

24 September 2019 (Revised 10 November 2021)

Maraetai Land Development C/- Neil Construction Limited PO Box 8751 Symonds Street Auckland 1150

Attention:

David Page

Land Manager

Dear David,

RE: Preliminary Site Investigation of 102 Totara Road, Whenuapa

Geosciences Ltd (GSL), has conducted preliminary site investigation (PSI) of the property located at 102 Totara Road, Whenuapai in accordance with GSL proposal ref: *Pro 1855/Aug19* dated 06 August 2019. The property is legally described as Lot 1 DP 53062, comprises an area of 4.7551 Ha and is hereafter referred to as 'the site' in this report.

Ref: Ltr-1394/PSI/Sep17(Rev1)

The primary purpose of this investigation is to assess the likelihood of any potential contamination issues being present on site, and the resulting applicability of the National Environmental Standards for Assessing and Managing Contaminants in Soil to Protect Human Health (NES).

1 BACKGROUND

The site is currently a rural residential lot comprising of two residential dwellings; one located midway along the western boundary of the site and the other located on the southern boundary of the site. The landuse is consistent with the surrounding area, which has a mixture of rural and rural-residential properties nestled in and around the Whenuapai NZ Air Force directly the east of the site. GSL understands that the site has been identified for future residential development.

The National Environmental Standards for Assessing and Managing Contaminants in Soil to Protect Human Health (NES) (Ministry for the Environment (MfE), 2012) requires that land affected by contaminants in soil is appropriately identified and assessed. When soil disturbance, change in landuse, or subdivision activities take place it should be, if necessary remediated or the contaminants contained to make the land safe for the intended landuse.

Under the NES, land is considered to be actually or potentially contaminated if an activity or industry on the MfE Hazardous Activities and Industries List (HAIL) has been, is, or is more likely than not to have been undertaken on the land under investigation. Consequently, any change in landuse, subdivision or development required a preliminary site investigation (PSI) of the land to determine whether or not any risk to human health exists as a result of any current or former activities that are occurring, or may have occurred, on that land.

GSL understands that the site has been secured by Maraetai Land Development, with the intention of developing the land for residential landuse. Maraetai Land Development engaged GSL to undertake an investigation of the site to comment on the likely contamination risks associated with the property and determine whether or not the provisions of the NES are likely to apply to the site, or portions thereof.

2 SCOPE OF WORKS

This preliminary site investigation, undertaken in general accordance with the MfE Contaminated Land Management Guidelines (CLMG) No. 1 - "Reporting on Contaminated Sites in New Zealand" and No 5 - "Site Investigation and Analysis of Soils" included:

- an historical appraisal of the site by a study of historic aerial photographs;
- · a review of the current and historic certificates of title;
- · a review of the property file held by Council;
- a visual site inspection and walkover of the property; and
- the preparation of this letter report to comment on the liabilities applicable under the National Environmental Standards (NES) regulations, and Auckland Unitary Plan (Operative in Part) (AUP(OP)) rules for the development of the site.

3 SITE HISTORY

In order to establish the site history, GSL conducted a desktop study of publicly available information, the findings of the study are detailed in the following sections.

3.1 RECORDS OF TITLE

GSL has reviewed copies of the current and historic Records of Title for the aforementioned property, including any instruments on the title which detail relevant property information such as: current ownership, registered interests, easements, covenants, lease restrictions and transmissions, to determine if pre-existing consent notices or other restrictions / notifications which may be relevant to historic uses of or potential soil contamination are held against the property. The titles indicate that the property was formed in 1964 under the Joint Family Homes Act 1964 and settled to Lois Violet Harre and Lloyd McCrae Harre, noting Mr McCrae occupation as a farmer. There are no other notes of interest on the titles. Copies of the certificates are attached in Appendix A.

3.2 HISTORIC AERIAL PHOTOGRAPHS

Historic aerial photographs from 1940, 1950, 1963, 1972, 1980, and 1988 are available from the Retrolens website while images from 1996, 1999, 2000, 2003, 2006, 2008, 2010, 2015, and 2017 are available on the Auckland Council GEOMaps website (GIS). The most recent available image is held on Google Earth from April 2019. The findings of the historic aerial photograph review are summarised below, while copies of the aerial photographs have been attached in Appendix B.



This is the first available image of the site. Currently the site is vacant apart from trees lining the north, east and western boundaries of the site.

1950- The site is currently segregated down the centre by a thick shelter belt running approximately north-south across the site. In 1950 trees from the northwest corner of the site have been removed, by 1963 the remainder of trees on the norther boundary have also been removed. There are no other significant developments on site.

By 1972 a residential dwelling has been erected on site, as well as a paved driveway accessing the site from Totara Road to the west. An area of domestic garden has been established to the south of the dwelling with some planting evident. The remainder of the site remains vacant pasture with no other significant developments.

1980- The shelter belt previously segregating the site down the middle has been removed. To the south of the residential dwelling a shed has been erected, a second small shed with a small, fenced enclosure is noted in the approximate centre of the site adjacent to the remnants of the former shelter belt.

Other than the construction of a second small shed in the approximate centre of the site's northern boundary, there is little discernible development to the site in the 1988 image.

The 1996 image is the first available colour image of the site and while the image is of poor quality the colour confirms the site pastoral landuse. To the south of the residential dwelling the existing barn / shed has been extended to the south, while a small shed has been constructed in the southwest paddock, adjacent to the domestic gardens. In the southeast corner of the site, a stormwater culvert and channel is evident.

By 1999 a new residential dwelling has been erected along the southern boundary of the site. The small shed in the southwest paddock, noted in the previous image, has been removed. There are no other discernible developments to the site through the images from 2000, and 2003.

The 2006 image is of much higher quality making the sites features easily discernible, the sites use remains predominantly pastoral with the two residential dwellings and barn in the southwest quadrant of the site. The small shed appears to be an animal shelter and pen first noted in the 1980 image appears to be a small animal enclosure or run. To the south of the main dwelling and barn a small apparent portacom type shed has been placed on the paddock, this is assumed to be a portable structure as it has been removed again by the 2008 image. A small domestic sized shadehouse has been constructed in the gardens to the southwest of the original dwelling.

Other than the removal of the portacom there are no discernible developments to the site in the 2008 image.

The shed in the centre of the northern boundary appears to be undergoing demolition / removal at the time of the 2010 image, some building materials are piled to the south of the shed and only remnants of the structure remain along with a timber animal loading race. A small shed has been constructed in the garden of the recent residential dwelling; this is assumed to be a temporary structure as it is removed by the 2015 image.

2019

2006

Aside from the demolition and removal of the shelter and animal run north of the site centre there is little discernible development noted on site in the 2015 image. The 2017 image shows a port-a-com style shed located off the southwest corner of the barn to the south of the original dwelling. The stormwater flowpath appears to have been replanted between culverts on the southern boundary and the eastern boundary where it crosses into the adjacent airbase. The 2019 Google Earth image shows little discernible development to the site.

3.2.1 Summary of Aerial Photographs

GSL has reviewed the available historic aerial images of the site and concluded that the site remained predominantly vacant pasture since at least 1940. Residential landuse is established by 1972, with a second residential dwelling being constructed by 1999. The aerial photographs show no distinct evidence for any activity or industry included on the MfE HAIL having been undertaken on the site. There are no structures present on the site which could be spray races, nor is there any evidence for horticultural activities or major earthworks having been undertaken on the site.

3.3 PROPERTY FILE

GSL requested a copy of the property file from Auckland Council for review of historic activities. Copies of relevant historic plans, correspondence, permits, and consents have been attached in Appendix C. The following items of note were on the supplied file:

- A building permit application for the construction of a residential dwelling is held on file specifying "decromastic tiles" under roofing material, the bituminous glue utilised in some decromastic tiles has been known to contain asbestos fibres. Fibrous plaster ceilings are also noted in the specifications. Also specified in the building plans is the use of "white and red lead" paints and primers on exterior woodworking.
- **1979** Building application and permit for tractor shed.
- 1998 An application for the construction of minor dwelling located more than 20m from the existing dwelling is held on file. Plans included on the property file indicate the location of a domestic septic tank and effluent disposal trench and soakage system associated with the minor dwelling.

3.3.1 Summary of Property File

GSL reviewed the property file held by Auckland Council for the site, noted on the specifications for the original dwelling are potentially asbestos containing materials (ACM) and lead based paints. When in broken or degraded condition, asbestos containing material is included on the MfE HAIL under Item E.1, similarly the impacts of lead based paints can be encompassed by Item I of the HAIL where a potential risk to human health or the environment is noted.

Drainage plans and pump-out-reports held in the property file indicate the presence of two onsite septic tanks and effluent disposal systems on the site. Auckland Council consider that domestic effluent disposal systems are encompassed by Item G.5 and G.6 of the MfE HAIL as waste disposal to land.

3.4 SUMMARY OF DESKTOP INVESTIGATION

GSL conducted a desktop study of publicly available information including a review of current and historic certificates of title, a review of historic aerial photographs, and a review of the property file held by Council. The desktop study has identified the following potential issues associated with the existing residential dwelling on site:

- Historic use of lead based paints on the original dwelling and older sheds on site;
- Potential presence of asbestos containing materials within the original dwelling and sheds in the paddocks; and
- Presence of onsite effluent disposal systems.

4 SITE INSPECTION AND WALKOVER

GSL undertook a site inspection on 19 September 2019 at which time the weather was fine and clear, at the time of the inspection the site appears exactly as it does in the most recent aerial photographs, that is; largely vacant pasture laid out in paddocks for the grazing of cattle. The only structures on the full extent of the site are the dwellings and barn noted in the aerial photographs.

The main dwelling on site is the original 1960s house, which is accessed directly off Totara Road along a concrete driveway in the southwest quadrant of the site, a second driveway is cut along the southern boundary of the site providing access to the more recent minor dwelling.

The dwelling itself is confirmed to be as described in the plans in the property file, being a timber framed brick clad dwelling on concrete blockwork foundations, with tiled roofing, the lower storey of the dwelling appears to be utilised as a second dwelling / granny flat under the main house. Between the Totara Road and the main dwelling is a large manicured lawn with a vegetable garden, fruit trees, and a small shadehouse housing grapevines to the south of the dwelling. North of the dwelling and ornamental gardens are three chicken houses with attached runs sited under a stand of large mature Australian Swamp Gum trees. The chicken sheds are constructed out of timber frames and clad with longrun iron roofing materials.

Off the southeast corner of the main dwelling is a large timber barn with various stockpiles of timber, including some treated decking timbers, and roofing materials to the west and north of the barn. The barn itself is utilised for storage of firewood, kindling and other timber products, all of which are situated on a concrete floor slab. A timber loading race and pen is constructed on the east end of the barn which provides gated access to the adjacent paddocks and remainder of the site. In the northwest corner of a small paddock north of the barn and east of the main dwelling the breather valve for the septic tank system was noted, no distinct visually obvious indication was noted for the tank overflow or soakage trenches was noted during the inspection.

The second, more recent dwelling is located on the southern site boundary and accessed along a separate driveway off Totara Road, the dwelling is maintained in excellent condition and clad with modern weatherboards, and corrugated iron roofing material. In the paddock to the west of the dwelling the septic tank system associated with the dwelling is noted, the system is an Oasis Clearwater system which appears to be a modern, high tech, multi chamber system.

The remaining site area is vacant pasture and laid out in paddocks, separated by electrified cattle fences, the paddocks are utilised for raising drystock. The only structures noted on the pastoral areas of the site are the remnants of the loading race associated with the former shed on the northern boundary. Residual tree stumps from the former large shelter belt are noted across the central portion of the site running in a north-south direction. There are no structures present on the eastern half of the site, the full extent of that portion of the site is vacant pasture, the only item of note is the stormwater channel in the southeast corner of the site which directs culverted stormwater from the adjacent subdivision across a small portion of the site and onto the airbase to the east, where it is reculverted. There is minimal risk for any potential run off from the airbase impacting soil on the site, as the stormwater channel would intercept any potential runoff. Additionally, the portion of the airbase appears to be predominantly residential barracks, mess halls, and office type buildings, no high-risk activities associated with airports or airfields appear to be undertaken on that portion of the base.

With the exception of the identification of two effluent disposal systems onsite, no evidence for any activity or industry included on the MfE HAIL having been, or currently being undertaken on the site was noted during the site inspection. Site photographs are included as Appendix D.

5 POTENTIAL FOR CONTAMINATION

Following the completion of this investigation, GSL has identified the following source of potential contamination on site:

- Historic use of lead based paints on the original 1960s residential dwelling and sheds adjacent to the northern site boundary;
- Possible utilisation of Asbestos Containing Materials within the construction of the original dwelling and sheds adjacent to the northern boundary; and
- Presence of two septic tanks and effluent disposal systems associated with the residential dwellings.

An assessment of the likely extents and issues associated with each of these items is discussed in turn below based on GSL' extensive experience in similar situations.

5.1 LEAD BASED PAINT

While the use of lead based paint was becoming more and more reduced in the 1950's, its use continued until the 1970's. As lead paints are noted in the specification for the construction of the dwelling, noting the use of lead primers on exterior woodwork, GSL considers that the curtilage of the original dwelling has the potential to be impacted by the historic use of lead based paints.

GSL considers that soil immediately surrounding the original 1960's dwelling could potentially have been impacted by lead based paints if the exterior paint on the dwelling had been in deteriorated condition, or at times when routine maintenance such as sanding, or scraping were undertaken without adequate ground protection in place.

The potential effects of lead based paint on the surrounding soil would be expected to be concentrated in the area surrounding the dwelling where paint chips, flakes, or dust had infiltrated the soil, lead can then leach out of the paint into the soil resulting in elevated concentrations in the soil. Those

concentrations are generally limited to the immediate curtilage and rapidly attenuate with distance and depth from the source (the dwelling), only impacting the surficial soils within that curtilage. As the dwelling in question is primarily brick clad, and lead primers were noted for use on external woodwork only, and the lead content in 160s paints was significantly lower than pre-1940 paints, the potential for impacts to present a risk to human or environmental health is considered to be low.

5.2 ASBESTOS CONTAINING MATERIALS IN BUILDINGS

ACM has been widely used in an array of building materials for an extensive period of New Zealand's building materials history. While its use was widely concluded by 1990, New Zealand legislation notes that its use cannot be ruled out on buildings constructed prior to 1 January 2000. As a result, the presence of asbestos within the buildings cannot be ruled out.

With regards to ACM, the potential for soil contamination is only present if ACM is in deteriorated or broken condition. No broken or degraded ACM was identified during the site inspection suggesting that if ACM is present within the building, it is most likely in good condition.

As with lead based paint, ACM is only likely to impact soil immediately adjacent to the original dwelling, and small sheds along the northern site boundary and as such are not considered to present a potential for gross soil contamination across the site as a whole.

With respect to the demolition of any building constructed prior to 1 January 2000 the *Health and Safety at Work (Asbestos) Regulations 2016, demands* a fully intrusive pre-demolition hazardous building materials survey to be undertaken before demolition works can commence. The survey must be conducted by a suitably WorkSafe NZ licensed asbestos assessor and will identify the location and extent of any hazardous building materials, specifically ACM. Should ACM be identified in the survey then asbestos removal works will be required prior to the demolition of the dwelling, the removal must be completed by an appropriately licensed asbestos removal contractor and under the controls of an asbestos removal control plan (to be provided by the appointed contractor. The hazardous building materials survey will form the basis of any asbestos removal control plan.

5.3 EFFLUENT DISPOSAL INFRASTRUCTURE

Domestic effluent disposal infrastructure is considered by Auckland Council to be encompassed under Items G.5 and G.6 of the MfE HAIL as waste disposal to land. Should the existing septic tank and disposal field require decommissioning and removal as part of the proposed future development, works in this area will need to address the requirement of the NES and Auckland Unitary Plan (Operative in Part) with respect to contamination regulations.

Effluent disposal fields are likely to result in small scale impacts limited to the topsoil horizon where the effluent liquor is dispersed. In GSL's experience, impacts are unlikely to extend beyond the boundaries of the disposal field and generally do not exceed 400 mm in depth meaning that a small localised area will likely require remedial earthworks during decommissioning. Impacts are considered unlikely to be pervasive across a large area.



6 CONCLUSIONS

GSL has undertaken a preliminary site investigation, in general accordance with the MfE Contaminated Land Management Guidelines, of the property located at 102 Totara Road, Whenuapai. The primary purpose of this investigation is to assess the likelihood of any potential contamination issues being present on site, and if so, comment on the applicability of the regulations of the NES and Chapter E.30 of the AUP(OP).

This investigation has identified potential sources of contamination on site to be the discrete area surrounding the original 1960's residential dwelling and former shed locations along the norther site boundary. Due to the age of the original dwelling, which was constructed in 1969, GSL considers that the following potential sources of contamination will require further investigation should any change in landuse, subdivision, or development works be proposed in that area:

- · Historical use of lead based paints; and
- Potentially asbestos containing building materials utilised in the residential dwellings and sheds on site.

Additionally, plans held within the property file identify the location of the onsite domestic wastewater treatment systems (septic tank and effluent disposal field) associated with the two residential dwellings, which Auckland Council have considered to be encompassed by Items G.5 and G.6 on the MfE HAIL. GSL concludes that should any change in landuse, subdivision, or development of that portion of the land be proposed, then these small scale, localised points will require further investigation and likely require localised remedial works.

With regards to the wider site area, outside of the commentary above, GSL did not identify any evidence for any potentially contaminating activity included on the MfE Hazardous Activities and Industries List having been undertaken on the site. GSL therefore concludes that the risk for actual or potential contamination on the site to be low and concludes that with respect to the wider site area that any future change in landuse, subdivision, or development would be highly unlikely to result in a risk to human health or the environment.

6.1 NATIONAL ENVIRONMENTAL STANDARDS

As a result of the identification of potentially contaminating landuses within the residential footprint on site, any change in landuse, subdivision, or development of that area will be required to address the regulations of the NES. As there is no distinct evidence for any activity included on the MfE HAIL having occurred or being more likely than not to have occurred on the wider site area, the wider site area does not meet the definition of "Land Covered" under Regulation 5(7), as a result, the regulations of the NES are not applicable to the change in landuse, subdivision, or development of those areas.

With respect to the immediate area of the original dwelling, while the NES is applicable to the development of that portion of the site, GSL notes that the area and volume of impacted soils is likely to be extremely limited in the scale of the overall development. The disturbance of potentially lead impacted soil within the dwelling curtilage and the effluent disposal systems are likely to be well within the remit of a Permitted Activity under Regulation 8(3) of the NES. Regulation 8(3) allows for the disturbance and offsite disposal of soil on actually or potentially contaminated sites as a permitted activity while the following conditions are met:

- a) "Controls to minimise the exposure of humans to mobilised contaminants must
 - i. Be in place when the activity begins;
 - ii. Be effective while the activity is done;
 - iii. Be effective until the soil is reinstated to an erosion resistant state;
- b) The soil must be reinstated to an erosion resistant state within 1 month after serving the purpose for which the activity was done
- c) The volume of disturbance on soil must not be more than 25 m³ per 500 m²;
- d) Soil must not be taken away in the course of the activity except that -
 - For the purpose of laboratory analysis, any amount of soil may be taken away as soil samples;
 - ii. For all other purposes combined, a maximum of 5 m³ per 500 m²may be taken away per vear.
- Soil taken away in the course of the activity must be disposed of at a facility licensed to receive soil of that kind;
- f) The duration of the activity must be no longer than two months;
- g) The integrity of a structure designed to contain contaminated soil must not be compromised."

For a site of this size (4.7551 Ha) Regulation 8(3) allows for the disturbance of up to 2,377.55 m³ and the offsite disposal of up to 475.51 m³ of soil, per year, as a permitted activity. It is likely that the required soil disturbance and offsite disposal of any actually or potentially impacted soil will fall within those volumes.

A site management plan will likely be required to document the controls to be in place for the protection of human and environmental health for the duration of soil disturbance in those areas in order to meet the requirements of Regulation 8(3).

6.2 AUCKLAND UNITARY PLAN (OPERATIVE IN PART)

For the same reasons as the NES above, the majority of the site does not meet the Auckland Council definition of "land containing elevated levels of contaminants" and as such, the contaminated land rules of Chapter E.30 of the AUP(OP) will not apply to the proposed change in landuse, subdivision, and development of the site.

That said, the area of the residential dwelling and disposal field may meet that definition, and technically, the contaminated land rules of the Chapter E.30 may be applicable to soil disturbance in that area. That said, the AUP(OP) allows for the small scale disturbance of soil on actually or potentially contaminated land as a permitted activity under Rule E.30.6.1.2, which provides for small scale disturbance while the following conditions are met:

- 1. "The volume of soil disturbed must not exceed:
 - a. 200 m³ per site; or
 - 200 m³ per project for sites or roads with multiple concurrent land disturbance projects, where the cumulative total volume of soil disturbance associated with each given project will be used when determining activity status; or
 - c. an average depth and width of 1 m for linear trenching by network utilities in the road or rail corridor. For the purposes of this rule the rail corridor does not include land more than 10 m from the rail tracks.
- 2. Prior to the activity commencing:
 - a. the Council must be advised of the activity in writing if the volumes of soil disturbed on land containing elevated levels of contaminants exceeds 25 m³, including details of the



- measures and controls to be implemented to minimise discharges of contaminants to the environment, and such controls are to be effective for duration of the activity and until the soil is reinstated to an erosion-resistant state; and
- b. control on linear trenching must be implemented to manage discharges to the environment from trenches acting as migration pathways for contaminants;
- 3. Any discharge from land containing elevated levels of contaminants must not contain separate phase liquid contaminants including separate phase hydrocarbons.
- 4. The duration of the soil disturbance on a site must not exceed two months.
- Any contaminated material removed from the site must be disposed of at a facility or site authorised to accept such materials."

Where the disturbance of soil required to address the above potentially impacted areas can comply with the above conditions, GSL considers that the remediation of those areas can be undertaken as a permitted activity. Following the completion of those remedial works, the contaminated land rules of Chapter E.30 will no longer be applicable to the proposed development.

7 RECOMMENDATIONS

In order to address the requirements of the NES and Chapter E.30 of the AUP(OP) a site management plan will be required to document the controls to be in place for the protection of human and environmental health from the potential mobilisation of contaminants in soil during soil disturbance works.

Thank you for the opportunity to carry out this investigation. Should you have any queries regarding this report please do not hesitate to contact us on 09 475 0222.

Report prepared on behalf of

Report authorised on behalf of

GSL by:

GSL by:

room

David Wilkinson Environmental Scientist

Geosciences Ltd

Carl O'Brien
General Manager
Geosciences Ltd



Disclaimer

This report is provided on the condition that Geosciences Ltd disclaims all liability to any person or entity other than the client and Auckland Council in respect of anything done or omitted to be done and of the consequence of anything done or omitted to be done by any such person in reliance, whether in whole or in part, on the contents of this report. Furthermore, Geosciences Ltd disclaims all liability in respect of anything done or omitted to be done and of the consequence of anything done or omitted to be done by the client, or any such person in reliance, whether in whole or any part of the contents of this report of all matters not stated in the brief outlined in our proposal and according to our general terms and conditions and special terms and conditions for contaminated sites.

Statement

This site investigation has been prepared in accordance with the Resource Management (National Environmental Standard for Assessing and Managing Contaminants in Soil to Protect Human Health) Regulations 2011. It has been managed by a suitably qualified and experienced practitioner (SQEP); and reported on in accordance with the current edition of the Ministry for the Environment's Contaminated Land Management Guidelines No.1 – Reporting on Contaminated Sites in New Zealand.

LtR-1394/PSI/Sep19



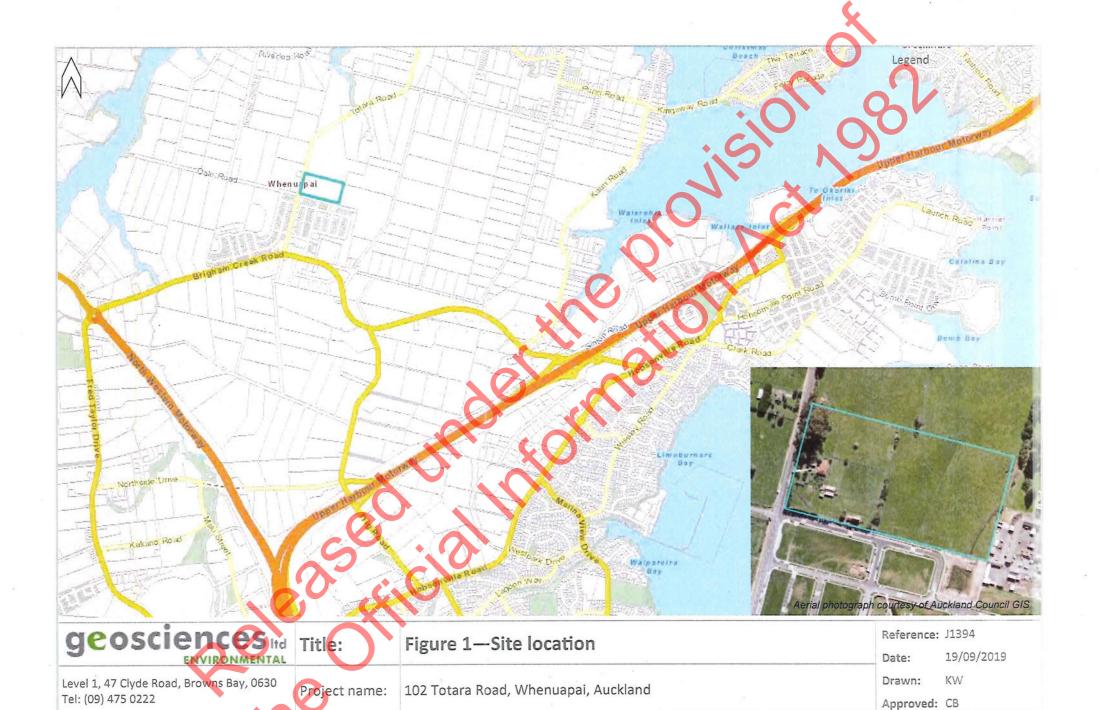
8 LIMITATIONS

The conclusions and all information in this Report are given strictly in accordance with and subject to the following limitations and recommendations:

- The assessment undertaken to form this conclusion is limited to the scope of work agreed between GSL and the client, or the client's agent as outlined in this Report. This report has been prepared for the sole benefit of the client and neither the whole nor any part of this report may be used or relied upon by any other party.
- The investigations carried out for the purposes of the report have been undertaken, and the report has been prepared, in accordance with normal prudent practice and by reference to applicable environmental regulatory authority and industry standards, guidelines and assessment criteria in existence at the date of this report.
- 3. This report should be read in full and no excerpts are to be taken as representative of the findings. No responsibility is accepted by GSL for use of any part of this report in any other context.
- 4. This Report was prepared on the dates and times as referenced in the report and is based on the conditions encountered on the site and information reviewed during the time of preparation. GSL accepts no responsibility for any changes in site conditions or in the information reviewed that have occurred after this period of time.
- 5. Where this report indicates that information has been provided to GSL by third parties, GSL has made no independent verification of this information except as expressly stated in the report. GSL assumes no liability for any inaccuracies in or omissions to that information.
- Given the limited Scope of Works, GSL has only assessed the potential for contamination resulting from past and current known uses of the site.
- 7. Environmental studies identify actual sub-surface conditions only at those points where samples are taken and when they are taken. Actual conditions between sampling locations may differ from those inferred. The actual interface between materials may be far more gradual or abrupt than an assessment indicates. Actual conditions in areas not sampled may differ from that predicted. Nothing can be done to prevent the unanticipated and GSL does not guarantee that contamination does not exist at the site.
- 8. Except as otherwise specifically stated in this report, GSL makes no warranty or representation as to the presence or otherwise of asbestos and/or asbestos containing materials ("ACM") on the site. If fill has been imported on to the site at any time, or if any buildings constructed prior to 1970 have been demolished on the site or materials from such buildings disposed of on the site, the site may contain asbestos or ACM.
- 9. Except as specifically stated in this report, no investigations have been undertaken into any off-site conditions, or whether any adjoining sites may have been impacted by contamination or other conditions originating from this site. The conclusion set out above is based solely on the information and findings contained in this report.
- 10. Except as specifically stated above, GSL makes no warranty, statement or representation of any kind concerning the suitability of the site for any purpose or the permissibility of any use, development or re-development of the site.
- 11. The investigation and remediation of contaminated sites is a field in which legislation and interpretation of legislation is changing rapidly. Our interpretation of the investigation findings should not be taken to be that of any other party. When approval from a statutory authority is required for a project, that approval should be directly sought by the client.
- 12. Use, development or re-development of the site for any purpose may require planning and other approvals and, in some cases, environmental regulatory authority and accredited site auditor approvals. GSL offers no opinion as to whether the current or proposed use has any or all approvals required, is operating in accordance with any approvals, the likelihood of obtaining any approvals, or the conditions and obligations which such approvals may impose, which may include the requirement for additional environmental works.
- 13. GSL makes no determination or recommendation regarding a decision to provide or not to provide financing with respect to the site. The on-going use of the site and/or planned use of the site for any different purpose may require the owner/user to manage and/or remediate site conditions, such as contamination and other conditions, including but not limited to conditions referred to in this report.
- 14. Except as required by law, no third party may use or rely on, this report unless otherwise agreed by GSL in writing. Where such agreement is provided, GSL will provide a letter of reliance to the agreed third party in the form required by GSL.
- 15. To the extent permitted by law, GSL expressly disclaims and excludes liability for any loss, damage, cost or expenses suffered by any third party relating to or resulting from the use of, or reliance on, any information contained in this Report. GSL does not admit that any action, liability, or claim may exist or be available to any third party.
- 16. Except as specifically stated in this section, GSL does not authorise the use of this report by any third party.

FIGURES

Released under the provision Act of Ageleased under the Agelease



APPENDIX A

CERTIFICATE OF TITLE



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

Search Copy



Identifier

Land Registration District North Auckland

Date Issued

NA4A/1477

29 July 1964

Prior References

NA1166/90

Estate

Fee Simple

Area

4.7551 hectares more or less

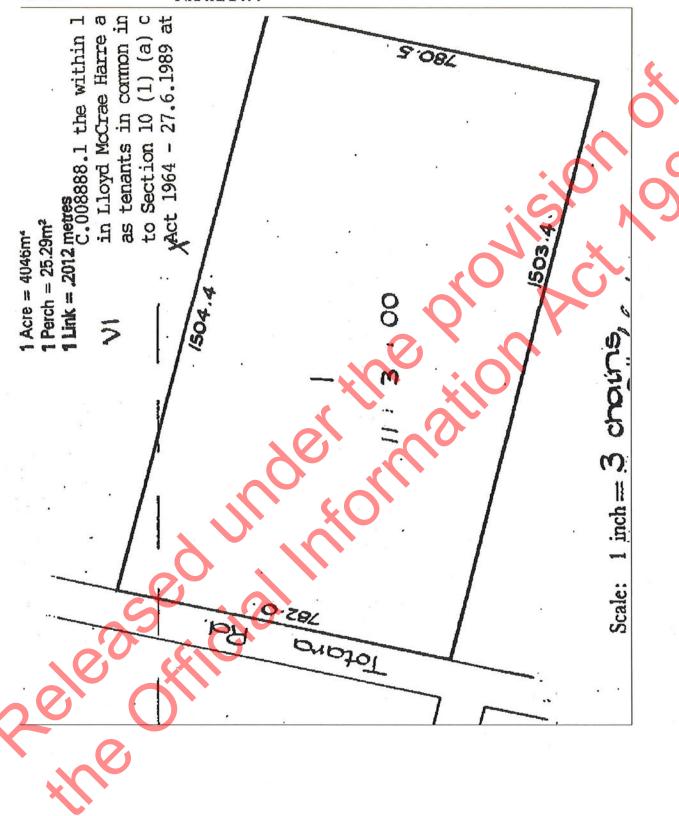
Legal Description Lot 1 Deposited Plan 53062

Registered Owners

Totara Gateway Trustee Limited as to a 1/2 share

Roderick McCrae Harre and Andrea Elizabeth Flora Harre as to a 1/2 share

Interests





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

NA4A/1477

Land Registration District North Auckland

29 July 1964

Prior References

NA1166/90

Estate

Fee Simple

Area

4.7551 hectares more or less

Legal Description Lot 1 Deposited Plan 53062

Original Registered Owners

Lloyd McCrae Harre as to a 1/2 share Lois Violet Harre as to a 1/2 share

Interests

9177796.1 Transmission of a 1/2 share/interest Lloyd McCrae Harre to Lois Violet Harre as Executor - 10.9.2012 at 8:28 am

10414652.1 Transfer of a 1/2 share/interest Lois Violet Harre to Totara Gateway Trustee Limited - 3.6.2016 at 2:23

11264700.1 Transmission of a 1/2 share/interest Lois Violet Harre as Executor to Roderick McCrae Harre as Executor, Andrea Elizabeth Flora Harre as Executor and Lisa Janine Roberts as Executor - 4.2.2019 at 4:12 pm

11264700.2 Transfer of a 1/2 share/interest Roderick McCrae Harre as Executor, Andrea Elizabeth Flora Harre as Executor and Lisa Janine Roberts as Executor to Roderick McCrae Harre and Andrea Elizabeth Flora Harre -4.2.2019 at 4:12 pm



Reference: Prior C/T.

1166/90

N/O. Order No.

'A 22681 Transfer No.



Land and Deeds 69

GISTER

CERTIFICATE OF TITLE UNDER LAND TRANSFER ACT

This Certificate dated the 29th day of July one thousand nine hundred and under the seal of the District Land Registrar of the Land Registration District of NORTH AUCKLAND

LOIS VIOLET HARRE wife of LLOYD McCRAE HARRE OF Whenuapai, WITNESSETH that

farmer

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 44 ACRES

3 ROODS more or less being Lot 1 Deposited Plan 53062 and being part

3 Parish of Waipareira.

610476.2 Settles

B. 772623.1 Mortgage Connett - 20.1.1 1397172.1

Waitemata S.D.

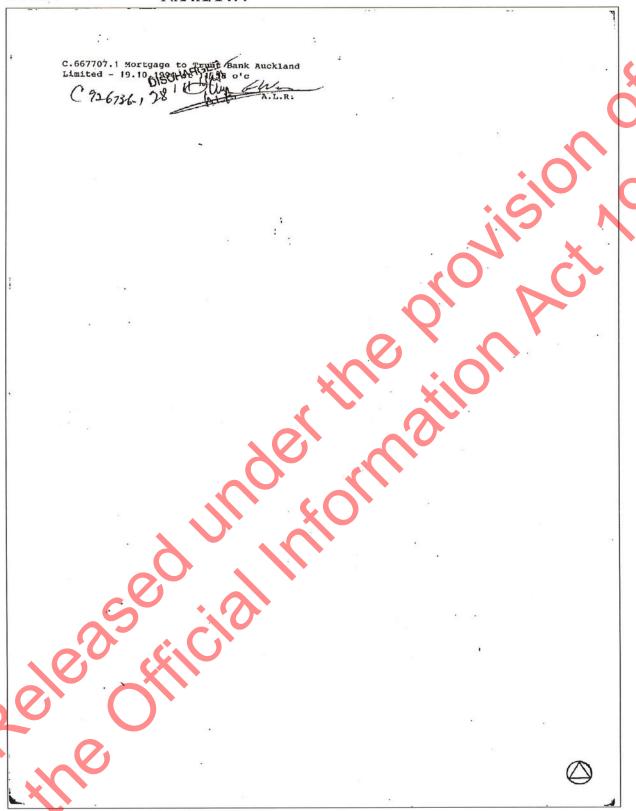
METRIC ARE

Perch = 25.29m2

Unk = 2012 meres
C-008888.1 the within land is now revested
in Lloyd McCrae Harre and Lois Violet Harre
as tenants in common in equal shares pursuant
to Section 10 (1) (a) of the Joint Family Homes
Act 1964 - 27.6.1989 at 9.00 o'c

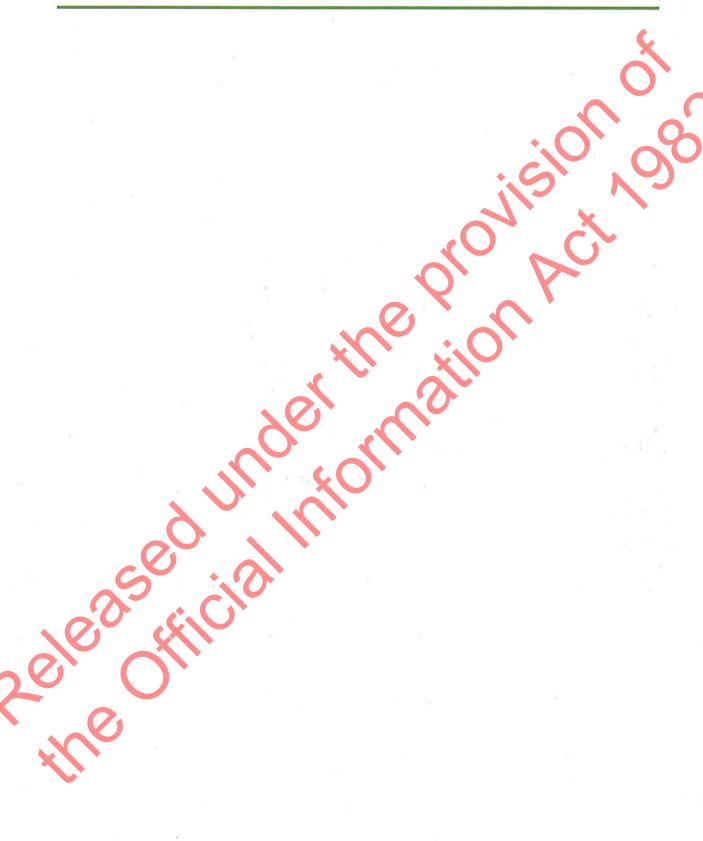
Scale: 1 inch = 3

Register cory for L. & D. 69, 71,72

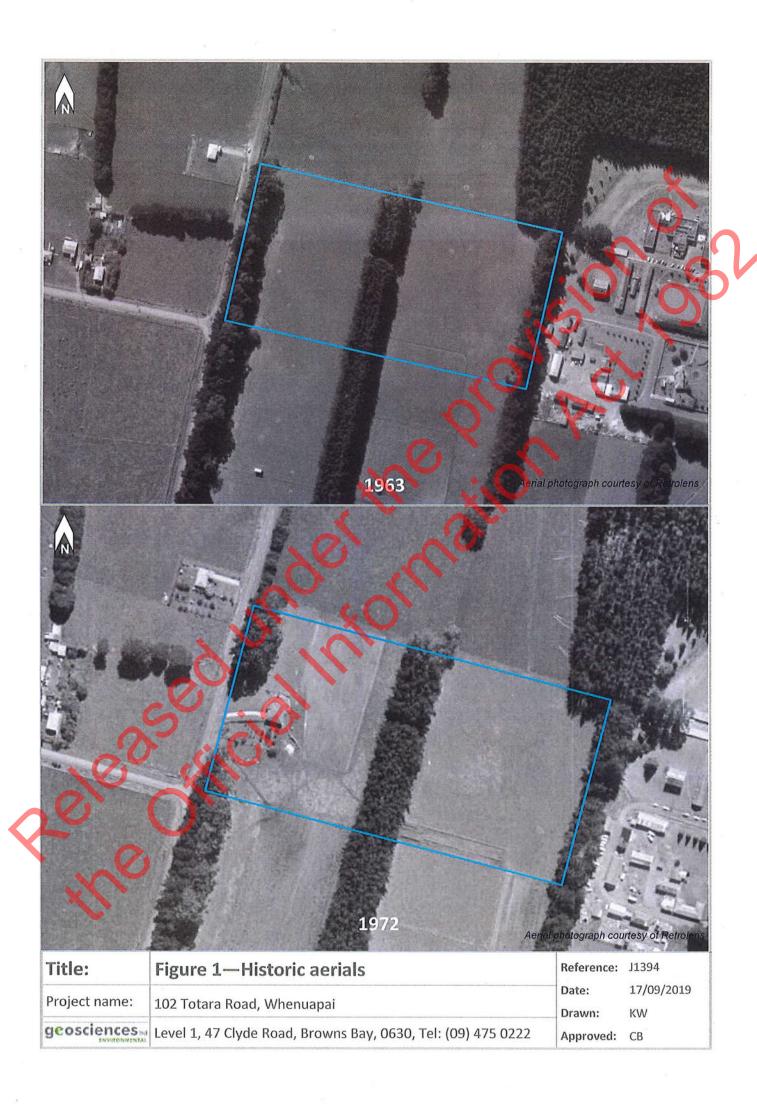


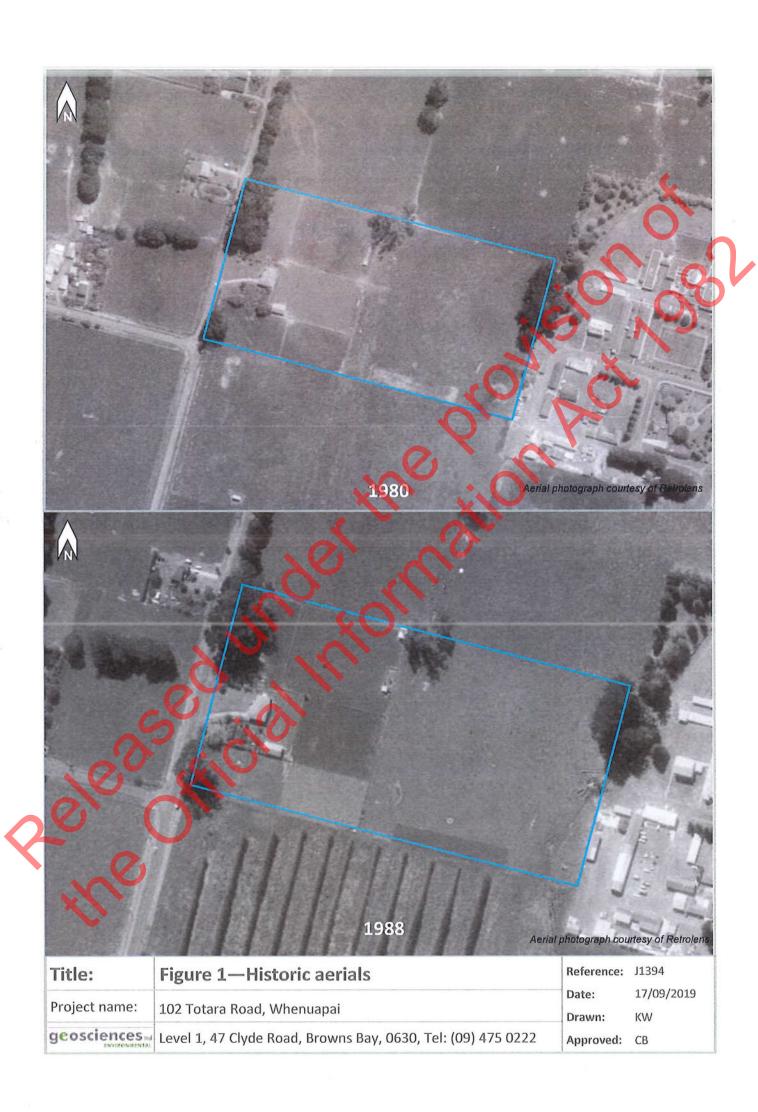
APPENDIX B

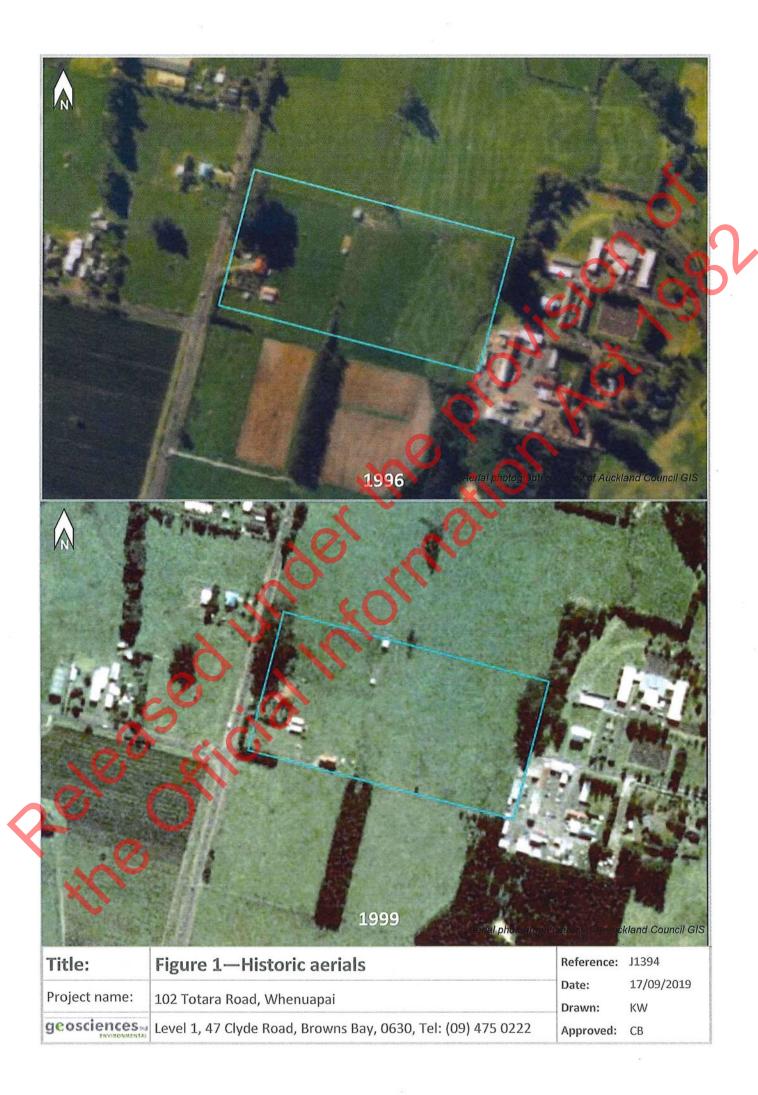
HISTORICAL AERIAL PHOTOGRAPHS

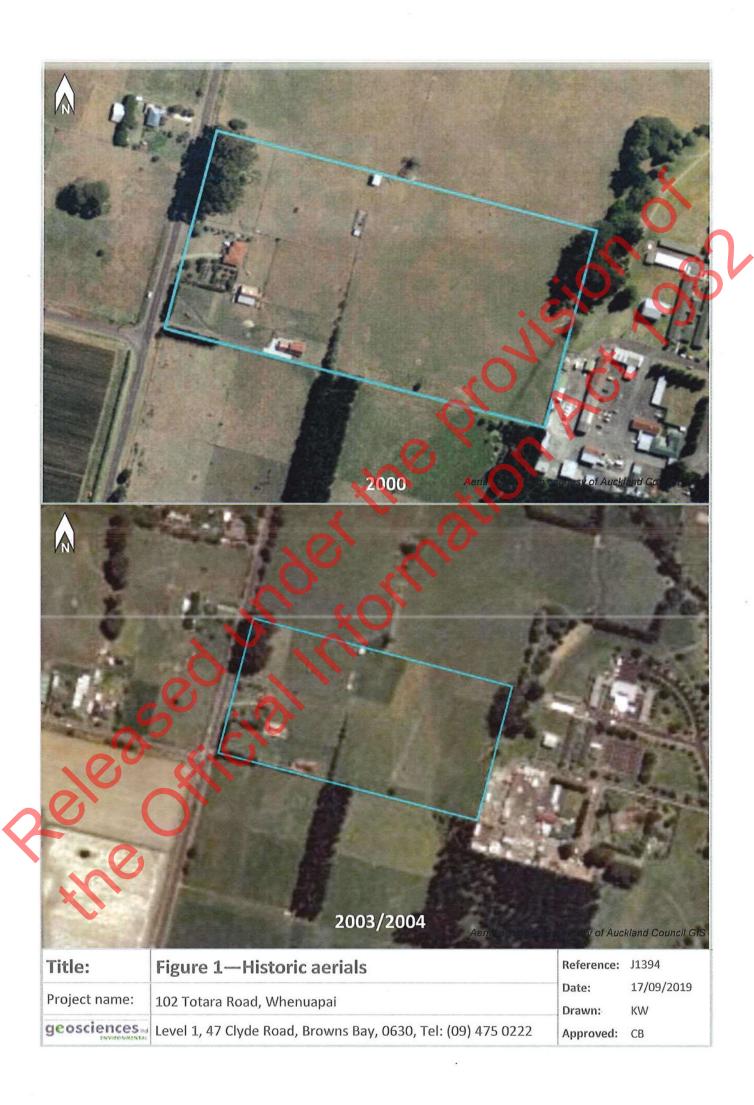




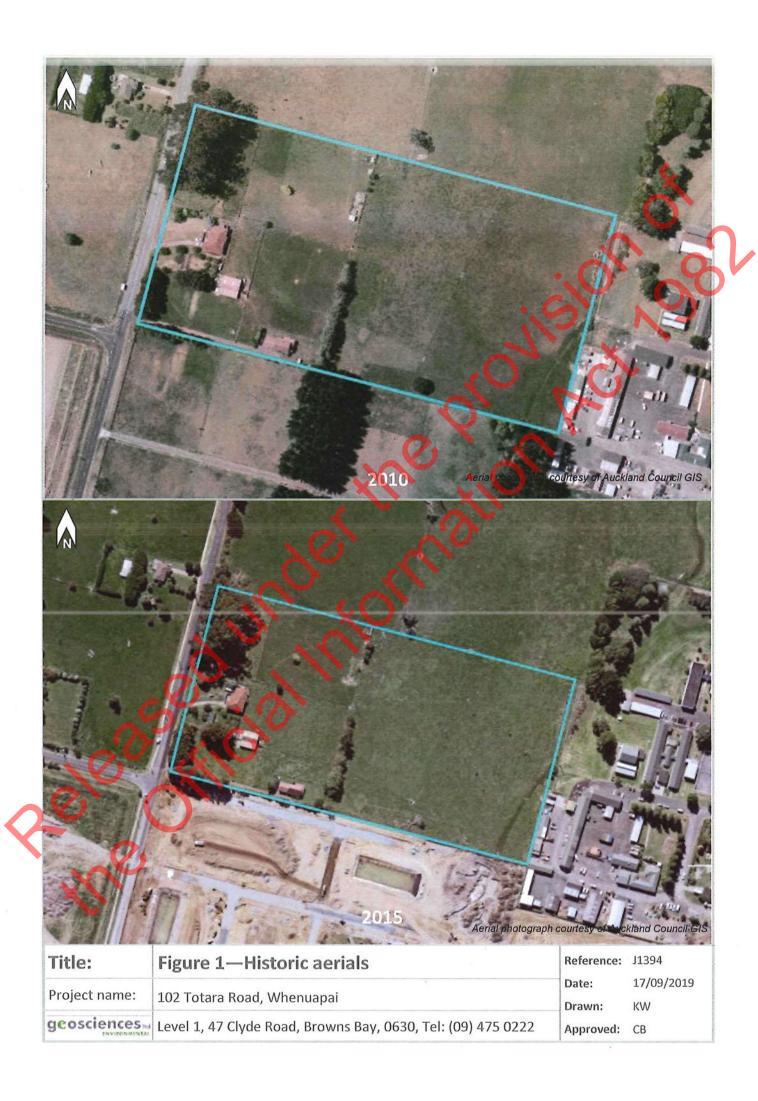














Aerial photograph courtesy of Auckland Council GIS

Title:	Figure 1—Historic aerials	Reference:	J1394
D I I		Date:	17/09/2019
Project name:	102 Totara Road, Whenuapai	Drawn:	KW
geosciences	Level 1, 47 Clyde Road, Browns Bay, 0630, Tel: (09) 475 0222	Approved:	СВ

PROPERTY FILE EXTRACTS

Released under the provision Act of A

Roll No. 278 201

County of Waitemata

Nº 4172

Date

BUILDING PERMIT

Owner of Section

L.V. HARRE.

Address

No. 2. R.D., Kumeu.

This Jermit is granted to the undermentioned person authorising the following building work on

Lot No. 4, D.P. 9166, Part of Allot. 3, Walpareles Parish.

on Boston Sounder, Road

Thomaspas

in accordance with the plans lodged and

subject to the following conditions:

10-12 Airport Road

Subject to the provisions of Sect. 22 (5) of the Counties Amendment Act, 1961.

Nature of proposed work

Duelling.

Herre and Silcon, 222 To Atatu Ross, Value of work, £ 1,950

Fee £48 : Rec. No.

·For the Waitemata County Council.

L. L. JONES

County Clerk.

per

County: Building Inspector.

UP 84945

APPLICATION No. 800//3 11. 12 1963 VALUATION Roll No 327/2/204/ DATE ISSUED WAITEMATA COUNTY Application for a Building Permit OWNER OF SECTION. NAME LOIS VIOLET HARRE PHONE No. 659 (BLOCK CAPITALS) WHENUADA PRESENT POSTAL ADDRESS NO 2 RD BUILDER NAME HARRE AND SILCOCK PHONE NO ATIO HND (Note:-Permit will be posted to builder unless otherwise requested). NATURE OF PROPOSED BUILDING WORK Joonstuction VALUE OF WORK £4950 FEE £18 FULL LEGAL DESCRIPTION OF SECTION (as appears on either rate demand or title deeds). OP 9146 PARTOK ALLOTO 3 Warparen NAME OF PREVIOUS OWNER OF SECTION DAMES NEIL ANDERSON AND LOIS VIOLET HARRE Acre(s). Frontage AREA OF SECTION. ROAD NAME WASTER IN BOOK LOCALITY WHENVAPAL HIV BOUNDAY S FOR OFFICE USE/ONLY Footpath-Deposit Paid By Permit issued subject to the following conditions: BUILDING INSPECTOR 10/12/63 DATE APPROVED By DRAINAGE INSPECTOR RECEIPT No. 1/06/ DATE ..

IN ACCORDING WITH
TOWN PLANTING SCHEME
SIGNED

SPECIFICATION

		FOUNDATIONS				
If solid concrete. Siz					1/2 MS R	
A concrete blocks. Si	ze /6x8 x8 VIBROF	PAK Spacing	· · · · ·		15	
N.B.—All blocks must						
		FRAMING				
<u>x</u> ×	Size	Spacing	Span	Timber		
Jack Studs		100, 400, 2320-03	ng Runs.			
(Note: If base over 6ft.	in height, Jack stude to be	Supported in	andera lo	ST TO XIO pill	lary	
Bearer Plates	9x2	IH"	/3'0"	TAN. PINUS		
Floor Joists	4×2	101				
Outer Studs		/8 '		4		
Inner Studs	4×2 -1 3×2	/8.4				
Ceiling Joists	4×2× 3×2			2 × 3×2		
Bottom Plates. Size.			ates. Size. 4X			
Noggins. Size 4.6. N.B.—Minimum stud		ACTION CONTRACTOR OF THE PROPERTY OF THE PROPE	r of rows of not	ggins3,		
						
DCaller	notes Tar	ROOF	Q		•	
Covering DECRO			XI TAN Pu			
Collar ties. Size	Size	Sarking. Sizc	Span	der Purlins 4X 3	! .	
Rafters	4×2	24	·	TAN PINUS		
		ISCĚLLANEOU		DIAL SERVERO	,	
				RICK, VENEER	•	
Inside lining Gub				No		
Is any second hand m	A STATE OF THE PARTY OF THE PAR		structionsr		•	
5 					100	
Privy Type W.C		SANITATION			•	
Privy Type e.g. Water closet, chemical pan or night soil? N.B.—If chemical pan or night soil pan, the privy building must be at least 15' away from any dwelling.						
			Lorenza	and and any		
200		VAGE & PLUM		7-17-19-19-19-19-19-19-19-19-19-19-19-19-19-		
All drainage and a septic tank, now or	plumbing must be ca in the future, the si					

Signature of Applicant

IT IS MOST IMPORTANT that buildings should not be occupied before complete plumbing and drainage systems have been installed and officially approved.

SITE PLAN

RESIDENTIAL SECTIONS

The site plan must be accurately drawn to the scale provided (16 feet to 1 inch).

ALL OTHER SECTIONS

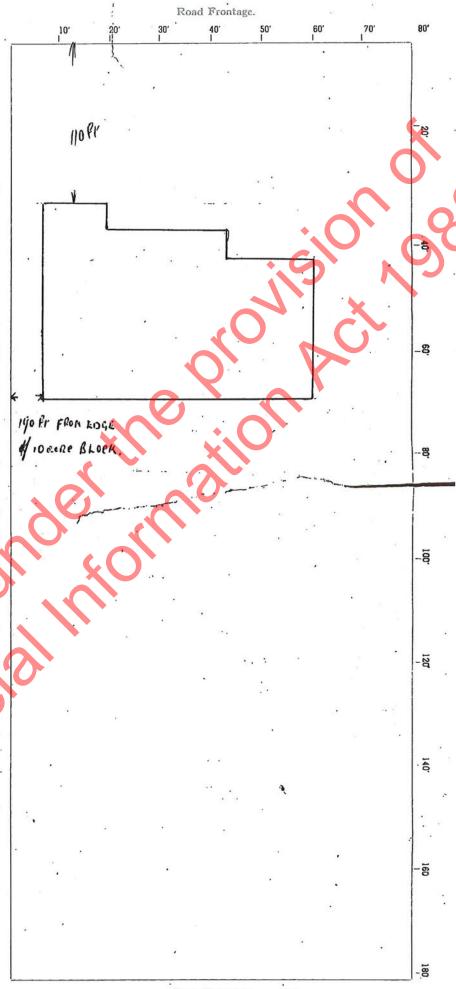
(including farms, etc.)

Please state scale used.

Note

- This site plan must show the desired position of the proposed building and also ALL existing buildings.
- Distances of each building from boundary lines must be clearly indicated.
- 3. No building shall be erected closer than 3 feet to a side boundary. This measurement is from the fascia board in the case of an overhanging roof.
- 4. Separate plans, drawn to scale (preferably ½" or ½" to 1'), must be submitted, showing a ground plan, and elevations of two sides. In cases of extensions to existing buildings, these plans should show the whole building, and the extension should be shaded or coloured.
- 5. Applications must be made in duplicate and two copies of the plan must be supplied if applying for a permit to erect a dwelling, bach or if any plumbing or drainage is to be installed.
- . Location plan must be com-. pleted.

PENCIL DRAWINGS WILL NOT BE ACCEPTED.



This and t	the succeedi	ng pages	form the	specifice	ation referred	to in our
Agreement	dated this	••••••		дау	of	1963.
EMPLOYER	******	••••••		•••••		

CONTRACTOR

WITNESS

SPECIFICATION of work to be done and materials to be used in the erection of a Residence at West Boundary Rd., Whemuapai.

CONTRACT.

This contract includes the supply and delivery of all materials, Labour, fittings, tools, plant etc. complete and necessary for the due and proper completion of the building as shown on the plans and herein specified in a thorough and workmanlike manner in strict accordance with the Local By-Laws and to the satisfaction of the Owner. No lower grade than 0.B. timber shall be allowed in any part of the work. All timber to be treated as to get the best results for both seasoning and straightness. All joints to be properly scarfed and checked or otherwise jointed in an approved manner and everything securely nailed. In exposed woodwork, all nails to be punched. All work to be fixed level, plumb and true and no butts will be allowed where same can be concealed. All exposed interior timbers to be hand dressed and sanded.

PERMITS:

Contractor to comply with the Labour and Building By-Laws of the District; to apply for and obtain all the necessary permits and to pay all fees for same.

PROVIDE & FIX:

The words "provide" and "fix" shall be construed to mean "provide and "fix" where used separately unless otherwise specified.

The Contractor to have all his employees covered against accident by an "Employer's Liability Policy" and to take out Insurance against fire for a sum sufficient to cover 7% of the contract sum. Both policies to remain in force until the building is taken over by the Owner. Fire insurance to be placed with a reputable Company.

SETTING OUT:

The Contractor will do all setting out, and be responsible for same.

MATERIALS
WORKMANSHIP:

All workmanship to be careful, thorough and in accordance with the best trade practice, and all materials must be of the best of their respective kinds, unless distinctly otherwise specified.

Workmanship shown on the plans or specified and not shown, must
be supplied as though shown and specified. Materials shown but
not specified must be of the kind commonly employed for the
service it is intended to perform. All materials to be new and
the best of their respective kinds. All figured dimensions
shall be taken in preference to scale and strictly adhered to,
and all detail drawings shall supersede these to a smaller
scale.

EXTRAS:

No extras will be allowed for unless authorised in writing by the Owner, and paid for as such.

STABILITY ETC. 8

The Contractor shall carefully brace and support all parts of his work against damage by wind and also protect same from damage by water. He shall also make good damage to adjoining property of every kind arising out of his works.

CLEANING:

The Contractor at the conclusion of the operations shall have all ceilings, walls and woodwork carefully dusted and wiped down, windows washed and glass left free from scratches, floors brushed and wiped and the entire building left in perfectly clean condition for openpation.

TURFING:

Area covered by house to be turfed and left clean of all stumps roots etc. and carted away on site where directed.

MAINTENANCE:

Period to be thirty days after the Owner has taken possession.

Any defects in materials, workmanship or any part or parts that require replacing or adjusting which have been included in this contract shall be adjusted or replaced as specified in this specification at the Contractor's own expense.

MATERIALS:

In the event of any materials herein specified not being procurable at the time it is required or will tend to stop the progress of the contract, such materials may be substituted with other materials, provided however, that the substituted materials conform with the Local By-Laws and to the wishes of the Owner whom the Contractor is to notify first. At the conclusion of the contract, the Contractor will adjust any difference in cost.

To be 8" Vibcorak block with 8" x 10" reinforced concrete band.

BASE WALLS:

Walls to be laid true to level in straight lines and plumb with mortar. Exterior of all blockwork to be plastered and splash coated. Clean out all cavities and flush all joints in the brickwork on the inside.

VENTS:

Provide concrete mouseproof vents spaced 3 ft. away from angles and approx. 6 ft. between.

FLOOR JOISTS:

To be 9 x 2 and gauged to an even surface and nailed with 3" and 4" nails to all bearers and plates. All joints to be lapped on a bearer.

BRICKLAYER AND CONCRETOR

CONCRETE:

All concrete work to be carried out according to the Local
By-Laws. For general purposes, the mixture shall be 4-2-1
metal, and sand and cement or 6 parts river shingle to 1 part
cement well mixed and rammed into trenches and boxing immediately
after mixing.

MORTAR:

To be composed of four parts clean, sharp and washed sand to one part Portland cement. Use Mortaflex at the rate of 1 gallon to 1 cubic foot of cement.

BRICKS

For all exterior walls and chimneys to be selected common Clemburn bricks or selected Tunnel kiln using Bullnosed bricks for external corners and window openings. All bricks to be well wetted and allowed to partially dry out before being laid. No bats will be allowed unless necessary for bond. Joints shall not exceed 5/16" in thickness and the work to be carried out regularly with no work rising more than one foot above existing work. All exterior joints to be well raked as work proceeds, and on completion of brickwork to be pointed with a mixture of 3 parts silica sand to 1 part coloured cement, using a 1/4" flat pointing tool. Colour of cement to be chosen by Owner. The whole of exterior brickwork on completion to be cleaned down with a weak solution of acid and left clean and tidy to Owner's satisfaction.

FOOTINGS:

The footings shall be 12 x 12 reinforced with four $\frac{1}{2}$ M.S. rods. The footings shall be horizontal on the bottom throughout and stepped to suit the nature of the ground.

DAMPCOURSE:

All timbers in contact with concrete or brickwork to have Malthoid under-

CHIMNEY:

Chimney to be precast concrete Petrous No. 1.

CHIMNEY FOOTING:

Chimney footings to be a concrete slab 6" wider each side of brickwork and reinforced with 3/8" M.S. rods at 12" centres.

To be 4" thick concrete with slight fall to front, reinforced with 3/8" M.S. rods at 9" centres both ways. Steps are to be

FRONT PORCH

6" risers 12" treads finished as per porch floor. Back porch

to be finished as for front porch.

LAUNDRY:

Provide one single 2 ft. concrete wash tub and fix on concrete stand.

CARPENTER AND JOINER.

ALL MATERIALS ARE TO BE THE BEST OF THEIR RESPECTIVE KINDS AND
GRADES AND LAID TRUE TO THEIR VARIOUS LEVELS AND CONSTRUCTED IN
A PROPER TRADESMANLIKE MANNER TO MAKE THE WHOLE OF THE WORKS
SOUND CONSTRUCTION AND TO COMPLY WITH THE LOCAL BY-LAWS IN EVERY
RESPECT AND TO THE ENTIRE SATISFACTION OF THE BUILDING INSPECTOR.

JOINERY.

all exterior door and window frames to be as shown in plans, to be growed, treated and constructed in a proper manner and primed before fixing. Exterior door frames to be fitted with 3/8" galv. weather bar in sills.

SASHES:

All sashes and famlights to be cedar or totara to the sizes as shown on plan and details. All sashes to be neatly fitted and hung with Whitoo fittings. Allow for split sashes where shown on plans. All sashes except where otherwise mentioned to be glazed with 18 oz. clear glass. Landscape sashes to be glazed with drawn plate or 3203 glass. Bathroom and W.C. sash will be glazed obscure to Owner's choice.

All interior doors except where otherwise mentioned to be 6'6 $\times 2^{18} \times 1^{3}_{-4}$ H.T.R. flush panel hung on three 3^{1}_{-2} steel butts. Front door and back door to be glass doors, $2^{\circ}10^{\circ}$ wide $\times 1^{5}_{-4}$ ht. Totara H & P hung on three 4" butt hinges. Wardrobes and linen press doors to be 6'6 $\times 2^{\circ}$ approx. and same pattern as interior doors, hung on three 3^{1}_{-2} " butt hinges. Kitchen supboard doors to be flush panel to the dimensions required and hung on 2^{1}_{-4} A.C. hinges and fitted with handles and catches complete, to the Owner's choice.

DOORS:

CITY OF WAITEMATA

Roll No. / 32740/358/2

BUILDING PERMIT

Owner of Section

HARRIE. L.M.

Address

Totara Md, Whennapai.

Nº 12461

Date 24th July 1979

THIS PERMIT is granted to the undermentioned person authorising the following building work on Lot No. 1 D.P. 53062

on

102-104 Totara Ild, Ihenuapai.

in accordance with the plans lodged and

subject to the following conditions:1) Spouting, downpipes and stormwater drainage to be provided to the approval of the Inspector. 2) To notations on plans.

Nature of proposed work

TRACTOR SEED.

Value of work, \$3,500

Fee \$ 23 0: 0 Rec. No. J7 18/6/79

For the Waitemata City Council

Duly Authorised Officer.

D.M. HAHRE, 35 Toru St. TH ATATU NORTH

FOR FURTHER CONDITIONS SEE OVER

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Building Inspec	ed. Date Insp. Intla.	70
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Final	nspection 15/7/8/	
	a 755 Inspe	ector
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Register Noted		
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Oity of Mailmata

JOHN HENRY CENTRE 6 PIONEER ST. HENDERSON AUCKLAND 8.

Tricphone HSN 61-195, 61-119
PRIVATE BAG, HENDERSON
AUCKLAND E.

ADDRESS ALL CORRESPONDENCE TO THE CITY SECRETARY

JPB: AR

9 February 1981

Mr R M Harre 35 Toru Street TE ATATU

Dear Sir,

RE: BUILDING PERMIT 12461 - Tractor Shed on Lot 1 DP 53062 TOTARA ROAD, WHENUAPAI

In connection with the above building permit, I would advise that an inspection of the property on 9.2.81 has revealed that the following points require attention before the file can be finalised and the ruad damage deposit refunded:-

STORMWATER DRAINAGE TO BE PROVIDED TO THE APPROVAL OF THE INSPECTOR

Once the above work has been completed, you are requested to contact the Building Inspector at the above address on any week day between the hours of 8.30 and 9.45a.m. so that a further inspection can be arranged.

Yours tarehfully,

J.P. BRABBS for CITY INSPECTOR

Copy sent to: Mr L M Harre

102-104 Totara Road WHENUAPAI

Work not done. mos \$ Discusses mich

muso Hame. Bly in normal manner

without writing

- Cay 8/4/81

15/7/81

CITY OF WAITEMATA

Roll No.

32740/358/2 .

BUILDING PERMIT

Owner of Section

Address

HARRE. L.M.

Totara Rd. Whomapai.

Nº 12461

Date 24th July 1979

THIS PERMIT is granted to the undermentioned person authorising the following building work on Lot No. 1 D.F. 33062

on 102-104

Totara Rd. Mhemuapal.

in accordance with the plans lodged and

subject to the following conditions:1) Sponting, descriptes and stormsater drainage to be provided to the approval of the Inspector. 2) To notations on plans.

Nature of proposed work

TRACTOR SHED.

Value of work, \$3,500

Fee \$ 23 0: 0 Rec. No. 37 18/6/79

For the Waitemata City Council

Duly Authorised Officer.

A =

R.M. HARRE.

35 Toru St.

Unity Press 50659/79

		36
APPLICATION No. 25//12	PERMIT No	
FINAL CHECK Initials	DATE ISSUED	HEAD OF THE DATE STAMP
23/	Authorised Officer	
Date		7 Porting Es
	VAITEMATA	RECEIVED A
	ONEER STREET, HENDERSON DERSON 8 — PHONE: HSN 61-195 and 61-119	Waitemato [2]
	ENT ON GROUND FLOOR	City Council Inspectors Dept.
DI III DINIC DEDI	AIT ADDITION	TUITE
	MIT APPLICATION	
OWNER OF SECTION: NAME		PHONE No. WEI SC59
	TARA RD. WHE	
	HARRE	
POSTAL ADDRESS	ORU ST TE PTE	TUNTH
SIGNATURE OF APPLICANT	R m Harre	
NATURE OF PROPOSED BUILDING WORK	VALUE OF WORK	FLOOR AREA OF PROPOSED WORK
TRACTOR SHED	Building (including the materials for Plumbing & Drainage) \$.3500.	Basement
).	*Drainage (excluding materials) \$	Ground Floor72. Sq.,150
3	*Plumbing (excluding materials) \$	First Floor
VALUATION ROLL NO.	•Building Permit Fee \$.23.00. •Separate permits to be obtained by Drainlayer and	Others
32740, 358 , 2	Plumber. •Fee to: be assessed on value of work excluding.	Total T2 Sq. M
FULL LEGAL DESCRIPTION OF	amount upon which Drainage and Plumbing Fees payable and may be paid at time of lodging appli-	Building Research Act 1969
THE PROPERTY (as per Rate Demand or Title Deeds)	cation.	LEVY ON TOTAL VALUE OF \$3,000 OR MORE INCLUDING DRAINAGE
LOT	†A further 25% is payable on this fee where struc- tural check is required.	AND PLUMBING WORK Fee: \$1.00 per \$1000 or part thereof
DR 53062		Amount of Levy
D.P. 53062		Amount of Levy Receipt No. 4.00
		Amount of Levy
NAME OF PREVIOUS OWNER OF SE		Amount of Levy Receipt No. Date 18/6/79
NAME OF PREVIOUS OWNER OF SEAREA OF SECTION:	1 Ha square metres FRONT	Amount of Levy Receipt No. Date 37 18/6/29 AGE: metres
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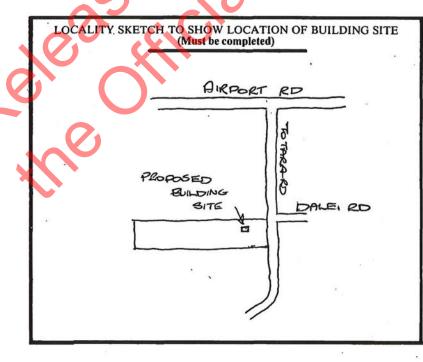
· .:

d. --

PLEASE REFER TO INSTRUCTIONS ON PAGE FIVE

SPECIFICATION TO BE COMPLETED BELOW FOR MINOR BUILDINGS (Full specifications are required for all other work)

		FOUNDA	ATIONS			1
If solid concrete.	Size of footings	300 x 300 nm	Walls2000	Re	inforcingD.12.	<i>.</i> .}
If concrete blocks.	Size		Spacing			
N.B. — All blocks	must be at least 300m	nm into ground and set	on a 300mm x 300)mm x 100mm	concrete pad.	i
		FRAM	IING	8		
	Size	Spacing	Span		Timber	
Jack Studs	100150	600 mm	•		No 1 M	<u>(</u>
Bearer Plates	100x 75				NOT MG	7
Floor Joists	150 x 50	450 mm	2.70	m •	Not mo	2 1
Outer Studs	100x50.	600 m			Not W	6
Inner Studs	100×50	600 mm		10	"	.]
Ceiling Joists						
Bottom Plates Siz	e190x.50	```		Top Plates	Size 100% 50	2\
Noggins Siz	e		lumber of rows of	noggins	2 Rous	
N.B. (a) Minimum (b) Top wind	n stud height for dwell low trimmers must be	ings is 2.4m. checked 15mm or othe	- - 	7		
CoveringZ4	GALV. I	RON	Ridges Size	Pt	urlins Size	
TRUSSES	Size	Spacing	S	pan	Timber	
Rafters	100×50	290 m	. 6.	20m	NOI MG RA	AD.
	0 × 25 R/S	MISCELLA TAN RAD E		25mm T BOARD	AN RIS RAI	>
Is any second-hand	material to be used in	the proposed Constr accompany	uction? No this form.	If YES, then	a separate application	n must
Privy Type	0	SANITA		hemical pan or	other type?	
		X				



DRAINAGE AND PLUMBING

ALL DRAINAGE AND PLUMBING MUST BE CARRIED OUT BY REGISTERED TRADESMEN. IF IT IS INTENDED TO INSTALL A SEPTIC TANK, NOW OR IN THE FUTURE, THE SITE MUST BE INSPECTED BY THE INSPECTOR BEFORE BUILDING IS COMMENCED.

IT IS MOST IMPORTANT THAT BUILDINGS SHOULD NOT BE OCCUPIED BEFORE COMPLETE PLUMBING AND DRAINAGE SYSTEMS HAVE BEEN INSTALLED AND OFFICIALLY APPROVED.

PLUMBING AND DRAINAGE PERMITS MUST BE OBTAINED BEFORE ANY PLUMBING OR DRAINAGE WORK IS COM-MENCED.

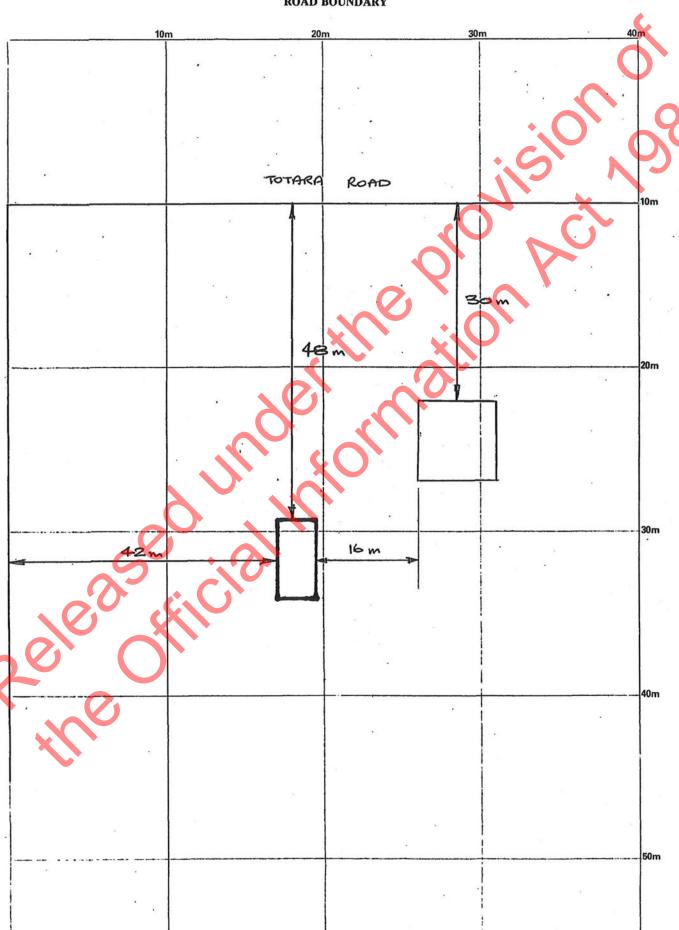
PLEASE REFER TO INSTRUCTIONS ON PAGE FIVE

- SITE PLAN: (a) All existing buildings are to be shown in black ink and new buildings in red.
 (b) For residential sections the site plan must be accurately drawn to the scale provided. 1:200 (i.e., one square equals one metre).

 (c) All other sections (including farms, etc), please state scale used.

 (d) All dimensions MUST be specified.

ROAD BOUNDARY



FOR OFFICE USE ONLY

Released under the provision Act 1982 the Official Information

REPORT ON COMMERCIAL OR INDUSTRIAL BUILDING STRUCTURAL ENGINEER'S REPORT

REPORT C (1)

B.P. APPLICATION NO. 251/12

	APPLICANT'S NAME:	L.M. HARRE
	BUILDER'S NAME:	R.M. HARRE
	PROPOSAL:	TRACTOR SHED
	LEGAL DESCRIPTION:	LOT: D.P. 53062
	ROAD NAME & LOCALITY:	TOTARA RD WHENUAPAL
20	ords/pads: BE MADE (OR SUPP list clearly, an	CALCULATIONS & STRUCTURAL CHECK ENDMENTS, ALTERATIONS OR ADDITIONAL INFORMATION MUST LIED), BEFORE APPROVAL CAN BE CONSIDERED: (Please d date and sign requirements):-
	4-averganned bearer (Seeflow A	(-n),
		4/0 (0)
*	to my satisfaction	ed in (1) above (when applicable), have been settled on and I recommend that the application be APPROVED ollowing conditions:-
	EXTRA N	LOTES AS SHOWN.
6 8	*(b) I/recommend that teasons:	the application be NOT APPROVED for the following
	KICI	
20/	Dealth with by	Date 11/7/19
Y 0	(STRUCT	TURAL ENGINEER)



City of Maitemata

JOHN HENRY CENTRE 6 PIONEER ST. HENDERSON AUCKLAND 8

Telephone HSN 61-195, 61-119 PRIVATE BAG, HENDERSON AUCKLAND 8.

ADDRESS ALL CORRESPONDENCE TO THE CITY SECRETARY

JPB: YMM

13 July 1979

Mr.R.M.Harre, 35 Toru St, TE ATATU NORTH.

Dear Sir, A

RE: BUILDING PERMIT APPLICATION 251/12 - Tractor Shed on Lot 1 DP 53062 Totara Road, Whenuapai.

In connection with the above building permit application, you are advised that a structural checking fee of \$5.75 is required.

Please forward your remittance with the duplicate copy of this letter direct to the writer at the above address so that your application can be finalised.

Yours faithfully,

J.P. BRABBS

for CITY INSPECTOR

e160. R

1 a JUL 1979

OF WAITEMATA

PRIVATE BAG HENDERSON, 8

This receipt is **NOT** a permit. No work is to be executed until a **PERMIT** is **OBTAINED.**

Received from
K. Mc Marze
Details of payment.
BPG0! 251/12.
02-051-22 Building Permit Fee
02-052-22 Plumbing & Drainage Permit
03-955-22 Structural Checking Fee
82-22 Private Crossing
- 653-22 Footpath Damage Deposit
656-22 Building Research Levy
TOTAL \$ 5. 25
CASH
CHEQUE , only.
Receiptple acknowledged of amount price
CITY TREASURED O.D.

City of Mailmata

JOHN HENRY CENTRE 6 PIONEER ST. HENDERSON AUCKLAND 8.

Telephone HSN 61-195, 61-119
PRIVATE BAG, HENDERSON
AUCKLAND 8.

ADDRESS ALL CORRESPONDENCE

TO THE CITY SECRETARY

9/2/81

mr R. m. Hane,

35 Jour 84

Te atater.

Dear Sir,

RE: BUILDING PERMIT 12461 - Iractor Ship on Lat 1 DP 53062 Intera Rd Whomspai.

In connection with the above building permit, I would advise that an inspection of the property on 4/2/8! has revealed that the following points require attention before the file can be finalised and the read damage deposit refunded:

STORMWATER DRAINAGE TO BE PROVIDED TO THE APPROVAL OF THE INSPECTOR

Once the above work has been completed, you are requested to contact the Building Inspector at the above address on any week day between the hours of 8.30 and 9.45 m. so that a further inspection can be arranged.

Yours faithfully,

J. P. BRABBS

for CITY INSPECTOR

Copy sent to:

ms L. m. Harre 102-104 Jotara Rol Whenushai.

~

MONITORING CHECK SHEET

Consent Number: 981696

Propertry ID: 00 10 53062 492

Property Location: 102 Totara Rd, Whenupai

Legal Description: Lot 1 OP 53062

Inspection date: 7/05/01

Compliance Y/N:

Comments:

All conditions have gen met.

Reinspection date 2:

Comments:

Reinspection date 3

Comments:

Legal action initiated :

Final clearance: 07/05/0/

98/4205

\$ \$ por 45/200

Job no. 98135

27 September 1999

Mr R Harre 102 Totara Rd Whenuapai AUCKLAND

Dear Sir,





FOR MINOR DWELLING AT 102 TOTARA RD, WHENUAPAI

As required by council, we have visited the above mentioned property and observed the effluent disposal system that has been constructed.

We note that the system that was installed was not a Reflection Nibbler Jnr System as specified in our report Job no. 98135/1 dated 21 September 1999. An Oasis Clearwater series 2000 has instead been installed.

Based on the information provided by the manufacturer we believe that the Oasis Clearwater series 2000 system should perform quite suitably for your purposes. Please refer to the asbuilt plan supplied by the Contractor for the layout of the system.

We were unable to observe the system in its entirety but discussions with the Contractor suggest that the system has been competently constructed. At the time of our visit the system was complete and we understand that it has been functioning satisfactorily.

We are satisfied on reasonable grounds that the treatment system and disposal field have been installed generally in accordance with normal acceptable practice for this type of system and the relevant recommendations given in our above mentioned report but noting that the system has been substituted by a Oasis Clearwater series 2000 system.

Note that this letter does not certify that the treatment plant itself is as per the manufacturers design.

We trust the above is satisfactory for your present requirements. If we can be of further assistance, please do not hesitate to contact us.

Yours faithfully,
DIPROSE CONSULTANTS LTD

P L Diprose BE (Hons), MIPENZ, Registered Engineer



21 September 1998

3

LOIS VIOLET HARRE 102 TOTARA RD WHENUAPAI WAITAKERE CITY 1250 Waitakere City Council Civic Centre 6 Waipareira Ave Waitakere City

Private Bag 93109

Henderson Waitakere City 09 836 8000 Facsimile 09 836 8001

Telephone

DX CX 10250 Auckland Mail Centre Email: info@waitakere.govt.nz

Dear Sir/Madam

Resource Consent Application Number RMA981696 Location: 102-104 TOTARA RD, WHENUAPAI, WAITAKERE CITY 1008.

I am pleased to advise that your Resource Consent (Planning) application has been considered and consent has been granted pursuant to sections 94, 104, 105, and 108 of the Resource Management Act 1991.

The report considering your application and the decision which has been made is attached. The conditions must be met for your consent to be valid.

Please note also that you must establish the activity within two years. If that does not happen the consent lapses and you may need to apply for an extension or a new consent.

If you are dissatisfied with the decision or conditions of consent you have an opportunity to object to the Council. If you want to do this you will need to write a letter outlining your concerns. You should refer to section 357 of the Resource Management Act 1991 which covers objections to decisions (see the guideline attached). Any objections must be made in writing within 15 working days of your receipt of this letter.

Please contact MATT HEALE of the Resource Management Section (extn 8621) if you have any general queries about the enclosed report or decision.

If you are dissatisfied with the decision and are considering lodging an objection you may wish to discuss the matter first with Peter Reaburn, Planning Manager (836-8014).

Yours faithfully

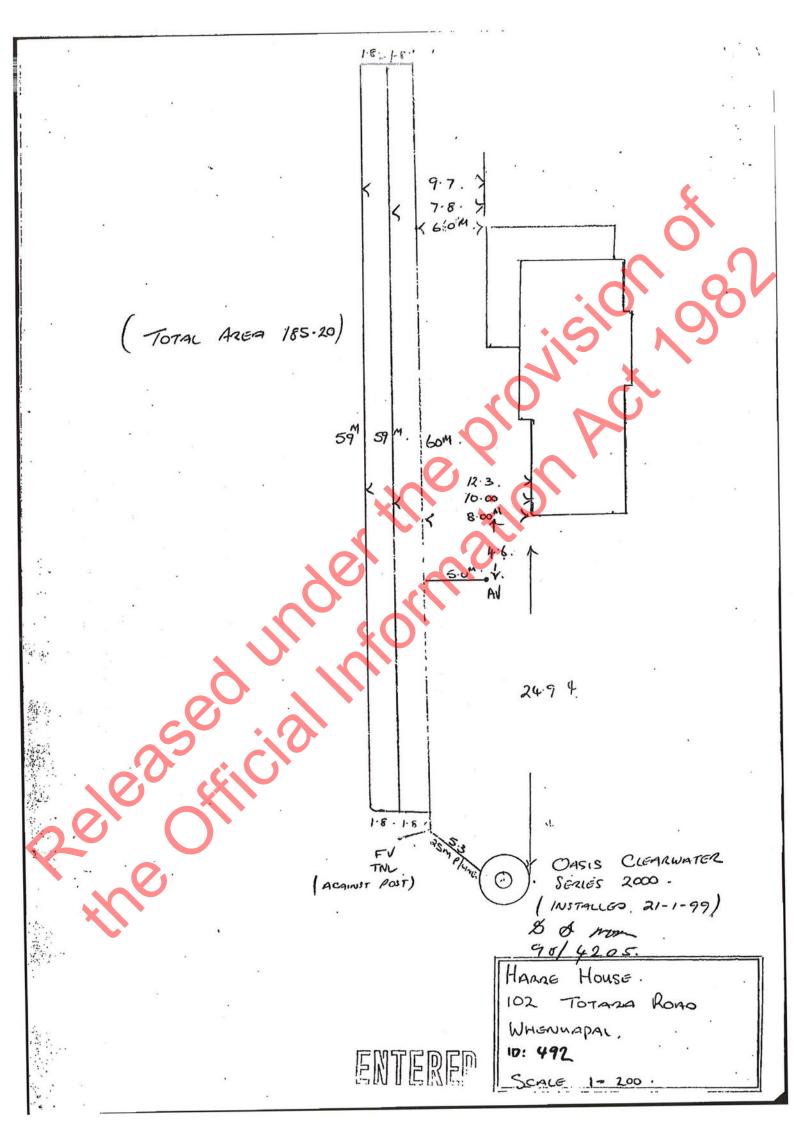
Peter Reaburn

PLANNING MANAGER

AS BUILT DRAINAGE PLAN WAITERED

Waitakere City Council

	Land Mark Trans. Land Control	* \$15 (\$1.4.5.10° (\$4.7750)		TC TUTTO	or o	
	SITE INFORMATION					
	Building Consent No: 9800 Owners Name: HARAE	4205	Inspector: 🐰 🔥			
	Owners Name: HARME	<u>; </u>	Drainlayers Name: M	ARK WINS	Scow	
	Site Address: 102 707		MEN			
	Lot: DP: 530		Date inspected: 2 o	16/00		10
					The state of the s	
	Drainage plans are required for to be completed accurately dra	wn in ink to a scale of	of 1:200 and must show	clearly the street	et boundary, pro	perty
	boundaries, outline of the buildir used if it is different than 1:20	ngs as well as the layou	it of ALL drains and inspet this as built plan is cor	ection fillings. Plean	ase indicate the the the inspection of	scale of the
	drainage work. Failure to comply	may delay the approv	al of your work.	25m	30m	35m
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DRAINAGE 1 LTD

REGISTERED DRAINLAYERS

FREEPHONE 0800 888 248, PO BOX 626 OREWA GST Number: 90-024-272



FIELD SERVICE REPORT/TAX INVOICE

s 1384

	40 C
NAME: Lloyd Harra	PHONE/CONTACT NUMBER: 416 86519
SITE ADDRESS: 102 Totara Rd	Whenuapai
POSTAL ADDRESS:	
COUNCIL: Whitakere DATE LAST SERVICED	12 08 DATE THIS SERVICE: 2 7 09
Your Oasis Clearwater Home Sewage Treatment Plant was serviced and Insp	ected on the date shown above. The results are as follows:
Control Panel Mode Lights	Lids and Manholes 3 Need new polts.
Control Panel Audible Alarm	Bio Mass 5
Field Isolator Switch 5	Sludge Buildup 5
Effluent Pump	Sludge Recycle Pump
Aerator Noisy + Mr Lanking	Clarifier 3
Zabel Filter	Arkel Filter
Irrigation area evidence of run off or water logging? (1) Normal Area (2) Re	5=Excellent 1=Poor
NOTES System has recently	been flooded causing sludge
to get in pump chamber;	Need to clean Filler
monthly to prevent flood	ing.
Dasis Contact number: (03)	3440262 or Ross Bicknell
.WARNING: Correct landscaping around your unit is essential. Warranty of mecha	inical and electrical equipment is void if flooding occurs. 02/943 001



DRAINAGE 1 LTD

REGISTERED DRAINLAYERS FREEPHONE 0800 888 248, PO BOX 626 OREWA GST Number: 90-024-272



FIELD SERVICE REPORT/TAX INVOICE S 1237

NAME:	Hacre	PHONE	CONTACT NUMBER: 4/6	8659
SITE ADDRESS: 100	2 Totari	Rd. When	Vapai	
POSTAL ADDRESS:				
COUNCIL: Waitak	212 DATE LAST SERV	VICED: 29 5 08	DATE THIS SERVICE: \	12:08
1	Sewage Treatment Plant was serviced	and inspected on the date shown a		ŀ
Control Panel Mode Lights	CONDITION " REMARKS	Lids and Manholes	CONDITION REMARKS	
Control Panel Audible Alarm	No Sound	Blo Mass	5	
Field Isolator Switch	5	Sludge Buildup	5	1
Effluent Pump Aerator	4	Sludge Recycle Pump	5	
Zabel Filter	8)	Arkel Filter	5	
Irrigation area evidence of run	5-Excellent 1=Poor off or water looging? (1) Normal Area	a (2) Reduced Area Yes./ No	5=Excellent 1=Poor	*
NOTES		4		
20, (
				
				<u>i</u>



DRAINAGE 1 LTD

REGISTERED DRAINLAYERS

FREEPHONE 0800 888 248, PO BOX 626 OREWA GST Number: 90-024-272



FIELD SERVICE REPORT/TAX INVOICE 3 1095

NAME: Lloyd Harre	. PHON	E/CONTACT NUMBER: 416 8659
SITE ADDRESS: 102 Totara R	1 (nuapai
POSTAL ADDRESS:		
COUNCIL: Waitakere DATE LAST SERVICE	Wor on K/W	DATE THIS SERVICE: 29. 5 08
Your Oasis Clearwater Home Sewage Treatment Plant was serviced and in	nspected on the date shown	above. The results are as follows:
CONDITION REMARKS		CONDITION REMARKS
Control Panel Mode Lights	Lids and Manholes	4
Control Panel Audible Alarm	Bio Mass	3
Fleld Isolator Switch 5	Sludge Buildup	3
Effluent Pump	Sludge Recycle Pump	5
Aerator	Clarifier	5
Zabel Filter	Arkel Filter	.5
5=Excellent 1=Poor	*	5=Excellent 1=Poor
Irrigation area evidence of run off or water logging? (1) Normal Area (2)	Reduced Area Yes / No	,
NOTES francis chambe	r needs	emptying:
		1 1, 1
Kaum, blocked at	far ur	d, duy up and.
rupa, red.		- J /
	E	
WARNING: Correct landscaping around your unit is assential. Warranty of med	hanical and electrical equion	ant is void if flooding accurs

APPENDIX D

SITE PHOTOGRAPHS



PLATE 1: ACCESS TO MAIN DWELLING FROM TOTARA ROAD



PLATE 2: ORIGINAL DWELLING VIEWED FROM TOTARA ROAD



PLATE 3: EASTERN SIDE OF THE ORIGINAL DWELLING



PLATE 4: BREATHER VALVE FOR SEPTIC TANK ASSOCIATED WITH THE ORIGINAL DWELLING



PLATE 5: CHICKEN SHEDS TO THE NORTHWEST OF THE DWELLING



PLATE 6: PENS SURROUNDING THE BARN / TRACTOR SHED



PLATE 7: INTERIOR OF BARN / TRACTOR SHED



PLATE 8: RESIDUAL TREE STUMPS FROM FORMER SHLETERBELT

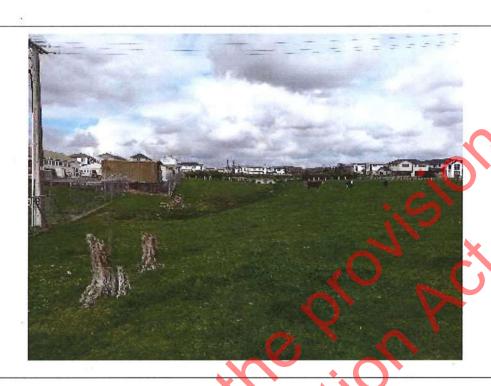


PLATE 7: STORMWATER FLOWPATH IN SOUTHEAST CORNER OF SITE, ADJACENT TO AIRBASE



PLATE 8: MINOR DWELLING ON SOUTHERN BOUNDARY



PLATE 7: MINOR DWELLING



PLATE 8: PORTACOM SITUATED ON PADDOCK TO THE SOUTH OF RESIDENTIAL DWELLING AND BARN



PLATE 7: LOOKING EAST OVER DOMESTIC FRUIT TREES AND GRAPE VINE SHADEHOUSE



PLATE 8: SHADE HOUSE / PERGOLA FOR GRAPEVINES



9 May 2018 (Revised 10 November 2021)

Maraetai Land Development C/- Neil Construction Limited PO Box 8751 Symonds Street Auckland 1150

Attention:

David Page

Land Manager

Dear David,

RE: Preliminary Site Investigation of 98-100 Totara Road, Whenuapai

Geosciences Ltd (GSL), has conducted a preliminary site investigation (PSI) of the property located at 98-100 Totara Road, Whenuapai in accordance with GSL proposal ref: *Pro 1489/Apr18* dated 24 April 2018. The property is legally described as Lot 2 DP 81411, comprises an area of 11.61 Ha and is hereafter referred to as 'the site' in this report.

Ref: Ltr-1173/PSI/May18(Rev1)

The primary purpose of this investigation is to assess the likelihood of any potential contamination issues being present on site, and the resulting applicability of the National Environmental Standards for Assessing and Managing Contaminants in Soil to Protect Human Health (NES).

1 BACKGROUND

The site is currently a rural residential lot comprising of a residential dwelling in the northern corner of the site, while the remaining area of the site is vacant pasture utilised for the grazing of cattle. The landuse is consistent with the surrounding area, which has a mixture of rural and rural-residential properties nestled in and around the Whenuapai NZ Air Force base located approximately 1 km to the east of the site. GSL understands that the site has been identified for future residential development.

The National Environmental Standards for Assessing and Managing Contaminants in Soil to Protect Human Health (NES) (Ministry for the Environment (MfE), 2012) ensures that land affected by contaminants in soil is appropriately identified and assessed. When soil disturbance, change in landuse, or subdivision activities take place it should be, if necessary remediated or the contaminants contained to make the land safe for the intended landuse.

Under the NES, land is considered to be actually or potentially contaminated if an activity or industry on the MfE Hazardous Activities and Industries List (HAIL) has been, is, or is more likely than not to have been undertaken on the land under investigation. Consequently, any change in landuse, subdivision or development required a preliminary site investigation (PSI) of the land to determine whether or not any risk to human health exists as a result of any current or former activities that are occurring, or may have occurred, on that land.



GSL understands that the site has been secured by Maraetai Land Development with the intention of developing the land at some stage in the future. Maraetai Land Development engaged GSL to undertake a preliminary site investigation of the site to comment on the likely contamination risks associated with the property and determine whether or not the provisions of the NES are likely to apply to the site, or portions thereof.

2 SCOPE OF WORKS

This preliminary site investigation, undertaken in general accordance with the MfE Contaminated Land Management Guidelines (CLMG) No. 1 - "Reporting on Contaminated Sites in New Zealand" and No 5 - "Site Investigation and Analysis of Soils" included:

- an historical appraisal of the site by a study of historic aerial photographs;
- · a review of the current and historic certificates of title;
- · a review of the property file held by Council;
- a visual site inspection and walkover of the property; and
- the preparation of this letter report to comment on the liabilities applicable under the National Environmental Standards (NES) regulations, and Auckland Unitary Plan (Operative in Part) (AUP(OP)) rules for the development of the site.

3 SITE HISTORY

In order to establish the sites history, GSL conducted a desktop study of publicly available information, the findings of the study are detailed in the following sections.

3.1 RECORDS OF TITLE

GSL has reviewed copies of the current and historic Records of Title for the aforementioned property, including any instruments on the title which detail relevant property information such as: current ownership, registered interests, easements, covenants, lease restrictions and transmissions, to determine if pre-existing consent notices or other restrictions / notifications which may be relevant to historic uses of or potential soil contamination are held against the property. No notes of interest were recorded on the titles. Copies of the certificates are attached in Appendix A.

3.2 HISTORIC AERIAL PHOTOGRAPHS

Historic aerial photographs from 1940, 1950, 1963, 1972, 1980, and 1988 are available from the Retrolens website while images from 1996, 2006, 2008, 2010, 2015, and 2017 are available on the Auckland Council GEOMaps website (GIS). The findings of the historic aerial photograph review are summarised below, while copies of the aerial photographs have been attached in Appendix B.

1940- The 1940 image is the first available image of the site and shows the full extent of the site
 1950 as vacant pasture. The site is divided into paddocks with a narrow shelter belt along the western, southern, and eastern boundaries. The only discernible structure on the site is



a small shed to the north of the site's centre, the use of the shed is not apparent from the image.

There is little discernible development to the site in the 1950 image, aside from the shed in the centre having been removed.

1963- The 1963 image shows the site remaining vacant with no discernible structures noted or

the area of the site. A portion of the site along the eastern boundary has been planted with trees which appear to be well established and mature by this time.

There are no discernible changes to the site in the 1972 image.

1980- The 1980 and 1988 images show the only development to the site being the removal of

1988 the trees noted in the eastern portion of the site, with the full area having been returned to pasture.

1996- The 1996 image is the first available colour image of the site and shows the only

development to the site as being the construction of a residential dwelling and garage in the northernmost portion of the site. The remaining site area remains under pasture. There are no discernible developments to the site through the remaining images up to the 2017 plate. A small pen is present to the south of the dwelling, the proximity of the pen / race to the site boundary with Totara Road implies that the pen is a holding pen and loading race for livestock, the lay out of the race does not appear to be consistent with a spray race.

3.2.1 Summary of Aerial Photographs

GSL has reviewed the available historic aerial images of the site and conclude that the site has remained predominantly vacant pasture for its discernible history. For a period between the 1950's and 1980s, the eastern portion of the site was densely vegetated before being cleared again for pasture use.

The current residential dwelling was constructed by 1996 in the northern most portion of the site. The aerial photographs show no distinct evidence for any activity or industry included on the MfE HAIL having been undertaken on the site. There are no structures present on the site which could be spray races, nor is there any evidence for horticultural activities having been undertaken on the site.

3.3 PROPERTY FILE

GSL requested a copy of the property file from Auckland Council for review of historic activities. The property file contained plans and resource consent application documentation relating to the development of the site in 1994. The plans indicate that a house was relocated onto the property, a consent checklist indicated that the house was "at least 45 years old" cladded with weatherboard and tiles onto timber joinery. Due to the age of the dwelling, GSL notes that the potential exists for lead based paints to have been used on the exterior of the building. While not explicitly included on the MfE HAIL, lead based paint can infiltrate the soil directly surrounding the dwelling at times when the exterior paint is in deteriorated condition, or when routine maintenance is undertaken, such as scraping or sanding. In addition, GSL considers that there is potential for asbestos containing materials



(ACM) to have been used in its construction which will require consideration under the Health and Safety at Work (Asbestos) Regulations 2016 should the house be identified for demolition.

Plans dated 1995, for the garage associated with the dwelling are also contained in the property file, these indicates that the garage is constructed using a timber frame, blockwork and clad in galvanised steel, with corrugated steel roofing. The plans indicate that the garage sits on a 100 mm thick concrete slab foundation.

Plans dated 1994 were also contained in the property file relating to the onsite effluent disposal systems. As Auckland Council have generally considered domestic effluent disposal systems and septic tanks to be encompassed by Items G.5 and G.6 of the MfE HAIL as waste disposal to land, consideration will be required with respect to their presence. A pump out report is held on file which identified a concrete tank of 4,500 I capacity and a drainage field trench in place, the location of the tank is shown on Figure 2.

3.4 SUMMARY OF DESKTOP INVESTIGATION

GSL conducted a desktop study of publicly available information including a review of current and historic certificates of title, a review of historic aerial photographs, and a review of the property file held by Council. The desktop study has identified the following potential issues associated with the existing residential dwelling on site:

- Historic use of lead based paints;
- Potential presence of asbestos containing materials; and
- Presence of an onsite effluent disposal system.

No issues were identified that would encompass the wider areas of site beyond the house curtilage.

4 SITE INSPECTION AND WALKOVER

GSL undertook a site inspection on 8 May 2018 at which time the weather was fine and clear, at the time of the inspection the site appears exactly as it does in the most recent aerial photographs, that is; largely vacant pasture laid out in paddocks for the grazing of cattle. The only structures on the full extent of the site are the dwelling noted in the aerial photographs and its associated garage.

The site is accessed by a sealed driveway off Totara Road in the northern corner of the site, the driveway leads to the dwelling from which point access to the paddocks is gained through a standard timber farm gate. Adjacent to the gate is a timber loading race as identified in the aerial imagery. GSL notes that the layout of the race is consistent with a loading bay only and there is no evidence present for the race having been utilised for spraying of livestock. Similarly, its position adjacent to the road suggests that is has solely been utilised for loading / unloading stock for transport.

The dwelling and garage are confirmed to be as described in the property file plans; that is the dwelling is primarily being constructed of timber frame and weatherboard construction, with tiled roofing while the garage is timber framed and clad in metal weatherboards. No visually obvious potential ACM products were identified from an inspection of the exterior surfaces of these structures.



The area south of the dwelling curtilage is entirely vacant and separated into paddocks by standard post and batten wire farm fencing in aged condition. With respect to the portion of the site identified as being vegetated during the 1960s and 1970s, a number of tree stumps remain within this portion of the site showing relatively uniform distribution. The size and density of the stumps still present on site when assessed against that portion of the site suggest that marginal land may have been converted to forestry for a time as a mechanism for making better use of that land.

In the eastern portion of the site a small creek runs in a northerly direction across the site. While GSL notes that the creek's genesis is within the Royal NZ Air Force Whenuapai Air Force Base, it is only a very small portion of the headwater above the site and appears to originate from a portion of the Air Force Base occupied by landscaped gardens adjacent to recreational centres / barracks / mess hall type buildings on site well removed from the high risk portions of the site associated with aircraft.

No evidence for any activity or industry included on the MfE HAIL having been, or currently being undertaken on the site was noted during the site inspection. Site photographs are included as Appendix D.

5 POTENTIAL FOR CONTAMINATION

Following the completion of this investigation, GSL has identified the following source of potential contamination on site:

- Historic use of lead based paints on the residential house encompassed under HAIL Item I where a risk to human or environmental health is present only;
- Possible utilisation of Asbestos Containing Materials within the construction of the house -HAIL Item E.1 only when in broken or degraded condition; and
- Presence of a septic tank and effluent disposal system associated with the residential house -HAIL Item G.5 / G.6.

An assessment of the likely extents and issues associated with each of these items is discussed in turn below based on GSL extensive experience in similar situations.

5.1 LEAD BASED PAINT

While the use of lead based paint was becoming more and more reduced in the 1950's, its use continued until the 1970's and as such could be present on the villa relocated to site despite its construction in 1955. GSL considers that soil immediately surrounding the dwelling could potentially have been impacted by lead based paints if the exterior paint on the dwelling had been in deteriorated condition, or at times when routine maintenance such as sanding, or scraping were undertaken without adequate ground protection in place.

The potential effects of lead based paint on the surrounding soil would be expected to be concentrated in the area surrounding the dwelling where paint chips, flakes, or dust had infiltrated the soil, lead can then leach out of the paint into the soil resulting in high concentrations in the soil. Those concentrations are generally limited to the immediate curtilage and rapidly attenuate with distance from the source (the dwelling), only impacting the surficial soils within that curtilage.



5.2 ASBESTOS CONTAINING MATERIALS IN BUILDINGS

ACM has been widely used in an array of building materials for an extensive period of New Zealand's building materials history. While its use was widely concluded by 1990, New Zealand legislation notes that its use cannot be ruled out on buildings constructed prior to 1 January 2000. As a result, the presence of asbestos within the building and garage cannot be ruled out.

With regards to ACM, the potential for soil contamination is only present if ACM is in deteriorated or broken condition. No broken or degraded ACM was identified during the site inspection suggesting that if ACM is present within the building, it is most likely in good condition.

As with lead based paint, ACM is only likely to impact soil immediately adjacent to the dwelling and as such are not considered to present a potential for gross soil contamination across the site as a whole.

With respect to the demolition of any building constructed prior to 1999 the Health and Safety at Work (Asbestos) Regulations 2016, demands a fully intrusive pre-demolition hazardous building materials survey to be undertaken before demolition works can commence. The survey must be conducted by a suitably WorkSafe NZ licensed asbestos assessor and will identify the location and extent of any hazardous building materials, specifically ACM. Should ACM be identified in the survey then asbestos removal works will be required prior to the demolition of the dwelling, the removal must be completed by an appropriately licensed asbestos removal contractor and under the controls of an asbestos removal control plan (to be provided by the appointed contractor. The hazardous building materials survey will form the basis of any asbestos removal control plan.

5.3 EFFLUENT DISPOSAL INFRASTRUCTURE

Domestic effluent disposal infrastructure is considered by Auckland Council to be encompassed under Items G.5 and G.6 of the MfE HAIL as waste disposal to land. Should the existing septic tank and disposal field require decommissioning and removal as part of the proposed future development, works in this area will need to address the requirement of the NES and Auckland Unitary Plan (Operative in Part) with respect to contamination regulations.

Effluent disposal fields are likely to result in small scale impacts limited to the topsoil horizon where the effluent liquor is dispersed. In GSL's experience, impacts are unlikely to extend beyond the boundaries of the disposal field and generally do not exceed 400 mm in depth meaning that a small, localised area will likely require remedial earthworks during decommissioning. Impacts are considered unlikely to be pervasive across a large area.

6 CONCLUSIONS

GSL has undertaken a preliminary site investigation, in general accordance with the MfE Contaminated Land Management Guidelines, of the property located at 98-100 Totara Road, Whenuapai. The primary purpose of this investigation is to assess the likelihood of any potential contamination issues being present on site, and if so, comment on their likely implications for future residential development.

This investigation has identified potential sources of contamination on site to be the discrete area surrounding the existing residential dwelling in the northern portion of the site. Due to the age of the dwelling which was relocated onto the site in the 1990s, GSL considers that the following potential



sources of contamination will require further investigation should any change in landuse, subdivision, or development works be proposed in that area:

- Historical use of lead based paints; and
- Potentially asbestos containing building materials utilised in the residential dwelling and garage on site.

Additionally, plans held within the property file identify the location of the onsite domestic waste water treatment systems (septic tank and effluent disposal field), which Auckland Council have considered to be encompassed by Items G.5 and G.6 on the MfE HAIL. GSL concludes that should any change in landuse, subdivision, or development of that portion of the land be proposed, then these small scale, localised points will require further investigation and likely require localised remedial works.

With regards to the wider site area, GSL did not identify any evidence for any potentially contaminating activity included on the MfE Hazardous Activities and Industries List having been undertaken on the site. GSL therefore concludes that the risk for actual or potential contamination on the site to be low, and concludes that with respect to the wider site area that any future change in landuse, subdivision, or development would be highly unlikely to result in a risk to human health or the environment.

6.1 NATIONAL ENVIRONMENTAL STANDARDS

As a result of the identification of potentially contaminating landuses within he residential footprint on site, any change in landuse, subdivision, or development of that area will be required to address the regulations of the NES. As there is no distinct evidence for any activity included on the MfE HAIL having occurred or being more likely than not to have occurred on the wider site area, the wider site area does not meet the definition of "Land Covered" under Regulation 5(7), as a result, the regulations of the NES are not applicable to the change in landuse, subdivision, or development of those areas.

With respect to the immediate area of the original dwelling, while the NES is applicable to the development of that portion of the site, GSL notes that the area and volume of impacted soils is likely to be extremely limited in the scale of the overall development. The disturbance of potentially lead impacted soil within the dwelling curtilage and the effluent disposal systems are likely to be well within the remit of a Permitted Activity under Regulation 8(3) of the NES. Regulation 8(3) allows for the disturbance and offsite disposal of soil on actually or potentially contaminated sites as a permitted activity while the following conditions are met:

- a) "Controls to minimise the exposure of humans to mobilised contaminants must -
 - Be in place when the activity begins;
 - Be effective while the activity is done;
 - iii. Be effective until the soil is reinstated to an erosion resistant state;
- The soil must be reinstated to an erosion resistant state within 1 month after serving the purpose for which the activity was done
- c) The volume of disturbance on soil must not be more than 25 m³ per 500 m²;
- d) Soil must not be taken away in the course of the activity except that -
 - For the purpose of laboratory analysis, any amount of soil may be taken away as soil samples;
 - ii. For all other purposes combined, a maximum of 5 m³ per 500 m²may be taken away per year.



- e) Soil taken away in the course of the activity must be disposed of at a facility licensed to receive soil of that kind;
- f) The duration of the activity must be no longer than two months;
- g) The integrity of a structure designed to contain contaminated soil must not be compromised."

For a site of this size (11.61 Ha) Regulation 8(3) allows for the disturbance of up to 5,805 m³ and the offsite disposal of up to 1,161 m³ of soil, per year, as a permitted activity. It is likely that the required soil disturbance and offsite disposal of any actually or potentially impacted soil will fall within those volumes. The remediation of the effluent field and any actually or potentially impacted soil in the dwelling curtilage are considered highly likely to be encompassed by the above volumes, noting that Regulation 8(3) allows for the works to be encompassed by consecutive years, i.e. that should works extent over two days, that those days can be considered consecutive years and the volumes can be doubled.

A site management plan will likely be required to document the controls to be in place for the protection of human and environmental health for the duration of soil disturbance in those areas in order to meet the requirements of Regulation 8(3).

6.2 AUCKLAND UNITARY PLAN (OPERATIVE IN PART)

For the same reasons as the NES above, the majority of the site does not meet the Auckland Council definition of "land containing elevated levels of contaminants" and as such, the contaminated land rules of Chapter E.30 of the AUP(OP) will not apply to the proposed change in landuse, subdivision, and development of the site.

That said, the area of the residential dwelling and disposal field may meet that definition, and technically, the contaminated land rules of the Chapter E.30 may be applicable to soil disturbance in that area. That said, the AUP(OP) allows for the small scale disturbance of soil on actually or potentially contaminated land as a permitted activity under Rule E.30.6.1.2, which provides for small scale disturbance while the following conditions are met:

- 1. "The volume of soil disturbed must not exceed:
 - a. 200 m³ per site; or
 - b. 200 m³ per project for sites or roads with multiple concurrent land disturbance projects, where the cumulative total volume of soil disturbance associated with each given project will be used when determining activity status; or
 - c. an average depth and width of 1 m for linear trenching by network utilities in the road or rail corridor. For the purposes of this rule the rail corridor does not include land more than 10 m from the rail tracks.
- 2. Prior to the activity commencing:
 - a. the Council must be advised of the activity in writing if the volumes of soil disturbed on land containing elevated levels of contaminants exceeds 25 m³, including details of the measures and controls to be implemented to minimise discharges of contaminants to the environment, and such controls are to be effective for duration of the activity and until the soil is reinstated to an erosion-resistant state; and
 - control on linear trenching must be implemented to manage discharges to the environment from trenches acting as migration pathways for contaminants;
- 3. Any discharge from land containing elevated levels of contaminants must not contain separate phase liquid contaminants including separate phase hydrocarbons.
- 4. The duration of the soil disturbance on a site must not exceed two months.



Any contaminated material removed from the site must be disposed of at a facility or site authorised to accept such materials."

Where the disturbance of soil required to address the above potentially impacted areas can comply with the above conditions, GSL considers that the remediation of those areas can be undertaken as a permitted activity. Following the completion of those remedial works, the contaminated land rules of Chapter E.30 will no longer be applicable to the proposed development.

7 RECOMMENDATIONS

In order to address the requirements of the NES and Chapter E.30 of the AUP(OP) a site management plan will be required to document the controls to be in place for the protection of human and environmental health from the potential mobilisation of contaminants in soil during soil disturbance works.

Thank you for the opportunity to carry out this investigation. Should you have any queries regarding this report please do not hesitate to contact us on 09 475 0222.

Report prepared on behalf of GSL by:

Report reviewed on behalf of

GSL by:

Report authorised on behalf of

David Wilkinson **Environmental Scientist**

Geosciences Ltd

Carl O'Brien

General Manager

Geosciences Ltd

Johan Faurie Principal

Geosciences Ltd



Disclaimer

This report is provided on the condition that Geosciences Ltd disclaims all liability to any person or entity other than the client and Auckland Council in respect of anything done or omitted to be done and of the consequence of anything done or omitted to be done by any such person in reliance, whether in whole or in part, on the contents of this report. Furthermore, Geosciences Ltd disclaims all liability in respect of anything done or omitted to be done and of the consequence of anything done or omitted to be done by the client, or any such person in reliance, whether in whole or any part of the contents of this report of all matters not stated in the brief outlined in our proposal and according to our general terms and conditions and special terms and conditions for contaminated sites.

Statement

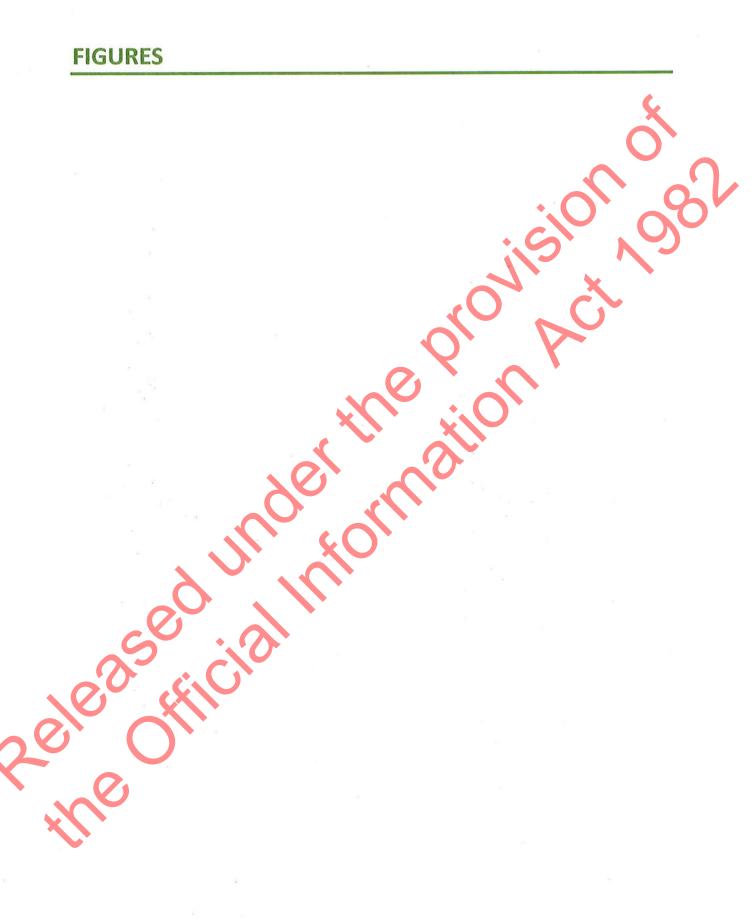
This site investigation has been prepared in accordance with the Resource Management (National Environmental Standard for Assessing and Managing Contaminants in Soil to Protect Human Health) Regulations 2011. It has been managed by a suitably qualified and experienced practitioner (SQEP); and reported on in accordance with the current edition of the Ministry for the Environment's Contaminated Land Management Guidelines No.1 – Reporting on Contaminated Sites in New Zealand.



8 LIMITATIONS

The conclusions and all information in this Report are given strictly in accordance with and subject to the following limitations and recommendations:

- The assessment undertaken to form this conclusion is limited to the scope of work agreed between GSL and the client, or the client's agent as outlined in this Report. This report has been prepared for the sole benefit of the client and neither the whole nor any part of this report may be used or relied upon by any other party.
- The investigations carried out for the purposes of the report have been undertaken, and the report has been prepared, in accordance with normal prudent practice and by reference to applicable environmental regulatory authority and industry standards, guidelines and assessment criteria in existence at the date of this report.
- 3. This report should be read in full and no excerpts are to be taken as representative of the findings. No responsibility is accepted by GSL for use of any part of this report in any other context.
- 4. This Report was prepared on the dates and times as referenced in the report and is based on the conditions encountered on the site and information reviewed during the time of preparation. GSL accepts no responsibility for any changes in site conditions or in the information reviewed that have occurred after this period of time.
- 5. Where this report indicates that information has been provided to GSL by third parties, GSL has made no independent verification of this information except as expressly stated in the report. GSL assumes no liability for any inaccuracies in or omissions to that information.
- 6. Given the limited Scope of Works, GSL has only assessed the potential for contamination resulting from past and current known uses of the site.
- 7. Environmental studies identify actual sub-surface conditions only at those points where samples are taken and when they are taken. Actual conditions between sampling locations may differ from those inferred. The actual interface between materials may be far more gradual or abrupt than an assessment indicates. Actual conditions in areas not sampled may differ from that predicted. Nothing can be done to prevent the unanticipated and GSL does not guarantee that contamination does not exist at the site.
- 8. Except as otherwise specifically stated in this report, GSL makes no warranty or representation as to the presence or otherwise of asbestos and/or asbestos containing materials ("ACM") on the site. If fill has been imported on to the site at any time, or if any buildings constructed prior to 1970 have been demolished on the site or materials from such buildings disposed of on the site, the site may contain asbestos or ACM.
- 9. Except as specifically stated in this report, no investigations have been undertaken into any off-site conditions, or whether any adjoining sites may have been impacted by contamination or other conditions originating from this site. The conclusion set out above is based solely on the information and findings contained in this report.
- 10. Except as specifically stated above, GSL makes no warranty, statement or representation of any kind concerning the suitability of the site for any purpose or the permissibility of any use, development or re-development of the site.
- 11. The investigation and remediation of contaminated sites is a field in which legislation and interpretation of legislation is changing rapidly. Our interpretation of the investigation findings should not be taken to be that of any other party. When approval from a statutory authority is required for a project, that approval should be directly sought by the client.
- 12. Use, development or re-development of the site for any purpose may require planning and other approvals and, in some cases, environmental regulatory authority and accredited site auditor approvals. GSL offers no opinion as to whether the current or proposed use has any or all approvals required, is operating in accordance with any approvals, the likelihood of obtaining any approvals, or the conditions and obligations which such approvals may impose, which may include the requirement for additional environmental works.
- 13. GSL makes no determination or recommendation regarding a decision to provide or not to provide financing with respect to the site. The on-going use of the site and/or planned use of the site for any different purpose may require the owner/user to manage and/or remediate site conditions, such as contamination and other conditions, including but not limited to conditions referred to in this report.
- 14. Except as required by law, no third party may use or rely on, this report unless otherwise agreed by GSL in writing. Where such agreement is provided, GSL will provide a letter of reliance to the agreed third party in the form required by GSL.
- 15 To the extent permitted by law, GSL expressly disclaims and excludes liability for any loss, damage, cost or expenses suffered by any third party relating to or resulting from the use of, or reliance on, any information contained in this Report. GSL does not admit that any action, liability, or claim may exist or be available to any third party.
- 16. Except as specifically stated in this section, GSL does not authorise the use of this report by any third party.







geosciences itd ENVIRONMENTAL Title:

Level 1, 47 Clyde Road, Browns Bay, 0630

Tel: (09) 475 0222

Figure 2 - Septic Tank and Disposal Field Location

Project name:

98-100 Totara Road, Whenuapai

Reference: J1173

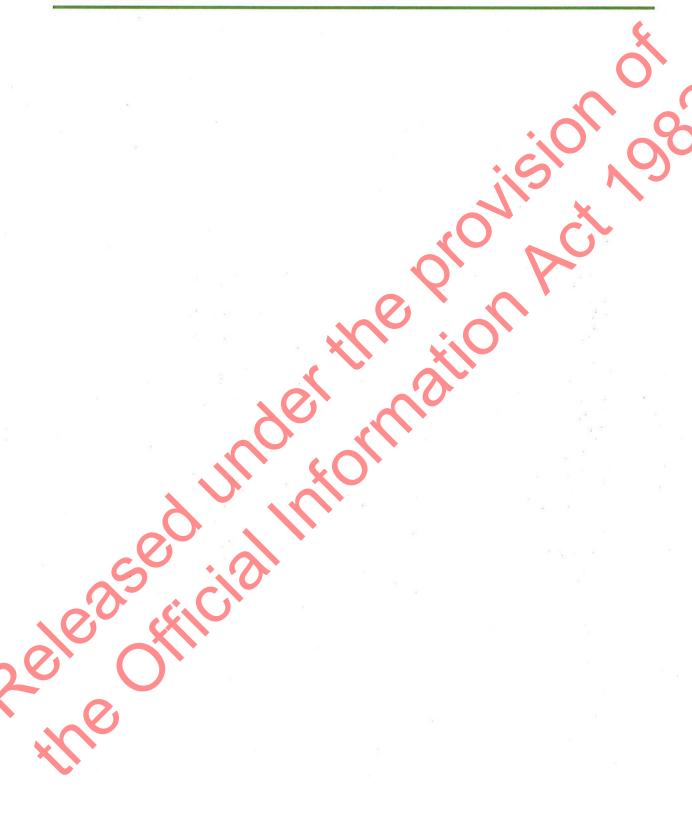
Date:

09/05/2018

Drawn:

DW

Approved: COB





COMPUTER FREEHOLD REGISTER **UNDER LAND TRANSFER ACT 1952**

Limited as to Parcels

Search Copy



R.W. Muir Registrar-General of Land

Identifier

Land Registration District North Auckland

Date Issued

NA38B/84

24 August 1977

Prior References

NA767/239

Estate

Fee Simple

Area

11.6100 hectares more or less

Legal Description Lot 2 Deposited Plan 81411

Proprietors

Lois Violet Harre and Roderick McCrae Harre

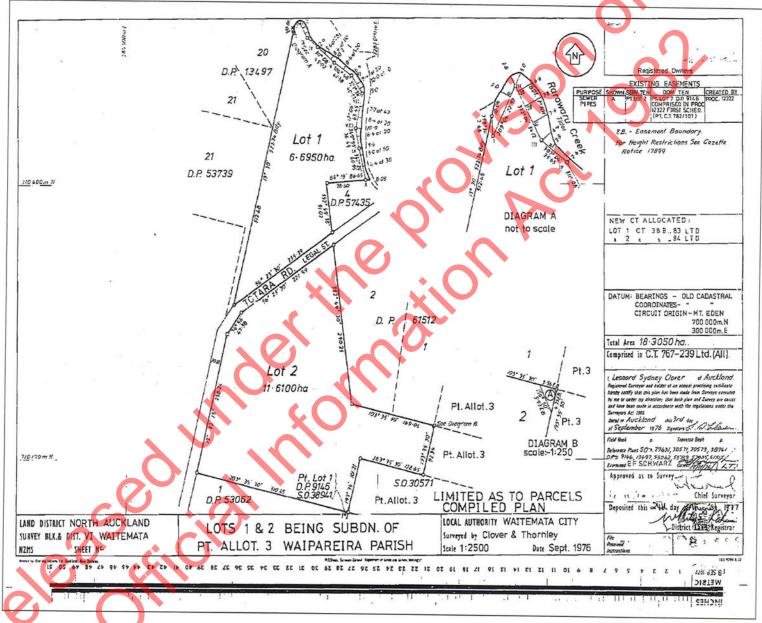
Interests

Subject to a drainage right over part marked A created by Proclamation 12322

K72265 Compensation Certificate by The Minister of Works - 26.8.1959 at 1.57 pm

17899 Gazette Notice declaring the within land subject to restrictions imposed by the within notice - 26.11.1960 at 2.54 pm

Identifier





COMPUTER FREEHOLD REGISTER **UNDER LAND TRANSFER ACT 1952**

Limited as to Parcels

Historical Search Copy



of Land

Identifier

Land Registration District North Auckland

Date Issued

NA38B/84

24 August 1977

Prior References

NA767/239

Estate

Fee Simple

Area

11.6100 hectares more or less

Legal Description Lot 2 Deposited Plan 81411

Original Proprietors

Barrie Frederick Connell and Lloyd McCrae Harre

Interests

Subject to a drainage right over part marked A created by Proclamation 12322

K72265 Compensation Certificate by The Minister of Works - 26.8.1959 at 1.57 pm

17899 Gazette Notice declaring the within land subject to restrictions imposed by the within notice - 26.11.1960 at

7282097.1 Transmission to Lloyd McCrae Harre - 19.3.2007 at 9:00 am

7282097.2 Transfer to Lloyd McCrae Harre, Lynnette Joy Clark and Colin James Lucas - 19.3.2007 at 9:00 am

9569425.1 CAVEAT BY PAUL MAYNARD - 16.12.2014 at 3:40 pm

9395603.1 Transmission to Lynnette Joy Clark and Colin James Lucas as survivor(s) - 25.3.2015 at 3:32 pm

9395603.2 Transfer to Lois Violet Harre and Roderick McCrae Harre - 25.3.2015 at 3:32 pm

10023492.1 Lapse of Caveat 9569425.1 pursuant to Section 145A Land Transfer Act 1952 - produced 7.4.2015 at 3.25 pm and entered 28.4.2015 at 7.00 am

9936639.1 CAVEAT BY LYNNETTE JOY CLARK AND COLIN JAMES LUCAS - 15.4.2015 at 9:20 am

10423337.1 Withdrawal of Cayeat 9936639.1 - 25.8.2016 at 9:54 am



References

Prior C/T 767/239

Limited as to Parcel 368095:1 Transfer No. N/C. Order No.



Land and Deeds 69

D 00

REGISTER

Land Registrar

498762.1 Transmission of Mortgage 718457,3 to Lois Violet Harre, Lloyd Harre and David Stewart Horris as executors 27.7,1979.at 9.08 o'c

C.139864.1 Transfer to Barrie Frederick Connell of Auckland solicitor and Lloyd McC: Harre of Whenuapai retired - 16.5.1990 at

CERTIFICATE OF TITLE UNDER LAND TRANSFER ACT

This Certificate dated the 24th 'day of August one thousand nine hundred and sevunder the seal of the District Land Registrar of the Land Registration District of North Auckland one thousand nine hundred and seventy seven

WITNESSETH that JOYCE EMMA ANDERSON widow and VIOLET ELIZABETH JANET ANDERSON widow both of Whenuspai and JCHN CCUGHLAN WILLIAMS of Auckland Solicitor (one half share jointly) and LOIS VIOLET HARRE of Whenuapai married woman

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 11.6100

Assistant

hecteres more or less being Lot 2 Deposited Plan 81411 and being part Allotment 3 Parish of Waipareira

nterests at date of issue: ALAND. Subject to a drainage easement over the part herein marked A appurtenant to the pt Lot 7 Plan 9146 (C.T. 82/107) created by prop 12322

18984 Nortgage to Violet Elizabeth anet Anderson (19) 19,1955 at 2.56

he minister of works - 26.8.1959 1.57 o'c

17899 Gazette Notice declaring the within land subject to restrictions imposed by the within notice - 26.11.1960 at 2.54 0.c.

KM . viBin

718457.2 Transfer to Lois Violet Harre abovenamed - 3.2.1978 at

7718457.3 Mortgage Let Elizabeth 4.40 oc.

for A.L.R.

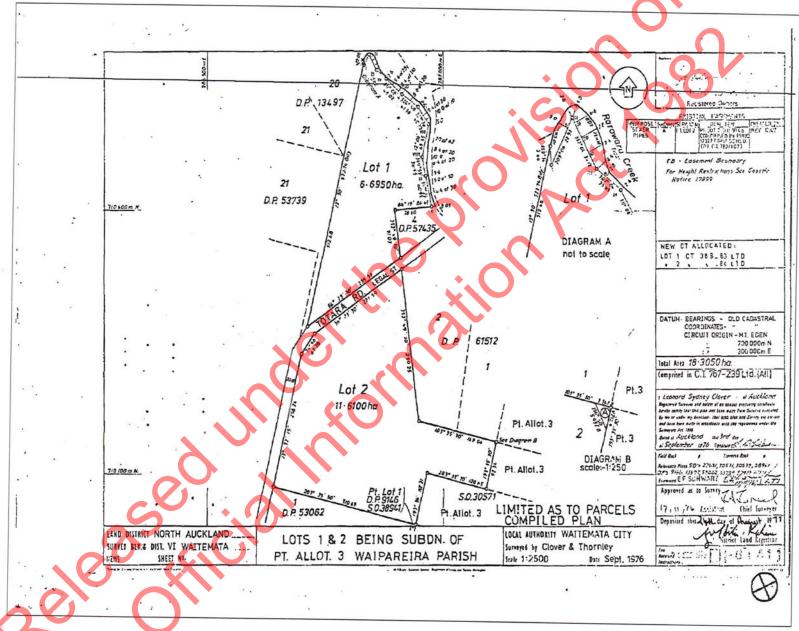
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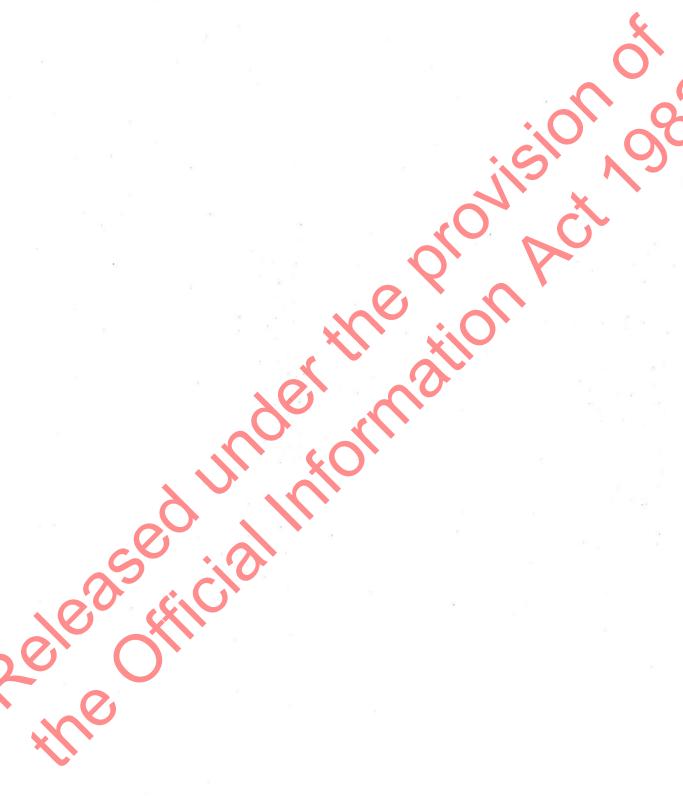
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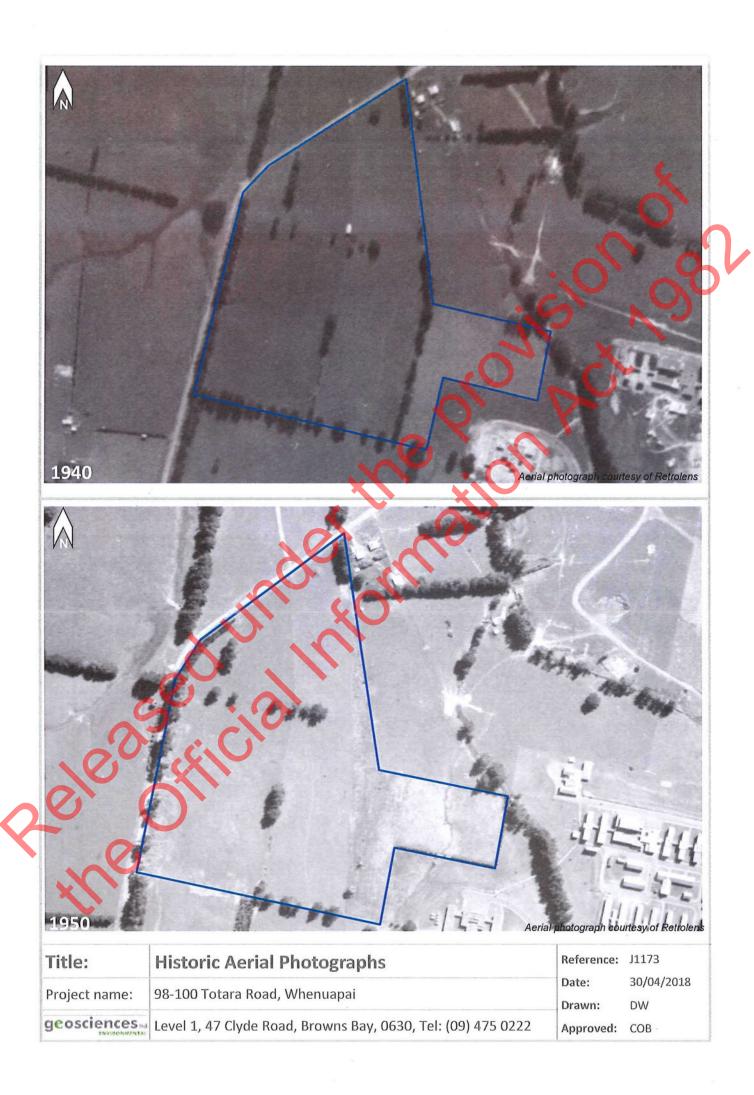
L.R.

Transaction Id

Identifier



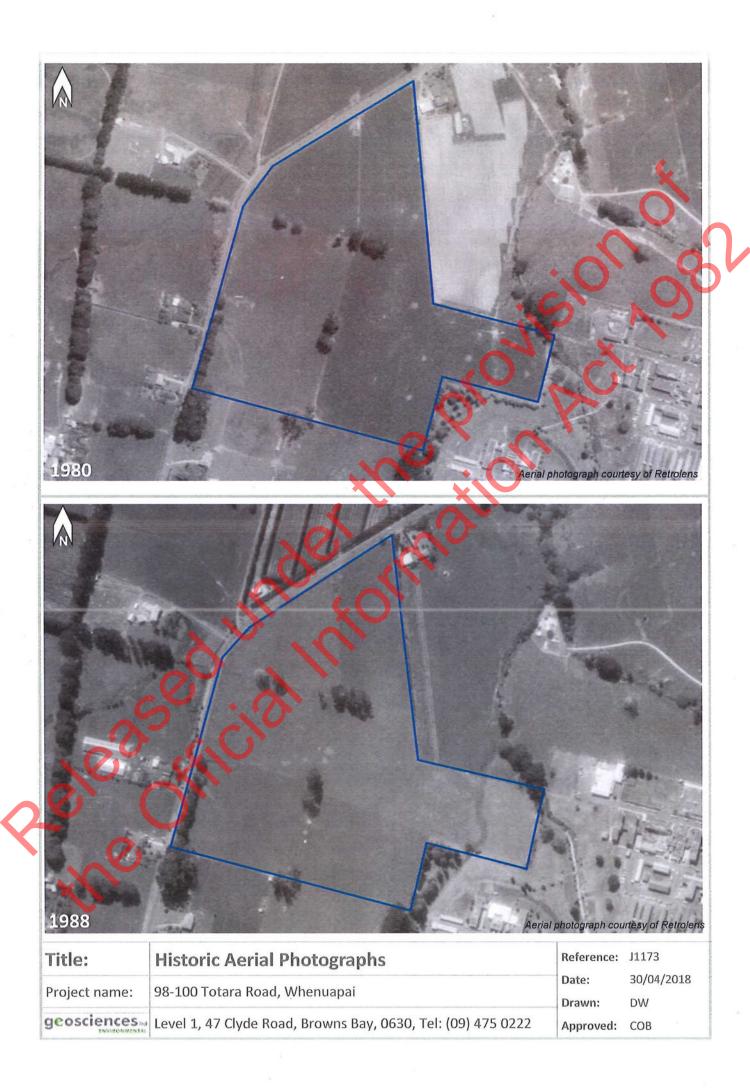








Title:	itle: Historic Aerial Photographs		J1173
Project name:	98-100 Totara Road, Whenuapai	Date:	30/04/2018
		Drawn:	DW
geosciences no	Level 1, 47 Clyde Road, Browns Bay, 0630, Tel: (09) 475 0222	Approved:	СОВ







Title:	Historic Aerial Photographs	Reference:	J1173
Project name:	98-100 Totara Road, Whenuapai	Date:	30/04/2018
Project name.	38-100 Totala Noad, Whendapai	Drawn:	DW
geosciences	Level 1, 47 Clyde Road, Browns Bay, 0630, Tel: (09) 475 0222	Approved:	СОВ



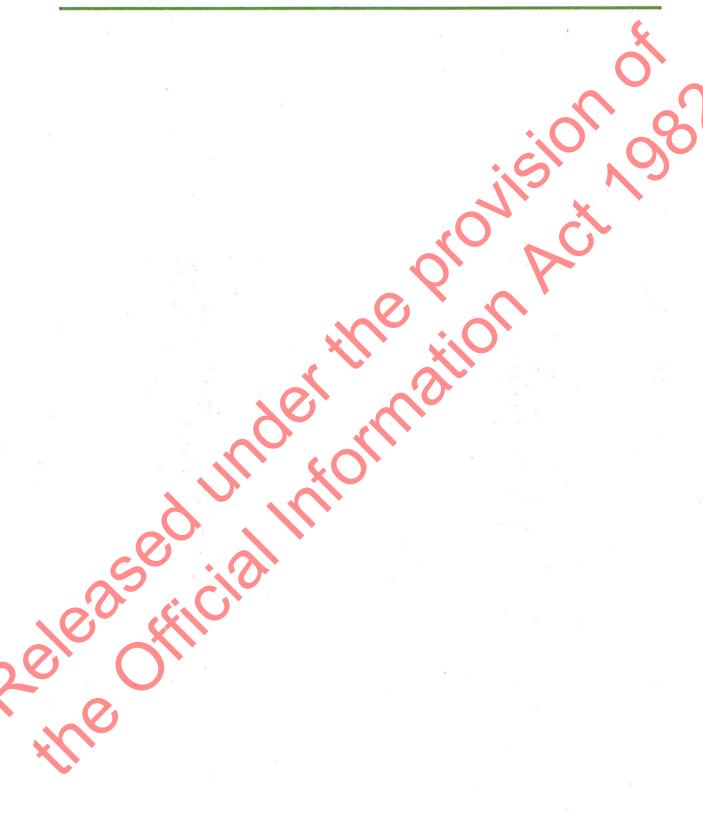


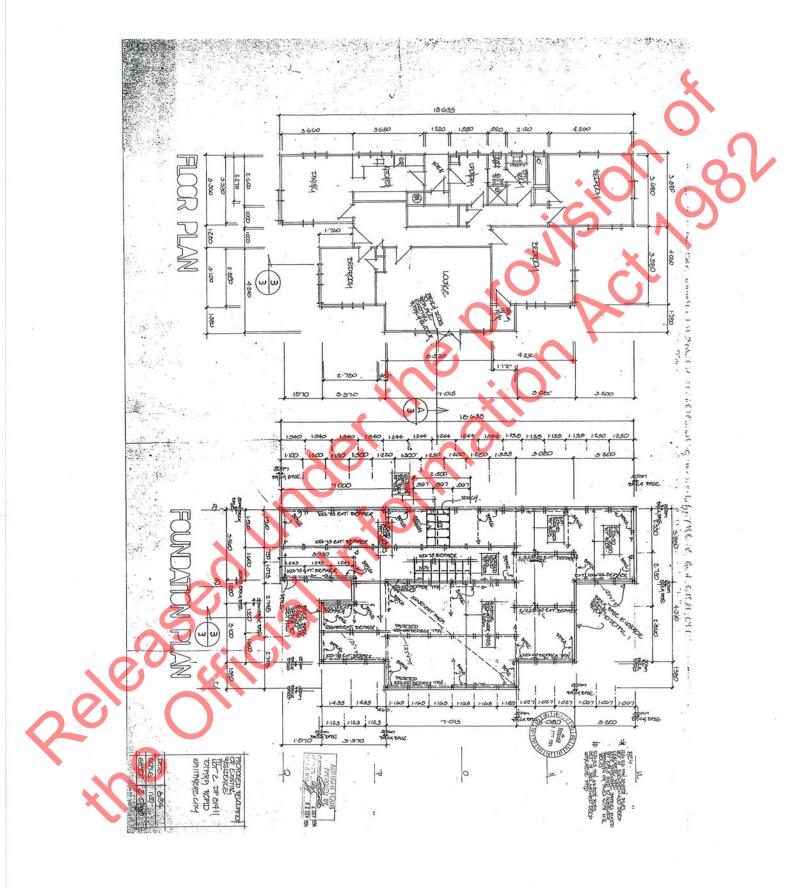
Title:	Historic Aerial Photographs	Reference:	J1173
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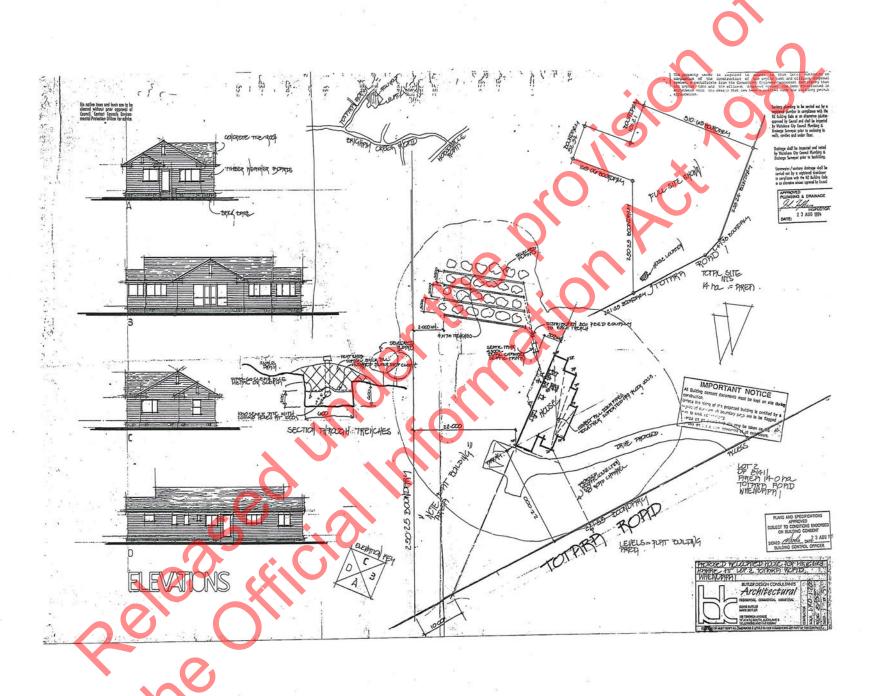


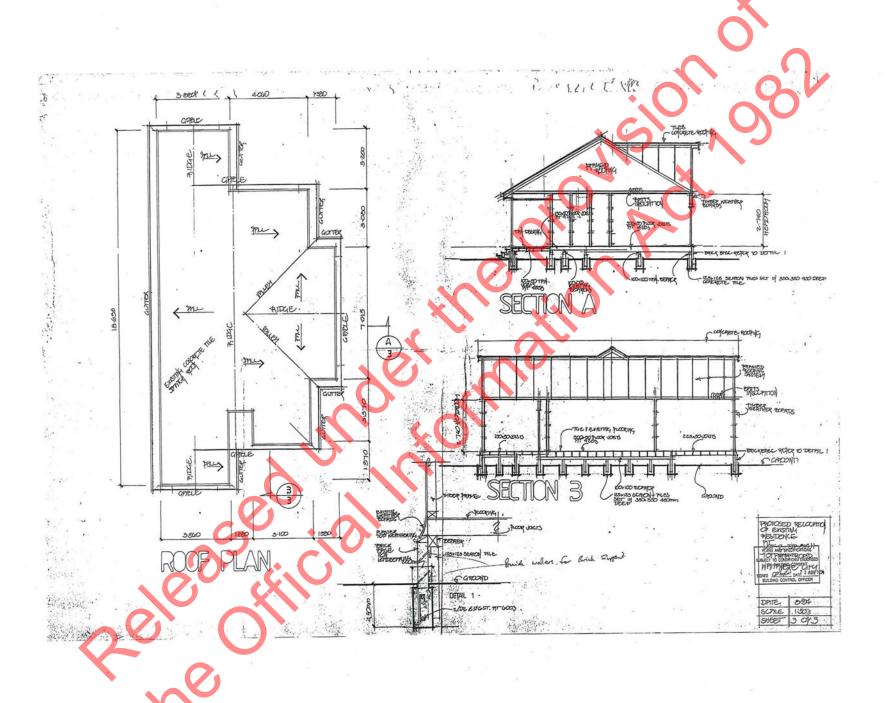


Title:	Historic Aerial Photographs	Reference:	J1173
Project name:	98-100 Totara Road, Whenuapai	Date:	30/04/2018
Troject name:	30 100 Totala Noda, Wilehaupai	Drawn:	DW
geosciences	Level 1, 47 Clyde Road, Browns Bay, 0630, Tel: (09) 475 0222	Approved:	СОВ









P.O. Box 1575

Whongarel -- je 121

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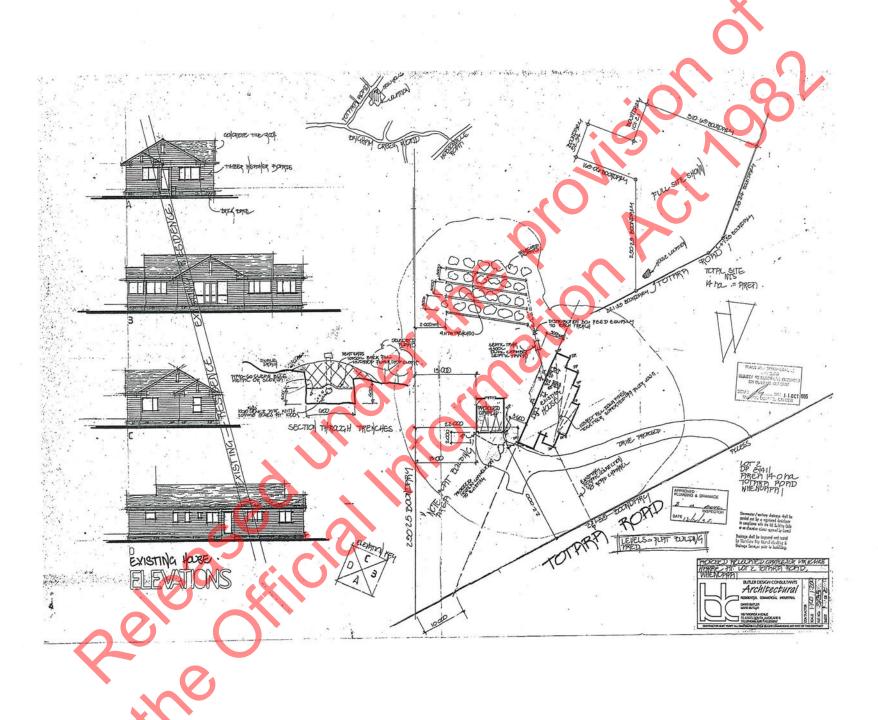
TOTAL WETTED AREA

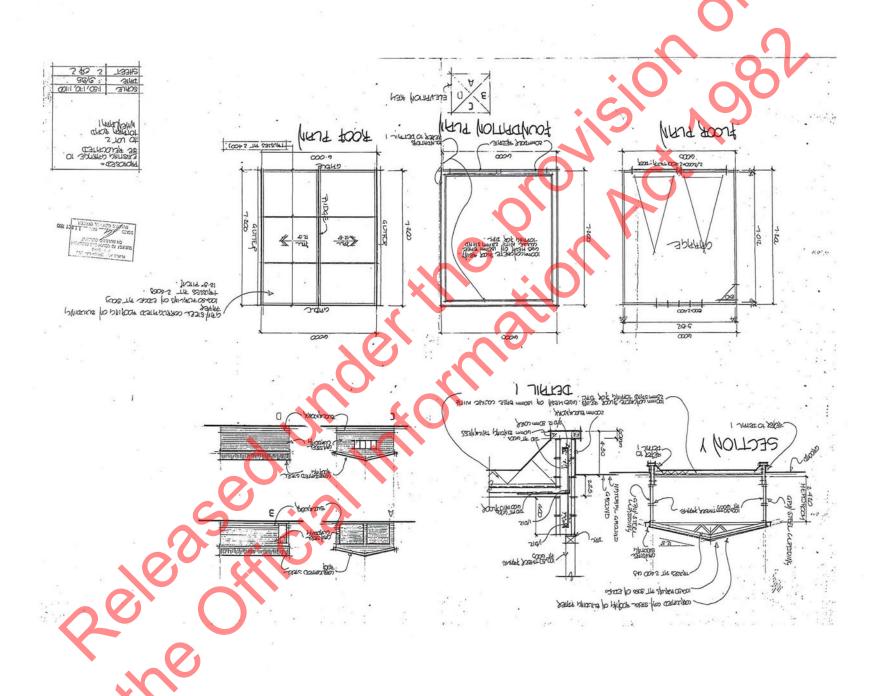
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lisc Type sage Unit urface	UKNOW	STANDARD SEPTIC	TANK	Colour	X	
laterial lodel # erial #	4050			Length Width	15.000 Height 0 Diameter 0	
eigh evation wner	0.00 0.00 PRV	PRIVATE		Depth Service Status	0.000 Avg Monthly Usage 0.00 Total Usage 0.00 PVIN PRIVATE LIVE	
arcel Coord Coord Coord udget #			*	Plan # Date installed	dio	
itiated By ssigned To	STC		SEPTIC TANK		ted Date 05/07/2017 Scheduled 01/08/201 ce # Due 29/08/201	
uthorisation udget # rew aint Type riority roblem roject ource	a	60		1010	Group Proj # Out of Service Potential Service Request	6819
ast A d	SSTPO3		SEWER SEP	TIC TANK PUMP OUT 3		08/2014

. Onsite Wastewater Management

Effluent Disposal System Data Sheet



PROPERTY INFOR	MATION		UNIT ID Work Orde	r;411811 1
98 TOTARA RD WI	HENUAPAI		Pumpout D	Date: 108 12
Property Type: ☐ Residential (sma	~	ial (large) □ Bach	□ Public Facility	14/0/20
PUMP OUT INFOR)):			
Routine	□ Early	☐ Rescheduled	☐ Emergen	cv
☐ To Be Resche	The state of the s		equired	
Comments				
ASSET DATA	/			
Туре	Standard	☐ Pre Treatment	☐ Grey Water ☐	Grease Trap
	□ Long Drop	□ Chamber	☐ Hi Tech	
	□ Other (Specify) .			
Size (litres)	□ 2700	□ 4050	4500	
	□ /Other (Specify) .	litres	C.	
Material	Concrete	☐ Fibreglass	D Plastic(PE)	
Lid Depth	□ Not Applicable	☐ Above Ground	☐ Ground Level	
	Below Ground (Specify Depth)	mm	
Risers Required	□ Yes	D No	X	
De	etails			,
Effluent Filter	□ Yes No		Baffles Yes 2	No.
Sludge/Scum Depth	□ Not Applicable	Measured With S	Sludgeometer	No No
		Scum Depth (mm)	Sludge Depth	(mm) U
Hose Length	≥ ≤ 50m	□ > 50m and ≤ 100 m	□ > 100m	
TANK CONDITION	AND DEFECTS	2 0		
Condition Good	Yes	□ No		
Defects Identified De	None etails	□ Root Intrusion	☐ Broken Lid ☐	Other
COMPLETION	CX	/		
Lid Sealed	□ Not Applicable	Yes □ No		
Co	omments	7	, v	
Cleanup Completed	Yes etails	□ No		,
GENERAL PUMPO Comments:	UT COMMENTS (Notes	on any other related issues)		
				×

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Fax: 09 301 0100

Email: septic.tank@aucklandcouncil.govt.nz

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Onsite Wastewater Management Effluent Disposal System Data Sheet



Field Found				
Total Carry	Skip to General In	spection C	Comments below) Ye	s 🗆 No
Comments	1			
			V= .	
Prainage Field Type: Evapo Beds	☐ Dripper Line	0	X Trench	
☐ Raam Light	☐ Bore Holes		□ Unknown	
☐ Other (Specify)	(**) ·			
Separate Grey Water System	□ Yes	No	□ Unknown	
All Pipës Into Gulley Traps	Yes	□ No	□ Unknown	
DRAINAGE FIELD CONDITION		•1		•. ()
Drainage Field Suitable	□ Yes	□" No		
Details			•	
	/	7.7% (246)		
All Components Accessible For Maintenance incl. risers, monitoring ports, distribution box		□ No	180	X
Comments	als.			
Comments				V
All Components in Good Condition	Yes	□ No	Can M	
Details		•••	ALL STATES	
			-44	77 15 13 15 15 15 15 15 15 15 15 15 15 15 15 15
Distribution Box Water Tight	☐ Ground Wa	ter Entry	☐ Visual Leakage Out	
Details	Aug a.		0	
and the second	244/1000			
RAINAGE FIELD DEFECTS				
Details	14			
SENERAL INSPECTION COMMENTS (Note	es on location of de	rainage field	d, soil type if known) ie in bush,	paddock.
GENERAL INSPECTION COMMENTS (Note	es on location of d	rainage field	d, soil type if known) ie in bush,	paddock.
COMMENTS (Note Comments (Note Comments Coll type: Sand Loam Clay)	es on location of d	rainage field	d, soil type if known) ie in bush,	paddock.
Comments Sand Loam Clay		· · · · · · · · · · · · · · · · · · ·	d, soil type if known) ie in bush,	paddock.
comments oil type: Sand Loam Clay ature of site (is it pasture, bush, paddock or		· · · · · · · · · · · · · · · · · · ·	1, soil type if known) ie in bush,	paddock.
comments oil type: Sand Loam Clay ature of site (is it pasture, bush, paddock or		· · · · · · · · · · · · · · · · · · ·	d, soil type if known) ie in bush,	paddock.
Comments Soil type: Sand Loam Clay lature of site (is it pasture, bush, paddock or sit boggy or overland flow:	r other - please de	escribe): C	an	paddock.
Comments Soil type: Sand Loam Clay Rature of site (is it pasture, bush, paddock or s it boggy or overland flow.	r other - please de	escribe): C	an	paddock.
comments oil type: Sand Loam Clay lature of site (is it pasture, bush, paddock or it boggy or overland flow.	r other - please de	escribe): C	an	paddock.
Comments Soil type: Sand Loam Clay Rature of site (is it pasture, bush, paddock or is it boggy or overland flow: SITE INCIDENT (Note: Requires notification of the comment) Details	on to Auckland Co	escribe): C	Centre)	
Comments Goil type: Sand Loam Clay Rature of site (is it pasture, bush, paddock or is it boggy or overland flow. SITE INCIDENT (Note: Requires notification of the contractor Damage None Property Property Property	on to Auckland Co	escribe): C	Centre)	paddock.
Comments Soil type: Sand Loam Clay Rature of site (is it pasture, bush, paddock or is it boggy or overland flow: SITE INCIDENT (Note: Requires notification of the comment) Details	on to Auckland Co	escribe): C	Centre)	
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Comments Goil type: Sand Loam Clay Rature of site (is it pasture, bush, paddock or is it boggy or overland flow. SITE INCIDENT (Note: Requires notification of the contractor Damage None Property Property Property	on to Auckland Co	ouncil Call	Centre) Mushroom Lid	
comments coil type: Sand Loam Clay lature of site (is it pasture, bush, paddock or is it boggy or overland flow. CITE INCIDENT (Note: Requires notification) CITE INCIDENT (Note: Requires notification) CONTRACTOR Details	on to Auckland Co	ouncil Call	Centre) Mushroom Lid	
comments coil type: Sand Loam Clay lature of site (is it pasture, bush, paddock or it boggy or overland flow: ITE INCIDENT (Note: Requires notification) SH Incident Details Details Peinstatement Complete Not Appli	on to Auckland Co	ouncil Call	Centre) Mushroom Lid	
comments coil type: Sand Loam Clay lature of site (is it pasture, bush, paddock or it boggy or overland flow: ITE INCIDENT (Note: Requires notification OSH Incident	on to Augkland Co	ouncil Call	Centre) Mushroom Lid	
Comments Comments Contractor Damage Details Contractor Damage Comments	on to Augkland Co	ouncil Call	Centre) Mushroom Lid	
Comments Soil type: Sand Loam Clay Inture of site (is it pasture, bush, paddock or is it boggy or overland flow. Interpretation Interpretat	on to Augkland Co	ouncil Call	Centre) Mushroom Lid	
comments oil type: Sand Loam Clay lature of site (is it pasture, bush, paddock or it boggy or overland flow: ITE INCIDENT (Note: Requires notification OSH Incident	on to Augkland Co	ouncil Call	Centre) Mushroom Lid	
comments oil type: Sand Loam Clay ature of site (is it pasture, bush, paddock or it boggy or overland flow: ITE INCIDENT (Note: Requires notification OSH Incident	on to Augkland Co	ouncil Call	Centre) Mushroom Lid	

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Locality Guide

98 TOTARA RD WHENUAPAI Septic Tank Locations

19994367

Parcel Boundaries

0

Septic Tank of Interest (Private, Other)

APPENDIX D

SITE PHOTOGRAPHS

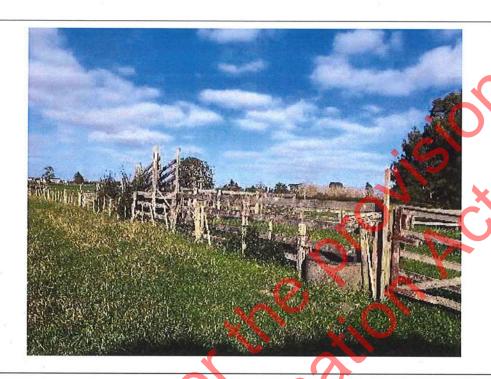


PLATE 1: LOADING BAY ADJACENT TO SITE ACCESS



PLATE 2: PASTURE AREA LOOKING SOUTH



PLATE 3: DWELLING AND GARAGE ON NORTHERN PORTION OF SITE



PLATE 4: EASTERN PORTION OF SITE, FORMERLY PLANTED WITH TREES



PLATE 5: CREEK RUNNING ACROSS EASTERN PORTION OF SITE

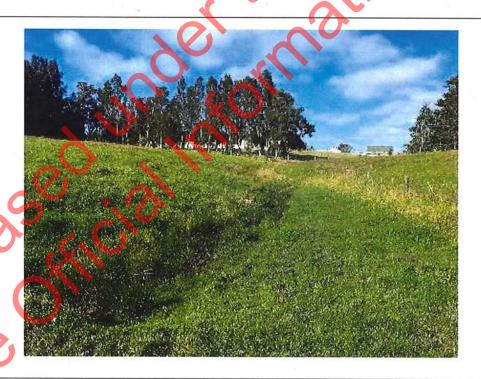


PLATE 6: CREEK RUNNING FROM AIRBASE ACROSS EASTERN PORTION OF SITE

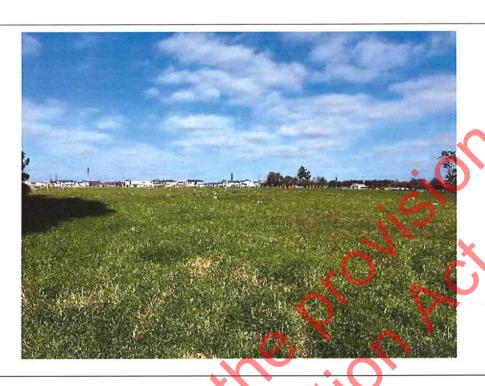


PLATE 7: SOUTHERN PORTION OF SITE



PLATE 8: SITE VIEWED FROM THE SOUTHERN BOUNDARY LOOKING NORTH