	Sand (SP, SW)		Granite, Gabbro
	Silt (ML, MH)		Dolerite, Diorite
	Clay (CL, CH)		Basalt, Andesite
	Clayey Gravel (GC)		Other Materials
	Silty Sand (SM)		Concrete
	Clayey Sand (SC)		Bitumen, Asphaltic Concrete, Coal
	Sandy Silt (ML)		Ironstone Gravel
	Gravelly Clay (CL, CH)		Organic Material
	Silty Clay (CL, CH)		
	Sandy Clay (CL, CH)		
	Peat or Organic Soil		



1 9am 21st June (Winter)
#LayID Scale 1:500

1 10am 21st June (Winter)
#LayID Scale 1:500



1 11am 21st June (Winter)
#LayID Scale 1:500

1 12pm 21st June (Winter)
#LayID Scale 1:500

Building Envelope Plans
40-52 Hulls Road and 15 Dwyer Road Leppington

Total number of lots 4

Legend

Solar access
No solar access Percentage of lots with: > 3 hrs 100%

Stage No.	Lot No.	Solar Access Compliance Y/N	9 am	10 am	11 am	12 pm	1 pm	2 pm	3 pm	TOTAL
	204	Y								3
	205	Y								3
	206	Y								3
	207	Y								3

Lots PPOS listed above are solar compliant with Camden Growth Centre Precinct DCP 15 March 2023
Specifically Part 4 Table 4-4

Legend

- Site Cover Area 60% max. of site area
- (Hatch denotes First Storey Area 35-40% max. site area)
- Easement
- Common Access and Visitors Parking
- Landscaping Area min.25% of site area
- Garage



1 BEPs
#LayID Scale 1:200