

Preliminary Environmental Site Investigation

130 Dunns Crossing Road

Rolleston

Submitted to:

Hughes Developments Limited
21 Worcester Boulevard
Christchurch Central
Christchurch 8011

#### **ENGEO Limited**

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#### **ENGEO Document Control:**

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### 1 Introduction

ENGEO Limited was requested by Hughes Developments Limited (Hughes) to undertake a Preliminary Environmental Site Investigation (PSI) of the 4 ha site at 130 Dunns Crossing Road, Rolleston (herein referred to as 'the site'). The purpose of the assessment was to assess the property's suitability for consent for a change of land use and subdivision under the Resource Management (*National Environmental Standard for Assessing and Managing Contaminants in Soil to Protect Human Health)* Regulations 2011 (NES) to satisfy the requirements of Selwyn District Council (SDC).

Figure 1 indicates the location of the property. This PSI was undertaken in accordance with the Ministry for the Environment (MfE) 2001, *Guidelines for Reporting on Contaminated Sites*.

### 1.1 Objectives of the Assessment

The objective of this PSI was to evaluate and identify conditions indicative of releases and threatened releases of hazardous substances on, at, in or to the subject properties and report on the potential risk posed to future site users.

### 1.2 Approach

To satisfy the objectives, ENGEO sought to gather information regarding the following:

- Current and past property uses and occupancies;
- Current and past uses of hazardous substances;
- Waste management and disposal activities that could have caused a release or threatened release of hazardous substances;
- Current and past corrective actions and response activities to address past and on-going releases of hazardous substances at the subject property; and
- Properties adjoining or located near the subject property that have environmental conditions
  that could have resulted in conditions indicative of releases or threatened releases of hazardous
  substances to the subject property.

### 1.2.1 Review of Site Information

During this assessment, a number of sources of information were contacted for information relating to the site regarding its past and present uses. This included contacting Canterbury Regional Council (CRC) to determine if there were any records on the Listed Land Use Register (LLUR) and reviewing records held by Selwyn District Council (SDC) including the property file and dangerous goods file (if available). A review of a number of historical and current aerial photographs was also undertaken using images from Canterbury Maps. The certificate of titles for the site were also attained by LINZ and reviewed for any information relating to the past and current use of the site.

### 1.2.2 Site Inspection

A site walkover was undertaken on 25 May 2021 by Natalie Flatman. Anecdotal evidence was collected through a discussion with the current site owner on 25 May 2021.



### 2 Site Description and Setting

Site information is summarised in Table 1.

**Table 1: Site Information** 

Item	Description
Location	130 Dunns Crossing Road, Rolleston, Canterbury
Legal Description	LOT 1 DP 70352 BLK III LEESTON SD
Property Owner	Under contract to Hughes Developments Limited
<b>Current Land Use</b>	Mixed use – residential / agricultural grazing / crop growing (bailage)
Proposed Land Use	Residential 10% produce land use
Site Area	4 ha
Territorial Authority	Selwyn District Council

The site setting is summarised in Table 2 on the following page.



Table 2: Site Setting

Item	Description
Topography	The site is predominantly flat, with an approximate elevation of 40 m above sea level.
Local Setting	The surrounding area is predominantly agricultural with some residential housing.
Nearest Surface Water & Use	There are no surface water bodies within 250 m of the site.
	GNS maps the site as Late Quaternary alluvium and colluvium.
Geology	Unconsolidated to poorly consolidated mud, sand, gravel and peat of alluvial and colluvial origin.
Hydrogeology	The site is overlying an unconfined / semi-confined aquifer, with groundwater flowing in a southeast direction.
	There is one active groundwater abstraction located on the site:
	M36/5038: Kajens Trading Development Limited, active well on-site for domestic supply.
Groundwater	There are two active groundwater abstractions within 100 m of the site:
Abstractions	M36/5041: Kajens Trading Development Limited, active well on-site for domestic supply.
	M36/5040: Kajens Trading Development Limited, active well on-site for domestic supply.
Discharge Consents	There are no active discharge consents located on the site or within 100 m of the site.

### 3 Site History

A number of sources were used to investigate the past uses of the site. The findings of these information searches have been summarised in this section.



### 3.1 Discussions with Site Occupier

A discussion was held during the site walkover with the site occupier who has owned the site since 1997 and has been used for agricultural grazing and storage of equipment since 2003 when the garages were built on the site. The occupier said that the area of bare land towards the north of the southern paddock was where a burn pile was previously located. The owner stated that only green waste from tree trimmings were burnt. The occupier also, when asked, stated that the only sprays used on the fruit trees to the southwest of the site were copper sulphate and a product called Move-It which was used to remove lichen from the trees. The safety data sheet (SDS) for Move-It indicates that it 100% biodegradable and not classified as a dangerous good under NZS 5433:2007 Transport of Dangerous Goods on Land. Based on available information, the product is not classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001. The site occupiers also mentioned that the four shipping storage containers on-site are being used to store scaffolding and household furniture.

### 3.2 Selwyn District Council Property File Review

The property file for the site held by Selwyn District Council was reviewed on 25 May 2021 as part of this PSI. The below information was gathered relating to the site:

- Building consent 26 November 2003 Storage building 54 m<sup>2</sup>
- Building consent 18 November 2004 Farm building 81 m<sup>2</sup>

### 3.3 Listed Land Use Register

Canterbury Regional Council (CRC) maintains a Listed Land Use Register (LLUR) of past and current land uses within the Canterbury Region. The LLUR documents properties on which potentially hazardous activities have been undertaken. The potentially hazardous activities are defined on the Hazardous Activities and Industries List (HAIL). The listing of a property on the LLUR triggers the requirement for a contaminated land assessment prior to development.

The CRC LLUR was requested on 17 May 2021 for the site and is appended in Appendix 1. No areas of concern were identified on the CRC LLUR for the site.

### 3.4 Certificate of Titles

A review of the certificate of title was completed with no information related to potential contaminating activities identified. The Certificates of Title are attached in Appendix 2.

### 3.5 Historical Aerial Photograph Review

Aerial photographs obtained from Canterbury Maps from 1940 to 2018. The relevant visible features are summarised in Table 3.



**Table 3: Historical Aerial Photograph Review** 

Date	Source	Description
1940-1944	Canterbury Maps	The site is undeveloped and appears to be a part of a larger paddock area which is likely grassed.  The area to the north, east and south of the site are undeveloped and appear to be used for agricultural grazing. The site across Dunns Crossing Road to the west is a large forestry plantation.
1960-1965	Canterbury Maps	The site is unchanged from the previous aerial photograph.  The surrounding area is mainly unchanged, the planation across  Dunns Crossing Road is sparser.
1970-1974	Canterbury Maps	Animals (presumably sheep) are visible on the site which is still a part of a larger paddock with the site at 138 Dunns Crossing Road.  The surrounding area is mainly unchanged from the previous aerial photograph.
1980-1984	Canterbury Maps	The site and surrounding area are mainly unchanged from the previous aerial photograph.
1990-1994	Canterbury Maps	The site and surrounding area are mainly unchanged from the previous aerial photograph.
2000-2004	Canterbury Maps	The site is mainly unchanged from the previous aerial photograph.  Dwellings have been constructed at 138 and 3/144 Dunns Crossing Road and a horse track is present on the site at 108 Dunns Crossing Road.
2010-2015	Canterbury Maps	Two structures are present along the north-western boundary line of the site. Planting is present around these two structures. The site appears to have been recently cropped with hay bales present across the site. A line of vegetation is present towards the north of the site which splits the site into two paddocks.  A dressage area is present on the site at 138 Dunns Crossing Road to the northwest of the site. An orchard is present at 3/144 Dunns Road to the northeast of the site. The horse track is still present at 108 Dunns Crossing to the southeast of the site.
2018	Canterbury Maps	Storage containers are present to the northeast of the on-site structures. An area of planting has been developed to the south of the on-site structures. The remainder of the site is grassed and appears to be used for grazing.  The surrounding sites are mainly unchanged from the previous aerial photograph.



### 4 Current Site Conditions

A site inspection was undertaken on 25 May 2021 by Natalie Flatman of ENGEO. The information gathered is summarised in Table 4. Photographs taken during the site inspection are included in Appendix 3.

**Table 4: Site Conditions** 

Site Condition	Description
Visible signs of contamination	No visible signs of contamination were noted during the time of the walkover.
Surface water appearance	No surface water was observed during the time of the site walkover.
Current surrounding land use	The land use in all directions around the site is a mix of agricultural grazing and residential. A small orchard was present at 3/144 Dunns Crossing Road which has been previously investigated by ENGEO.
Local sensitive environments	There were no identified local sensitive environments within 200 m of the site.
Visible signs of plant stress	No visible signs of plant stress noted, with the grass appearing to be in good condition at the time of the walkover.
Ground cover	The site was grassed during the time of the visit.
Buildings present	Storage Garage – Concrete foundation and open earth floor, timber framing, metal cladding and roof.  Garage – Concrete foundation, metal cladding and roof.  Four metal shipping storage containers – used to store scaffolding and household furniture.
Additional Information	A small area of bare earth was observed towards the north of the southern paddock on-site. Small amounts of charcoal were present. This area was anecdotally used for greenwaste burn off. No inorganic materials were identified within the surface soils of this area.  A small area of planting of fruit trees was present in the south-western corner of the site. The fruit trees were being used for domestic growing only.



### 5 Potential HAIL Activities

Activities included on the HAIL trigger the requirement for a contaminated land investigation prior to development. During the site walkover it was concluded that no activities undertaken at the site would be included on the HAIL. Therefore, it is highly unlikely there is a potential for soils at the site to have been adversely impacted. There has been small scale storage and use of weed killer on the site but the amount stored is considered highly unlikely to have adversely impacted the soils to an extent which could harm human health.

### 6 Conceptual Site Model

A conceptual site model has been developed to assess the potential exposure pathways present at the site. A contamination conceptual site model consists of four primary components. For a contaminant to present a risk to human health or an environmental receptor, all four components are required to be present and connected. The four components of a conceptual site model are:

- Source of contamination;
- Pathway(s) in which contamination could potentially mobilise along (e.g. vapour or groundwater migration);
- Sensitive receptor(s) which may be exposed to the contaminants; and
- An exposure route, where the sensitive receptor and contaminants come into contact (e.g. ingestion, inhalation, dermal contact).

The potential source, pathway and receptor linkages at this subject site are provided in Table 5.

**Table 5: Conceptual Site Model** 

Potential Sources	Contaminants of Concern	Exposure Route and Pathways	Receptors	Acceptable Risk?
Household Orchard	Heavy metals Organophosphorus pesticides	Dermal contact with the impacted soil, incidental ingestion and inhalation of dust during earthworks	On-site redevelopment workers  Future subsurface maintenance workers	Highly unlikely, the anecdotal evidence given by the site occupants was that only cooper sulphate and a lichen remover product had been used on the small number of trees and were only used for domestic growing.
		Dermal contact with impacted soils, incidental ingestion and inhalation of wind-blown dust	Future residential land users	



### 7 Conclusions

ENGEO Ltd was engaged by Hughes Developments Ltd to undertake an environmental assessment for a 4.0 ha site, situated at 130 Dunns Crossing Road, Rolleston, Canterbury, which is likely to change in land use, be subdivided and have soil disturbed as part of the development. Information was gathered and reviewed regarding the current and past uses of the site that could have resulted in releases or potential releases of hazardous substances to the subject property.

The review of information identified that the site has been used for agricultural grazing from circa 1940 and storage of scaffolding and household furniture since 2003 when garage structures were constructed on-site.

No activities were identified on Canterbury Regional Council's Listed Land Use Register (CRC LLUR). The property file for the site was viewed at Selwyn District Council, and contained no information related to potential hazardous activities having occurred at the site.

During the site walkover a small number of fruit trees were identified in the south-western corner of the site. Anecdotal evidence given by the site occupant was that only copper sulphate and a product called Move-It (lichen remover) was used on the trees. Move-It is described as a bio-degradable alkaline moss and mould killer which is non-toxic and bleach free. It is considered that the amount of trees present and type of spray being used, that is unlikely to have an adverse effect on the sites soils which would affect site workers or user and therefore are not considered to be of concern.

Based on the information gathered, we consider that it is highly unlikely for the soils to have been impacted from past and current uses of the site. As per regulation 7 of the Resource Management (National Environmental Standard for Assessing and Managing Contaminants in Soil to Protect Human Health) Regulations 2011, it is highly unlikely that an activity included on the HAIL has or is being carried out on the site therefore the site is not covered by this piece of legislation.



### 8 Limitations

- i. We have prepared this report in accordance with the brief as provided. This report has been prepared for the use of our client, Hughes Developments Limited, their professional advisers and the relevant Territorial Authorities in relation to the specified project brief described in this report. No liability is accepted for the use of any part of the report for any other purpose or by any other person or entity.
- ii. The recommendations in this report are based on the ground conditions indicated from published sources, site assessments and subsurface investigations described in this report based on accepted normal methods of site investigations. Only a limited amount of information has been collected to meet the specific financial and technical requirements of the client's brief and this report does not purport to completely describe all the site characteristics and properties. The nature and continuity of the ground between test locations has been inferred using experience and judgement and it should be appreciated that actual conditions could vary from the assumed model.
- iii. Subsurface conditions relevant to construction works should be assessed by contractors who can make their own interpretation of the factual data provided. They should perform any additional tests as necessary for their own purposes.
- iv. This Limitation should be read in conjunction with the Engineering NZ / ACENZ Standard Terms of Engagement.
- v. This report is not to be reproduced either wholly or in part without our prior written permission.

We trust that this information meets your current requirements. Please do not hesitate to contact the undersigned on (03) 328 9012 if you require any further information.

Report prepared by

Report reviewed by

**Natalie Flatman** 

**Environmental Scientist** 

Dave Robotham, CEnvP SC

Principal Environmental Consultant



### 9 References

- Brown, L.J. & Weeber, J.H. (1992). *Geology of the Christchurch Urban Area 1:250,000*. CGD5122. Institute of Geological and Nuclear Sciences.
- ECan, 2021. Environment Canterbury on-line GIS Database. Viewed at: http://canterburymaps.co.nz/Portal
- MfE, 2012. Users' Guide National Environmental Standard for Assessing and Managing Contaminants in Soil to Protect Human Health.
- MfE, 2011. Contaminated Land Management Guidelines No.1: Reporting on Contaminated Sites in New Zealand.
- MfE, 2011. Ministry for the Environment Hazardous Activities and Industries List.





### **FIGURES**







### APPENDIX 1: CRC LLUR





Customer Services
P. 03 353 9007 or 0800 324 636

PO Box 345 Christchurch 8140

P. 03 365 3828 F. 03 365 3194 E. ecinfo@ecan.govt.nz

www.ecan.govt.nz

#### Dear Sir/Madam

Thank you for submitting your property enquiry in regards to our Listed Land Use Register (LLUR) which holds information about sites that have been used, or are currently used for activities which have the potential to have caused contamination.

The LLUR statement provided indicates the location of the land parcel(s) you enquired about and provides information regarding any LLUR sites within a radius specified in the statement of this land.

Please note that if a property is not currently entered on the LLUR, it does not mean that an activity with the potential to cause contamination has never occurred, or is not currently occurring there. The LLUR is not complete, and new sites are regularly being added as we receive information and conduct our own investigations into current and historic land uses.

The LLUR only contains information held by Environment Canterbury in relation to contaminated or potentially contaminated land; other information relevant to potential contamination may be held in other files (for example consent and enforcement files).

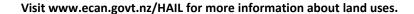
If your enquiry relates to a farm property, please note that many current and past activities undertaken on farms may not be listed on the LLUR. Activities such as the storage, formulation and disposal of pesticides, offal pits, foot rot troughs, animal dips and underground or above ground fuel tanks have the potential to cause contamination.

Please contact and Environment Canterbury Contaminated Sites Officer if you wish to discuss the contents of the LLUR statement, or if you require additional information. For any other information regarding this land please contact Environment Canterbury Customer Services.

Yours sincerely

**Contaminated Sites Team** 

### **Property Statement** from the Listed Land Use Register





**Customer Services** P. 03 353 9007 or 0800 324 636

PO Box 345 Christchurch 8140

P. 03 365 3828 F. 03 365 3194

E. ecinfo@ecan.govt.nz

www.ecan.govt.nz

Date: 17 May 2021

Lot 1 DP 70352 **Land Parcels:** Valuation No(s): 2405537900



The information presented in this map is specific to the property you have selected. Information on nearby properties may not be shown on this map, even if the property is visible.

### **Summary of sites:**

There are no sites associated with the area of enquiry.

### Information held about the sites on the Listed Land Use Register

There are no sites associated with the area of enquiry.

### Information held about other investigations on the Listed Land Use Register

For further information from Environment Canterbury, contact Customer Services and refer to enquiry number ENQ283615.

#### Disclaimer:

The enclosed information is derived from Environment Canterbury's Listed Land Use Register and is made available to you under the Local Government Official Information and Meetings Act 1987 and Environment Canterbury's Contaminated Land Information Management Strategy (ECan 2009).

The information contained in this report reflects the current records held by Environment Canterbury regarding the activities undertaken on the site, its possible contamination and based on that information, the categorisation of the site. Environment Canterbury has not verified the accuracy or completeness of this information. It is released only as a copy of Environment Canterbury's records and is not intended to provide a full, complete or totally accurate assessment of the site. It is provided on the basis that Environment Canterbury makes no warranty or representation regarding the reliability, accuracy or completeness of the information provided or the level of contamination (if any) at the relevant site or that the site is suitable or otherwise for any particular purpose. Environment Canterbury accepts no responsibility for any loss, cost, damage or expense any person may incur as a result of the use, reference to or reliance on the information contained in this report.

Any person receiving and using this information is bound by the provisions of the Privacy Act 1993.



# Listed Land Use Register

What you need to know



### Everything is connected

### What is the Listed Land Use Register (LLUR)?

The LLUR is a database that Environment Canterbury uses to manage information about land that is, or has been, associated with the use, storage or disposal of hazardous substances.

### Why do we need the LLUR?

Some activities and industries are hazardous and can potentially contaminate land or water. We need the LLUR to help us manage information about land which could pose a risk to your health and the environment because of its current or former land use.

Section 30 of the Resource Management Act (RMA, 1991) requires Environment Canterbury to investigate, identify and monitor contaminated land. To do this we follow national guidelines and use the LLUR to help us manage the information.

The information we collect also helps your local district or city council to fulfil its functions under the RMA. One of these is implementing the National Environmental Standard (NES) for Assessing and Managing Contaminants in Soil, which came into effect on 1 January 2012. For information on the NES, contact your city or district council.

# How does Environment Canterbury identify sites to be included on the LLUR?

We identify sites to be included on the LLUR based on a list of land uses produced by the Ministry for the Environment (MfE). This is called the Hazardous Activities and Industries List (HAIL)<sup>1</sup>. The HAIL has 53 different activities, and includes land uses such as fuel storage sites, orchards, timber treatment yards, landfills, sheep dips and any other activities where hazardous substances could cause land and water contamination.

### We have two main ways of identifying HAIL sites:

- We are actively identifying sites in each district using historic records and aerial photographs. This project started in 2008 and is ongoing.
- We also receive information from other sources, such as environmental site investigation reports submitted to us as a requirement of the Regional Plan, and in resource consent applications.

<sup>1</sup>The Hazardous Activities and Industries List (HAIL) can be downloaded from MfE's website www.mfe.govt.nz, keyword search HAIL

# How does Environment Canterbury classify sites on the LLUR?

Where we have identified a HAIL land use, we review all the available information, which may include investigation reports if we have them. We then assign the site a category on the LLUR. The category is intended to best describe what we know about the land use and potential contamination at the site and is signed off by a senior staff member.

Please refer to the Site Categories and Definitions factsheet for further information.

# What does Environment Canterbury do with the information on the LLUR?

The LLUR is available online at <a href="www.llur.ecan.govt.nz">www.llur.ecan.govt.nz</a>. We mainly receive enquiries from potential property buyers and environmental consultants or engineers working on sites. An inquirer would typically receive a summary of any information we hold, including the category assigned to the site and a list of any investigation reports.

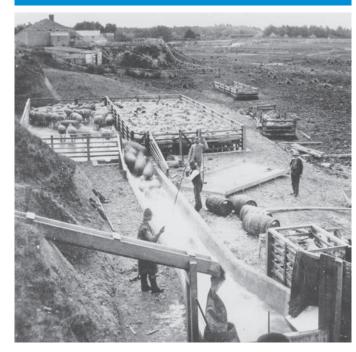
We may also use the information to prioritise sites for further investigation, remediation and management, to aid with planning, and to help assess resource consent applications. These are some of our other responsibilities under the RMA.

If you are conducting an environmental investigation or removing an underground storage tank at your property, you will need to comply with the rules in the Regional Plan and send us a copy of the report. This means we can keep our records accurate and up-to-date, and we can assign your property an appropriate category on the LLUR. To find out more, visit www.ecan.govt.nz/HAIL.



### **IMPORTANT!**

The LLUR is an online database which we are continually updating. A property may not currently be registered on the LLUR, but this does not necessarily mean that it hasn't had a HAIL use in the past.



Sheep dipping (ABOVE) and gas works (TOP) are among the former land uses that have been identified as potentially hazardous. (Photo above by Wheeler & Son in 1987, courtesy of Canterbury Museum.)

### My land is on the LLUR – what should I do now?

**IMPORTANT!** Just because your property has a land use that is deemed hazardous or is on the LLUR, it doesn't necessarily mean it's contaminated. The only way to know if land is contaminated is by carrying out a detailed site investigation, which involves collecting and testing soil samples.

You do not need to do anything if your land is on the LLUR and you have no plans to alter it in any way. It is important that you let a tenant or buyer know your land is on the Listed Land Use Register if you intend to rent or sell your property. If you are not sure what you need to tell the other party, you should seek legal advice.

You may choose to have your property further investigated for your own peace of mind, or because you want to do one of

the activities covered by the National Environmental Standard for Assessing and Managing Contaminants in Soil. Your district or city council will provide further information.

If you wish to engage a suitably qualified experienced practitioner to undertake a detailed site investigation, there are criteria for choosing a practitioner on <a href="https://www.ecan.govt.nz/HAIL">www.ecan.govt.nz/HAIL</a>.



# I think my site category is incorrect – how can I change it?

If you have an environmental investigation undertaken at your site, you must send us the report and we will review the LLUR category based on the information you provide. Similarly, if you have information that clearly shows your site has not been associated with HAIL activities (eg. a preliminary site investigation), or if other HAIL activities have occurred which we have not listed, we need to know about it so that our records are accurate.

If we have incorrectly identified that a HAIL activity has occurred at a site, it will be not be removed from the LLUR but categorised as Verified Non-HAIL. This helps us to ensure that the same site is not re-identified in the future.

### **Contact us**

Property owners have the right to look at all the information Environment Canterbury holds about their properties.

It is free to check the information on the LLUR, online at www.llur.ecan.govt.nz.

If you don't have access to the internet, you can enquire about a specific site by phoning us on (03) 353 9007 or toll free on 0800 EC INFO (32 4636) during business hours.

**Contact Environment Canterbury:** 

Email: ecinfo@ecan.govt.nz

Phone:

Calling from Christchurch: (03) 353 9007

Calling from any other area: 0800 EC INFO (32 4636)



Promoting quality of life through balanced resource management.

# Listed Land Use Register

### Site categories and definitions

When Environment Canterbury identifies a Hazardous Activities and Industries List (HAIL) land use, we review the available information and assign the site a category on the Listed Land Use Register. The category is intended to best describe what we know about the land use.

If a site is categorised as **Unverified** it means it has been reported or identified as one that appears on the HAIL, but the land use has not been confirmed with the property owner.

If the land use has been confirmed but analytical information from the collection of samples is not available, and the presence or absence of contamination has therefore not been determined, the site is registered as:

#### Not investigated:

- A site whose past or present use has been reported and verified as one that appears on the HAIL.
- The site has not been investigated, which might typically include sampling and analysis of site soil, water and/or ambient air, and assessment of the associated analytical data.
- There is insufficient information to characterise any risks to human health or the environment from those activities undertaken on the site. Contamination may have occurred, but should not be assumed to have occurred.

If analytical information from the collection of samples is available, the site can be registered in one of six ways:

#### At or below background concentrations:

The site has been investigated or remediated. The investigation or post remediation validation results confirm there are no hazardous substances above local background concentrations other than those that occur naturally in the area. The investigation or validation sampling has been sufficiently detailed to characterise the site.

#### Below guideline values for:

The site has been investigated. Results show that there are hazardous substances present at the site but indicate that any adverse effects or risks to people and/or the environment are considered to be so low as to be acceptable. The site may have been remediated to reduce contamination to this level, and samples taken after remediation confirm this.



#### Managed for:

The site has been investigated. Results show that there are hazardous substances present at the site in concentrations that have the potential to cause adverse effects or risks to people and/or the environment. However, those risks are considered managed because:

- the nature of the use of the site prevents human and/or ecological exposure to the risks; and/or
- the land has been altered in some way and/or restrictions have been placed on the way it is used which prevent human and/or ecological exposure to the risks.

#### Partially investigated:

The site has been partially investigated. Results:

- demonstrate there are hazardous substances present at the site; however, there is insufficient information to quantify any adverse effects or risks to people or the environment; or
- do not adequately verify the presence or absence of contamination associated with all HAIL activities that are and/or have been undertaken on the site.

#### Significant adverse environmental effects:

The site has been investigated. Results show that sediment, groundwater or surface water contains hazardous substances that:

- · have significant adverse effects on the environment; or
- are reasonably likely to have significant adverse effects on the environment.

#### Contaminated:

The site has been investigated. Results show that the land has a hazardous substance in or on it that:

- has significant adverse effects on human health and/or the environment; and/or
- is reasonably likely to have significant adverse effects on human health and/or the environment.

If a site has been included incorrectly on the Listed Land Use Register as having a HAIL, it will not be removed but will be registered as:

#### Verified non-HAIL:

Information shows that this site has never been associated with any of the specific activities or industries on the HAIL.

Please contact Environment
Canterbury for further information:





### **APPENDIX 2:**

Certificate of Titles





### RECORD OF TITLE UNDER LAND TRANSFER ACT 2017 FREEHOLD





Identifier CB40D/786

Land Registration District Canterbury

Date Issued 14 November 1995

**Prior References** CB39A/686

**Estate** Fee Simple

Area 4.0000 hectares more or less
Legal Description Lot 1 Deposited Plan 70352

**Registered Owners** Peter Rowlands Savage

#### **Interests**

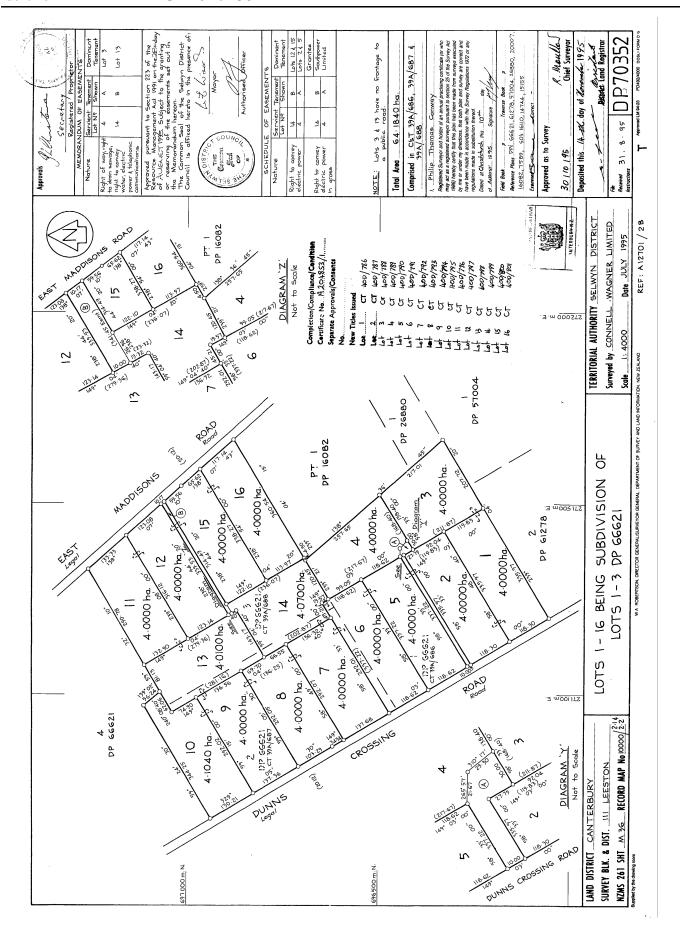
Subject to Part IV A Conservation Act 1987

Fencing Covenant in Transfer A204853.22 - 14.11.1995 at 12.12 pm

Land Covenant in Transfer A204853.22 - 14.11.1995 at 12.12 pm

6060762.1 Mortgage to ASB Bank Limited - 30.6.2004 at 9:00 am

11211027.1 Court Order Varying Land Covenant in Transfer A204853.22 - 24.8.2018 at 7:00 am





# RECORD OF TITLE UNDER LAND TRANSFER ACT 2017 FREEHOLD

### **Historical Search Copy**



Constituted as a Record of Title pursuant to Sections 7 and 12 of the Land Transfer Act 2017 - 12 November 2018

Identifier CB40D/786

Land Registration District Canterbury

Date Issued 14 November 1995

**Prior References** CB39A/686

**Estate** Fee Simple

Area 4.0000 hectares more or less
Legal Description Lot 1 Deposited Plan 70352

**Original Registered Owners** 

Peter Rowlands Savage

### **Interests**

Subject to Part IV A Conservation Act 1987

Fencing Covenant in Transfer A204853.22 - 14.11.1995 at 12.12 pm

Land Covenant in Transfer A204853.22 - 14.11.1995 at 12.12 pm

6060762.1 Mortgage to ASB Bank Limited - 30.6.2004 at 9:00 am

11211027.1 Court Order Varying Land Covenant in Transfer A204853.22 - 24.8.2018 at 7:00 am

References

Prior C/T 39A/686

Transfer No.

A204853/4-19 N/C. Order No.



Land and Deeds 69

REGISTER

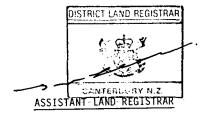
### CERTIFICATE OF TITLE UNDER LAND TRANSFER ACT

one thousand nine hundred and ninety-five n District of CANTERBURY This Certificate dated the 14th day of November under the seal of the District Land Registrar of the Land Registration District of

WITNESSETH that KAJENS TRADING & DEVELOPMENT LIMITED at Christchurch ---

is seised of an estate in fee-simple (subject to such reservations, restrictions, encumbrances, liens, and interests as are notified by memorial underwritten or endorsed hereon) in the land hereinafter described, delineated with bold black lines on the plan hereon, be the several admeasurements a little more or less, that is to say: All that parcel of land containing 4.0000

hectares or thereabouts being Lot 1 -Deposited Plan 70352 ---



Subject to:

Part IVA Conservation Act 1987

Mortgage A141598/3 to Bank 27.10.1994 at 11.16am

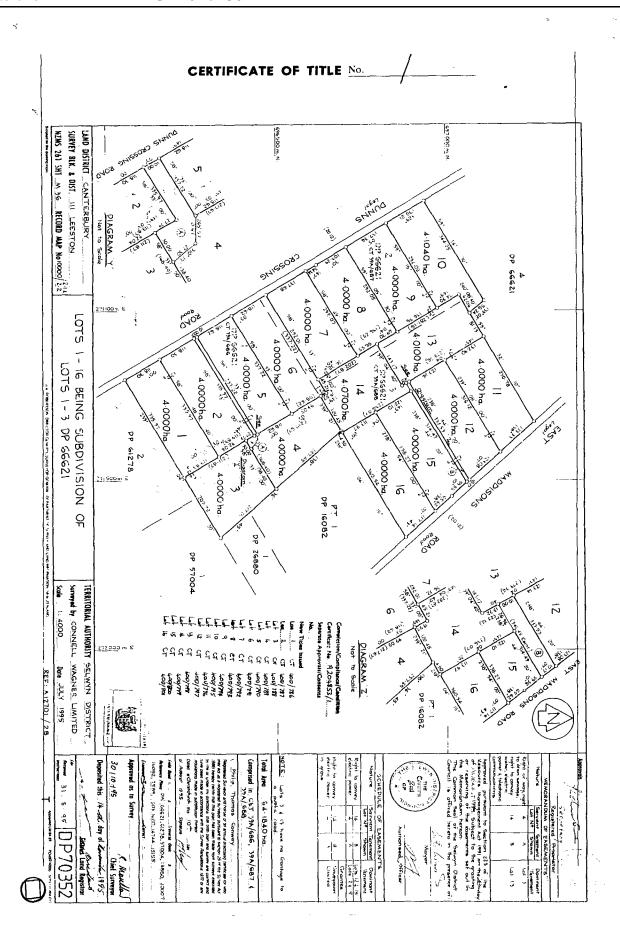
No. A204853/2 Bord Dursuant to Section 222 Resource Management 10 1991 to The Selwyn District (Mincil) 21 11 1995 at 12.12pm

Transfer A204853/22 to Kajens Trading & Development Limited at Christchurch 14.11.1995 at 12.12pm (Fencing and Land Covenants)

A.L.R.

Transfer A279346/3 to Peter Rowlands Savage of Christchurch, Mechanic -27.1.1997 at 12.15pm

Measurements are Metric





### **APPENDIX 3:**

Site Photographs





Photo 1: Two garage buildings on-site



Photo 2: Small area of fruit trees in south-western corner



Photo 3: Southern paddock looking south



Photo 4: Northern paddock looking southeast



Photo 5: Northern paddock looking east



Photo 6: Remnant burn pile in south paddock



Date taken	May 2021	Client	Hughes Developments		ts
Taken by	NF	Project	130	Dunns Crossing R	oad
Approved by	DR	Description	Site Photographs		
Photo No.	1 to 6	ENGEO Ref.	12903	Appendix No.	3