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# 1 Introduction

## 1.1 Background

The January 2023 floods, followed closely by Cyclone Gabrielle, marked a period of unprecedented weather challenges for Auckland. Auckland Council is carrying out flood resilience projects with the aim of mitigating flood risk to property through a series of blue-green networks, addressing critical flood-prone areas with sustainable stormwater solutions. The Harania catchment was one of the worst affect areas of Auckland following the January 2023 floods. Healthy Waters identified significant flooding, causing risk to life, and widespread flood damage to homes. This occurred due to poor flood conveyance at the location of the current Tennessee Avenue embankment dam.

## 1.2 Project description

A detailed description of the full project works can be found in the Assessment of Effects on the Environment (AEE) report<sup>1</sup>.

The Tennessee Bridge project involves removing the current embankment which carries the existing Eastern Interceptor (EI), an approximately 2.6 m diameter reinforced concrete wastewater pipe. The replacement will comprise a new pipe and pipe bridge in the coastal marine area (CMA) to open up the waterway capacity to allow increased flood conveyance. Diversion chambers are required at either end of the new pipe, connecting it to the existing pipe to facilitate the change over from the old pipe to the new pipe bridge diversion.

## 1.3 Objective and scope of work

Tonkin & Taylor Ltd (T+T) has been engaged by Auckland Council (AC) Healthy Waters to undertake a Preliminary Site Investigation (PSI) related to the proposed Tennessee Bridge upgrade works (the Project) and this has been prepared to accompany a resource consent application for the Tennessee Bridge project under the Severe Weather Emergency Recovery (Auckland Flood Resilience Works) Order 2024. The Project site is located at Blake Road Reserve and Lenore Foreshore Reserve (hereafter referred to as 'the site'), as shown in Figure 1.1.

The report provides an assessment of the contaminated land aspects of the project under:

- Chapter E30 of the Auckland Unitary Plan (AUP) as it relates to discharges from contaminated land; and
- Resource Management (National Environmental Standard for assessing and managing Contaminants in Soil to Protect Human Health) Regulations 2011 (NESCS).

This report has been prepared in general accordance with the requirements for a PSI referred to in the NESCS and as outlined in the Ministry for Environment's (MfE's) Contaminated Land Management Guidelines (CLMG) No.1<sup>2</sup> and is to support a resource consent application under the Severe Weather Emergency Recovery (Auckland Flood Resilience Works) Order 2024.

<sup>1</sup> *Harania Flood Resilience Works – Tennessee Bridge Assessment of Effects on the Environment*, Beca Limited, November 2024.

<sup>2</sup> Ministry for the Environment, updated 2021, *Contaminated land management guidelines No. 1: Reporting on Contaminated Sites in New Zealand*.

The persons undertaking, managing, reviewing, and certifying this investigation are suitably qualified and experienced practitioners (SQEP), as defined in the NESCS Soil User's Guide<sup>3</sup>.

This report has been prepared in accordance with our Statement of Work (SoW) dated 14 June 2024<sup>4</sup>.

The objective of this investigation is to identify activities at the site which may have resulted in ground contamination, assess the likelihood and potential magnitude of ground contamination (if any), potential impacts and the likely regulatory implications for the proposed development works.

The scope of work comprised the following elements:

- Review historical aerial photographs for the site made available by Auckland Council, Retrolens and Google Earth Pro;
- Review of a Site Contamination Enquiry (SCE) and Council records of pollution incidents;
- Undertake a brief site walkover to assess current land use conditions;
- Review of ground contamination related environmental regulations and planning documents to identify relevant resource consent requirements; and
- Preparation of this PSI report outlining the findings and comments on the potential for ground contamination at the site, in the context of the proposed development, including potential resource consent implications with regard to ground contamination.

## 1.4 Proposed development

A detailed description of the proposed work is provided in the Assessment of Effects on the Environment prepared for the application. The proposed work include an upgrade to the existing interceptor, removal of the embankment and culverts and construction of a pipe bridge for the upgraded interceptor pipe and a footbridge.

The proposed earthworks methodology and earthworks plans are included in Appendix A. In summary earthworks will involve the removal of the embankment: 4,000 m<sup>3</sup> cut, and 600 m<sup>3</sup> fill over an area of 3,050 m<sup>2</sup>. Note- All numbers are subject to minor change as the design develops to Detailed Design.

- Existing vegetation and mangroves will be cleared from the footprint of the working area. All vegetation will be removed via excavator and transported to the compound area for processing.
- Two construction compounds will be utilised throughout the construction period:
  - Eastern compound: The overall size of the fence area will be approximately 5,000 m<sup>2</sup>. The topsoil will be left insitu and covered with geotextile cloth and 300 mm of aggregate (or approximately 3,000 m<sup>3</sup> in total). The existing basketball court at Blake Road Reserve will be used for storage containers.
  - Western compound: The overall compound fenced area will be 1,750 m<sup>2</sup> with 700 m<sup>2</sup> of stabilised aggregate.

<sup>3</sup> Ministry for the Environment. 2012. *Users' Guide: National Environmental Standard for Assessing and Managing Contaminants in Soil to Protect Human Health*. Wellington: Ministry for the Environment

<sup>4</sup> T+T (2024). Statement of Work (SoW). Harania Stage 2: Design. Stream works. Contract number CW218693. Auckland Council.





## 2 Site description

### 2.1 Site location and identification

The site is located between and within Lenore Foreshore Reserve and Blake Road Reserve. Further site identification information is presented below in Table 2.1 below.

Table 2.1: Property identification information

Street address	81R Blake Road and 81R Archboyd Avenue, Mangere East, Auckland 2024
Legal description	Portion of LOT 390 DP 47191 and LOT 5 DP 148631
Zoning	Open Space – Informal Recreation Zone
Area	1.2 Ha (12,078 m <sup>2</sup> )
Current use	Public open space

### 2.2 Surrounding land use

The land immediately surrounding the site is zoned ‘Open Space – Informal Recreation Zone’ apart from land to the southeast and west which is zoned as Residential – Single House Zone’. The surrounding land uses are detailed below.

- North – Public reserve (Blake Road and Lenore Foreshore Reserves), with commercial/industrial beyond (Pacific Steel Reserve, The Pure Food, Supercheap Auto Distribution Centre and Online Distribution);
- South – Lenore Foreshore Reserve, residential housing and roading network.
- East – Blake Road Reserve with commercial/industrial beyond (Holden New Zealand Limited and PGG Wrightson Turf and Express Feight); and
- West – Residential housing, with Abiru Crescent and Favona Lodge beyond.

### 2.3 Site condition

A T+T representative completed a site walkover inspection on 29 August 2024. The purpose of the site inspection was to gather general information on topography, land use proximal to the site and in areas surrounding, as well as making observations for evidence of potential ground contamination. Relevant observations made at the time of the inspection are summarised below, and selected photographs are included in Appendix C.

- The western compound of the site is grassed and gently slopes to the east, towards the mangrove area. Surface water ponding was evident during the walkover near the mangroves.
- Tennessee embankment runs west to east parallel through grassed pathway in the western compound of the site. Inaccessible mangrove areas are on either side of the culvert to the north and south.
- The eastern compound of the site is grassed with undulating topography, particularly towards the south.
- A small basketball court is present within the eastern compound area.
- A down hole pipe for seismic testing that had been recently bored was identified onsite and is located about 5 m to the west of the eastern compound.
- A manmade BMX bike track is located about 20 m to the northeast of the site.



## 2.4 Geology

The published geology of the area (Figure 2.1) indicates that the site is underlain by Pliocene to Holocene undifferentiated Takaanini Formation, comprising pumiceous mud, sand and gravel river deposits with peat and lignite. Subsidiary rocks include rhyolite pumice, conglomerate, sandstone, ignimbrite, breccia, tephra, peat and lignite.

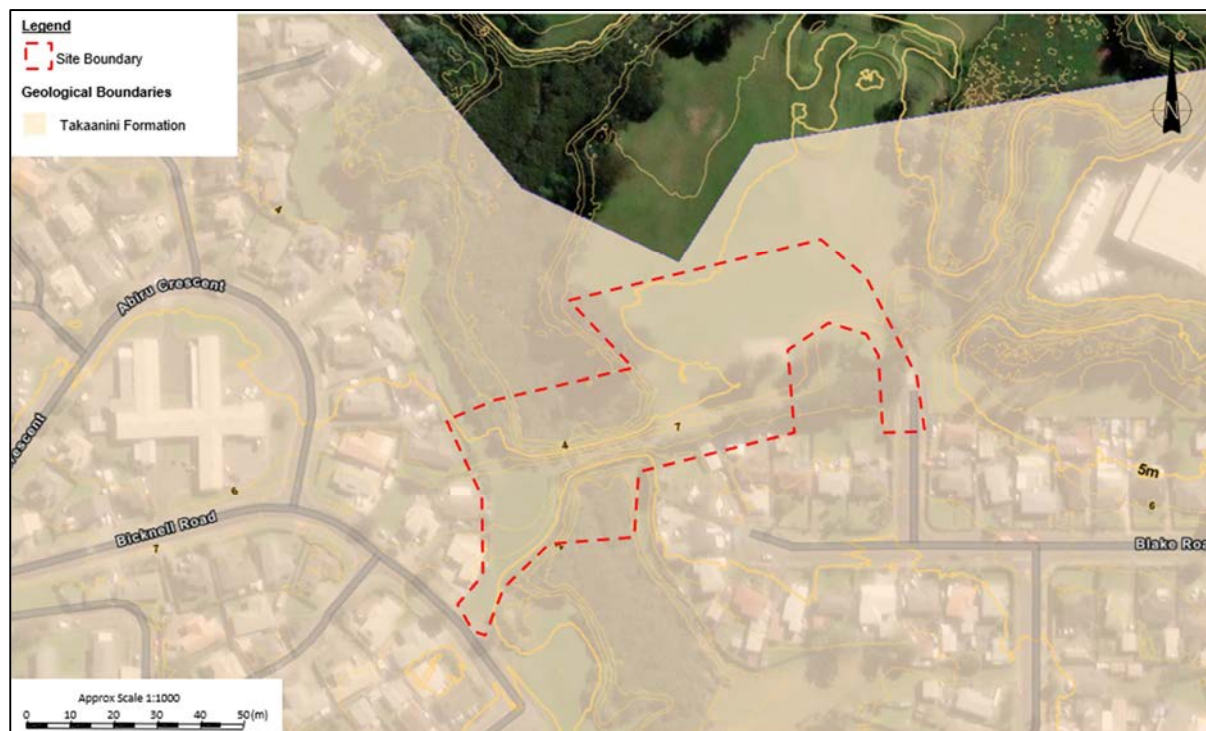


Figure 2.1: Published geological map of the Auckland Region (Source T+T Map Viewer<sup>5</sup>)

### 2.4.1 Site specific ground model

The subsurface profile has been investigated using penetrometer tests (CPTs), hand augered boreholes and machine drilled boreholes, as detailed in the geotechnical investigation report<sup>6</sup>. A summary of the site geology is provided in Table 2.2, sample locations are shown on Figure 2.2. Borehole logs are provided in Appendix B.

Table 2.2: Summary of subsurface ground conditions around and beneath the Tennessee embankment

Geological unit	Soil description	Typical elevation of surface of layer (m RL) <sup>1</sup>	Typical depth to surface of layer (m bgl) <sup>2</sup>	Typical layer thickness (m)
Topsoil	Silt, minor clay; dark brown. Firm, moist, low plasticity.	-	0	0.15 – 0.3
Fill <sup>1</sup>	Clayey SILT, trace sand; dark brown. Stiff to very stiff, moist to wet, medium plasticity.	-	0.15	3.65

<sup>5</sup> Tonkin + Taylor Map Viewer. Retrieved August 8, 2024, from [Auckland Council GeoMaps](#).

<sup>6</sup> T+T, September 2024, *Harania Blue Green Networks Stage 2 – Geotechnical Assessment Report*. Report prepared for Auckland Council, Ref: 1017033.2002 vA.



Geological unit	Soil description	Typical elevation of surface of layer (m RL) <sup>1</sup>	Typical depth to surface of layer (m bgl) <sup>2</sup>	Typical layer thickness (m)
Takaanini Formation (alluvium)	Silty CLAY; orange brown trace grey. Stiff, moist, medium plasticity.	3.2 – 3.9	0.15 – 3.8	0.6 – 2.5
Takaanini Formation (Hobsonville Member)	Interbedded clayey SILT and fine to medium SAND; grey. Stiff / Loose, moist. Sand, pumiceous.	1.4 – 2.6	2.8 – 4.4	2.6 – 6
Takaanini Formation (Hobsonville Member)	Fine to medium SAND, trace silt; dark grey. Loose to dense, moist to wet. Sand, pumiceous.	-1.2 – -3.8	7.9 – 8.1	4 – 6
Takaanini Formation	Clayey SILT, trace sand; greenish grey. Very stiff, moist medium plasticity.	-7.2 – -7.8	12 – 14.2	5.4 – 5.7
East Coast Bays Formation	Completely weathered to moderately weathered, dark green to greyish brown, SILTSTONE. Extremely weak to very weak	-12.6 – -13.5	17.7 – 19.6	5.5 – 6.3
	Slightly weathered, dark grey, SILTSTONE. Weak, fine to coarse grained. Some isolated SANDSTONE layers.	-18.1 – -19.8	24 – 25	0.4+ – 6+

<sup>1</sup> m RL – meters relative level.

<sup>2</sup> m bgl – meters below ground level.



Figure 2.2: Geotechnical investigation locations (Source: Geotechnical Assessment Report<sup>7</sup>).

## 2.5 Hydrogeology and hydrology

Both surface water and groundwater beneath the site are expected to follow ground topography and flow towards Harania Creek which in turn discharges to the Mangere Inlet, situated approximately 1 km north of the site. Portions of the site are located on flood plains/flood prone areas.

Based on Auckland Council Maps<sup>5</sup> groundwater in the area is part of the Manukau North Waitemata aquifer.

Groundwater was encountered in two CPTs and one hand auger advanced as part of the geotechnical investigation<sup>7</sup>. Depth to water ranged from 2.95 to 5.00 m bgl. It should be noted that water levels recorded from CPTs and hand augers (without screening) in saturated soils can appear higher than the actual levels. Further details are provided in the geotechnical investigation report<sup>7</sup>.

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<sup>7</sup> T+T, October 2024, *Harania Blue Green Networks Stage 2 – Geotechnical Assessment Report*. Prepared for Auckland Council, Ref: 1017033.2002 vA.

### 3 Historical review

Historical information relating to the site has been collected from a variety of sources including the historic aerial photographs, Auckland Council SCE, and Council provided information. This history focuses on onsite activities, except for the aerial photograph review where comments are also provided on readily observable surrounding land use. The information reviewed is summarised in the following sections.

#### 3.1 Historical aerial photographs

The site is located in Mangere East and is surrounded by a mixture of open space, residential and commercial/industrial land. Based on a review of the historical aerial imagery, the eastern and western compound has been reserve land since 1940. Whilst the embankment appears to have been constructed in circa 1959.

#### 3.2 Auckland Council SCE

There was no contamination information held within Council's records for the site. However, the SCE notes that the site is in close proximity to Harania/Marys Foreshore Reserve Closed Landfill. Based on a review of Auckland Council Geomaps, Harania/Marys Foreshore Reserve Closed Landfill is located 780 m north west of the site. As the landfill is located downgradient of the site, it is unlikely to pose a risk to the site and proposed development.

Council records within 200 m of the site indicated a HAIL activity is listed at 180 Savill Drive (170 m north of the site). The HAIL refers to historic reclamation infilling. A combined PSI and detailed site investigation (DSI) was undertaken by ENGEO. The site history review identified the site comprised of a clay cap (~3 m in thickness) over the top of reclamation fill. Auckland Council also indicated that there is a corresponding consent for contaminated site discharge to discharge leachate from a closed reclamation into the bunding materials, ground and ground water surrounding the reclamation materials. The consent holder is indicated as Pacific Steel Limited.

#### 3.3 Previous investigations

Whilst no investigations have been undertaken on the site to date, the following section provides a summary of the previous investigations undertaken within the vicinity of the site, and will be used in assessing the potential for contamination at the site. Investigation results for sediment samples were documented, however are outside of the scope of this report therefore have been excluded.

##### 3.3.1 Blake Road Stormwater Improvement – Geotechnical and Contaminated Land Assessment (AECOM, 2015)

In June 2015, AECOM New Zealand Limited (AECOM) undertook a combined geotechnical and contaminated land assessment at Blake Road Reserve to support the upgrade of the Blake Road Stormwater improvements Project. The location of the previous investigation in relation to the site is shown on Figure 3.1. Soil sampling was carried out at one hand auger locations (HA01), the results of the testing indicated:

- Concentrations of heavy metals were detected within the published non-volcanic background levels for Auckland.
- Total petroleum hydrocarbons and polycyclic aromatic hydrocarbon (PAH) compounds were not recorded above the laboratory limit of reporting.
- The assessment indicates that the soil quality does not pose an immediate risk to a commercial/industrial outdoor worker (unpaved).

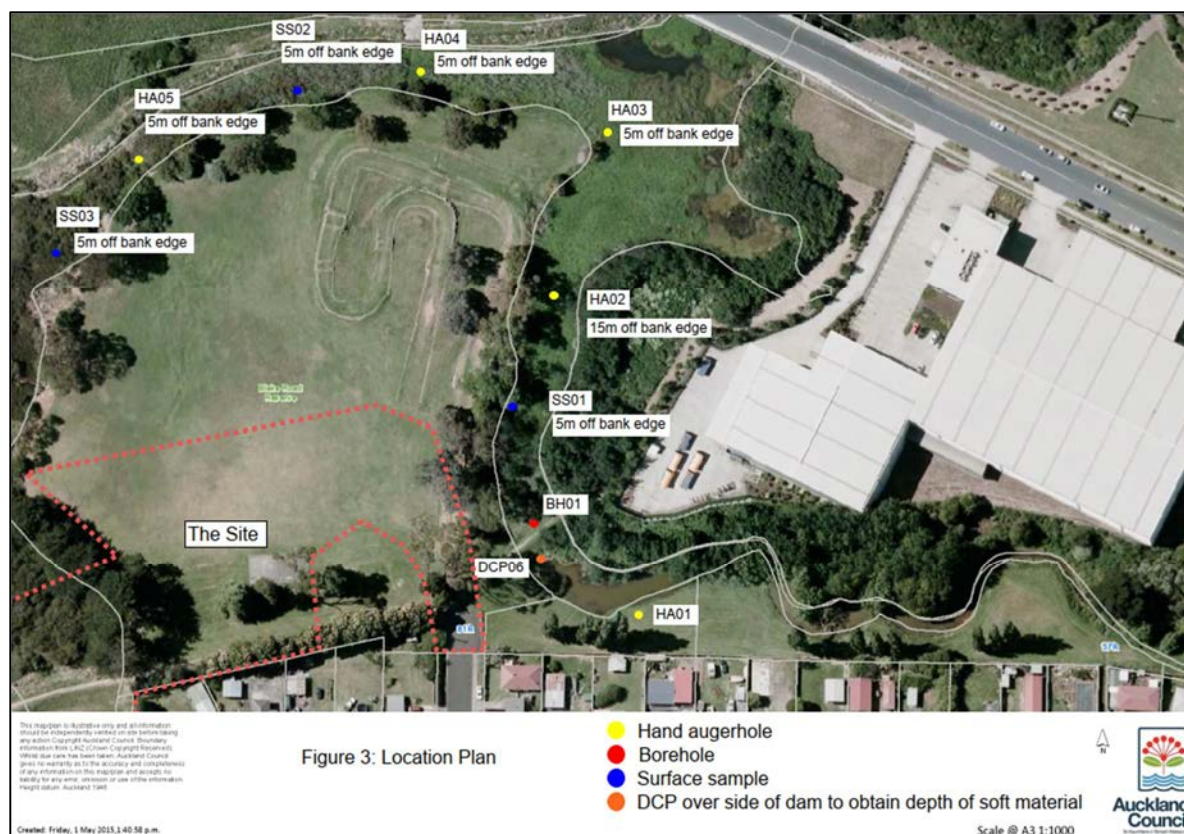


Figure 3.1: Locations of previous investigations. (Source: AECOM Geotechnical and Contaminated Land Assessment)



## 4 Potential for contamination

Based on the review of readily available site history information, there are a number of activities associated with previous site uses that have the potential to have caused ground contamination. Potentially contaminating activities identified for the site are presented in Table 4.1 along with an assessment of the likelihood, potential magnitude and possible extent of contamination resulting from past activities.

Table 4.1: Potential for contamination

Land use/activity	Potential contaminants	Likelihood, magnitude and possible extent of contamination	HAIL reference
Onsite			
Filling during embankment development	Variable depending on the source, but heavy metals, PAH, and asbestos containing materials (ACM) are common.	<p>Historical aerials indicate filling of the embankment occurred in circa 1959. Geotechnical borehole logs advanced during the 2024 investigations indicate that fill materials were encountered to a depth of 3.9 m to the southwest of the embankment in BH01, whilst natural materials were encountered at 0.3 m (underlying topsoil) to the east of the embankment in BH02. No obvious indications of contamination (odour, discoloration or demolition type material) was reported.</p> <p>Based on the investigations undertaken by AECOM, natural soils from within the Tauranga group are present onsite within the published non-volcanic background levels for Auckland.</p> <p>Using multiple lines of evidence based on the information reviewed, the fill is likely to be largely cleanfill. There is potential for isolated low level hydrocarbon and metals above published background concentrations to be present, but the likelihood of elevated metals and hydrocarbon contaminants above the AUP PA criteria and NESCS industrial/commercial use to be present is low.</p>	More likely than not HAIL Activity I (contaminants with concentrations that pose a risk to human health or the environment) does not apply.
Offsite			
Reclamation infilling at 180 Savill Drive	Variable depending on the source, but heavy metals, PAH, and ACM are common.	<p>Council files indicate that historic reclamation infilling occurred at 180 Savill Drive 170 m north of the site. A combined PSI/DSI was undertaken by ENGEO identified that the site comprised of a clay cap (~3 m in thickness) over the top of reclamation fill.</p> <p>In addition, records indicated that there is an occurring consent for contaminated site discharge for Pacific Steel Limited.</p>	Not considered a HAIL.

Land use/activity	Potential contaminants	Likelihood, magnitude and possible extent of contamination	HAIL reference
		Given the property is located downgradient of the site and that sediment and surface water is expected to flow to the northwest towards Mangere Inlet, T+T consider it is unlikely for the site to be affected by former reclamation filling activities.	

## 5 Preliminary conceptual site model

A conceptual model as defined by the Ministry for the Environment in the contaminated land management guidelines<sup>8</sup>, sets out known and potential sources of contamination, potential exposure pathways, and potential receptors. For there to be an effect from the proposed activity there has to be a contamination source and a mechanism (pathway) for contamination to affect human health or the environment (receptor).

A conceptual site model has been developed for the site which takes into account the available information about the site, and our understanding of the potential effects on human health and the environment resulting from the proposed works. The model is presented below.

The desk study indicates the potential sources of contamination that could impact the proposed works includes former filling during site development, refer Table 4.1. The key contaminants in soil, if any, are likely to be low level metals, petroleum hydrocarbons, and asbestos.

Receptors of identified contamination may include:

- i People – construction workers doing excavation work, disposal site operators and the general public.
- ii Environment – flora and fauna of the Harania Creek water courses in the vicinity of the site, and at disposal destinations.

The pathways by which the contamination sources can affect the receptors include:

- i Direct contact to soil by investigation staff, people undertaking earthworks and future site users.
- ii Inhalation of contaminated dust by excavation workers and general public in the vicinity of the works.
- iii Migration via runoff during works to nearest receiving environment (Harania Creek).
- iv Direct contact by the public offsite during any offsite transport/disposal of contaminated material.

The preliminary conceptual site model shows that it is more likely than not that the pathway for potential contamination to impact receptors is incomplete. Potential impacts can be further mitigated given the proposed staging of the earthworks, and earthwork controls outlined in the construction methodology detailed in the Assessment of Environmental Effects Report<sup>9</sup>.

The following potential ground contamination related aspects should be provided in the Construction Environmental Management Plan (CEMP) for the project:

- Soil sampling and testing for disposal purposes to support approvals for off-site disposal; and
- Procedures during discovery of any unexpected contamination.

The implications for consenting and managing potential contamination are discussed in further detail in the following section.

<sup>8</sup> Ministry for the Environment, updated 2021, *Contaminated Land Management Guidelines No. 5 Site Investigation and Analysis of Soils*.

<sup>9</sup> Beca Limited, November 2024, Harania Flood Resilience Works – Tennessee Bridge Assessment of Effects on the Environment

## 6 Implications for the proposed development

### 6.1 Regulatory

In the Auckland Region the key legislation and planning controls around contaminated sites are specified in the following documents.

- The NESCS;
- The Auckland Unitary Plan (AUP) – Operative in Part (herein referred to as the AUP); and
- Health and Safety at Work (Asbestos) Regulations 2016 (herein referred to as the Asbestos Regulations).

The NESCS regulations consider issues relating to land use and the protection of human health. The AUP has regard to issues relating to the protection of the general environment, including ecological receptors.

In order to help achieve compliance with the Asbestos Regulations, WorkSafe New Zealand has prepared an Approved Code of Practice (ACoP): Management and Removal of Asbestos (September 2016). The ACoP refers readers to the *“New Zealand Guidelines for Assessing and Managing Asbestos in Soil”* (herein referred to as the Asbestos-in-Soil Guidelines) which were published in November 2017 by BRANZ Ltd.

An initial assessment of the need, or otherwise, for ground contamination-related resource consents for the site redevelopment is provided in the following sections.

#### 6.1.1 NESCS

##### 6.1.1.1 Applicability

The NESCS came into effect on 1 January 2012. This legislation sets out nationally consistent planning controls appropriate to district and city councils for assessing contaminants in soil with regard to human health. As a result, the NESCS prevails over the rules in the District Plan, except where the rules permit or restrict effects that are not dealt with in the NESCS.

The NESCS applies to specific activities on land where a HAIL activity has, or is more likely than not to have occurred. Activities covered under the NESCS include soil disturbance, soil sampling, fuel systems removal, subdivision and land use change.

##### 6.1.1.2 NESCS activity status

Given the scale of the proposed development, the proposed works are unlikely to meet permitted activity thresholds of the NESCS<sup>10</sup>.

The information reviewed as part of this desk study indicates that it is more likely than not that HAIL activities have not occurred at the site and hence the NESCS would not apply.

However, given soil testing has not been undertaken, there is a risk that contamination may be encountered during works.

<sup>10</sup> Based on the site area (12,078 m<sup>2</sup>) the key NESCS PA thresholds are:

- Offsite soil disposal – 5 m<sup>3</sup> per 500 m<sup>2</sup>, equating to ~120 m<sup>3</sup> per year; and
- Soil disturbance – 25 m<sup>3</sup> per 500 m<sup>2</sup>, equating to ~604 m<sup>3</sup>; and
- Appropriate controls to protect human health and the environment must be in place; and

The works must be completed within 2 months.



Therefore, it is proposed to apply for a consent on a precautionary basis. This will be as a Controlled Activity under the Severe Weather Emergency Recovery (Auckland Flood Resilience Works) Order 2024

### 6.1.2 Activity under the Auckland Unitary Plan

The AUP (OP) was made operative in part on 15 November 2016. The contaminated land rules, set out in Chapter E: Environmental Risk Section E30, are not subject to any appeal, hence, the rules can now be 'treated as operative' under section 86F of the Resource Management Act 1991. Additionally, the provisions in the Auckland Council Regional Plan: Air Land and Water no longer need to be considered.

Table E30.6.1.4.1 of the AUP outlines the Permitted Activity (PA) soil acceptance criteria. For the proposed alignment, soil testing data in the areas of potential contamination where soil will be disturbed will be required to compare with the PA criteria to determine whether the contaminated land rules in Chapter E30 apply.

The contaminated land rules are set out in Chapter E Environmental Risk Section E30. To meet Permitted Activity provisions:

- Small scale disturbance of a site can be undertaken as a permitted activity subject to the controls in Rule E30.6.1.2 being complied with. The controls include advising Council prior to commencing the work, implementing measures and controls to minimise discharges of contaminants to the environment, the land is not to contain separate phase liquid contaminants. There is a restriction on the volume of soil to be disturbed (200 m<sup>3</sup> per site) and the duration of land disturbance (two months).
- Rule E30.6.1.4 states that if soil concentrations or the 95% upper confidence limit (UCL) of soil concentrations are below the permitted activity criteria specified in Table E30.6.1.4.1 (or those set out in part b of Rule E30.6.1.4), then consent is not required under the contaminated land provisions of the Unitary Plan. If soil contaminant concentrations exceed these criteria, or separate phase liquid contaminants are present, then consent for disturbing the site, or for ongoing discharge of contaminants from it, is required.

The proposed development plans indicate that earthworks on the site are likely to exceed 200 m<sup>3</sup> and will exceed two months in duration.

There is currently no evidence to suggest that elevated levels of contamination are present on the site. However, similarly to the NESCS, no testing has been undertaken to confirm if fill soils meet the AUP PA discharge criteria. Therefore, it is proposed to apply for a consent on a precautionary basis in the event that contamination is encountered during testing for disposal purposes or during works. As above, this will be as a Controlled Activity under the Severe Weather Emergency Recovery (Auckland Flood Resilience Works) Order 2024.

### 6.1.3 Asbestos Regulations

The asbestos regulations will only apply to future excavation works if asbestos is present in soils at the site at the time of the works. No demolition type material has been encountered which is usually an indication for asbestos to be present.

If asbestos is found during works, the Asbestos-in-Soil Guidelines define the level of oversight and controls (including personal protective equipment, decontamination etc.) that are required to be implemented. The type of controls required will be dependent on the concentration of asbestos fibres/fines or fragments that are present in the soils.

## 6.2 Proposed Management Measures

The following management measures are proposed to identify and manage any potential disturbance of contaminated land. These measures will be included in the CEMP prepared for the project:

- Site establishment controls;
- Sampling and contamination testing to assess fill soils prior to redevelopment. This is required to support disposal of fill to either a managed fill or cleanfill;
- Management procedures for unexpected contamination and contingency;
- Erosion and sediment control procedures; and
- Monitoring methods i.e. dust suppression.

## 6.3 Construction implications

Sampling and testing of fill that requires offsite disposal will need to be undertaken to support approvals from the disposal site. The type of disposal site will depend on the level of contaminants, for eg. landfill for elevated levels of contamination, managed fill for low to moderate levels of contamination or clean-fill for material that meets Council published background levels. Current rates for disposal vary around \$20-\$30 per tonne<sup>11</sup> for managed fill. If landfill disposal is required, gate rates are currently \$70 per tonne (or \$180 per tonne for asbestos is present in soil and possible higher if treatment is required prior to landfilling). It should be noted that the government's landfill levy increases are scheduled in 2024.

Based on the current conceptual site model, standard earthworks controls will be sufficient. The controls would be set out in a CEMP and should include protocols for managing discovery of unexpected contamination as described above.

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<sup>11</sup> Rates are indicative only at the time of writing and are not inclusive of excavation, transportation, contractor P&G and markup, escalation or GST.

## 7 Conclusions

T+T undertook a Preliminary Site Investigation of the Tennessee Bridge project site located at 81R Blake Road and 81R Archboyd Avenue, Mangere East to identify potential contamination sources through the site's history, and to assess the development and regulatory implications for future soil disturbance and/or land development activities.

The findings of the investigation can be summarised as follows:

- The site is located in Mangere East and is surrounded by a mixture of open space, residential and commercial/industrial land. The eastern compound of the site consist of Blake Road Reserve, whilst the western compound consists of the current embankment, mangroves and Harania Creek.
- Based on a review of the historical aerial imagery, the eastern and western compound has been reserve land since 1940. Whilst the embankment appears to have been constructed in circa 1959.
- A site walkover was undertaken on 29 August 2024. There was no evidence of spills, staining or hazardous materials observed during the site walkover.
- Previous investigations undertaken at Blake Road Reserve to the east of the site indicate concentrations of heavy metals and petroleum hydrocarbons below the published non-volcanic background levels for Auckland in soil.
- Geotechnical investigations at the site indicate some fill. No obvious indications of contaminants (odour, discoloration or demolition material) was encountered during the investigations
- The desk study indicates the potential sources of contamination that could impact the proposed works includes former filling during site development. The key contaminants in soil, if any, are likely to be low level metals, petroleum hydrocarbons, and asbestos.
- The preliminary conceptual site model shows that it is more likely than not that the pathway for potential for contamination to impact receptors is incomplete.
- The information reviewed as part of this desk study indicates that it is more likely than not that HAIL activities have not occurred at the site and hence the NESCS and Chapter E30 of the AUP would not apply.
- However, given only very limited testing of the fill has been undertaken it is proposed to apply for a consent under the AUP and NESCS on a precautionary basis. This will be as a Controlled Activity under the Severe Weather Emergency Recovery (Auckland Flood Resilience Works) Order 2024.
- The following management measures are proposed:
  - Sampling and contamination testing to assess fill soils prior to redevelopment. This would have been required to support disposal of fill to either a managed fill or cleanfill, irrespective of whether a consent is applied for.
  - Preparation of a CEMP that includes site management procedures outlining how works would be managed and protocols for discovery of unexpected contamination. It is anticipated that the CEMP will include the following:
    - o Site establishment controls;
    - o Management procedures for unexpected contamination and contingency;
    - o Erosion and sediment control procedures; and
    - o Monitoring methods i.e. dust suppression.

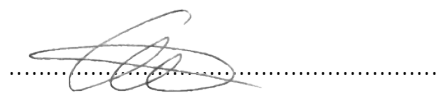
## 8 Applicability

This report has been prepared for the exclusive use of our client Auckland Council, with respect to the particular brief given to us and it may not be relied upon in other contexts or for any other purpose, or by any person other than our client, without our prior written agreement.

We understand and agree that our client will submit this report as part of an application for resource consent and that Auckland Council as the consenting authority will use this report for the purpose of assessing that application.

Tonkin & Taylor Ltd  
Environmental and Engineering Consultants

Report prepared by:



Carmen Thornton  
Contaminated Land Consultant

Authorised for Tonkin & Taylor Ltd by:



Chris Bauld  
Project Director

Report certified by a suitably qualified and experienced practitioner as prescribed under the NES (Soil) Users Guide (April 2012) – Lean Phuah – Senior Environmental Engineer

cave

\\ttgroup.local\corporate\aukland\projects\1017033\1017033.2002\issueddocuments\2024.10.25 - issued for resource consent\contaminated land\tt1017033.2002\_preliminary site investigation\_harania pipe bridge design\_v2\_final.docx



## Appendix A      Development plans

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NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.

2. COORDINATE DATUM: NZGD2000, NZTM COORDINATES.

3. LEVEL DATUM: NZVD 2016

4. AERIAL IMAGE SOURCED FROM AUCKLAND COUNCIL GIS VIEWER, LICENSED FOR RE-USE UNDER THE CREATIVE COMMONS ATTRIBUTION 4.0 INTERNATIONAL LICENCE. ACCESSED 24 JULY 2024.

5. LOCATION OF ALL EXISTING SERVICES HAVE BEEN SOURCED FROM TOPOGRAPHICAL SURVEY PROVIDED BY THE AUCKLAND COUNCIL GIS GEO MAPS AND FULTON HOGAN RECEIVED 27TH SEPTEMBER 2024.

6. EXISTING CONTOURS HAVE BEEN SOURCED FROM TOPOGRAPHICAL SURVEY PROVIDED BY FULTON HOGAN RECEIVED ON 27TH SEPTEMBER 2024.

7. LOCATION, SIZE AND ALIGNMENT OF THE PROPOSED WW TRANSMISSION LINE, SUPPORT COLUMNS/PIERS AND CHAMBERS PROVIDED BY ACH CONSULTANTS VIA IFC FILE.

8. EXISTING WW TRANSMISSION LINE INVERTS AND LEVELS HAVE BEEN SOURCED FROM THE AUCKLAND COUNCIL GIS GEO MAPS.

9. LOCATIONS OF EXISTING SERVICES MAY VARY FROM THAT SHOWN AND SHOULD BE CHECKED ON SITE.

10. TEMPORARY WORKS IS NOT INCLUDED. REFER TO FULTON HOGAN DESIGN METHODOLOGY.

LEGEND

---

WW

---

EXISTING WASTEWATER PIPE


---

PROPERTY BOUNDARY

---

EXTENT OF WORKS



<div><div>Tonkin+Taylor</div><div>www.tonkintaylor.co.nz</div></div>			1	FOR RESOURCE CONSENT	ALPO	ANST	30.10.2024	DESIGNED	PP	OCT.24	DRAWING STATUS RESOURCE CONSENT PROJECT PHASE	CLIENT <b>HEALTHY WATERS</b> PROJECT <b>HARANIA BLUE GREEN NETWORKS STAGE 2</b> TITLE <b>TENNESSEE GENERAL ARRANGEMENT OVERALL LAYOUT</b> SCALE (A1) 1:1000      DWG No. 1017033.2002-0010      REV 1
								DRAWN	ALPO	OCT.24		
								DESIGN CHECKED	ANST	30.10.24		
								DRAWING CHECKED	JABR	30.10.24		
								NOT FOR CONSTRUCTION		THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION PURPOSES UNLESS SIGNED AS APPROVED		
REV		DESCRIPTION		CAD	CHK	DATE	APPROVED		DATE			



NOTES

1. AERIAL IMAGE SOURCED FROM AUCKLAND COUNCIL GIS VIEWER, LICENSED FOR RE-USE UNDER THE CREATIVE COMMONS ATTRIBUTION 4.0 INTERNATIONAL LICENCE. ACCESSED 24 JULY 2024.

LEGEND

2.0

EXISTING MAJOR CONTOUR (2m)

EXISTING MINOR CONTOUR (0.25m)

PROPERTY BOUNDARY

W

EXISTING WATER PIPE

SW

EXISTING STORMWATER PIPE

WW

EXISTING WASTEWATER PIPE

STREAM CENTRE LINE



T+T

Tonkin+Taylor

www.tonkintaylor.co.nz

1	FOR RESOURCE CONSENT	ALPO	ANST	30.10.2024	DESIGNED DRAWN DESIGN CHECKED DRAWING CHECKED	PP ALPO ANST JABR	OCT.24 OCT.24 30.10.24 30.10.24	DRAWING STATUS RESOURCE CONSENT PROJECT PHASE	CLIENT HEALTHY WATERS PROJECT HARANIA BLUE GREEN NETWORKS STAGE 2 TITLE TENNESSEE GENERAL ARRANGEMENT EXISTING SITE PLAN SCALE (A1) 1:250 DWG No. 1017033.2002-0020 REV 1
REV	DESCRIPTION	CAD	CHK	DATE	APPROVED		DATE		

NOT FOR CONSTRUCTION

THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION PURPOSES UNLESS SIGNED AS APPROVED



NOTES

ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.  
1. COORDINATE DATUM: NZGD2000, NZTM COORDINATES.  
2. LEVEL DATUM: NZVD 2016  
3. AERIAL IMAGE SOURCED FROM AUCKLAND COUNCIL GIS VIEWER, LICENSED FOR RE-USE UNDER THE CREATIVE COMMONS ATTRIBUTION 4.0 INTERNATIONAL LICENCE. ACCESSED 24 JULY 2024.  
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6. EXISTING CONTOURS HAVE BEEN SOURCED FROM TOPOGRAPHICAL SURVEY PROVIDED BY FULTON HOGAN RECEIVED ON 27TH SEPTEMBER 2024.  
7. LOCATION, SIZE AND ALIGNMENT OF THE PROPOSED WW TRANSMISSION LINE, SUPPORT COLUMNS/PIERS AND CHAMBERS PROVIDED BY ACH CONSULTANTS VIA IFC FILE.  
8. LOCATION AND EXISTING ALIGNMENT OF THE WW TRANSMISSION LINE WERE SOURCED FROM TOPOGRAPHICAL SURVEY PROVIDED BY THE CONTRACTOR AND FROM THE AUCKLAND COUNCIL GIS GEO MAPS.  
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10. TEMPORARY WORKS IS NOT INCLUDED. REFER TO FULTON HOGAN DESIGN METHODOLOGY.

LEGEND

1.0

DESIGN MAJOR CONTOUR (1m)

0.25m

DESIGN MINOR CONTOUR (0.25m)

2.0

EXISTING MAJOR CONTOUR (2m)

0.25m

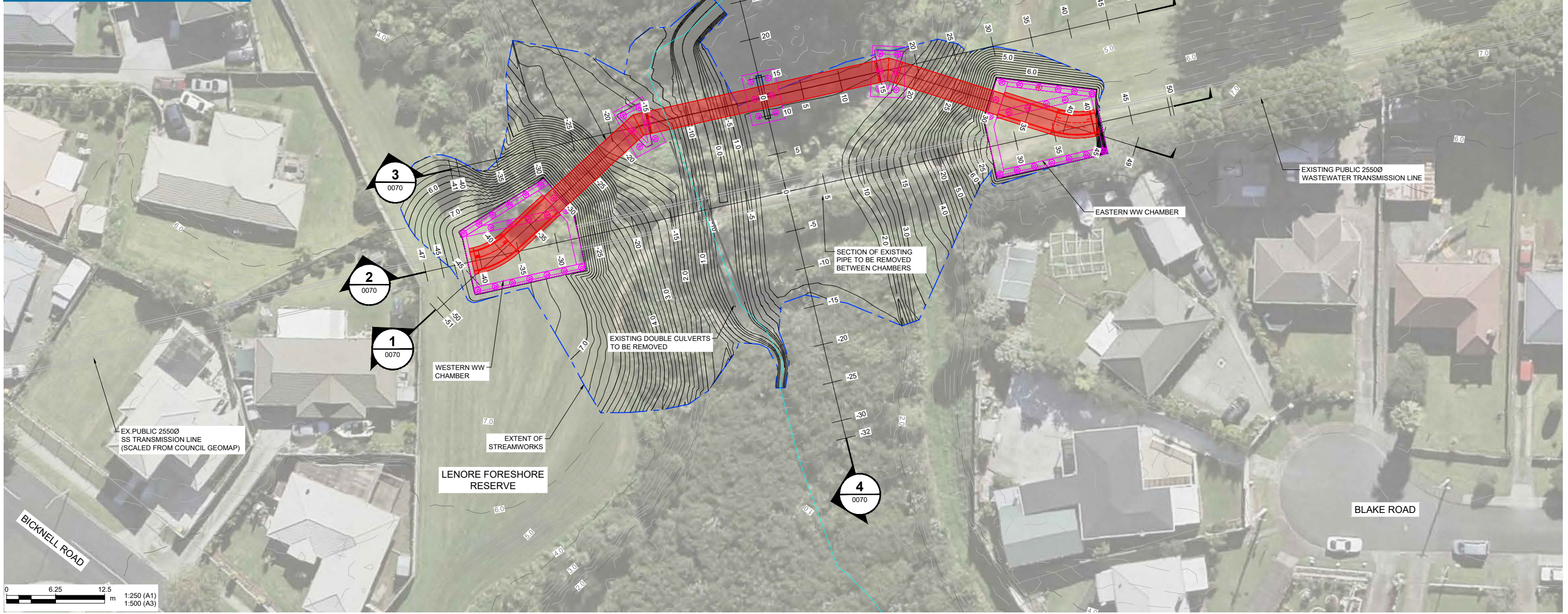
EXISTING MINOR CONTOUR (0.25m)

PROPERTY BOUNDARY

PIPE BRIDGE PIER AND CHAMBER

PROPOSED WASTEWATER LINE

EXTENT OF STREAMWORKS



<div><div><div></div></div><div>Tonkin+Taylor</div></div> <div>www.tonkintaylor.co.nz</div>		<div>1</div> <div>FOR RESOURCE CONSENT</div>	<div>CAD</div> <div>CHK</div> <div>ANST</div> <div>30.10.2024</div>	<div>DESIGNED</div> <div>PP</div> <div>OCT.24</div>		<div>DRAWING STATUS</div> <div>RESOURCE CONSENT</div> <div>PROJECT PHASE</div>	<div>CLIENT</div> <div>HEALTHY WATERS</div> <div>PROJECT</div> <div>HARANIA BLUE GREEN NETWORKS STAGE 2</div> <div>TITLE</div> <div>TENNESSEE GENERAL ARRANGEMENT</div> <div>PROPOSED SITE PLAN</div>
<div>DRAWN</div> <div>ALPO</div> <div>OCT.24</div>							
<div>DESIGN CHECKED</div> <div>ANST</div> <div>30.10.24</div>							
<div>DRAWING CHECKED</div> <div>JABR</div> <div>30.10.24</div>							
		<div>NOT FOR CONSTRUCTION</div> <div>THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION PURPOSES UNLESS SIGNED AS APPROVED</div>				<div>SCALE (A1)</div> <div>1:250</div> <div>DWG No.</div> <div>1017033.2002-0040</div> <div>REV</div> <div>1</div>	
REV		DESCRIPTION		APPROVED		DATE	



ISOPACH CONTOUR LEGEND			
Lower_value	Upper_value		
-7.0	to	-6.0	m
-6.0	to	-5.0	m
-5.0	to	-4.0	m
-4.0	to	-3.0	m
-3.0	to	-2.0	m
-2.0	to	-1.0	m
-1.0	to	-0.2	m
-0.2	to	0.0	m
0.0	to	0.2	m
0.2	to	1.0	m
1.0	to	2.0	m
2.0	to	3.0	m
3.0	to	4.0	m
4.0	to	5.0	m
5.0	to	6.0	m
6.0	to	7.0	m

APPROXIMATE VOLUMES (m³)	
TOTAL CUT	3630
TOTAL FILL	520
TOTAL BALANCE	3110

NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.

2. COORDINATE DATUM: NZGD2000, NZTM COORDINATES.

3. LEVEL DATUM: NZVD 2016

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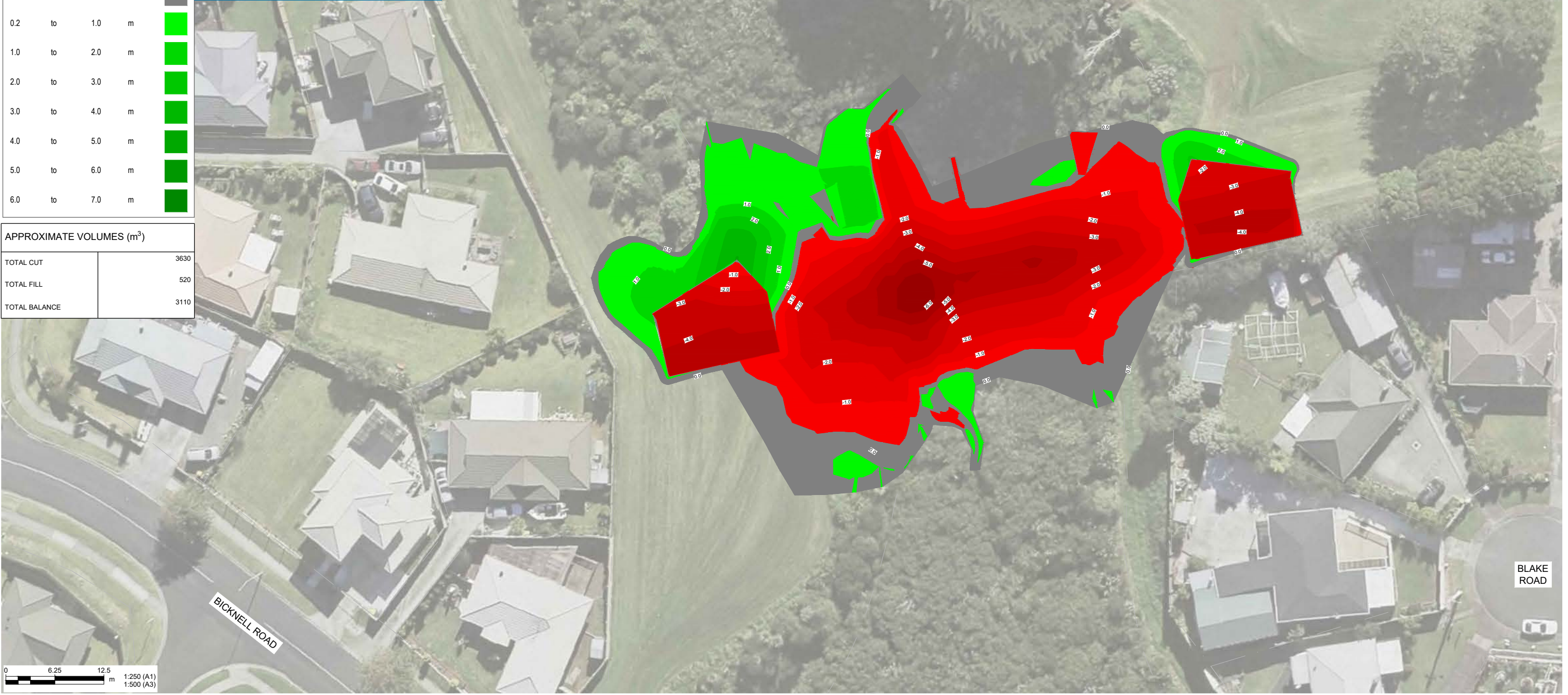
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LEGEND

PROPERTY BOUNDARY

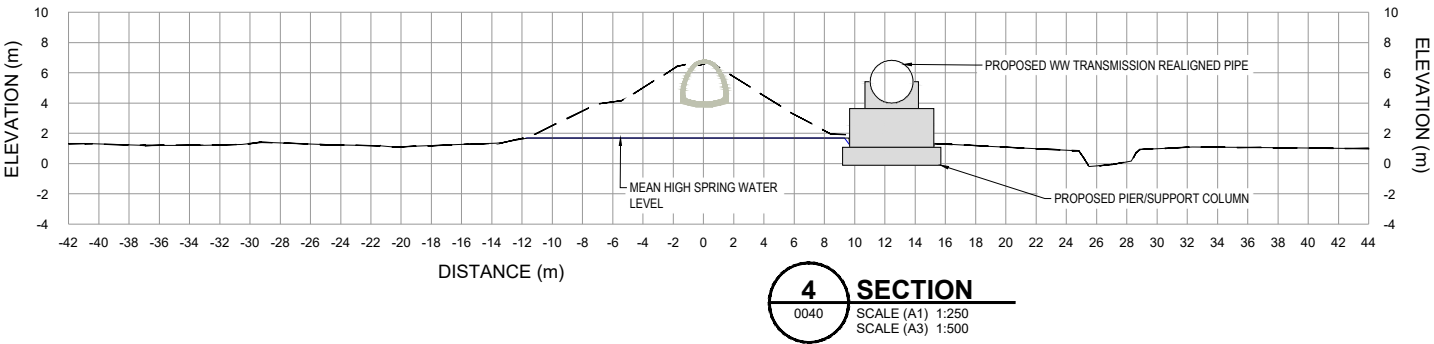
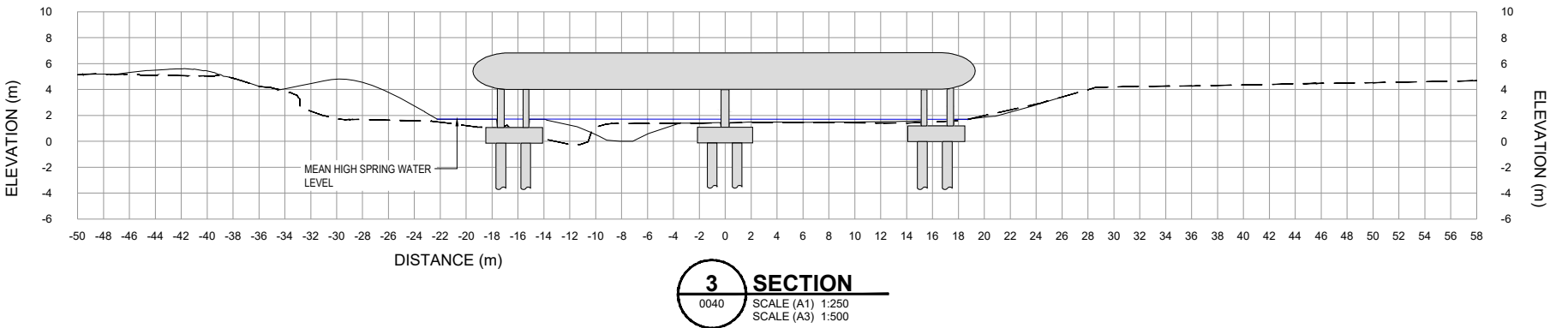
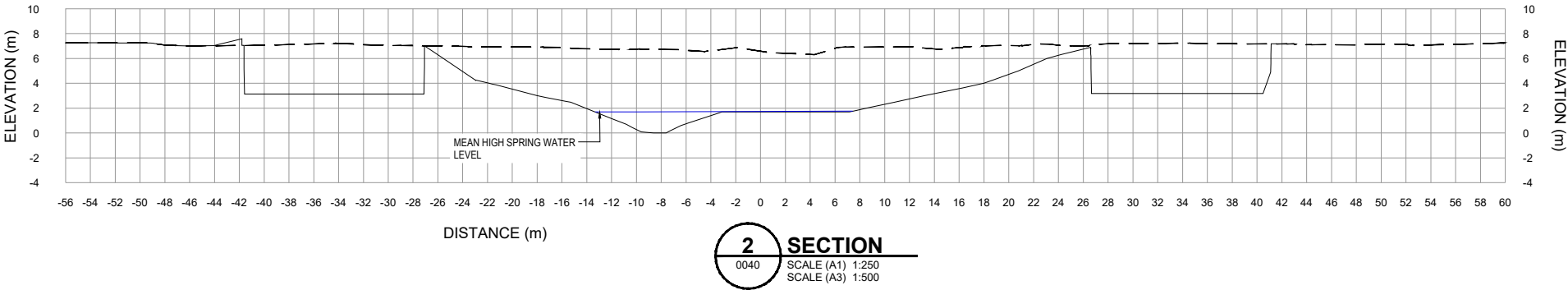
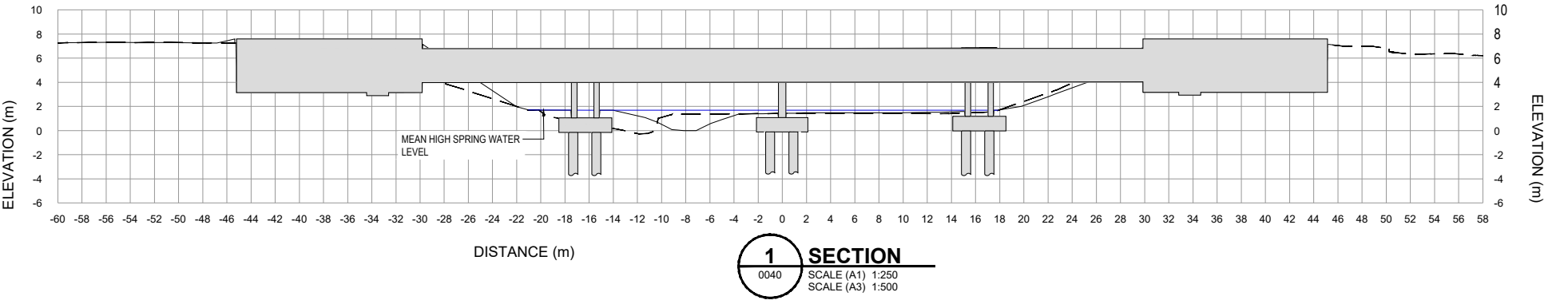


LEGEND

DESIGN SURFACE

EXISTING GROUND

MEAN HIGH WATER SPRING LEVEL



1	FOR RESOURCE CONSENT	ALPO	ANST	25.10.2024	DESIGNED	PP	OCT.24	DRAWING STATUS
					DRAWN	ALPO	OCT.24	RESOURCE CONSENT
					DESIGN CHECKED	ANST	25.10.24	PROJECT PHASE
					DRAWING CHECKED	JABR	25.10.24	
					NOT FOR CONSTRUCTION			
REV	DESCRIPTION	CAD	CHK	DATE	APPROVED	DATE		

CLIENT	HEALTHY WATERS
PROJECT	HARANIA BLUE GREEN NETWORKS STAGE 2
TITLE	TENNESSEE GENERAL ARRANGEMENT CROSS SECTIONS
SCALE (A1)	1:250
DWG No.	1017033.2002-0070
REV	1

## Appendix B      Borehole logs

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# BOREHOLE LOG

**BOREHOLE No.:** BH01

**Hole Location:** South-west of the pipe bridge

**SHEET:** 3 OF 5

PROJECT: Harania Pipe Bridge				LOCATION: Blake Road Reserve				JOB No.: 1017033.2002																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
CO-ORDINATES: 5908627.53 mN (NZTM2000) 1761926.88 mE				DRILL TYPE: MM3				HOLE STARTED: 12/08/2024																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
R.L.: 6.97m				METHOD: Rotary cored				HOLE FINISHED: 12/08/2024																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
DATUM: NZVD2016				DRILL FLUID: WATER				DRILLED BY: McMillan Drilling		LOGGED BY: JBER		CHECKED: BEWE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
GEOLOGICAL		METHOD OBSERVATIONS						ENGINEERING DESCRIPTION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
GEOLOGICAL UNIT/ ADDITIONAL OBSERVATIONS		FLUID LOSS (%)		WATER		CASING		CORE RECOVERY (%)		METHOD		TESTS		RL (m)		DEPTH (m)		GRAPHIC LOG		WEATHERING CLASSIFICATION		MOISTURE CLASSIFICATION		CONSISTENCY / DENSITY CLASSIFICATION		ESTIMATED SOIL SHEAR STRENGTH (kPa)		ESTIMATED ROCK COMPRESSIVE STRENGTH (MPa)		DEFECT SPACING (mm)		DESCRIPTION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Takaanini Fm (Hobsonville member)								57	RC																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	

COMMENTS:

Hole Depth  
25.5m

Scale 1:26

Rev.: A



# BOREHOLE LOG

**BOREHOLE No.: BH01**

Hole Location: South-west of the pipe bridge

SHEET: 4 OF 5

PROJECT: Harania Pipe Bridge						LOCATION: Blake Road Reserve						JOB No.: 1017033.2002																					
CO-ORDINATES: 5908627.53 mN (NZTM2000) 1761926.88 mE						DRILL TYPE: MM3						HOLE STARTED: 12/08/2024																					
R.L.: 6.97m						METHOD: Rotary cored						HOLE FINISHED: 12/08/2024																					
DATUM: NZVD2016						DRILL FLUID: WATER						DRILLED BY: McMillan Drilling																					
												LOGGED BY: JBER																					
												CHECKED: BEWE																					
GEOLOGICAL		METHOD OBSERVATIONS						ENGINEERING DESCRIPTION																									
GEOLOGICAL UNIT/ ADDITIONAL OBSERVATIONS		FLUID LOSS (%)		WATER		CASING		CORE RECOVERY (%)		METHOD		TESTS		RL (m)		DEPTH (m)		GRAPHIC LOG		WEATHERING CLASSIFICATION		MOISTURE CLASSIFICATION		CONSISTENCY / DENSITY CLASSIFICATION		ESTIMATED SOIL SHEAR STRENGTH (kPa, kPa)		ESTIMATED ROCK COMPRESSIVE STRENGTH (kPa, MPa)		DEFECT SPACING (mm)		DESCRIPTION	
Takaanini Formation							100		RC						-9	16					M		VSt								[CONT] 14.20m: Clayey SILT, trace sand; greenish grey. Very stiff, moist, medium plasticity. Sand, fine.		
																															17.20m: Silty PEAT, trace clay; black. Firm, moist.		
							87		RC														F								17.40m: Clayey SILT, trace sand; greenish grey. Very stiff, moist, medium plasticity. Sand, fine.		
																							VSt								17.70m: CORE LOSS.		
																-11	18					M		VSt							18.00m: Clayey SILT, trace sand; greenish grey. Very stiff, moist, medium plasticity. Sand, fine.		
Takaanini Fm (Hobsonville member)							100		RC						-12	19							D								18.60m: Silty fine to coarse SAND; greenish grey. Dense, moist. Sand, pumiceous.		
																														19.20m: Minor silt.			
East Coast Bays Formation							100		RC						-13	20					CW		EW								19.60m: Completely weathered, dark green, SILTSTONE. Extremely weak. Recovered as SILT, minor clay, moist, low plasticity.		
COMMENTS:																																	
Hole Depth 25.5m																																	
Scale 1:26																																	

**BOREHOLE LOG**

BOREHOLE No.: **BH01**  
Hole Location: South-west of the pipe bridge  
SHEET: 5 OF 5

PROJECT: Harania Pipe Bridge						LOCATION: Blake Road Reserve						JOB No.: 1017033.2002																					
CO-ORDINATES: 5908627.53 mN (NZTM2000) 1761926.88 mE						DRILL TYPE: MM3						HOLE STARTED: 12/08/2024																					
R.L.: 6.97m						METHOD: Rotary cored						HOLE FINISHED: 12/08/2024																					
DATUM: NZVD2016						DRILL FLUID: WATER						DRILLED BY: McMillan Drilling																					
						LOGGED BY: JBER						CHECKED: BEWE																					
GEOLOGICAL		METHOD OBSERVATIONS						ENGINEERING DESCRIPTION																									
GEOLOGICAL UNIT/ ADDITIONAL OBSERVATIONS		FLUID LOSS (%)		WATER		CASING		CORE RECOVERY (%)		METHOD		TESTS		RL (m)		DEPTH (m)		GRAPHIC LOG		WEATHERING CLASSIFICATION		MOISTURE CLASSIFICATION		CONSISTENCY / DENSITY CLASSIFICATION		ESTIMATED SOIL SHEAR STRENGTH (kPa, kPa)		ESTIMATED ROCK COMPRESSIVE STRENGTH (kPa, MPa)		DEFECT SPACING (mm)		DESCRIPTION	
East Coast Bays Formation								100		RC				14		21				CW				EW								[CONT] 19.60m : Completely weathered, dark green, SILTSTONE. Extremely weak. Recovered as SILT, minor clay, moist, low plasticity.	
								83		RC				15		22				MW												21.50 - 25.00m: Moderately weathered.	
								100		RC				16		23																	
														17		24																	
								80		RC				18		25				SW				VW								24.80m: CORE LOSS.	
																																25.00m: Slightly weathered, grey with some dark green, SANDSTONE. Very weak.	
																																25.5m: Target depth	
COMMENTS:																																	
Hole Depth 25.5m																																	

# CORE PHOTOS

BOREHOLE No.: **BH01**  
Hole Location: South-west of the pipe bridge  
SHEET: 1 OF 5

PROJECT: Harania Pipe Bridge		LOCATION: Blake Road Reserve	JOB No.: 1017033.2002
CO-ORDINATES:	5908627.53 mN (NZTM2000) 1761926.88 mE	DRILL TYPE: MM3	HOLE STARTED: 12/08/2024
R.L.:	6.97m	METHOD: Rotary cored	HOLE FINISHED: 12/08/2024
DATUM:	NZVD2016	DRILL FLUID: WATER	DRILLED BY: McMillan Drilling
			LOGGED BY: JBER      CHECKED: BEWE



0.00-3.00m



3.00-6.00m



# CORE PHOTOS

BOREHOLE No.: **BH01**  
Hole Location: South-west of the pipe bridge  
SHEET: 2 OF 5

PROJECT: Harania Pipe Bridge		LOCATION: Blake Road Reserve	JOB No.: 1017033.2002
CO-ORDINATES: (NZTM2000)	5908627.53 mN 1761926.88 mE	DRILL TYPE: MM3	HOLE STARTED: 12/08/2024
R.L.:	6.97m	METHOD: Rotary cored	HOLE FINISHED: 12/08/2024
DATUM:	NZVD2016	DRILL FLUID: WATER	DRILLED BY: McMillan Drilling
			LOGGED BY: JBER      CHECKED: BEWE



6.00-9.00m



9.00-12.00m



# CORE PHOTOS

BOREHOLE No.: **BH01**  
Hole Location: South-west of the pipe bridge  
SHEET: 3 OF 5

PROJECT: Harania Pipe Bridge		LOCATION: Blake Road Reserve	JOB No.: 1017033.2002
CO-ORDINATES: (NZTM2000)	5908627.53 mN 1761926.88 mE	DRILL TYPE: MM3	HOLE STARTED: 12/08/2024
R.L.:	6.97m	METHOD: Rotary cored	HOLE FINISHED: 12/08/2024
DATUM:	NZVD2016	DRILL FLUID: WATER	DRILLED BY: McMillan Drilling
			LOGGED BY: JBER      CHECKED: BEWE



12.00-15.00m



15.00-18.00m



# CORE PHOTOS

BOREHOLE No.: <b>BH01</b>
Hole Location: South-west of the pipe bridge
SHEET: 4 OF 5

PROJECT: Harania Pipe Bridge	LOCATION: Blake Road Reserve	JOB No.: 1017033.2002
CO-ORDINATES: 5908627.53 mN (NZTM2000) 1761926.88 mE	DRILL TYPE: MM3	HOLE STARTED: 12/08/2024
R.L.: 6.97m	METHOD: Rotary cored	HOLE FINISHED: 12/08/2024
DATUM: NZVD2016	DRILL FLUID: WATER	DRILLED BY: McMillan Drilling
		LOGGED BY: JBER CHECKED: BEWE



18.00-21.00m



21.00-24.00m



# CORE PHOTOS

BOREHOLE No.: **BH01**

Hole Location: South-west of the pipe bridge

SHEET: 5 OF 5

PROJECT: Harania Pipe Bridge		LOCATION: Blake Road Reserve	JOB No.: 1017033.2002
CO-ORDINATES:	5908627.53 mN (NZTM2000) 1761926.88 mE	DRILL TYPE: MM3	HOLE STARTED: 12/08/2024
R.L.:	6.97m	METHOD: Rotary cored	HOLE FINISHED: 12/08/2024
DATUM:	NZVD2016	DRILL FLUID: WATER	DRILLED BY: McMillan Drilling
			LOGGED BY: JBER CHECKED: BEWE



24.00-25.50m

# BOREHOLE LOG

**BOREHOLE No.:** BH02

**Hole Location:** North-east of the pipe bridge

**SHEET:** 1 OF 6

PROJECT: Harania Pipe Bridge				LOCATION: Blake Road Reserve				JOB No.: 1017033.2002									
CO-ORDINATES:		5908667.39 mN (NZTM2000) 1761981.70 mE		DRILL TYPE: MM3				HOLE STARTED: 12/08/2024									
R.L.:		4.17m		METHOD: Rotary cored				HOLE FINISHED: 13/08/2024									
DATUM:		NZVD2016		DRILL FLUID: WATER				LOGGED BY: JBER		CHECKED: BEWE							
GEOLOGICAL		METHOD OBSERVATIONS						ENGINEERING DESCRIPTION									
GEOLOGICAL UNIT/ ADDITIONAL OBSERVATIONS		FLUID LOSS (%)	WATER	CASING	CORE RECOVERY (%)	METHOD	TESTS	RL (m)	DEPTH (m)	GRAPHIC LOG	WEATHERING CLASSIFICATION	MOISTURE CLASSIFICATION	CONSISTENCY / DENSITY CLASSIFICATION	ESTIMATED SOIL SHEAR STRENGTH (So, kPa)	ESTIMATED ROCK COMPRESSIVE STRENGTH (σ <sub>cr</sub> , kPa)	DEFECT SPACING (mm)	DESCRIPTION
Topsoil								4				M	F				0.00m: SILT, minor clay; dark brown. Firm, moist, low plasticity.
Takaanini Formation					100	HA			1				St				0.30m: Silty CLAY, trace rootlets and trace sand; orange brown with grey. Firm, moist, medium plasticity. Sand, fine.  0.60 - 1.50m: Stiff.
								3				VSt				1.50m: Silty CLAY, trace rootlets and trace sand; light grey mottled orange. Very stiff, moist, medium plasticity. Sand, fine.	
					100	RC		2					L				1.90m: Clayey sandy SILT; light grey mottled orange. Very stiff, moist, medium plasticity. Sand, fine.
								3									2.80m: Silty fine to medium SAND; light grey mottled orange. Loose, moist.
Takaanini Fm (Hobsonville member)									1								3.00m: CORE LOSS - Suspect washed out.
					53	RC		4			M	VSt				3.70m: Clayey SILT, trace rootlets and trace sand; greenish grey mottled orange. Very stiff, moist, medium plasticity. Sand, fine.	
													L				4.40m: Fine to medium SAND, trace silt; grey speckled white. Loose, moist. Sand, pumiceous.
					100	RC		5					VSt				4.70m: SILT, some clay, trace sand; grey. Very stiff, moist, low to medium plasticity. Sand, fine.
COMMENTS:																	
Hole Depth 30m																	

# BOREHOLE LOG

**BOREHOLE No.: BH02**

**Hole Location:** North-east of the pipe bridge

**SHEET:** 2 OF 6

PROJECT: Harania Pipe Bridge		LOCATION: Blake Road Reserve		JOB No.: 1017033.2002	
CO-ORDINATES: 5908667.39 mN (NZTM2000) 1761981.70 mE		DRILL TYPE: MM3		HOLE STARTED: 12/08/2024	
R.L.: 4.17m		METHOD: Rotary cored		HOLE FINISHED: 13/08/2024	
DATUM: NZVD2016		DRILL FLUID: WATER		DRILLED BY: McMillan Drilling	
				LOGGED BY: JBER	
				CHECKED: BEWE	

GEOLOGICAL		METHOD OBSERVATIONS										ENGINEERING DESCRIPTION												
GEOLOGICAL UNIT/ ADDITIONAL OBSERVATIONS		FLUID LOSS (%)		WATER	CASING	CORE RECOVERY (%)	METHOD	TESTS	RL (m)	DEPTH (m)	GRAPHIC LOG	WEATHERING CLASSIFICATION	MOISTURE CLASSIFICATION		CONSISTENCY / DENSITY CLASSIFICATION		ESTIMATED SOIL SHEAR STRENGTH (kPa)		ESTIMATED ROCK COMPRESSIVE STRENGTH (MPa)		DEFECT SPACING (mm)		DESCRIPTION	
		15	30										15	30	15	30	15	30	15	30	15	30		15
Takaanini Fm (Hobsonville member)						100	RC	BH02-S3 @ 5.60m		-1			M	VSt									[CONT] 4.70m: SILT, some clay, trace sand; grey. Very stiff, moist, low to medium plasticity. Sand, fine.	
										6			L										5.90m: Fine to medium SAND, trace silt; grey speckled white. Loose, moist. Sand, pumiceous.	
										-2			F-St										6.10m: SILT, some clay, trace sand; grey. Firm to stiff, moist, low to medium plasticity. Sand, fine, pumiceous.	
						100	RC	BH02-S4 @ 6.50m					L										6.60m: Fine to medium SAND, trace silt; grey speckled white. Loose, moist. Sand, pumiceous.	
										7			St										6.75m: SILT, some clay, trace sand; grey. Stiff, moist, low to medium plasticity. Sand, fine, pumiceous.	
										-3			L										7.10m: Fine to medium SAND, trace silt; grey. Loose, moist. Sand, pumiceous.	
													St										7.30m: Sandy SILT, trace clay; dark grey. Stiff, moist, low plasticity. Sand, fine, pumiceous.	
											8			L									7.90m: Fine to medium SAND, trace silt; dark grey. Loose, moist. Sand, pumiceous.	
						63	RC	BH02-S6 @ 8.20m		-4														8.45m: CORE LOSS - Suspect washed out.
											9			M	L									9.00m: Fine to medium SAND, trace silt; dark grey. Loose, moist. Sand, pumiceous.
					53	RC			-5														9.80m: CORE LOSS - Suspect washed out.	
										10														

COMMENTS:

Hole Depth  
30m

Scale 1:26



# BOREHOLE LOG

**BOREHOLE No.:** BH02

**Hole Location:** North-east of the pipe bridge

**SHEET:** 4 OF 6

PROJECT: Harania Pipe Bridge						LOCATION: Blake Road Reserve						JOB No.: 1017033.2002																					
CO-ORDINATES: 5908667.39 mN (NZTM2000) 1761981.70 mE						DRILL TYPE: MM3						HOLE STARTED: 12/08/2024																					
R.L.: 4.17m						METHOD: Rotary cored						HOLE FINISHED: 13/08/2024																					
DATUM: NZVD2016						DRILL FLUID: WATER						DRILLED BY: McMillan Drilling																					
												LOGGED BY: JBER																					
												CHECKED: BEWE																					
GEOLOGICAL		METHOD OBSERVATIONS								ENGINEERING DESCRIPTION																							
GEOLOGICAL UNIT/ ADDITIONAL OBSERVATIONS		FLUID LOSS (%)		WATER		CASING		CORE RECOVERY (%)		METHOD		TESTS		RL (m)		DEPTH (m)		GRAPHIC LOG		WEATHERING CLASSIFICATION		MOISTURE CLASSIFICATION		CONSISTENCY / DENSITY CLASSIFICATION		ESTIMATED SOIL SHEAR STRENGTH (kPa)		ESTIMATED ROCK COMPRESSIVE STRENGTH (MPa)		DEFECT SPACING (mm)		DESCRIPTION	
Takaanini Formation								100		RC						16				M		VSt										15.30m: Clayey SILT; greenish grey. Very stiff, moist, medium plasticity.	
								100		RC						17																	
								100		RC						13																	
East Coast Bays Formation								100		RC						18				CW		EW										17.70m: Completely weathered, greyish brown, SILTSTONE. Extremely weak. Recovered as SILT, trace clay; greyish brown. Hard, moist, low plasticity.	
								100		RC						14																	
								100		RC						19																	
								100		RC						20																	
														15																			
														16																			
COMMENTS:																																	
Hole Depth 30m																																	





# BOREHOLE LOG

**BOREHOLE No.:** BH02

**Hole Location:** North-east of the pipe bridge

**SHEET:** 6 OF 6

PROJECT: Harania Pipe Bridge		LOCATION: Blake Road Reserve		JOB No.: 1017033.2002	
CO-ORDINATES: 5908667.39 mN (NZTM2000) 1761981.70 mE		DRILL TYPE: MM3		HOLE STARTED: 12/08/2024	
R.L.: 4.17m		METHOD: Rotary cored		HOLE FINISHED: 13/08/2024	
DATUM: NZVD2016		DRILL FLUID: WATER		DRILLED BY: McMillan Drilling	
				LOGGED BY: JBER	
				CHECKED: BEWE	

GEOLOGICAL		METHOD OBSERVATIONS										ENGINEERING DESCRIPTION																						
GEOLOGICAL UNIT/ ADDITIONAL OBSERVATIONS		FLUID LOSS (%)		WATER		CASING		CORE RECOVERY (%)		METHOD		TESTS		RL (m)		DEPTH (m)		GRAPHIC LOG		WEATHERING CLASSIFICATION		MOISTURE CLASSIFICATION		CONSISTENCY / DENSITY CLASSIFICATION		ESTIMATED SOIL SHEAR STRENGTH (Su, kPa)		ESTIMATED ROCK COMPRESSIVE STRENGTH (qc, MPa)		DEFECT SPACING (mm)		DESCRIPTION		
East Coast Bays Formation								100		RC							26			SW			EW									[CONT] 24.00m: Slightly weathered, greyish brown, SILTSTONE. Extremely weak. Recovered as SILT, trace clay; greyish brown. Hard, moist, low plasticity.		
								100		RC							27																	
																													</					

COMMENTS:	
Hole Depth 30m	

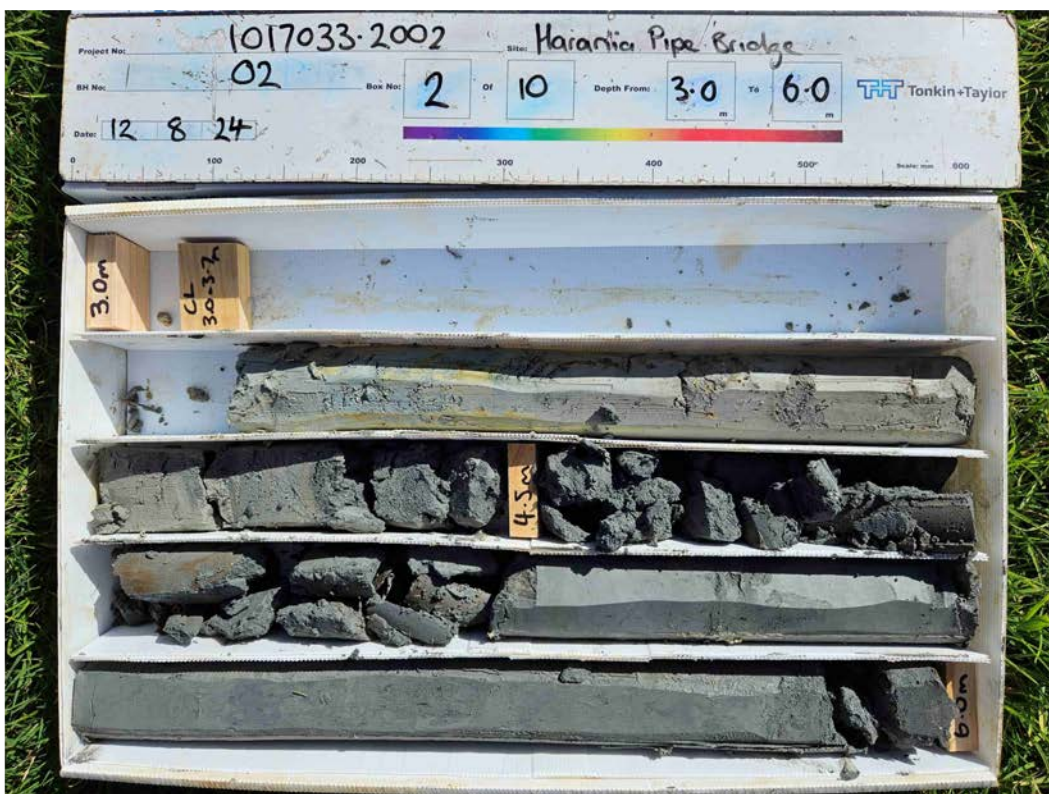
# CORE PHOTOS

BOREHOLE No.: **BH02**  
Hole Location: North-east of the pipe bridge  
SHEET: 1 OF 5

PROJECT: Harania Pipe Bridge		LOCATION: Blake Road Reserve	JOB No.: 1017033.2002
CO-ORDINATES:	5908667.39 mN (NZTM2000) 1761981.70 mE	DRILL TYPE: MM3	HOLE STARTED: 12/08/2024
R.L.:	4.17m	METHOD: Rotary cored	HOLE FINISHED: 13/08/2024
DATUM:	NZVD2016	DRILL FLUID: WATER	DRILLED BY: McMillan Drilling
			LOGGED BY: JBER CHECKED: BEWE



0.00-3.00m



3.00-6.00m



# CORE PHOTOS

BOREHOLE No.: **BH02**  
Hole Location: North-east of the pipe bridge  
SHEET: 2 OF 5

PROJECT: Harania Pipe Bridge		LOCATION: Blake Road Reserve	JOB No.: 1017033.2002
CO-ORDINATES:	5908667.39 mN (NZTM2000) 1761981.70 mE	DRILL TYPE: MM3	HOLE STARTED: 12/08/2024
R.L.:	4.17m	METHOD: Rotary cored	HOLE FINISHED: 13/08/2024
DATUM:	NZVD2016	DRILL FLUID: WATER	DRILLED BY: McMillan Drilling
			LOGGED BY: JBER CHECKED: BEWE



6.00-9.00m



9.00-12.00m



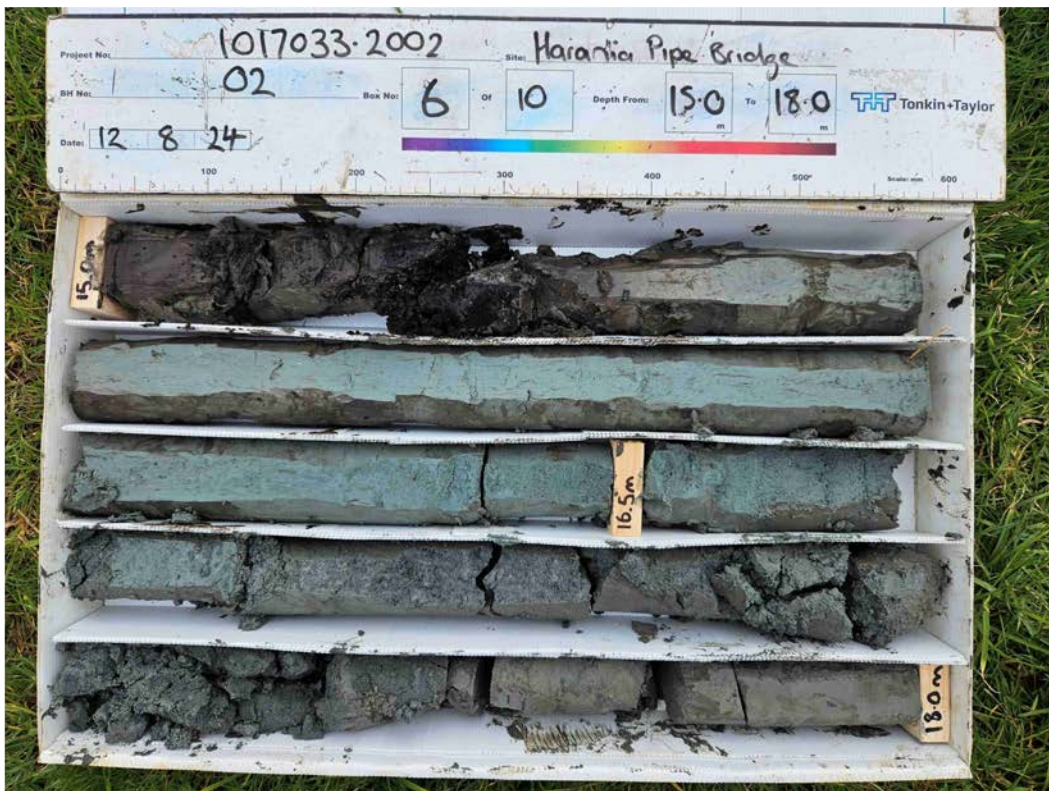
# CORE PHOTOS

BOREHOLE No.: **BH02**  
Hole Location: North-east of the pipe bridge  
SHEET: 3 OF 5

PROJECT: Harania Pipe Bridge		LOCATION: Blake Road Reserve	JOB No.: 1017033.2002
CO-ORDINATES: (NZTM2000)	5908667.39 mN 1761981.70 mE	DRILL TYPE: MM3	HOLE STARTED: 12/08/2024
R.L.:	4.17m	METHOD: Rotary cored	HOLE FINISHED: 13/08/2024
DATUM:	NZVD2016	DRILL FLUID: WATER	DRILLED BY: McMillan Drilling
			LOGGED BY: JBER      CHECKED: BEWE



12.00-15.00m



15.00-18.00m



# CORE PHOTOS

BOREHOLE No.: **BH02**  
Hole Location: North-east of the pipe bridge  
SHEET: 4 OF 5

PROJECT: Harania Pipe Bridge		LOCATION: Blake Road Reserve	JOB No.: 1017033.2002
CO-ORDINATES:	5908667.39 mN (NZTM2000) 1761981.70 mE	DRILL TYPE: MM3	HOLE STARTED: 12/08/2024
R.L.:	4.17m	METHOD: Rotary cored	HOLE FINISHED: 13/08/2024
DATUM:	NZVD2016	DRILL FLUID: WATER	DRILLED BY: McMillan Drilling
			LOGGED BY: JBER CHECKED: BEWE



18.00-21.00m



21.00-24.00m



# CORE PHOTOS

BOREHOLE No.: **BH02**  
Hole Location: North-east of the pipe bridge  
SHEET: 5 OF 5

PROJECT: Harania Pipe Bridge		LOCATION: Blake Road Reserve	JOB No.: 1017033.2002
CO-ORDINATES: (NZTM2000)	5908667.39 mN 1761981.70 mE	DRILL TYPE: MM3	HOLE STARTED: 12/08/2024
R.L.:	4.17m	METHOD: Rotary cored	HOLE FINISHED: 13/08/2024
DATUM:	NZVD2016	DRILL FLUID: WATER	DRILLED BY: McMillan Drilling
			LOGGED BY: JBER      CHECKED: BEWE



24.00-27.00m



27.00-30.00m

## Appendix C      Site photographs

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\*

*Photograph Appendix C.1: View northeast towards the eastern compound area from the Blake Road entrance.*



*Photograph Appendix C.2: View north towards the eastern compound area.*





*Photograph Appendix C.3: View south towards the bike track, tyres north of the eastern compound area*



*Photograph Appendix C.4: View facing west towards the current embankment.*





*Photograph Appendix C.5: Vegetation and mangrove area to the east of the current embankment.*



*Photograph Appendix C.6: View northeast of small stream and ponded water in the western compound area.*





*Photograph Appendix C.7: View south in the western compound area, showing residential dwellings and the mangroves.*



*Photograph Appendix C.8: View northwest in the western compound area, showing the small well-maintained grass walkway, which continues northwest of the western compound.*



## Appendix D    Site history

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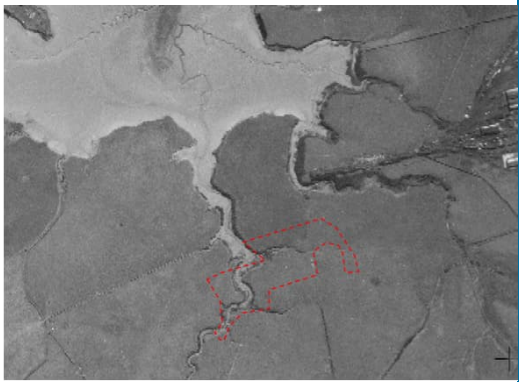
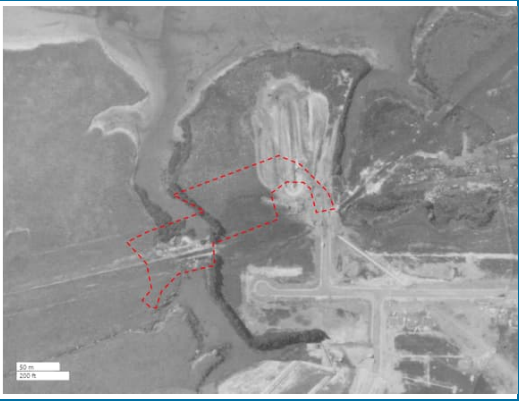
## D1 Introduction

Historical information relating to the site has been collected from a variety of sources. The information presented documents onsite activities, except for the aerial photograph review where comments are also provided on readily observable surrounding land use. The information that has been reviewed is set out in this appendix.





## D2 Historical aerial photographic review

Historical aerial photographs sourced from Retrolens, Auckland City Council Geomaps<sup>12</sup> and Google Earth Pro have been reviewed. Relevant features of the site and surrounding land are summarised from each aerial photograph in Table Appendix D.1.



Table Appendix D.1 : Summary of historical aerial photograph review

Year and source	Site observations	Surrounding land use	Imagery
1940 - Retrolens	The site is vacant pastoral land. Tarata Creek runs through the centre of the site.	The area surrounding the site is also vacant pastoral . Further north, there is mangroves and Mangere Inlet.	
1959 Retrolens	The site remains vacant, soil disturbance is visible in the northeastern and southwestern portion of the site along Tarata Creek.	Soil disturbance is visible to the north of the site and residential development is occurring to the south and southeast. Blake road has been constructed to the south of the site.	

<sup>12</sup> Auckland Council– Auckland Council Geomaps. Accessed 27 August 2024 from [Auckland Council GeoMaps](#)

Year and source	Site observations	Surrounding land use	Imagery
1975 Auckland Council Geomaps	The site remains vacant. It appears the embankment has been constructed, with a linear area of soil disturbance is visible	Residential properties are visible to the southeast, a commercial property to the west. Blake Road reserve is visible to the north of the site.	
1980 Auckland Council Geomaps	Soil disturbance is visible in the northwestern portion of the site included the construction of new pathways.	Further residential development has occurred in the wider surrounding. Soil disturbance and clear tracks are visible to the west of the site.	
1987 Auckland Council Geomaps	A small area of soil disturbance is visible in the centre and northeast areas of the site.	A dwelling structure is visible directly south of the site. Soil disturbance activities are visible to the east of the site associated with the BMX cycle track.	
2001 Auckland Council Geomaps	A concrete basketball court is visible onsite. No significant changes visible onsite.	A BMX cycle track has been developed to the north of the site. To the west, extensive vegetation now covers previous areas of exposed soil. Further residential development is visible to the southwest.	



Year and source	Site observations	Surrounding land use	Imagery
2008 Auckland Council Geomaps	No significant changes to the site.	A commercial/industrial building has been constructed to the east and further residential development to the west.	
2024 Auckland Council Geomaps	No significant changes to the site.	No significant change to the surrounding area.	

### D3 Site Contamination Enquiry

A contamination enquiry report was received from Auckland Council on the 23 August 2024. The information provided is included in Appendix E and summarised below:

- There is no contamination information held within Council's records for the site. However, the report notes that the site is in close proximity to Harania/Marys Foreshore Reserve Closed Landfill. Based on a review of Auckland Council Geomaps, Harania/Marys Foreshore Reserve Closed Landfill is located 780 m west of the site, therefore unlikely to pose a risk to the site and proposed development.
- Within a 200 m radius of the site, there are:
  - One HAIL activity is listed as occurring at 180 Savill Drive (170 m north of the site). The HAIL refers to historic reclamation infilling. A combined PSI and DSI was undertaken by ENGEO. The site history review identified the site comprised of a clay cap (~3 m in thickness) over the top of reclamation fill. The HAIL description also identifies storage tanks or drums for fuel, chemicals or liquid waste.
  - The remaining HAIL classifications pertain to sites over 200 m away. Ten listings pertain to historic horticultural activities occurring along Lachlan Place, Tinkler Place and 5 Jury Place. Eight further classifications relate to the two former railway workshops which operated on, 113 Savill Drive (600 m northeast of the site) and 40 Cleek Road (800 m west of the site). One HAIL classification is for 179 Savill Drive and the former use of the site as a steel plant and baghouse, located approximately 250 m north of the site. The remain HAIL classifications refer to historic filling and/or significant asbestos

discoveries on property parcels located more than 200 m away from the site. The HAIL sites are shown in the plan provided by Auckland Council in Appendix C.

- There are four bores consent applications, three of which have expired. One bore, the assessment has been completed, authorising the construction and use of one bore for geotechnical and geological investigation purposes.
- Eleven pollution incidents have occurred, two of those listed are recorded as either Nil or not found. The incidents largely relate to wastewater sewer overflow which has occurred on six occasions. There is one occurrence of concrete wastewater entering stormwater. It is unlikely these spillage events have affected the site, it is very likely that any spillage would have flowed through designed stormwater structures and/or into the foreshore area.
- Two permitted activities are listed for the surrounding area, one for the construction of a bore, and the second for contaminated site discharge.
- There are thirty-two consents pertaining to the surrounding area. Eighteen of these consents are expired, two superseded, two which have been surrendered, 1 replaced and nine issued. The majority of the consents relate to the disturbance of the foreshore and reclaimed area, conducting earthworks, and to discharge leachate, wastewater and/or stormwater. Two consents pertain to the construction of a bore for groundwater and/or chemistry monitoring.
- There is an occurring consent for contaminated site discharge for Pacific Steel Limited (Landfill property now owned by Goodmans), to discharge leachate from a closed reclamation into the bunding materials, ground and ground water surrounding the reclamation materials.

## Appendix E      Contamination enquiry

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23/08/2024

**Tonkin & Taylor Limited**  
PO Box Number: 2093  
**Wellington**  
**Attention: Carmen Thornton**

Dear Carmen,

**Site Contamination Enquiry – Lenore Foreshore Reserve and Blake Road Reserve, Mangere East**

This letter is in response to your enquiry requesting available site contamination information within Auckland Council records for the above site. Please note this report does not constitute a site investigation report; such reports are required to be prepared by a (third-party) Suitably Qualified and Experienced Practitioner.

The following details are based on information available to the Contamination, Air & Noise Team in the Resource Consent Department. The details provided may be from former regional council information, as well as property information held by the former district/city councils. For completeness the relevant property file should also be requested to obtain all historical records and reports via 09 3010101 or online at:

<https://www.aucklandcouncil.govt.nz/buying-property/order-property-report/Pages/order-property-file.aspx>.

**1. Hazardous Activities and Industries List (HAIL) Information**

This list published by the Ministry for the Environment (MfE) comprises activities and industries that are considered likely to cause land contamination as a result of hazardous substance use, storage, and/or disposal.

There is no contamination information held within Council's records for the site (Lenore Foreshore Reserve and Blake Road Reserve, Mangere East).

The sites close proximity to Harania/Marys Foreshore Reserve Closed Landfill should be considered, activities or works occurring within the site may need to consider closed landfill hazards.

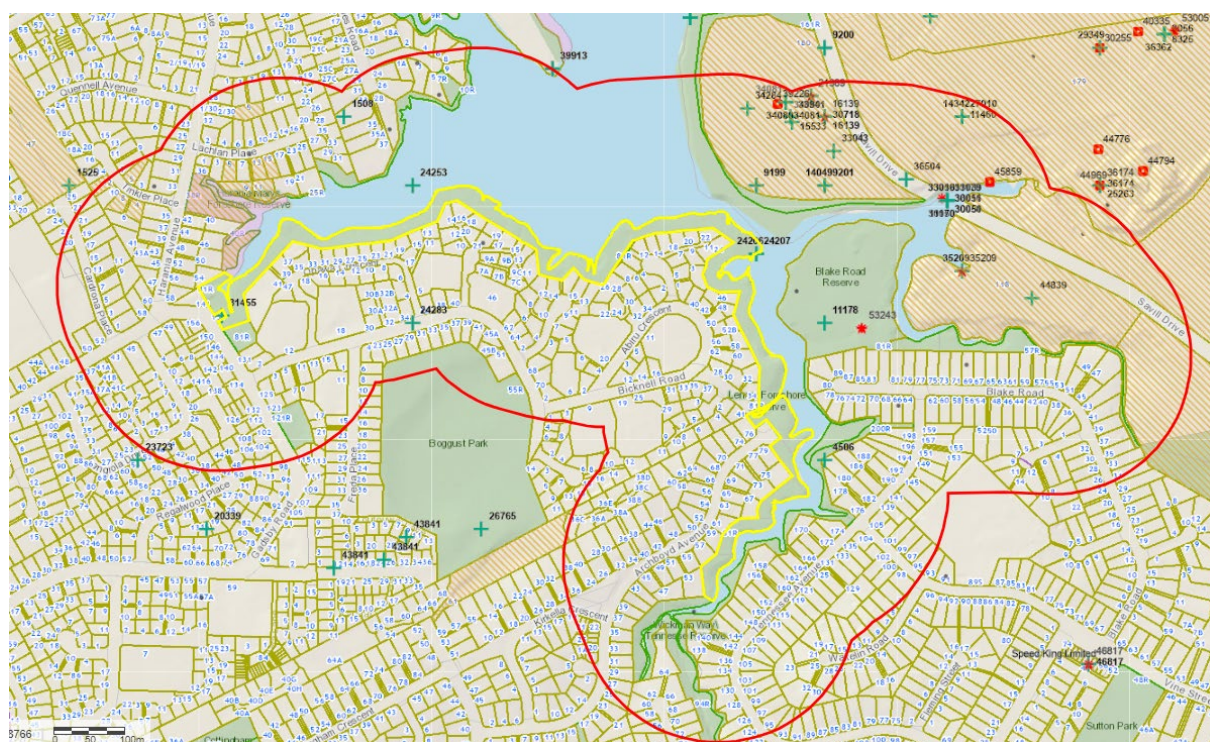
**Please note:**

- *If you are demolishing any building that may have asbestos containing materials (ACM) in it, you have obligations under the Health and Safety at Work (Asbestos) Regulations 2016 for the management and removal of asbestos, including the need to engage a Competent Asbestos Surveyor to confirm the presence or absence of any ACM.*
- *Paints used on external parts of properties up until the mid-1970's routinely contained lead, a poison and a persistent environmental pollutant. You are advised to ensure that soils affected by old, peeling or flaking paint are assessed in relation to the proposed use of the property, including high risk use by young children.*

## 2. Consents and Incidents Information (200m radius of the selected site)

The Council database was searched for records of the following activities within approximately 200 metres of the site and results are displayed in Figure 1 below:

- Pollution Incidents (including air discharges, oil or diesel spills)
- Bores
- Contaminated site and air discharges, and industrial trade process consents
- Closed Landfills
- Air quality permitted activities
- Identified HAIL activities



**Figure 1: Selected Consents, Incidents and HAIL activities within approximately 200m of the subject site**

### Legend:

All Consents +	Closed Landfill (Auckland Council owned) □
All Applications ■	Closed Landfill (Privately owned) ■
All Permitted Activities *	All Incidents •
All Bores ★	HAIL activities ▨

Relevant details of any pollution incidents and consents and HAIL activities are appended to this letter (Attachment A). Please refer to the column titled 'Property Address' on the spreadsheet to aid in identifying corresponding data on the map.

For any identified HAIL sites, please refer to the tab “HAIL activities” for more information (Column C and D include HAIL activity details where these are available).

AND

The following site within the search area have been identified as closed landfills and may have been subject to historical filling / importation of unverified-origin material. Please note that this information is indicative only and our database of such sites is incomplete.

A. INDICATIVE ONLY	Please contact <a href="mailto:closedlandfills@aucklandcouncil.govt.nz">closedlandfills@aucklandcouncil.govt.nz</a>
OWNERSHIP:	Auckland Council
SITE ID:	58
PROPERTY DESCRIPTION ADDRESS:	
SITE NAME:	Harania/Marys Foreshore Reserve

Please note:

*The HAIL activity hatching in Figure 1 only reflects whether a site has been identified as a HAIL site (both verified and non-verified) by the Council and the type of HAIL associated with the site. This does not confirm whether the site has been formally investigated or the contamination status of the property (e.g. contaminated, remediated etc.). Additionally, due to limitations within Council's records, the specific HAIL activity is not included in the data for all properties. For further information on any of these known HAIL sites, a subsequent site contamination enquiry can be lodged for the specific property (up to 5 adjacent properties can be covered in one request).*

While the Auckland Council has carried out the above search using its best practical endeavours, it does not warrant its completeness or accuracy and disclaims any responsibility or liability in respect of the information. If you or any other person wishes to act or to rely on this information, or make any financial commitment based upon it, it is recommended that you seek appropriate technical and/or professional advice.

If you wish to clarify anything in this letter that relates to this site, please contact [contaminatedsites@aucklandcouncil.govt.nz](mailto:contaminatedsites@aucklandcouncil.govt.nz). Any follow up requests for information on other sites must go through the online order process.

Should you wish to request any of the files referenced above and/or listed in the attached spreadsheet for viewing, please contact the Auckland Council Call Centre on 301 0101 and note you are requesting former Auckland Regional Council records (the records department requires three working days' notice to ensure the files will be available).

Please note Auckland Council cost recovers officer's time for all site enquiries. As such an invoice for the time involved in this enquiry will follow shortly.

Yours Sincerely,

**Contamination, Air and Noise Team  
Specialist Unit | Resource Consents  
Auckland Council**





Closed Landfills

SITEID	SITENAME	SITESTATUS	SITETYPE	SITENOTES	OPERATIONALSTARTDATE	OPERATIONALENDDATE	CONTACTEMAIL
58	Harania/Marys Foreshore Reserve	Historic	Closed	AUCKLAND COUNCIL	Invalid Date	Invalid Date	closedlandfills@aucklandcouncil.govt.nz
58	Harania/Marys Foreshore Reserve	Historic	Closed	AUCKLAND COUNCIL	Invalid Date	Invalid Date	closedlandfills@aucklandcouncil.govt.nz
58	Harania/Marys Foreshore Reserve	Historic	Closed	AUCKLAND COUNCIL	Invalid Date	Invalid Date	closedlandfills@aucklandcouncil.govt.nz

Applications

APPLICATION_NUMBER	FILE_REFERENCE	ACTIVITY	APPLICANT	APPLICATION_STATUS	PROCESSING_OFFICER	EASTING	NORTHING	ACTIVITY_ID	ACTIVITY_STATUS
45859	26657	Dam		Pre-Application	Greg Murphy	1762240	5908905	21079	Investigate
39226	22530	Stormwater Discharge	Goodman Nominee (NZ) Limited	No Longer Required	_Jacqueline Anthony	1761931.2	5909018.61	22313	Proposed

Bores

CONSENT_NUMBER	FILE_REFERENCE	CONSENT_HOLDER	BORE_ID	GRANTED_DATE	REVIEW_DATE	EXPIRY_DATE	CONSENT_STATUS	PROCESSING_OFFICER	PURPOSE
16139	C512-12-1983*	Babbage Consultants Limited	5725	19970430		19980430	Expired	_Gillian Crowcroft	Authorize the construction of a bore for groundwater level and/or Chemistry investigations
21389	C512-12-2183*	Babbage Consultants Limited	20209	19980428		19990429	Expired	_Gillian Crowcroft	Authorise the construction of bores for groundwater level and/or chemistry monitoring.
53243	C512-12-5607		29870	20150526			Assessment Completed	Reginald Samuel	To authorise the construction of one bore for geotechnical & geological investigation purposes.
35209	C512-12-4138*	Goodman Nominee (NZ) Limited	23053	20071210		20081204	Expired	Reginald Samuel	To authorise the construction of three bores for groundwater and environmental monitoring.

Consents

CONSENT_NUMBER	FILE_REFERENCE	ACTIVITY	CONSENT_HOLDER	CONSENT_STATUS	GRANTED_DATE	REVIEW_DATE	EXPIRY_DATE	PROCESSING_OFFICER	PURPOSE
39913	22876	Reclamation	Free Wesleyan Church of Tonga	Issued	20120531			Sarah McCarter	Retrospective authorisation for an existing 9210m2 reclamation adjacent to 143-145 Favona Road, Mangere.
44839	25895	Earthwork	Goodman Nominee (NZ) Limited	Issued	20151002		20201002	Steve Bryant	To undertake earthworks associated with the extension of a warehouse and yard area requiring approximately 48m3 of cut to fill and 1,103m3 of cut to waste across 3,163m2 within the Sediment Control Protection Area.
1508	BR740869	Stormwater Discharge	Manukau City Council	Expired	19750319		20100319	Adam Duncan	Stromwater discharge only from an existing built up residentially developed area of 50 acres. ( 20.23 ha)
4506	BR844145	Stormwater Discharge	Auckland Council	Surrendered	19850208		20251231	Adam Duncan	To divert and discharge stormwater from up to 2.5 ha of residential subdivision into the Harania Creek
9199	MANHAR1	Coastal Structure	Vector Limited ***Use 7409***	Expired	19821001		19960930		TO OCCUPY AN AREA OF THE SEABED WITHIN THE CMA
9201	MANHAR3	Reclamation	Pacific Steel Limited	Expired	19811101		19951031	_Quentin Smith	TO RECLAIM PART OF CMA.
11460	UE91216	Earthwork	Pacific Steel Limited	Replaced	19911012		19951001	_Brian Handyside	TO CARRY OUT EARTHWORKS IN ORDER TO CLAY CAP A RECLAMATION.
11170	18M10	Coastal Structure	Vector Limited ***Use 7409***	Expired	19820622		19960930		TO OCCUPY AN AREA OF THE SEABED WITHIN THE CMA FOR THE PURPOSE OF A ELECTRIC CABLE CROSSING
11178	18M31	Reclamation	Manukau City Council	Expired	19850723		19960930		
14049	18/M/71	Reclamation	Pacific Steel Limited	Expired	19950803		19960701	_Quentin Smith	RECLAMATION JAMES FLETCHER DRIVE OTAHUHU
14342	SC9510636	Earthwork	Pacific Steel Limited	Expired	19951110		19970630	_Graeme Ridley	TO CARRY OUT EARTHWORKS ASSOCIATED WITH SITE DEVELOPMENT
15533	CE9611333	Contaminated Site Discharge	Pacific Steel Limited	Issued	19970606	19991231	20171231	_Ray Scoble	To discharge leachate from a closed reclamation into the bunding materials, ground and ground water surrounding the reclamation materials.
16139	C512-12-1983*	Bore	Babbage Consultants Limited	Expired	19970430		19980430	_Gillian Crowcroft	Authorize the construction of a bore for groundwater level and/or Chemistry investigations
21389	C512-12-2183*	Bore	Babbage Consultants Limited	Expired	19980428		19990429	_Gillian Crowcroft	Authorise the construction of bores for groundwater level and/or chemistry monitoring.
24206	14983	Stormwater Discharge	STOP MONITORING Consent Ownership Unknown Or Co in Liquidation, Struck Off or in Receivership	Issued	20001003	20010630	20351231	_Graeme Ridley	To authorise the diversion and discharge of treated stormwater from two stormwater treatment ponds, servicing a residential subdivision with a total catchment area of approximately 6.3 ha, to the Harania Creek in accordance with Section 15 (1)b of the Res
24207	14982	Earthwork	Markham Investments Ltd**IN LIQ**	Expired	20001003		20021230	Michael Parsonson	
24253	15007	Stormwater Discharge	STOP MONITORING Consent Ownership Unknown Or Co in Liquidation, Struck Off or in Receivership	Issued	20001010	20060630	20350930	_Graeme Ridley	To authorise the discharge of treated stormwater from an approximately 2.6 residential subdivision in Harania Creek in accordance with Section 15(1)(b) of the Resource Management Act 1991.
24283	15028	Earthwork	Harte Deve Ltd***STRUCK OFF***	Expired	20001006		20030430	Michael Parsonson	To authorise approximately 1.8 ha of earthworks associated with developing a residential subdivision in accordance with Section 9(3) of the Resource Management Act 1991.
27010	16350	Earthwork	Fletcher Steel Limited	Expired	20020809		20040430	Michael Parsonson	To authorise approximately 3.2ha of earthworks associated with the construction of a noise bund accordance with Section 9(3) of the Resource Management Act 1991
30050	17726	Coastal Structure	Manukau City Council	Superseded	20050415	20060430	20400430	_Kath Coombes	To authorise the occupation and use of part of the coastal marine area by a single span road bridge over Harania Creek inlet and a concrete block seawall edge to the bridge abutment reclamations, for the purpose of allowing traffic access between the two
30051	17726	Reclamation	Manukau City Council	Superseded	20050415	20060430	20100430	_Kath Coombes	To authorise the construction of a bridge and two reclamations as bridge abutments, including the disturbance of the seabed and removal of vegetation, for the purpose of constructing the bridge and abutments, in accordance with Section 12(1) of the Resour
30718	18222	Earthwork	Manukau City Council	Expired	20050422		20060430	Lisa Fletcher	To authorise approximately 1.2ha of earthworks associated with the formation of a road in accordance with Section 9(3) of the Resource Management Act 1991.
31455	15588	Wastewater Discharge	Watercare Services Limited	Surrendered	20051110	20051231	20390809	_Wayne Hayson	To authorise the discharge of wastewater to land or water (outside the Coastal Marine Area), together with any consequential discharges to air, in accordance with Section 15 of the Resource Management Act 1991 as a result of A Overflows during times of We
33016	17726	Coastal Structure	Manukau City Council	Expired	20061031	20071031	20100430	_Micah Butt	To authorise the construction of a bridge including the disturbance of the seabed for the purpose of constructing the bridge in accordance with Section 12(1) of the Resource Management Act 1991.
33039	17726	Coastal Structure	Auckland Transport (for regional consents)	Issued	20061031	20071031	20400430	_Micah Butt	To authorise the occupation and use of part of the coastal marine area by a dual span road bridge over Harania Creek inlet, for the purpose of allowing traffic access between the two parts of Savill Drive, in accordance with Section 12(2)(a) and 12(3) of

33043	19293	Stormwater Discharge	Auckland Council	Issued	20061015	20070630	20401231	__Michelle Ip	To authorise the diversion and discharge of stormwater from a 430 metre extension of Savill Drive into the Manukau Harbour in accordance with Sections 14 (1)(a) and 15 (1)(a) and (b) of the Resource Management Act 1991.
34080	19834	Coastal Structure	Watercare Services Limited	Expired	20070710	20080731	20090710	__Blair Masefield	To authorise the construction of an anode bed and to disturb the foreshore and seabed for the purpose of cathodic protection in accordance with Section 12(1) of the Resource Management Act 1991.
34081	19834	Coastal Structure	Watercare Services Limited	Issued	20070710	20090731	20390710	__Blair Masefield	To authorise the occupation and use of part of the coastal marine area (CMA) with an anode bed for the purpose of cathodic protection in accordance with Section 12(2)(a) and 12(3) of the Resource Management Act 1991 for the purpose of cathodic protection.
33941	19781	Earthwork	Goodman Nominee (NZ) Limited	Expired	20071117	20081031	20120430	Mike Dunphy	To authorise approximately 5.1ha of earthworks associated with the construction of building platforms in accordance with Section 9 of the Resource Management Act 1991.
34284	19781	Stormwater Discharge	Goodman Nominee (NZ) Limited	Issued	20080915	20090630	20421231	Mike Dunphy	To authorise the diversion and discharge of stormwater from a new impervious area of greater than 5,000m2 associated with 5.1ha industrial development in accordance with Sections 14 (1)(a) and 15 (1)(a) and (b) of the Resource Management Act 1991.
35209	C512-12-4138*	Bore	Goodman Nominee (NZ) Limited	Expired	20071210		20081204	Reginald Samuel	To authorise the construction of three bores for groundwater and environmental monitoring.
36504	20976	Contaminated Site Discharge	Manukau City Council	Expired	20081119	20090519	20091231	Andrew Kalbarczyk	To discharge contaminants to land or water during the relocation of approximately 900 m3 of the contaminated fill material from the temporary stockpile on the side of Savill Drive to the nearby open pit.

HAIL Activities									
SAPSiteID	PropertyAddress	TransactionID	TransactionReference	TransactionDescription	HAILCode	HAILDescription	ValidFrom	ValidTo	HAILFormStatus
11355704	180 Savill Drive Favona Auckland 2024	8260077008	CSI60077008	A combined PSI and DSI was undertaken by ENGEO in . The site history review identified the site comprised of a clay cap (~3m in thickness) over the top of reclamation fill. The reclamation fill includ			18/01/2019	Invalid Date	Active
11423130	38R Harania Avenue Favona Auckland 2024	8260081900	CSI60081900	Hazardous Activities and Industries List category G3. This property is known or suspected to have been filled with municipal or other waste materials. The property appears on the Auckland Council Clo			1/01/1900	Invalid Date	Active
11488753	179 Savill Drive FAVONA 2024	8260080142	CSI60080142	3/13/19: Site has been subject to a former steel plant and baghouse, large scrapmetal stockpiles (metal recycling) and waste oil pits. Additionally there was a stormwater treatment pond on site. Inves			1/01/1900	Invalid Date	Active
11358783	118 Savill Drive Favona Auckland 2024	8260076997	CSI60076997	Council's records indicate the historical asbestos containing contaminated soil was excavated and backfilled with cleanfill. The red evelopment included an Environmental Management Plan, and a groundw			1/01/1900	Invalid Date	Active
11380527	113 Savill Drive Favona Auckland 2024	8260212806	CSI60212806	DSIs for Site 3 and Building Platform 12 (ENGEO, 2018) identified historical use of the site as Otahuhu Railway Workshops and likely subject to filling of building and soil materials, asbestos fibrebo	Waste disposal to land (excluding where biosolids have been used as soil conditioners	Waste disposal to land (excluding where biosolids have been used as soil conditioners)	14/09/2018	Invalid Date	Active
11373836	61 Garus Avenue Mangere East Auckland 2024	8260244703	CSI60244703	22-04-2021 - A substantial quantity of asbestos contaminated fill was discovered after works commenced. Some of the fill was removed but some has been encapsulated. SVR has more details.	Any other land that has been subject to the intentional or accidental release of a hazardous substance in sufficient quantity that it could be a risk to human health or the environment	Any other land that has been subject to the intentional or accidental release of a hazardous substance in sufficient qua	22/04/2021	Invalid Date	Active
11380527	113 Savill Drive Favona Auckland 2024	8260212806	CSI60212806	DSIs for Site 3 and Building Platform 12 (ENGEO, 2018) identified historical use of the site as Otahuhu Railway Workshops and likely subject to filling of building and soil materials, asbestos fibrebo	Railway yards including goods-handling yards, workshops, refuelling facilities or maintenance areas	Railway yards including goods-handling yards, workshops, refuelling facilities or maintenance areas	14/09/2018	Invalid Date	Active
11355704	180 Savill Drive Favona Auckland 2024	8260077008	CSI60077008	A combined PSI and DSI was undertaken by ENGEO in . The site history review identified the site comprised of a clay cap (~3m in thickness) over the top of reclamation fill. The reclamation fill includ	Any other land that has been subject to the intentional or accidental release of a hazardous substance in sufficient quantity that it could be a risk to human health or the environment	Any other land that has been subject to the intentional or accidental release of a hazardous substance in sufficient qua	18/01/2019	Invalid Date	Active
11416033	25R Lachlan Place Favona Auckland 2024	8260216955	CSI60216955	Part of Harania Avenue Foreshore Reserve. Hazardous Activities and Industries List category G3. This property is known or suspected to have been filled with municipal or other waste materials. The pro	Landfill sites	Landfill sites	16/01/2019	Invalid Date	Active
11355704	180 Savill Drive Favona Auckland 2024	8260077008	CSI60077008	A combined PSI and DSI was undertaken by ENGEO in . The site history review identified the site comprised of a clay cap (~3m in thickness) over the top of reclamation fill. The reclamation fill includ	Storage tanks or drums for fuel, chemicals or liquid waste	Storage tanks or drums for fuel, chemicals or liquid waste	18/01/2019	Invalid Date	Active
11380527	113 Savill Drive Favona Auckland 2024	8260212806	CSI60212806	DSIs for Site 3 and Building Platform 12 (ENGEO, 2018) identified historical use of the site as Otahuhu Railway Workshops and likely subject to filling of building and soil materials, asbestos fibrebo	Asbestos products manufacture or disposal including sites with buildings containing asbestos products known to be in a deteriorated condition	Asbestos products manufacture or disposal including sites with buildings containing asbestos products known to be in a d	14/09/2018	Invalid Date	Active
11380527	113 Savill Drive Favona Auckland 2024	8260212806	CSI60212806	DSIs for Site 3 and Building Platform 12 (ENGEO, 2018) identified historical use of the site as Otahuhu Railway Workshops and likely subject to filling of building and soil materials, asbestos fibrebo	Waste disposal to land (excluding where biosolids have been used as soil conditioners	Waste disposal to land (excluding where biosolids have been used as soil conditioners)	14/09/2018	Invalid Date	Active
11373836	61 Garus Avenue Mangere East Auckland 2024	8260244703	CSI60244703	22-04-2021 - A substantial quantity of asbestos contaminated fill was discovered after works commenced. Some of the fill was removed but some has been encapsulated. SVR has more details.	Any other land that has been subject to the intentional or accidental release of a hazardous substance in sufficient quantity that it could be a risk to human health or the environment	Any other land that has been subject to the intentional or accidental release of a hazardous substance in sufficient qua	22/04/2021	Invalid Date	Active
11380527	113 Savill Drive Favona Auckland 2024	8260212806	CSI60212806	DSIs for Site 3 and Building Platform 12 (ENGEO, 2018) identified historical use of the site as Otahuhu Railway Workshops and likely subject to filling of building and soil materials, asbestos fibrebo	Railway yards including goods-handling yards, workshops, refuelling facilities or maintenance areas	Railway yards including goods-handling yards, workshops, refuelling facilities or maintenance areas	14/09/2018	Invalid Date	Active
11355704	180 Savill Drive Favona Auckland 2024	8260077008	CSI60077008	A combined PSI and DSI was undertaken by ENGEO in . The site history review identified the site comprised of a clay cap (~3m in thickness) over the top of reclamation fill. The reclamation fill includ	Any other land that has been subject to the intentional or accidental release of a hazardous substance in sufficient quantity that it could be a risk to human health or the environment	Any other land that has been subject to the intentional or accidental release of a hazardous substance in sufficient qua	18/01/2019	Invalid Date	Active
11416033	25R Lachlan Place Favona Auckland 2024	8260216955	CSI60216955	Part of Harania Avenue Foreshore Reserve. Hazardous Activities and Industries List category G3. This property is known or suspected to have been filled with municipal or other waste materials. The pro	Landfill sites	Landfill sites	16/01/2019	Invalid Date	Active



11355704	180 Savill Drive Favona Auckland 2024	8260077008	CSI60077008	A combined PSI and DSI was undertaken by ENGEO in . The site history review identified the site comprised of a clay cap (~3m in thickness) over the top of reclamation fill. The reclamation fill includ	Storage tanks or drums for fuel, chemicals or liquid waste	Storage tanks or drums for fuel, chemicals or liquid waste	18/01/2019	Invalid Date	Active
11380527	113 Savill Drive Favona Auckland 2024	8260212806	CSI60212806	DSIs for Site 3 and Building Platform 12 (ENGEO, 2018) identified historical use of the site as Otahuhu Railway Workshops and likely subject to filling of building and soil materials, asbestos fibrebo	Asbestos products manufacture or disposal including sites with buildings containing asbestos products known to be in a deteriorated condition	Asbestos products manufacture or disposal including sites with buildings containing asbestos products known to be in a d	14/09/2018	Invalid Date	Active
11361709	40 Cleek Road Mangere East Auckland 2024	8260076187	CSI60076187	Description: THIS SITE HAS HISTORICALLY OPERATED AS A RAILWAY WORKSHOP. THE AUCKLAND REGIONAL AUTHORITY HAS ADVISED MANUKAU CITY COUNCIL THAT INVESTIGATION TO DATE HAS DETECTED THAT SOIL AND/OR GROUN			2/04/2024	Invalid Date	Active
11361709	40 Cleek Road Mangere East Auckland 2024	8260076187	CSI60076187	Description: THIS SITE HAS HISTORICALLY OPERATED AS A RAILWAY WORKSHOP. THE AUCKLAND REGIONAL AUTHORITY HAS ADVISED MANUKAU CITY COUNCIL THAT INVESTIGATION TO DATE HAS DETECTED THAT SOIL AND/OR GROUN			2/04/2024	Invalid Date	Active
11407384	15 Lachlan Place Favona Auckland 2024	8260273318	CSI60273318	17/07/2024 Aerial image dated 1959 indicates the site has potentially been subject to historic horticultural activities CC	Persistent pesticide bulk storage or use including sport turfs, market gardens, orchards, glass houses or spray sheds	Persistent pesticide bulk storage or use including sport turfs, market gardens, orchards, glass houses or spray sheds	17/07/2024	Invalid Date	Active
11423073	9 Lachlan Place Favona Auckland 2024	8260273318	CSI60273318	17/07/2024 Aerial image dated 1959 indicates the site has potentially been subject to historic horticultural activities CC	Persistent pesticide bulk storage or use including sport turfs, market gardens, orchards, glass houses or spray sheds	Persistent pesticide bulk storage or use including sport turfs, market gardens, orchards, glass houses or spray sheds	17/07/2024	Invalid Date	Active
11397694	8 Tinkler Place Favona Auckland 2024	8260273318	CSI60273318	17/07/2024 Aerial image dated 1959 indicates the site has potentially been subject to historic horticultural activities CC	Persistent pesticide bulk storage or use including sport turfs, market gardens, orchards, glass houses or spray sheds	Persistent pesticide bulk storage or use including sport turfs, market gardens, orchards, glass houses or spray sheds	17/07/2024	Invalid Date	Active
11402660	11 Lachlan Place Favona Auckland 2024	8260273318	CSI60273318	17/07/2024 Aerial image dated 1959 indicates the site has potentially been subject to historic horticultural activities CC	Persistent pesticide bulk storage or use including sport turfs, market gardens, orchards, glass houses or spray sheds	Persistent pesticide bulk storage or use including sport turfs, market gardens, orchards, glass houses or spray sheds	17/07/2024	Invalid Date	Active
11426278	12 Tinkler Place Favona Auckland 2024	8260273318	CSI60273318	17/07/2024 Aerial image dated 1959 indicates the site has potentially been subject to historic horticultural activities CC	Persistent pesticide bulk storage or use including sport turfs, market gardens, orchards, glass houses or spray sheds	Persistent pesticide bulk storage or use including sport turfs, market gardens, orchards, glass houses or spray sheds	17/07/2024	Invalid Date	Active
11395106	5 Tinkler Place Favona Auckland 2024	8260273318	CSI60273318	17/07/2024 Aerial image dated 1959 indicates the site has potentially been subject to historic horticultural activities CC	Persistent pesticide bulk storage or use including sport turfs, market gardens, orchards, glass houses or spray sheds	Persistent pesticide bulk storage or use including sport turfs, market gardens, orchards, glass houses or spray sheds	17/07/2024	Invalid Date	Active
11420459	5 Lachlan Place Favona Auckland 2024	8260273318	CSI60273318	17/07/2024 Aerial image dated 1959 indicates the site has potentially been subject to historic horticultural activities CC	Persistent pesticide bulk storage or use including sport turfs, market gardens, orchards, glass houses or spray sheds	Persistent pesticide bulk storage or use including sport turfs, market gardens, orchards, glass houses or spray sheds	17/07/2024	Invalid Date	Active
11404410	13 Lachlan Place Favona Auckland 2024	8260273318	CSI60273318	17/07/2024 Aerial image dated 1959 indicates the site has potentially been subject to historic horticultural activities CC	Persistent pesticide bulk storage or use including sport turfs, market gardens, orchards, glass houses or spray sheds	Persistent pesticide bulk storage or use including sport turfs, market gardens, orchards, glass houses or spray sheds	17/07/2024	Invalid Date	Active
11393993	4 Tinkler Place Favona Auckland 2024	8260273318	CSI60273318	17/07/2024 Aerial image dated 1959 indicates the site has potentially been subject to historic horticultural activities CC	Persistent pesticide bulk storage or use including sport turfs, market gardens, orchards, glass houses or spray sheds	Persistent pesticide bulk storage or use including sport turfs, market gardens, orchards, glass houses or spray sheds	17/07/2024	Invalid Date	Active
11407563	5 Jury Place Favona Auckland 2024	8260273318	CSI60273318	17/07/2024 Aerial image dated 1959 indicates the site has potentially been subject to historic horticultural activities CC	Persistent pesticide bulk storage or use including sport turfs, market gardens, orchards, glass houses or spray sheds	Persistent pesticide bulk storage or use including sport turfs, market gardens, orchards, glass houses or spray sheds	17/07/2024	Invalid Date	Active

Incidents									
INCIDENTNUMBER	XCOORD	YCOORD	NZTMXCOORD	NZTMYCOORD	LOCATION	SUBURB	CATCHMENTCODE	POLLUTANTTYPE	RECIEVED
399152	1761366.53	5908981.49	1761366.53	5908981.49	13 Mary Place	Favona	744	Wastewater - Sewer Overflow	Hotline
09/1806	1761406.6	5909077.9	1761406.6	5909077.9	3 Mary Place	Favona	744	Wastewater - Sewer Overflow	Hotline
10/1094	1762206	5908639	1762206	5908639	69 Blake Rd	Mangere	744	Not Found / Nothing	Hotline
64132	1761502	5908816	1761502	5908816	Richmond Rd	Grey Lynn	543	Concrete Wastewater	Hotline
222678	1761438.4	5909032	1761438.4	5909032	5 Mary Place	Favona	744	Wastewater - Sewer Overflow	Hotline
434488	1762376	5908829	1762376	5908829	Savill Drive	Mangere	745	Not Found / Nothing	Hotline
370570	1761162	5908946	1761162	5908946	9 Lachlan Pl	Favona	744		Enviroline
584633	2672370.81	6470433.77	1761958.471	5908746.229	81R Archboyd Ave	Mangere	745	Wastewater - Sewer Overflow	Hotline
618601	1762107	5908579	1762107	5908579	66 Blake Rd	Mangere	744	Wastewater - Sewer Overflow	Hotline
935358	1761023.92	5908898.62	1761023.92	5908898.62	33 Harania Ave	Favona	744	Odour	Hotline
14/2534	1761809.41	5908279.48	1761809.41	5908279.48	70R Tennessee Avenue	Mangere East	745	Wastewater - Sewer Overflow	Hotline

Permitted Activities									
PERMITTED_ACTIVITY_ID	FILE_REFERENCE	PERMITTED_ACTIVITY_TYPE	ACTIVITY	CONSENT_STATUS	PROCESSING_OFFICER	PURPOSE	WORKS_DESCRIPTION	EASTING	NORTHING
51929		Contaminated Site Discharge	Contaminated Site Discharge	Assessment Completed	Andrew Kalbarczyk	File ref: 7-45-4016. Contaminated sediments to be excavated as part of the proposed bridge construction.	Contaminated sediments to be excavated as part of the proposed bridge construction. Env Inv Report and SMP by E&Esc rec'd 27/2/2008. Additional report and an addendum	1762171	5908881
53243	C512-12-5607	Bore	Bore	Assessment Completed	Reginald Samuel	To authorise the construction of one bore for geotechnical & geological investigation purposes.	To authorise the construction of one 120mm diameter bore to a depth of 15m for geotechnical & geological investigation purposes.	1762053.62	5908692.26

Applications

ACTIVITY_DESCRIPTION	SITE_NAME	SITE_DESCRIPTION	DATE_CREATED	PROPERTY_ADDRESS	LOC_TYP
This note is to be updated or deleted (copy is in Dam Notes) Notes 2014 - appears on stream - Catchment area suggests the need for consent - on 2 properties (one owned by Auckland council and one by Pacific Steel Ltd.)		HLAKE_DAM ID 975	2/06/2017	217A James Fletcher Drive Favona	Point
Pre-application meeting to discuss consents needed, including stormwater discharge, for the establishment of a new warehouse building and ancillary office extension.	Savill Drive, Mangere		2/06/2017	179 Savill Drive Mangere East Manukau	Point

Bores

WORKS_DESCRIPTION	EASTING	NORTHING	ACTIVITY_STATUS	BORE_USE	ACTIVITY_DESCRIPTION	SITE_NAME	SITE_DESCRIPTION	TLA	CASING_FROM	CONSULTANT	DATE_CREATED	PROPERTY_ADDRESS	LOC_TYP
Construction of ten 100mm dia. bores to approx 50m depth. Installation of PVC casing to approx 50m and PVC screen as required.	1762000	5909000	Drilled	Observation / Piezo			PACIFIC STEEL, FAVONA RD, OTAHUHU, AUCKLAND	Manukau	0	Babbage Consultants Limited	20170601		Point
Construction of four (4) 50mm diameter bores to a depth of 4-6m. Installation of PVC casing and screen as required	1761980	5909030	Proposed	Observation / Piezo	Authorise the construction of bores for groundwater level and/or chemistry monitoring.		James Fletcher Drive, Mangere	Manukau	0		20170601		Point
To authorise the construction of one 120mm diameter bore to a depth of 15m for geotechnical & geological investigation purposes.	1762053.62	5908692.26	Proposed	Geotechnical	To authorise the construction of one bore for geotechnical & geological investigation purposes.	Blake Road Reserve		Manukau		AECOM Consulting Services (NZ) Ltd	20170601	R 81 Blake Road Mangere East Manukau	Point
The construction of three 50mm diameter bores to an approximate depth of 9-10m. Installation of uPVC casing to an approximate depth to approx 9-10m. Proposed grouting to 5m.	1762200	5908775	Proposed	Observation / Piezo	To authorise the construction of three bores for groundwater and environmental monitoring.	Goodman		Manukau		Pattle Delamore Partners Limited	20170601	113 Savill Drive Favona Manukau	Point

Consents

WORKS_DESCRIPTION	EASTING	NORTHING	ACTIVITY_ID	ACTIVITY_STATUS	ACTIVITY_DESCRIPTION	SITE_NAME	SITE_DESCRIPTION	DATE_CREATED	PROPERTY_ADDRESS	LOC_TYP	MONITORING_OFFICER	PREVIOUS_INSPECTION_DATE	NEXT_INSPECTION_DATE
	1761603.75	5909069.82	20120	Proposed	Retrospective authorisation for an existing reclamation	143-145 Favona Road, Mangere		2/06/2017	143 Favona Road Favona Manukau	Point	_Paul White	1/08/2013	Invalid Date
	1762301.48	5908736.11	23759	Completed	Earthworks for he extentions of a warehouse and yard, 48m3 cut to fill, 1.103m3 cut to waste across 3,163n2 inthe	118 Savill Drive		2/06/2017	118 Savill Drive Favona Manukau	Point	Jos Fryer	23/12/2015	Invalid Date
Lay 36 diameter concrete pipes from existing manhole dispensing old outfall point and replacing with new outfall structure.	1761300	5909000	319	Occurring				2/06/2017	Harania Ave Mangere Manukau City	Point	Adam Duncan	12/02/2007	1/08/2007
A 500mm diameter outfall	1762000	5908500	1813	Occurring		Manukau City Council - Archboyd Subdivision	Archboyd Avenue, Mangere	2/06/2017	Archboyd Avenue Mangere Manukau City	Point	_Christine Oakey	12/02/2007	1/10/2015
ELECTRIC CABLE CROSSING	1761900	5908900	20644		(Previously pipeline 1078 )		DRIVER RD NZE SUBSTATION TO FAVONA RD- PACIFIC	2/06/2017		Point		Invalid Date	Invalid Date
RECLAMATION.	1762000	5908900	429				HARANIA CREEK OFF FAVONA ROAD MANGERE	2/06/2017		Point		Invalid Date	Invalid Date
	1762200	5909000	525			PACIFIC STEEL - RECLAMATION SEALING	FLAT	2/06/2017		Point		Invalid Date	Invalid Date
BURIED ELECTRIC CABLE 160M LONG	1762178	5908878	20657		(Previously pipeline 1153 )		ADJ BLAKE ROAD, ACROSS TIDAL INLETS EASTERN SIDE HARANIA CREEK, FAVONA	2/06/2017		Point		Invalid Date	Invalid Date
	1762000	5908700	1162				HARANIA CREEK AREHBOYA AVE	2/06/2017		Point		Invalid Date	Invalid Date
	1762000	5908900	429				HARANIA CREEK OFF FAVONA ROAD MANGERE	2/06/2017		Point		Invalid Date	Invalid Date
	1762200	5909000	525			PACIFIC STEEL - RECLAMATION SEALING	FLAT	2/06/2017		Point		Invalid Date	Invalid Date
Landfill property now owned by Goodmans, consents held by Pacific Steel (part of Fletchers Building Group)Ground water monitoring wells redrilled. Summer 2012/13	1761952	5908992	20010	Occurring	To discharge leachate from an closed reclamation into the bunding materials, ground and ground water surrounding the		Closed landfill - contaminated site	2/06/2017	179 James Fletcher Drive Favona Manukau	Point	Nigel Donovan	2/03/2017	1/06/2017
Construction of ten 100mm dia. bores to approx 50m depth. Installation of PVC casing to approx 50m and PVC screen as required.	1762000	5909000	5725	Drilled			PACIFIC STEEL, FAVONA RD, OTAHUHU, AUCKLAND	2/06/2017		Point		Invalid Date	Invalid Date
Construction of four (4) 50mm diameter bores to a depth of 4-6m. Installation of PVC casing and screen as required	1761980	5909030	20209	Proposed	Authorise the construction of bores for groundwater level and/or chemistry		James Fletcher Drive, Mangere	2/06/2017		Point		Invalid Date	Invalid Date
50 Lenore Road Mangere	1761900	5908800	20398	Proposed		Parkwood Estates Stage 1-4	50 Lenore Road, Mangere	2/06/2017	50 Lenore Road Mangere Manukau City	Point	Richard Preece	Invalid Date	Invalid Date
50 Lenore Road Mangere	1761900	5908800	20586	Proposed	Earthworks associated with 93 lot subdivision	Parkwood Estates Stage 1-4	50 Lenore Road, Mangere	2/06/2017	50 Lenore Road Mangere Manukau City	Area		Invalid Date	Invalid Date
The construction of a stormwater reticulation system and stormwater treatment devices that will discharge treated stormwater into Harania Creek.12 Lenore Road Mangere	1761400	5908900	20402	Occurring		Gadsby Road Stage 4	12 Lenore Road Mangere	2/06/2017	132 Gadsby Road Favona Manukau	Point	_Christine Oakey	27/03/2002	1/10/2011
12 Lenore Road Mangere	1761400	5908700	20602	Proposed		Lot 1 Lenore Road Mangere		2/06/2017	Lenore Place Mangere Manukau City	Area		Invalid Date	Invalid Date
259 James Fletcher Drive, Otahuhu	1762200	5909000	20955	Proposed	Construction of earth bun using waste materials	259 James Fletcher Drive Mangere		2/06/2017	A 217 James Fletcher Drive Favona Manukau	Area		Invalid Date	Invalid Date
	1762178	5908878	22649	Proposed	Occupation of CMA with a bridge and concrete block seawall around bridge abutments (93m length).	Savill Drive Extension		2/06/2017	113 Savill Drive Favona Manukau	Point	_Wayne Hayson	Invalid Date	Invalid Date
	1762178	5908878	20069	Occurring	Construction of 2 reclamations as bridge abutments, including disturbance of the seabed and vegetation removal.	Savill Drive Extension		2/06/2017	113 Savill Drive Favona Manukau	Point	_Wayne Hayson	Invalid Date	Invalid Date
	1762000	5909000	21500	Proposed	Approx 1.5ha earthworks associated with preloading the subgrade at the Savill North road reserve	Savill North		2/06/2017	2 Savill Drive Favona Manukau	Point	_Sarah Morrison	18/05/2006	Invalid Date
	1761122	5908710	20686		Application to discharge wastewater from the Watercare Services Ltd wastewater network within both Auckland and Manukau Cities for the Mangere Inlet	Favona Pump Station		2/06/2017	137 Gadsby Road Favona Manukau	Point	Patricia Burford	Invalid Date	Invalid Date
	1762178	5908878	22649	Proposed	Occupation of CMA with a bridge and concrete block seawall around bridge abutments (93m length).	Savill Drive Extension		2/06/2017	113 Savill Drive Favona Manukau	Point	Jo Morriss	6/06/2008	1/08/2008
	1762178	5908878	22649	Proposed	Occupation of CMA with a bridge and concrete block seawall around bridge abutments (93m length).	Savill Drive Extension		2/06/2017	113 Savill Drive Favona Manukau	Point	_Paul White	6/06/2008	30/06/2012

	1762013	5908950	21592	Proposed	to discharge stormwater associated from a proposed road extension to an adjacent creek and Manukau Harbour.	Savill Drive Extension		2/06/2017	179 James Fletcher Drive Favona Manukau	Point	__Christine Oakey	Invalid Date	Invalid Date
	1761943	5909021	23090	Proposed	Cable & anode bed	Favona Road	Appl orig quotes 161 Favona Rd , legal description is correct for this address however physical location is adj to 179 James Fletcher	2/06/2017	179 James Fletcher Drive Favona Manukau	Point	__Blair Masefield	20/02/2009	Invalid Date
	1761943	5909021	23090	Proposed	Cable & anode bed	Favona Road	Appl orig quotes 161 Favona Rd , legal description is correct for this address however physical location is adj to 179 James Fletcher	2/06/2017	179 James Fletcher Drive Favona Manukau	Point	__Blair Masefield	Invalid Date	Invalid Date
	1761950	5909000	21829	PartiallyCompleted	5 day rule was put on s37aEarthworks (90,000 cubic metres of imported cleanfill) for land modification for future	179 James Fletcher Drive		2/06/2017	179 James Fletcher Drive Favona Manukau	Point	Lachlan Ward	9/05/2012	Invalid Date
WorksCatchment area- imperviousCatchment area- perviousDesign StandardRaingardens 2.64hana75% TSS removal OR Hynds Upflo Filters 2.64hana75% TSS removalOR combination of raingardens and Hynds UpFlo Filters2.64hana75% TSS removalRoof mat	1761887	5909012	21731	Proposed	Stormwater discharge associated with the development of a commercial subdivision.	179 James Fletcher Drive, Manukau		2/06/2017	179 James Fletcher Drive Favona Manukau	Point	__Christine Oakey	26/06/2012	1/10/2015
The construction of three 50mm diameter bores to an approximate depth of 9-10m. Installation of uPVC casing to an approximate depth to approx 9-10m. Proposed grouting to 5m.	1762200	5908775	23053	Proposed	To authorise the construction of three bores for groundwater and environmental monitoring.	Goodman		2/06/2017	113 Savill Drive Favona Manukau	Point		Invalid Date	Invalid Date
	1762118.3	5908908.6	20987	Completed	MCC constructing a link road at the extension of Savill Drive, 60-120m west of the Harania Creek Bridge. Fill material excavated and stockpiled alongside the road under construction. An Site Mgmt Plan	MCC-Savill Dr ext. to James Fletcher		2/06/2017	Savill Drive Mangere Manukau City	Point		Invalid Date	Invalid Date

HAIL Activities

FormType	IncidentStatus	FormTypeDescription	TransactionDecision	ApplicationDate	LodgedDate	DecisionDate	IssuedDate	PropertyStatus	LegacyPropertyID	PropertyType	GeometrySource
YCST	Current	Contaminated Sites	Conditions Updated	Invalid Date	9/01/1998	18/01/2019	Invalid Date	Current	MCC000H157142	Standard	Property Boundary
YCST	Current	Contaminated Sites		Invalid Date	9/07/2002	Invalid Date	Invalid Date	Current	MCC001353/38R	Reserve	Property Boundary
YCST	Current	Contaminated Sites	Conditions Updated	Invalid Date	1/01/1900	9/12/2019	Invalid Date	Current		Standard	Property Boundary
YCST	Current	Contaminated Sites	Conditions Updated	Invalid Date	10/08/2005	8/06/2018	Invalid Date	Current	MCC000H159459	Standard	Property Boundary
YCST	Current	Contaminated Sites	Conditions Updated	Invalid Date	14/09/2018	14/09/2018	Invalid Date	Current	MCC000H214233	Standard	Property Boundary
YCST	Current	Contaminated Sites	Conditions Updated	Invalid Date	22/04/2021	22/04/2021	Invalid Date	Current	MCC000H150021	Standard	Property Boundary
YCST	Current	Contaminated Sites	Conditions Updated	Invalid Date	14/09/2018	14/09/2018	Invalid Date	Current	MCC000H214233	Standard	Property Boundary
YCST	Current	Contaminated Sites	Conditions Updated	Invalid Date	9/01/1998	18/01/2019	Invalid Date	Current	MCC000H157142	Standard	Property Boundary
YCST	Current	Contaminated Sites	Conditions Updated	Invalid Date	16/01/2019	16/01/2019	Invalid Date	Current	MCC001357/25R	Reserve	Property Boundary
YCST	Current	Contaminated Sites	Conditions Updated	Invalid Date	9/01/1998	18/01/2019	Invalid Date	Current	MCC000H157142	Standard	Property Boundary
YCST	Current	Contaminated Sites	Conditions Updated	Invalid Date	14/09/2018	14/09/2018	Invalid Date	Current	MCC000H214233	Standard	Property Boundary
YCST	Current	Contaminated Sites	Conditions Updated	Invalid Date	14/09/2018	14/09/2018	Invalid Date	Current	MCC000H214233	Standard	Property Boundary
YCST	Current	Contaminated Sites	Conditions Updated	Invalid Date	22/04/2021	22/04/2021	Invalid Date	Current	MCC000H150021	Standard	Property Boundary
YCST	Current	Contaminated Sites	Conditions Updated	Invalid Date	14/09/2018	14/09/2018	Invalid Date	Current	MCC000H214233	Standard	Property Boundary
YCST	Current	Contaminated Sites	Conditions Updated	Invalid Date	9/01/1998	18/01/2019	Invalid Date	Current	MCC000H157142	Standard	Property Boundary
YCST	Current	Contaminated Sites	Conditions Updated	Invalid Date	16/01/2019	16/01/2019	Invalid Date	Current	MCC001357/25R	Reserve	Property Boundary



YCST	Current	Contaminated Sites	Conditions Updated	Invalid Date	9/01/1998	18/01/2019	Invalid Date	Current	MCC000H157142	Standard	Property Boundary
YCST	Current	Contaminated Sites	Conditions Updated	Invalid Date	14/09/2018	14/09/2018	Invalid Date	Current	MCC000H214233	Standard	Property Boundary
YCST	Current	Contaminated Sites	Conditions Updated	Invalid Date	24/12/1999	2/04/2024	Invalid Date	Current	MCC000H154819	Standard	Property Boundary
YCST	Current	Contaminated Sites	Conditions Updated	Invalid Date	24/12/1999	2/04/2024	Invalid Date	Current	MCC000H154819	Standard	Property Boundary
YCST	Current	Contaminated Sites	Conditions Updated	Invalid Date	17/07/2024	17/07/2024	Invalid Date	Current	MCC0001357/15	Standard	Property Boundary
YCST	Current	Contaminated Sites	Conditions Updated	Invalid Date	17/07/2024	17/07/2024	Invalid Date	Current	MCC00001357/9	Standard	Property Boundary
YCST	Current	Contaminated Sites	Conditions Updated	Invalid Date	17/07/2024	17/07/2024	Invalid Date	Current	MCC00001358/8	Standard	Property Boundary
YCST	Current	Contaminated Sites	Conditions Updated	Invalid Date	17/07/2024	17/07/2024	Invalid Date	Current	MCC0001357/11	Standard	Property Boundary
YCST	Current	Contaminated Sites	Conditions Updated	Invalid Date	17/07/2024	17/07/2024	Invalid Date	Current	MCC0001358/12	Standard	Property Boundary
YCST	Current	Contaminated Sites	Conditions Updated	Invalid Date	17/07/2024	17/07/2024	Invalid Date	Current	MCC00001358/5	Standard	Property Boundary
YCST	Current	Contaminated Sites	Conditions Updated	Invalid Date	17/07/2024	17/07/2024	Invalid Date	Current	MCC00001357/5	Standard	Property Boundary
YCST	Current	Contaminated Sites	Conditions Updated	Invalid Date	17/07/2024	17/07/2024	Invalid Date	Current	MCC0001357/13	Standard	Property Boundary
YCST	Current	Contaminated Sites	Conditions Updated	Invalid Date	17/07/2024	17/07/2024	Invalid Date	Current	MCC00001358/4	Standard	Property Boundary
YCST	Current	Contaminated Sites	Conditions Updated	Invalid Date	17/07/2024	17/07/2024	Invalid Date	Current	MCC00001354/5	Standard	Property Boundary

Incidents

REPORT	INCIDENTTYPE	ACTIONEDBY	IMPACT	VOLUME	PROBLEMFOUND	CULPRITTRACED	RECORDDATE	INVESTIGATIONDATE
DWSO	Sewage Overflow	Moka Leilani Seaton	Natural Water	10-200 litres	YES	YES	30/06/2011	30/06/2011
DWSO	Sewage Overflow	Moka Leilani Seaton	Land Only	10-200 litres	YES	YES	23/05/2009	23/05/2009
Stream behind property polluted	Not Found	Katie Navrotskaya	Nil	Nil	NO	YES	19/03/2010	19/03/2010
Concrete waste water entering stormwater	Water / Land Pollution	Stuart Timmis	Natural Water	200-1000 litres	YES	YES	23/05/2008	23/05/2008
DWSO	Sewage Overflow	Hazel Meadows	Natural Water	10-200 litres	YES	YES	17/08/2009	17/08/2009
Oil spii into ponds	Not Found	Glenn Riddell	Nil	Nil	NO	YES	15/09/2008	15/09/2008
Chemical burning smell	Air Pollution		Offensive or Objectionable		YES	YES	2/09/2008	2/09/2008
DWSO	Sewage Overflow	Nora Leuschner	Stormwater	10-200 litres	YES	YES	24/11/2009	24/11/2009
Sewer overflow into residential properties	Sewage Overflow	Matthew Harrex	Stormwater	>1000 litres	YES	YES	5/12/2009	5/12/2009
Smell	Air Pollution	Aaron Graham	Potential	N/A	YES	YES	21/12/2012	21/12/2012
Sediment and paper in reserve	Water / Land Pollution	Ruth Clayden	Natural Water	<10 litres	YES	NO	31/07/2014	31/07/2014

Permitted Activities

ACTIVITY_ID	ACTIVITY_STATUS	ACTIVITY_DESCRIPTION	SITE_NAME	SITE_DESCRIPTION	DATE_CREATED	PROPERTY_ADDRESS	LOC_TYP
20955	Completed	Contaminated sediments to be excavated as part of the proposed bridge construction.	Savill Drive bridge over Harania Creek	Contaminated sediments to be excavated as part of the proposed bridge construction.	2/06/2017		Point
29870	Proposed	To authorise the construction of one bore for geotechnical. & geological investigation purposes.	Blake Road Reserve		2/06/2017	R 81 Blake Road Mangere East Manukau	Point

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