PHASE 1 PRELIMINARY SITE CONTAMINATION INVESTIGATION

Batemans Bay Hospital
7 Pacific Street, BATEMANS BAY NSW 2536

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CLIENT:	**Health Infrastructure** **C/O BD Infrastructure Pty Ltd**
SITE:	**Batemans Bay Hospital** **7 Pacific Street** **BATEMANS BAY NSW 2536**
REPORT NUMBER:	**12740.01.PSCA**
DATE OF REPORT:	**6 May 2024**
CONSULTANT:	**Brodie Bishop BSc, MEnvMgt**

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1. EXECUTIVE SUMMARY

Getex Pty Ltd (Getex) was engaged by Health Infrastructure C/O BD Infrastructure Pty Ltd to undertake a Preliminary Site Contamination Investigation for Batemans Bay Hospital, 7 Pacific Street, BATEMANS BAY NSW 2536 (the Site). The investigation was focused on the southern section of the Site where construction works are to be undertaken (the Area of Concern). The purpose of this investigation was to provide a preliminary investigation of the current belowground conditions of the Area of Concern, with respect to potential belowground contamination, for the construction of a new community health building and upgrade of the car park.

The scope of the investigation was limited to:

- A review of site history documentation including:
    - Historical land titles records;
    - Aerial photographs;
    - Local geology, hydrology and hydrogeology records;
    - Section 10.7 (2) & (5) council certificates;
    - Local council property files;
    - Historical business directories;
    - SafeWork NSW schedule 11 hazardous chemicals search;
    - EPA public registers; and
    - Below ground utilities search.
- A site surface walkover inspection;
- Preparation of a Conceptual Site Model (CSM);
- A limited subsurface soil sampling and analysis regime on the Site that included:
    - The collection of samples from the Site across 6 locations.
    - The following analysis regime:
        i. 15 Samples analysed for Metals (As, Cd, Cr, Cu, Hg, Pb, Ni & Zn);
        ii. 15 Samples analysed for Total Recoverable Hydrocarbons (TRH);
        iii. 15 Samples analysed for Benzene, Toluene, Ethyl Benzene and Xylenes (BTEX);
        iv. 15 Samples analysed for Polycyclic Aromatic Hydrocarbons (PAHs);
        v. 15 Samples analysed for Phenols;
        vi. 15 Samples analysed for Organochloride Pesticides (OCP);
        vii. 15 Samples analysed for Organophosphate Pesticides (OPP);
        viii. 15 Samples analysed for Polychlorinated Biphenyls (PCBs); and
        ix. 6 Samples analysed for Asbestos.
- Interpretation of the analytical results against the adopted Site Assessment Criteria (SAC); and
- Prepare a report outlining the findings of the investigation including a preliminary assessment of the suitability of the Site for the development with respect to below ground contamination based on the results of the investigation.

Based on the findings from the site historical review and walkover inspection there was the potential for contamination from previous and current site activities (farming and hospital), imported fill and an above ground LPG tank.

Soil samples were collected from the Site and analysed for TRH, BTEX, Metals, PAHs, OCPs, OPPs, PCBs, Phenols and Asbestos.

The soil concentrations TRH, BTEX, Metals, PAHs, OCPs, OPPs, PCBs, Phenols and Asbestos were within the adopted criteria and PID analysis of soil headspace was within acceptable levels and thus do not present an unacceptable risk to human or environmental health.

As such, contaminants within soils do not represent an unacceptable risk to human health/environment with respect to the site's use.

In accordance with State Environmental Planning Policy (Resilience and Hazards) 2021 Section 4.6, it is the opinion of the consultant that consent to carry out the development can be granted as the land is suitable for a new community health building and upgrade of the car park.

This Executive Summary should be read in conjunction with all sections of this report.

2. SCOPE

Getex Pty Ltd (Getex) was engaged by Health Infrastructure C/O BD Infrastructure Pty Ltd to undertake a Preliminary Site Contamination Investigation for Batemans Bay Hospital, 7 Pacific Street, BATEMANS BAY NSW 2536 (the Site). The investigation was focused on the southern section of the Site where construction works are to be undertaken (the Area of Concern). The purpose of this investigation was to provide a preliminary investigation of the current belowground conditions of the Area of Concern, with respect to potential belowground contamination, for the construction of a new community health building and upgrade of the car park.

The scope of the investigation was limited to:

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    - Aerial photographs;
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    - Section 10.7 (2) & (5) council certificates;
    - Local council property files;
    - Historical business directories;
    - SafeWork NSW schedule 11 hazardous chemicals search;
    - EPA public registers; and
    - Below ground utilities search.
- A site surface walkover inspection;
- Preparation of a Conceptual Site Model (CSM);
- A limited subsurface soil sampling and analysis regime on the Site that included:
    - The collection of samples from the Site across 6 locations.
    - The following analysis regime:
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- Interpretation of the analytical results against the adopted Site Assessment Criteria (SAC); and
- Prepare a report outlining the findings of the investigation including a preliminary assessment of the suitability of the Site for the development with respect to below ground contamination based on the results of the investigation.

The scope of work was undertaken with reference to the National Environmental Protection (Assessment of Site Contamination) Measure (2013), NSW EPA Consultants Reporting on

Contaminated Land: Contaminated Land Guidelines (2020) and State Environmental Planning Policy (Resilience and Hazard) (2021).

3. LIMITATIONS

The investigation conducted was limited in scope. The area considered in the investigation was limited to the southern section of Batemans Bay Hospital (the Area of Concern).

This investigation included the collection of limited soil samples to a depth of 3m. The investigation did not include the analysis of ground water samples or the assessment of ground water quality on site. The investigation involved the inspection/sampling of a selected number of locations/materials at the time of inspection which may or may not be representative of conditions between the locations/materials assessed. Furthermore, conditions on site may also change over time subsequent to the Getex assessment.

As such, although all work is performed to a professional and diligent standard, the potential variance between the practical limitations of the scope of work undertaken, the cost of our services, all possible issues of concern, and any loss or damages which may be associated with our work are such that we cannot warrant that all issues of concern/contamination or potential contamination have been identified. We therefore limit any potential liability associated with our work to the cost of our services.

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4. SITE IDENTIFICATION

The Site to be investigated is the southern section of Batemans Bay Hospital (the Area of Concern). The Site is located within the Parish of Bateman, County of St Vincent. The local government authority is Eurobodalla Shire Council. Eurobodalla Shire Council zoned the Site as R3 Medium Density Residential within the Eurobodalla Local Environment Plan (2013).

The site identification details are summarised in the following table.

Site Address:	7 Pacific Street, BATEMANS BAY NSW 2536
Lot & Deposited Plan:	Lot 22 DP 1152713
Current Land Use:	Hospital & Car Park
Proposed Land Use:	Community health building & upgrade of the car park
Local Government Authority:	Eurobodalla Shire Council
Geographical Location (MGA56):	Easting: 245073 Northing: 6044066 (approximately)
Site Investigation Area:	Approximately 11,500m^2
Area of Concern Area:	Approximately 2,500m^2

Table 4-1: Site Identification Details

Refer to Figure 1 for the general location of the Site.

*Aerial image derived under license from Google Earth and is indicative of on-ground locations only.

Figure 1. Site Locality Map

5. DESCRIPTION OF SITE AND SURROUNDING ENVIRONMENT

A surface walkover inspection of the Area of Concern and surrounding area was conducted on the 8th of April 2024. The Site is also identified as Lot 22 DP 1152713. The Site is a currently a hospital with the Area of concern consisting of the southern section of the hospital and a car park.

Surrounding the Area of Concern were residential dwellings and a hospital.

5.1 Lot 22 DP 1152713

Identified as 7 Pacific Street the Area of Concern is located in an area of medium density residential and consists of a hospital and car park.

The Area of Concern is in close proximity of Pacific Street, which is a main road with high traffic use.

Within the Area of Concern, the majority of the Site is covered in either asphalt or concrete hardstand with some grass and gravel cover in the south-eastern section of the Area of Concern.

The central northern section of the Area of Concern has an ambulance awning which is to be demolished.

There are large LPG and Oxygen tanks located in the south-eastern section of the Area of Concern.

No underground storage tanks were identified onsite.

5.2 Surrounding Area

The Area of Concern is within a residential area.

North of the Area of Concern is a hospital.

East of the Area of Concern is bushland followed by residential dwellings.

South of the Area of Concern are residential dwellings.

West of the Area of Concern is Pacific Street followed by residential dwellings.

5.3 Proposed Development

The construction of a Community Health building and upgrade of the existing car park.

6. TOPOGRAPHY, GEOLOGY, HYDROLOGY AND HYDROGEOLOGY

6.1 Topography

The topography of the Area of Concern is relatively flat for the majority of it and has a slope towards the east for the eastern section of the Area of Concern and sloping towards the western direction west of the Area of Concern.

6.2 Geology

The geology in the area is underlain with the Abercrombie Formation unit which is characterised with brown and buff to grey, thin to thick-bedded, fine to coarse-grained mica-quartz sandstone, interbedded with laminated siltstone and mudstone. Sporadic chert-rich units.

From field observations the geological profile was as following:

Topsoil

Dark and light brown loam with minor sand and/or orange clays to depths of 0.0m-0.15m.

Fill

Fill material consisted of yellow sandy clay with rocks and gravel at depths of 0.0-0.55m.

Natural Soils

Across the Site the natural soil horizon was a yellow sandy clay to an orange-brown clay.

Groundwater

Groundwater was not encountered during the investigation.

6.3 Hydrology

Within the Area of Concern, precipitation is expected to infiltrate the surface soils where there is no hardstand cover. Infiltration is expected to be at a rate reflective of the soil. During heavy of prolonged rain periods, surface runoff is expected to run towards the eastern direction east of the Area of Concern and to the western direction west of the Area of Concern.

6.4 Hydrogeology

Groundwater bore information obtained from the NSW Office of Water are included in Appendix IV. There were eight (8) registered bores located within a 500m radius of the Site and a summary of these bores are presented in Table 6.1.

Bore ID	Use	Approximate Distance from Site	Bore Depth	Standing Water Level
10053187	Water Supply	27m North east	4.50	-
10119066	Water Supply	121m East	4.20	-
10089547	Water Supply	134m East	3.50	-
10124317	Water Supply	254m East	4.00	-
10135442	Water Supply	277m East	-	-
10136369	Water Supply	353m East	4.50	-
10126694	Other	369m North west	5.30	-
10119956	Other	452m North west	4.20	-

Table 6-1: Summary of Groundwater Bores

In addition, the borehole logs from the geotechnical engineer (Ref UK/C15142) showed no groundwater (up to 7m) was encountered during drilling works.

No apparent on-site use of groundwater was observed during the Site assessment.

Based on the available geological and hydro-geological information it is anticipated that groundwater may be encountered at the soil-rock interface as a result of subsurface water movement during and following wet weather and is expected to flow towards the eastern and western directions due to the topography of the Area of Concern and surrounding area. The permanent groundwater table is anticipated to occur within the underlying bedrock, within zones of relatively higher permeability or associated with inconsistencies in the bedrock (faults, joints, weathered zones, etc).

6.5 Acid Sulfate Soil

According to Acid Sulfate Soil Planning Maps, the Site is not within an area of known acid sulfate soils. The Atlas of Australian Acid Sulfate Soils categorises the Site as within an area of low Probability of occurrence (6-70% chance of occurrence). Furthermore, the Acid Sulfate Soil Risk Maps reveal the Site to be in an area of no known risks of acid sulfate soil materials. Therefore, acid sulfate soils are not expected to occur in this environment.

6.6 Local Sensitive Environments

According to SEED - The Central Resource for Sharing and Enabling Environmental Data in NSW, the Site does not contain environmentally sensitive land.

7. SITE HISTORY

7.1 Land Titles Search

A land titles search was conducted by Advanced Legal Search Pty Limited for 7 Pacific Street, BATEMANS BAY NSW 2536. The search identified Lot 22 DP 1152713. The land titles search for the above-mentioned Lot is summarised in the following table.

Year	Proprietor
	(Lot 22 DP 1152713)
22 Oct 2019 to date	Health Administration Corporation
09 Aug 2010	Greater Southern Area Health Services
	(Lot 2 DP 1135117)
22 Apr 2009	Greater Southern Area Health Services
	(Lot 121 DP 564850)
09 Apr 1988	The Bateman's Bay District Hospital
	(Lot 121 DP 564850 – CTVol 12286 Fol 118)
01 Nov 1979	The Bateman's Bay District Hospital
29 Nov 1973	Public Trustee The Bateman's Bay District Hospital
	(Part Portion 236 Parish Bateman – Area 2 Acres 2 Roods 36 ½ Perches – CTVol 4198 Fol 183)
16 Feb 1959	Public Trustee
02 Oct 1928	Antonio George Patrech, fisherman
	(Portion 236 Parish Bateman – Area 3 Acres 2 Roods 3 Perches – CTVol 3533 Fol 141)
30 Nov 1923	Antonio George Patrech, fisherman / grantee
	(Portion 236 Parish Bateman – Area 3 Acres 2 Roods 3 Perches)
Prior to 30 Nov 1923	Crown Land
(1920 to 30 Nov 1923)	*(Conditional Purchase 1920/5 Moruya)*
	(Lot 11 DP 20784 – Area 5 Acres – CTVol 6118 Fol 229)
19 May 1950	The Bateman's Bay District Hospital
30 Mar 1950	Wilfred Percy Bill, hotel keeper
	(Part Portions 15 to 18 Parish Bateman – Area 12 Acres 1 Rood 15 ¾ Perches – CTVol 5032 Fol 110)
11 Apr 1939	Wilfred Percy Bill, hotel keeper
	(Part Portions 15 to 17 Parish Bateman – Area 9 Acres 2 Roods 13 ¾ Perches – CTVol 4697 Fol 215)
04 Jul 1935	Wilfred Percy Bill, hotel keeper
	(Portion 16 Parish Bateman – Area 3 Acres 2 Roods 24 Perches – CTVol 109 Fol 243)
20 Dec 1921	Wilfred Percy Bill, hotel keeper
(02 Jun 1924 to 26 Jun 1935)	*(lease to William Henry Robb, butcher)*
09 Apr 1913	Duncan Forbes Mackay, grazier
	(Portion 17 Parish Bateman – Area 3 Acres 1 Roods 27 Perches – CTVol 109 Fol 244)

Year	Proprietor
20 Dec 1921	Wilfred Percy Bill, hotel keeper
(02 Jun 1924 to 26 Jun 1935)	*(lease to William Henry Robb, butcher)*
09 Apr 1913	Duncan Forbes Mackay, grazier
	(Portion 15 Parish Bateman – Area 3 Acres 2 Roods 8 Perches – CTVol 115 Fol 71)
20 Dec 1921	Wilfred Percy Bill, hotel keeper
(02 Jun 1924 to 26 Jun 1935)	*(lease to William Henry Robb, butcher)*
09 Apr 1913	Duncan Forbes Mackay, grazier

Table 7-1: Summary of Land Titles Search Lot 22 DP 1152713

7.2 Aerial Photographs

Thirteen historical photographs have been provided for viewing. These photographs were for the years 1949, 1964, 1969, 1979, 1989, 1991, 1997, 2005, 2013, 2015, 2018, 2020, and 2023. The aerial photographs are presented in **Appendix III**. The inspection of the aerial photographs is summarised in Table 7-3.

Year	Summary
1949	The aerial photo is in black and white. Discernible details are not clear. The Site appears to contain grazing land. Pacific Street exists west of the Site. The surrounding areas appears to be either farms or farming related structures.
1964	The aerial photo is in black and white. Discernible details are not clear. The Site appears unchanged. The surrounding areas appears to have been further developed with more farms and possibly some residential development.
1969	The aerial photo is in black and white. Discernible details are not clear. The Site appears to now contain a hospital. Further residential development has been undertaken in areas surrounding the Site.
1979	The aerial photograph is in black and white. Discernible details are clear. The Site appears unchanged. The surrounding area appears predominantly unchanged.
1989	The aerial photograph is in black and white. Discernible details are clear. The Site appears unchanged. The surrounding area appears to have undergone further residential development.
1991	The aerial photograph is in colour. Discernible details of the Site are clear. The Site and surrounding area appear unchanged.
1997	The aerial photograph is in colour. Discernible details of the Site are clear. The Site appears to have been further developed with additions to the hospital. The surrounding area appears to have undergone further residential development.
2005	The aerial photograph is in colour. Discernible details of the Site are clear. The Site appears to have been further developed with additions to the hospital. The surrounding area appears mostly unchanged with possibly some minor residential development.
2013	The aerial photograph is in colour. Discernible details of the Site are clear. The Site appears to be mostly unchanged. The surrounding area appears mostly unchanged with possibly some minor residential development.

Year	Summary
2015	The aerial photo is in colour. Discernible details are clear. The Site and surrounding area appear unchanged.
2018	The aerial photo is in colour. Discernible details are less clear. The Site and surrounding area appear unchanged.
2020	The aerial photo is in colour. Discernible details are clear. The Site and surrounding area appear unchanged.
2023	The aerial photo is in colour. Discernible details are clear. The Site and surrounding area appear unchanged.

Table 7-2: Summary of Aerial Photograph Inspection

7.3 EPA Records

A search of the EPA public register under the Protection of the Environment Operations Act 1997 was undertaken. The search results are presented in **Appendix III**. The search identified that, for the Site there were:

- No prevention, clean-up or prohibition notices; and
- No transfer, variation, suspension, surrender or revocation of an environment protection license (EPL).

However, the search revealed that Protection of the Environment Operations Licences were issued to a surrounding site east, of the Site for the following activities:

- Batemans Bay Marina Pty Ltd located at 27 Beach Road, BATEMANS BAY NSW 2536 has one (1) POEO licence for the following:
    - Boat construction/ maintenance (general); and
    - Boat mooring and storage.

However, based on the locations of these activities in relation to the Site, it is highly unlikely the Site was affected by the above listed activities.

7.4 Council Records

Eurobodalla Shire Council was requested to make available for review property documentation held which may provide information pertinent to the ground contamination status of the Site. The request was still pending at the time of issuing this report.

7.5 Historical Business Directories

A search of the historical business directories was undertaken. Records for the years 1950, 1961, 1970, 1982, and 1991 were reviewed. The search results are presented in **Appendix III**. The search did identify the following businesses within the Site that were of a concern:

- Hospitals and/or Nursing homes (1982-current).

The search also identified businesses adjacent to the Site that were of a concern including:

- Painters, paperhangers & decorators (1961);
- Cycle dealers & accessories (1961).

- Carriers & cartage contractors west of the Site (1961);
- Fish bait suppliers north-east of the Site (1970);
- Radio dealers & or servicemen north-east of the Site (1950);
- Builders & building contractors south of the Site (1970);
- Plumbers, gas fitters & drain layers (1950); and
- Electrical contractors (1970).

However, based on the distance of the historical businesses to the Site and the location of the Site on an upgradient from the above, it is highly unlikely the Site was affected by any of the above.

7.6 SafeWork NSW Records

SafeWork NSW was requested to undertake a search for information on licenses to keep schedule 11 hazardous chemicals for the Site. The SafeWork NSW request was still pending at the time of issuing this report.

7.7 Section 10.7 Certificate

A review of the Section 10.7 (2 and 5) certificate issued by City of Eurobodalla Shire Council indicates that the land is not declared to be significantly contaminated land or other matters under the Contaminated Land Management Act 1997 (Refer to **Appendix II**).

7.8 Underground Utilities Search

An online search for utilities located within the site was conducted and is summarised in Table 7-5, below. Asset owners Essential Energy, NBN Co and Telstra provided information on their utilities (refer to **Appendix VI** – Below Ground Utilities Search).

Asset Owner	Utility Type	Utility Location
Essential Energy	Ground Substation	At edge of Pacific Street
	Low Voltage Underground Cable	Running from the Ground Substation east through the Site and then changes direction and runs north through the Site
NBN Co	80mm PVC Conduit	Running from Pacific Street at the northern end of the Area of Concern.
	20mm PVC Conduit	Running from Pacific Street through the centre of the Area of Concern.
Telstra	20mm PVC Conduit	Running from Pacific Street east through the northern section of the Area of Concern for 45.6m then changes direction and runs north east through the northern section of the Area of Concern..

Asset Owner	Utility Type	Utility Location
	50mm PVC Conduit	Branches of the above conduit 20m from Pacific Street and runs north-east through the northern end of the Area of Concern.

Table 7-3: Below Ground Utilities Search

7.9 Assessment of Historical Information Integrity

The site history assessment has been obtained from a variety of resources including government records from the NSW land titles office, council records, historical aerial photographs, utilities providers, historical business directories, NSW Planning, Industry and Environment and NSW EPA. The veracity of the information from the obtained sources is considered to be high. The site history assessment is generally considered to be of high integrity with respect to the historical use of the Site.

8. CONCEPTUAL SITE MODEL

The following sections detail a conceptual site model which has been developed in relation to the potential origin, impact and migration of contaminants. This model has been developed for the Area of Concern based on the findings of the site history review and walkover inspection.

8.1 Sources of Potential Contaminants

The following table lists potential contaminants based on site activities and conditions identified during the site historical review and walkover inspection (refer to Sections 5 to 7). Refer to **Appendix I** for Site Map of the sources.

Source	Location	Potential Contaminants
Building materials	Entire Site	Asbestos and Lead in Paint
Past activities on the Site and surrounding the Site - Farming	Entire Site	Metals, Organochloride Pesticides (OCP), Organophosphorus Pesticides (OPP)
Environmental historical fall out due to traffic emissions	Entire Site	Lead
Current activities on the Site - Hospital	Entire Site	Total Recoverable Hydrocarbons (TRH), Benzene Toluene Ethyl-Benzene Xylenes (BTEX), Metals, Polycyclic Aromatic Hydrocarbons (PAHs), Phenols and Poly-chlorinated Biphenyls (PCBs).
Above ground LPG tank located on the Site	Eastern section of the Area of Concern	Total Recoverable Hydrocarbons (TRH), Benzene Toluene Ethyl-Benzene Xylenes (BTEX), Metals, Polycyclic Aromatic Hydrocarbons (PAHs), Phenols
Potentially contaminated fill	Entire Site	Total Recoverable Hydrocarbons (TRH), Benzene Toluene Ethyl-Benzene Xylenes (BTEX), Metals, Polycyclic Aromatic Hydrocarbons (PAHs), Organochloride Pesticides (OCP), Organophosphorus Pesticides (OPP), Poly-chlorinated Biphenyls (PCBs), Asbestos

Table 8-1: Potential Contaminants

8.2 Potentially Contaminated Media

Potentially contaminated media present at the site included:

- Topsoil/fill material; and
- Natural Soils and/or Bedrock.

The desk top site history and walkover assessment has identified past and present activities on the Site including farming and its current use as a hospital. There is also an above ground LPG tank within the Area of Concern. These activities may have resulted in localised impacts at the ground surface from spillage and/or leakage of contaminants. In addition, the aerial photos suggests that land modification may have occurred in the general area and so potentially contaminated fill material may be present.

Based on the potential mobility of contaminants and their associated potential leachability through the soil/fill profile, vertical migration of contaminants from the surface soils into the underlying natural soils/bedrock may have occurred. As a result, the natural soils and underlying bedrock are also considered to be potentially contaminated media.

Groundwater is expected at depth in natural soil/bedrock and is not considered to be impacted by above ground and fill material contamination sources.

8.3 Potential for Migration

Contaminants generally migrate from Site via a combination of windblown dusts, rainwater infiltration, groundwater migration and surface water runoff. The potential for contaminants to migrate is a combination of:

- The nature of the contaminants (solid/liquid and mobility characteristics);
- The extent of the contaminants (isolated or widespread);
- The location of the contaminants (surface soils or at depth);
- The site topography, geology, hydrology and hydrogeology;
- The adjacent properties; and
- Underground utility corridors.

The potential contaminants identified as part of the site history and site inspections are generally in either a solid form (*e.g*. heavy metals, asbestos, *etc*) or liquid form (*e.g*. hydrocarbons, pesticides, *etc*).

The potential for contaminants to migrate along the underground utility corridors is not likely to occur as the amount of underground utilities identified to be traversing through the property is low.

There is the potential for erosion due to aeolian and water processes however erosion impact appeared minimal during the walkover inspection. Therefore, dust and water erosion potential of the Site is anticipated to be low.

The potential for rainwater infiltration to occur at the Site was relatively low given the majority of the Area of Concern was covered in hardstand. If rainfall does penetrate the natural soil in areas not covered by hardstand, this movement may result in vertical migration of contaminants through the natural soil profile however this is likely to be intermittent and dependent on rainfall.

Some potential contaminants identified may be in liquid form (i.e. hydrocarbons). There is the potential for natural dispersion/diffusion of these contaminants to migrate south-east due to the Site's topography however, this is anticipated to be low.

The potential sources of contamination are likely to be present above bedrock. Depth to groundwater is expected to be at depth within the bedrock. It is therefore considered that the groundwater is not likely to have a potential to facilitate the migration of contaminants due to the expected depth of groundwater and the limited mobility of groundwater through the bedrock profiles, with higher mobility confined to faults in the bedrock (if present).

8.4 Preliminary Conceptual Site Model Summary

The following table provides a summary of the preliminary conceptual site model detailed in the previous sections and includes potential contaminant origin, impact, migration and receptor's exposure pathways.

Source	Contaminants	Location	Affected Media	Migration Potential	Current Receptors	Current Exposure Pathway	Future Receptors	Future Exposure Pathway
Past activities on the Site and surrounding the Site - Farming	Metals, OCPs, OPPs	Entire Site	Surface soil; Underlying natural soils and bedrock.	Surface water and dust - low potential; Vertical migration.	Site Occupants; Neighbouring properties; Ecological receptors.	Skin contact with potentially contaminated soil; Ingestion of potentially contaminated soil.	Site Occupants; Neighbouring properties; Ecological receptors; Construction Workers.	Skin contact with potentially contaminated soil; Ingestion of potentially contaminated soil.
Building materials	Asbestos and Lead in Paint	Entire Site	Surface soil.	Surface water and dust - low potential; Vertical migration.	Neighbouring properties; Ecological receptors.	Skin contact with potentially contaminated soil; Inhalation of l asbestos fibres; Ingestion of potentially contaminated soil.	Future site users; Neighbouring properties; Construction Workers; Ecological receptors.	Skin contact with potentially contaminated soil; Inhalation of asbestos fibres; Ingestion of potentially contaminated soil.
Potentially contaminated fill	TRH, BTEX, Heavy Metals, PAHs, OCP, PCBs, Asbestos	Entire Site	Surface soil; Underlying natural soils and bedrock.	Surface water and dust - low potential; Vertical migration; Horizontal migration – low potential.	Neighbouring properties; Ecological receptors.	Skin contact with potentially contaminated soil; Vapour inhalation of potentially contaminated soil; Inhalation of asbestos fibres; Ingestion of potentially contaminated soil.	Future site users; Neighbouring properties; Construction Workers; Ecological receptors.	Skin contact with potentially contaminated soil; Vapour inhalation of potentially contaminated soil; Inhalation of asbestos fibres; Ingestion of potentially contaminated soil.

Source	Contaminants	Location	Affected Media	Migration Potential	Current Receptors	Current Exposure Pathway	Future Receptors	Future Exposure Pathway
Environmental fall out due to traffic emissions	Lead	Entire Site	Surface soil.	Surface water and dust - low potential; Vertical migration.	Neighbouring properties; Ecological receptors.	Skin contact with potentially contaminated soil; Ingestion of potentially contaminated soil.	Future site users; Neighbouring properties; Construction Workers; Ecological receptors.	Skin contact with potentially contaminated soil; Ingestion of potentially contaminated soil.
Current activities on the Site - Hospital	Total Recoverable Hydrocarbons (TRH), Benzene Toluene Ethyl-Benzene Xylenes (BTEX), Metals, Polycyclic Aromatic Hydrocarbons (PAHs), Phenols and Poly-chlorinated Biphenyls (PCBs).	Entire Site	Surface soil; Underlying natural soils and bedrock.	Surface water and dust - low potential; Vertical migration; Horizontal migration – low potential.	Site Occupants; Neighbouring properties; Ecological receptors.	Skin contact with potentially contaminated soil; Ingestion of potentially contaminated soil.	Site Occupants; Neighbouring properties; Ecological receptors; Construction Workers.	Skin contact with potentially contaminated soil; Ingestion of potentially contaminated soil.
Above ground LPG tank located on the Site	Total Recoverable Hydrocarbons (TRH), Benzene Toluene Ethyl-Benzene Xylenes (BTEX), Metals, Polycyclic Aromatic Hydrocarbons (PAHs), Phenols	Entire Site	Surface soil; Underlying natural soils and bedrock.	Surface water and dust - low potential; Vertical migration; Horizontal migration – low potential.	Site Occupants; Neighbouring properties; Ecological receptors.	Skin contact with potentially contaminated soil; Ingestion of potentially contaminated soil.	Site Occupants; Neighbouring properties; Ecological receptors; Construction Workers.	Skin contact with potentially contaminated soil; Ingestion of potentially contaminated soil.

Table 8-2: Preliminary Conceptual Site Model Summary

9. SAMPLING AND ANALYSIS PLAN

9.1 Data Quality Objectives

The methodology employed to design an appropriate sampling and analysis plan for this investigation involves firstly defining the Data Quality Objectives (DQOs) for the sampling (**Sections 9.1.1 to 9.1.6**), then selecting a sampling strategy (**Section 9.1.7**) and corresponding sampling points (**Section 9.2**) to best achieve the DQOs. This methodology is described in sequence in the following sections.

9.1.1 State the Problem

The desktop site historical review and walkover inspection has identified the potential for Site contamination conditions to occur at the Site which may impact upon the suitability of the Site for the construction of a new community health building and upgrade of the car park (**Section 8**).

Assessment of contamination conditions is necessary to assess the presence of contamination of the Site and draw conclusions regarding if there is contamination that will affect the suitability, or otherwise, for the Area of Concern to be a new community health building and upgrade of the car park.

Information on Site contamination conditions presented in earlier sections of this report resulted in the conceptual site contamination model presented in **Section 8** of this report.

At this stage of the investigation, limited soil sampling was to be included to provide a preliminary assessment of the belowground Site soil contamination conditions.

9.1.2 Identify the Decision

Based on the decision-making process for assessing urban redevelopment sites detailed in *Guidelines for the NSW Site Auditor Scheme (3rd edition),* Environmental Protection Authority (EPA) (October 2017), and the information within **Section 8**, the following decision was required to be made as part of the Site assessment:

- Is there any contamination within the soil that will pose a risk to future onsite receptors?
- Does the fill material identified from the desktop site history and walkover assessment contain any aesthetic (stains/odours/inert waste) issues?
- Was the amount of sampling sufficient to determine the Site's suitability for the proposed development?

9.1.3 Identify Inputs into the Decision

Inputs identified to provide sufficient data to make the decisions nominated above include:

- The Site description and history as provided in **Section 5, 6 and 7** respectively;

- Potential contamination issues as described in **Section 8**;
- Visual and olfactory indications;
- Soil environmental data as collected by soil sampling and analysis in **Appendix VII**;
- Soil criteria to be achieved on the Site as based on a proposed future land-use as defined by assessment criteria prepared in **Section 10**; and
- Confirmation that data generated by sample analysis are of a sufficient quality to allow reliable comparison to assessment criteria as undertaken by assessment of quality assurance / quality control as per the data quality indicators established in **Sections 9.1.6 & 11 and Appendix IX**.

9.1.4 Define the Study Boundaries

The study area is defined as the southern section of 7 Pacific Street, BATEMANS BAY NSW 2536, known as the Area of Concern and has an area of approximately 2,500m^2.

The vertical extent of the soil investigation was limited to a depth of 3m.

Due to the nature of potential contaminants identified and project deadline requirements, seasonality and other temporal variables were not assessed as part of this investigation.

The temporal boundaries of this investigation are limited to the period of field investigation during April 2024 and reported during May 2024.

9.1.5 Develop a Decision Rule

Soil analytical data was assessed against NSW Environmental Protection Authority (EPA) endorsed criteria including:

- *National Environment Protection (Assessment of Site Contamination) Measure,* National Environment Protection Council, 2013.

The decision rules adopted to answer the decisions identified in **Section 9.1.2** are summarised in the following table.

Decision Required to be Made	Decision Rule
1. Is there any contamination within the soil that will pose a risk to future onsite receptors?	*Soil analytical data will be compared against EPA endorsed criteria. Analyses of the data in accordance with relevant guidance documents will be undertaken, if appropriate, to facilitate the decisions.* *The following criteria will be adopted with respect to soils:* *the reported concentrations are all below the site criteria.* *If the criteria stated above are satisfied, the decision is No.* *If the criteria are not satisfied, the decision is Yes.*
2. Does the fill material identified from the site walkover contain any aesthetic (stains/odours/inert waste) issues?	*If there are any unacceptable odours and/or discolouration and/or inert waste (or other aesthetic indicators) the answer to the decision is Yes.* *Otherwise, the answer to the decision is No*
3. Was the amount of sampling sufficient to determine the Site's suitability for the proposed development?	*If there was any location/area that still required testing to complete data gap the answer to the decision is No.* *Otherwise, the answer to the decision is Yes.*

Table 9-1: Decision Rules

9.1.6 Specify Limits on Decision Errors

Specific limits for this project have been adopted in accordance with the appropriate guidance from the NEPC (2013), EPA (2017), appropriate indicators of data quality (DQIs used to assess quality assurance / quality control) and standard Getex procedures for field sampling and handling.

To assess the usability of the data prior to making decisions, the data will be assessed against predetermined Data Quality Indicators (DQIs) for completeness, comparability, representativeness, precision and accuracy. The acceptable limit on decision error is 95% compliance with DQIs.

The pre-determined Data Quality Indicators (DQIs) established for the investigation are discussed below in relation to precision, accuracy, representativeness, comparability, completeness and sensitivity (PARCCS parameters) and are shown in Table 11.2.

Precision - measures the reproducibility of measurements under a given set of conditions. The precision of the laboratory data and sampling techniques is assessed by calculating the Relative Percent Difference (RPD) of duplicate samples for chemical COPCs.

Accuracy - measures the bias in a measurement system. The accuracy of the laboratory data that are generated during this study is a measure of the closeness of the analytical results obtained by a method to the 'true' value. Accuracy is assessed by reference to the analytical results of laboratory control samples, laboratory spikes and analyses against reference standards. Note only applied to chemical COPC.

Representativeness – expresses the degree which sample data accurately and precisely represent a characteristic of a population or an environmental condition. Representativeness

is achieved by collecting samples on a representative basis across the Site, and by using an adequate number of sample locations to characterise the Site to the required accuracy.

Comparability – expresses the confidence with which one data set can be compared with another. This is achieved through maintaining a level of consistency in techniques used to collect samples; and ensuring analysing laboratories use consistent analysis techniques; and reporting methods.

Completeness – is defined as the percentage of measurements made which are judged to be valid measurements. The completeness goal is set at there being sufficient valid data generated during the study.

Sensitivity – expresses the appropriateness of the chosen laboratory methods, including the limits of reporting, in producing reliable data in relation to the adopted Site assessment criteria.

Data Quality Indicator	Frequency	Data Quality Criteria
Precision		
Blind duplicates (intra laboratory) analysis	1/20 samples	RPD <30% inorganics and <50% for organics
Split duplicates (inter laboratory)	1/20 samples	RPD <30% inorganics and <50% for organics
Accuracy		
Laboratory control samples	1 per lab batch	<LOR
Surrogate spikes	1 per lab batch	70-130%
Matrix spikes	1 per lab batch	70-130%
Representativeness		
Sampling appropriate for media and analytes	All samples	All samples
Samples extracted and analysed within holding times	All samples	Within holding times
Rinsate	1 per sample batch	<LOR
Trip blank	1 per sample batch	<LOR
Comparability		
Standard operating procedures for sample collection & handling	All samples	All samples
Standard analytical methods used for all analyses	All samples	All samples
Consistent field conditions, sampling staff and laboratory analysis	All samples	All samples
Limits of reporting appropriate and consistent	All samples	All samples
Completeness		
Soil description and COCs completed and appropriate	All samples	All samples
Appropriate documentation	All samples	All samples
Satisfactory frequency and result for QC samples	All QA/QC samples	-
Data from critical samples is considered valid	-	Critical samples valid
Sensitivity		
Analytical methods and limits of recovery appropriate for media and adopted site assessment criteria	All samples	LOR<= site assessment criteria

Table 9-2: Summary of DQI

Note: If the RPD between duplicates is greater than the pre-determined data quality criteria, a judgement will be made as to whether the excess is critical in relation to the validation of the data set or unacceptable sampling error is occurring in the field.

The DQOs for the assessment of the laboratory analytical data include the following conditions:

- Maximum sample holding times for organics are 7 days. Metals and metalloids holding times are 6 months. Mercury (Hg) holding time is 28 days;
- Sample preservation and handling will be conducted in accordance with industry accepted standards;
- All sample analyses will be conducted by NATA accredited laboratories;
- Laboratory blank analysis to be below practical quantitation limits (PQLs); and
- The relative percentage difference (RPD) of duplicates/soil replicates and percent recoveries of control spikes to be calculated and compared to the following criteria:
    - Less than 30% for field soil replicates; and
    - Less than 40% for internal duplicate samples and less than 44% on duplicates with 10 times the limit of reporting; and
    - 75-125% recovery for internal recovery samples.

9.1.7 Optimise the Design for Obtaining Data

Various strategies for developing a statistically based sampling plan are identified in NSW EPA Contaminated Land Guidelines: – Sampling Design Part 1 – Application (2022) including judgemental, random, systematic and stratified sampling patterns.

Since the desktop site history and walkover identified the sources of potential contamination, and that a preliminary assessment of the soil's contamination status is to be achieved, judgemental sampling targeting specific areas of concern was considered to be the most appropriate for the current investigation.

Soil samples were collected from multiple depths (up to a maximum depth of 3 metres) to allow for evaluation of the soil strata.

Based upon the objectives of this investigation, the density of the sampling undertaken as part of the investigation of the Site soil is considered appropriate.

9.2 Soil Sampling Program

Brodie Bishop BSc, MEnvMgt of Getex Pty Ltd attended the Site on the 8th of April 2024.

Six (6) locations were sampled using a drill rig with solid flight augers.

The soil profile at the Site consisted of:

Topsoil

Dark and light brown loam with minor sand and/or orange clays to depths of 0.0m-0.15m.

Fill

Fill material consisted of yellow sandy clay with rocks and gravel at depths of 0.0-0.55m.

Natural Soils

Across the Site the natural soil horizon was a yellow sandy clay to an orange-brown clay.

The following table presents a summary of the locations for the nineteen (19) samples collected within the Area of Concern. Please refer to **Appendix I** for the Site Map and **Appendix X** for the Borehole Logs.

Sample Number	Sample Type	Location Collected	Analysis Performed
12740/BH1/S1	Primary Soil Sample	Sample taken at a depth of 0.1m at location BH01. Refer to Appendix I.	TRH, BTEX, Heavy Metals, PAHs, OCP, OPP, PCBs, Phenols and Asbestos
12740/BH1/S2	Primary Soil Sample	Sample taken at a depth of 0.9m at location BH01. Refer to Appendix I.	TRH, BTEX, Heavy Metals, PAHs, OCP, OPP, PCBs, Phenols
12740/BH1/S3	Primary Soil Sample	Sample taken at a depth of 1.9m at location BH01. Refer to Appendix I	TRH, BTEX, Heavy Metals, PAHs, OCP, OPP, PCBs, Phenols
12740/BH1/S3a	Blind Replicate	Blind Replicate of 12740/BH1/S3	TRH, BTEX, PAHs, Metals
12740/BH1/S3b	Split Replicate	Split Replicate of 12740/BH1/S3	TRH, BTEX, PAHs, Metals
12740/BH2/S1	Primary Soil Sample	Sample taken at a depth of 0.1m at location BH02. Refer to Appendix I.	TRH, BTEX, Heavy Metals, PAHs, OCP, OPP, PCBs, Phenols and Asbestos
12740/BH2/S2	Primary Soil Sample	Sample taken at a depth of 0.8m at location BH02. Refer to Appendix I.	TRH, BTEX, Heavy Metals, PAHs, OCP, OPP, PCBs, Phenols
12740/BH3/S1	Primary Soil Sample	Sample taken at a depth of 0.1m at location BH03. Refer to Appendix I.	TRH, BTEX, Heavy Metals, PAHs, OCP, OPP, PCBs, Phenols and Asbestos
12740/BH3/S2	Primary Soil Sample	Sample taken at a depth of 0.5m at location BH03. Refer to Appendix I.	TRH, BTEX, Heavy Metals, PAHs, OCP, OPP, PCBs, Phenols
12740/BH3/S3	Primary Soil Sample	Sample taken at a depth of 1.5m at location BH03. Refer to Appendix I.	TRH, BTEX, Heavy Metals, PAHs, OCP, OPP, PCBs, Phenols
12740/BH4/S1	Primary Soil Sample	Sample taken at a depth of 0.1m at location BH04. Refer to Appendix I.	TRH, BTEX, Heavy Metals, PAHs, OCP, OPP, PCBs, Phenols and Asbestos
12740/BH4/S3	Primary Soil Sample	Sample taken at a depth of 2.9m at location BH04. Refer to Appendix I.	TRH, BTEX, Heavy Metals, PAHs, OCP, OPP, PCBs, Phenols
12740/BH5/S1	Primary Soil Sample	Sample taken at a depth of 0.1m at location BH05. Refer to Appendix I.	TRH, BTEX, Heavy Metals, PAHs, OCP, OPP, PCBs, Phenols and Asbestos

Sample Number	Sample Type	Location Collected	Analysis Performed
12740/BH5/S2	Primary Soil Sample	Sample taken at a depth of 0.6m at location BH05. Refer to Appendix I.	TRH, BTEX, Heavy Metals, PAHs, OCP, OPP, PCBs, Phenols
12740/BH5/S3	Primary Soil Sample	Sample taken at a depth of 2.5m at location BH05. Refer to Appendix I.	TRH, BTEX, Heavy Metals, PAHs, OCP, OPP, PCBs, Phenols
12740/BH6/S1	Primary Soil Sample	Sample taken at a depth of 0.1m at location BH06. Refer to Appendix I.	TRH, BTEX, Heavy Metals, PAHs, OCP, OPP, PCBs, Phenols and Asbestos
12740/BH6/S2	Primary Soil Sample	Sample taken at a depth of 1.0m at location BH06. Refer to Appendix I.	TRH, BTEX, Heavy Metals, PAHs, OCP, OPP, PCBs, Phenols
12740/TB1	Trip Blank	Trip Blank	BTEX
12740/RB1	Rinsate Blank	Rinsate Blank	BTEX

Table 9-3: Sample Information

Primary and replicate soil samples that were to be analysed were sampled directly from the drill rig using a stainless steel trowel and single use nitrile-gloved hands and placed directly into new 250mL clean glass jars with screw top plastic lids with inert plastic inserts. Samples of soil for analysis of asbestos content were collected and placed within zip-loc bags.

Between samples sampling equipment was decontaminated using a 5% Decon 90 solution, rinsed with Milli Q water and dried with Kimberly Clark Epic Wipes.

The glass jars and zip-loc bags were labelled using a waterproof permanent marker pen with the date, a Getex unique reference number that indicated the sampling location, and a sub sample number. The samples were then stored on ice in an insulated container until they were delivered to the laboratory within acceptable holding times.

The chain of custody process involved writing the Getex unique reference number on the sample jars at the time of sampling and on the chain of custody form. The chain of custody form remained with the samples until they were delivered to the laboratory. Once delivered to the laboratory the officer at sample receipt signed the chain of custody form taking responsibility for the samples. A copy of the chain of custody showing the time of delivery, condition of samples (cold etc) and the unique laboratory number was emailed to Getex by the laboratory. On receipt Getex checked that the laboratory details were correct.

10. ASSESSMENT CRITERIA

10.1 Regulatory Guidelines

The investigation was undertaken in general accordance with the following guidelines, as relevant:

- *Contaminated Land Guidelines: – Sampling Design Part 1 – Application*, NSW EPA, 2022;

- *Consultants Reporting on Contaminated Land: Contaminated Land Guidelines*, NSW EPA, 2020;
- *Contaminated Land Management: Guidelines for NSW Site Auditor Scheme* NSW EPA (2017);
- *Contaminated Sites: Guidelines on the Duty to Report Contamination under the Contaminated Land Management Act 1997*, NSW EPA, 2015;
- *National Environment Protection (Assessment of Site Contamination) Measure,* National Environment Protection Council, 2013; and
- *Environmental Health Risk Assessment: Guidelines for assessing human health risks from environmental hazards,* Department of Health and Ageing and EnHealth Council, Commonwealth of Australia, June 2002.

10.2 Soil Aesthetic Considerations

The National Environment Protection (Assessment of Site Contamination) Measure, 2013 states, “aesthetic issues generally relate to the presence of low-concern or non-hazardous inert foreign material in soil or fill resulting from human activity”. Caution is also recommended when assessing a site for potentially sensitive land uses (such as residential) when significant quantities of fill or demolition materials are present.

Soil or fill material tested to be within accepted human health and environmental guideline levels may still contain low-concern or non-hazardous inert foreign material. Examples of these foreign materials include bricks, tiles, metal piping, glass, concrete, bitumen and plastics.

The quantity, type and distribution of foreign materials identified within the soil profile will be considered in relation to the future land use. In assessing the sensitivity of future site users to aesthetic issues consideration will be given to the depth of the material in relation to the future site levels following any development, the practicality of management options and the ability of the foreign materials to cause concern.

10.3 Soil Analysis Criteria

Health-based soil Criteria Levels can be applied for a range of different exposure settings, which are based on the nature of the use(s) for which the land is currently used and/or its approved use(s).

Given that the proposed development is for a new community health centre and upgrade of the existing car park, the assessment criteria are based on following exposure setting within the National Environment Protection (Assessment of Site Contamination) Measure, National Environmental Protection Council, 2013:

- Health investigation level setting D (commercial/ industrial) from Table 1A(1); and
- Health screening level setting D and soil classification sand or clay (dependent on the sample) for petroleum hydrocarbon compounds from Table 1A(3).

For F3 and F4, health screening levels were used from Table B4 of HSLs for petroleum hydrocarbons in soil, part 1: technical development document, Technical report no. 10, CRC for Contamination Assessment and Remediation of the Environment, Adelaide, Australia (2011).

For asbestos, presence/absence of asbestos was used.

Ecological Screening/Investigation Levels are to be applied to soil within 2m below the proposed ground level.

Ecological Screening Levels for petroleum hydrocarbon compounds are based on commercial and industrial land uses and soil texture Coarse from Table 1B(6) from the *National Environment Protection (Assessment of Site Contamination) Measure,* National Environment Protection Council, 2013.

Ecological Investigation Levels (EILs) are based on commercial and industrial land uses from the *National Environment Protection (Assessment of Site Contamination) Measure,* National Environment Protection Council, 2013. EILs have been derived for arsenic, copper, chromium (III), DDT, naphthalene, nickel, lead and zinc.

Values presented for arsenic, naphthalene and DDT are generic EILs based on total concentrations and aged contaminants.

The EIL for lead has been calculated using the most conservative SQG value based upon the reported pH and exchangeable cation values. All other EIL's have assumed that the majority of any contamination on site is greater than 2 years old. Where EIL values required input including CEC, pH and organic content, the values from the five samples collected within the fill material were used.

A summary of the EIL input values are:

Soil Property	Input
Cation Exchange Capacity cmolc/kg	8.9
pH	7.6
Organic Carbon %	0.95
Iron %	1.4
Clay Content %	10

Table 10-1: EIL Input Value Information

Acceptance criteria levels are given within **Appendix VII** alongside the sample analysis results.

11. QUALITY ASSURANCE / QUALITY CONTROL

11.1 Standard Operating Procedures

Field works were conducted by Brodie Bishop BSc, MEnvMgt, an experienced Environmental Consultant in accordance with Getex internal procedures. This includes but is not limited to: inspections, the methods of sampling, decontamination of sampling equipment, sample preparation and storage, the documentation of site conditions, and the completion of chain of custody documentation.

All inspection and sampling information was documented and where necessary collected utilising properly maintained equipment. Prior to use all equipment was assessed for appropriateness and inspected for defects.

11.2 QA/QC Data Evaluation

Data Quality Indicators (DQI) are used to document and quantify compliance, or otherwise with the requirements of the Data Quality Objectives (DQO). They are used to assess the reliability of the field procedures and analytical results. The DQIs are Completeness, Comparability, Representativeness, Precision, and Accuracy. Evaluation of the DQIs is documented in the following table.

Please Refer to **Appendix IV** for QA/QC Results and Assessment.

DQI		Consideration	Compliance
Completeness	Field	All critical locations sampled	Sampling was conducted across the Area of Concern and within areas of potentially higher likelihood of contamination.
		All samples collected (from location and at depth)	Samples were collected from multiple depths within fill and natural material.
		Sampling procedures appropriate and complied with	All samples were collected in accordance with relevant guidelines, industry practices, and Australian Standards
		Experienced sampler	Samples were recovered by one (1) suitably qualified and experienced sampler
		Documentation correct	All required documentation was completed including borehole logs and photographic logs
		Duplicates at least 5% of primary samples	>5% duplicates

DQI		Consideration	Compliance
	Laboratory	Critical samples analysed	100% of samples requested for analysis were analysed
		Analysis addresses contaminants of concern	100% of samples analysed for requested contaminants
		Documentation supplied	SRA and COC supplied from laboratories
Comparability	Field	Same sampling procedures used on each occasion	Each sample was recovered in accordance with the sampling procedures
		Experienced sampler	Samples were recovered by one (1) suitably qualified and experienced sampler
		Climatic conditions	No potential for variation based on climatic conditions exists.
		Same types of samples collected	The type of samples collected was consistent
	Laboratory	NATA registered laboratories	Both SGS Australia, Eurofins | Environmental and ASET Pty Ltd are NATA registered
		Consistent analysis methods for samples	Analysis methods were equivalent across all samples
Representativeness	Field	Appropriate media sampled according to NEPM	All samples were recovered in accordance with NEPM
		All media identified	The soil profile to a depth of 3m was identified and recorded within borehole logs
		Satisfactory results for: trip blank, rinsate samples	All results within acceptable levels and therefore satisfactory
	Laboratory	Critical samples analysed	100% of samples requested for analysis were analysed
		Analysis addresses contaminants of concern	100% of samples analysed for requested contaminant

DQI		Consideration	Compliance
		Within holding times	All samples analysed within acceptable holding times
Precision	Field	Sampling procedures appropriate and complied with	All samples were recovered in accordance with the sampling procedures
		Acceptable RPD's for all replicates	All QA/QC data is either within the RPD, the result was less than three times the laboratories limit of reporting or less than 10% of the acceptance criteria. Therefore, acceptable
	Laboratory	Acceptable RPD's for all laboratory duplicates	Laboratory RPD's acceptable
Accuracy	Field	Sampling procedures appropriate and complied with	All samples were recovered in accordance with the sampling procedures
	Laboratory	Satisfactory results for: blank samples, matrix spikes, control samples, and surrogate spike samples.	All results within acceptable levels and therefore satisfactory
Sensitivity	Laboratory	Analytical methods appropriate for media	All laboratory methods used are NATA accredited for the sample media type
		Limits of recovery within 70-130%	All results within 70-130%

Table 11-1: Data Quality Indicators

Based on the results from Table 11-1, it is the opinion of the consultant that the Data Quality Indicators have been met.

12. DISCUSSION

12.1 Soil Aesthetic Discussion

Low occurrences (<5%) of foreign materials were identified within the fill material across the Site. These included gravel and rocks. The amount of foreign material is not considered to be a trigger with regards to aesthetic soil considerations.

12.2 Soil Analytical Discussion

The summaries of laboratory results are discussed in the following sections.

12.2.1 TRH

A total of 15 soil samples were analysed for TRH fractions.

All results for F1 (C6-C10 minus BTEX), F2 (C10-C16 minus Napthalene), F3 (C16-C34) and F4 (C34-C40) were below the adopted Site assessment criteria.

12.2.2 BTEX

A total of 15 soil samples were analysed for BTEX. All results were below the adopted Site assessment criteria.

12.2.3 Metals

A total of 15 soil samples were analysed for Metals. All results were below the adopted Site assessment criteria.

12.2.4 PAHs

A total of 15 soil samples were analysed for PAHs. All results were below the adopted Site assessment criteria.

12.2.5 Carcinogenic PAHs

A total of 15 soil samples were analysed for Carcinogenic PAHs (as Benzo(a)pyrene TEQ). All results were below the adopted Site assessment criteria.

12.2.6 OCP

A total of 15 soil samples were analysed for OCP. All concentrations were below the adopted Site assessment criteria.

12.2.7 OPP

A total of 15 soil samples were analysed for OPP. All concentrations were below the adopted Site assessment criteria.

12.2.8 PCBs

A total of 15 soil samples were analysed for PCBs. All concentrations were below the adopted Site assessment criteria.

12.2.9 Phenols

A total of 15 soil samples were analysed for Phenols All concentrations were below the adopted Site assessment criteria.

12.2.10 Asbestos in Soil

A total of 6 soil samples were analysed for Asbestos. No asbestos was detected within the samples.

12.3 Response to Identified Decisions

The results are discussed in the following sections in relation to the identified decisions developed as part of the DQO process (**Section 11.1.2**):

- Is there any contamination within the soil that will pose a risk to future onsite receptors?
- Does the fill material identified from the desktop site history and walkover assessment contain any aesthetic (stains/odours/inert waste) issues?
- Was the amount of sampling sufficient to determine the Site's suitability for the proposed development?

12.3.1 Risks to Future Onsite and Offsite Receptors from Soil Contamination

The collected samples of the soil were analysed for a broad range of identified potential contaminants including TRH, BTEX, Metals, PAHs, OCPs, OPPs, PCBs, Phenols and Asbestos. Concentrations of TRH, BTEX, Metals, PAHs, OCPs, OPPs, PCBs, Phenols and Asbestos were within the adopted criteria and PID analysis of soil headspace was within acceptable levels and thus do not present an unacceptable risk to human or environmental health.

As such, contaminant within soils do not represent an unacceptable risk to human health/environment with respect to the future Site use.

12.3.2 Aesthetic Issues from Fill Material

The amount of foreign material is not considered to be a trigger with regards to aesthetic soil considerations.

12.3.3 Sampling Sufficient?

As there were no locations/ areas that still require testing the sampling density is considered to be sufficient.

12.4 Update of Conceptual Site Model

Based on the findings from the assessment, the updated CSM is provided in Table 12-1.

Source	Receptors	Contaminants	Exposure Pathway	Potential for Completeness
Contaminated soils from: - Building materials - Potentially contaminated fill - Environmental fallout - Past and current activities on the Site including farming and a Hospital - LPG tank	Current site users; Future site users; Neighbouring properties; Construction Workers.	TRH, BTEX, Metals, PAHs, OCP, OPPs, PCBs, Phenols, Asbestos	Skin contact with potentially contaminated soil; Vapour inhalation of potentially contaminated soil; Inhalation of asbestos fibres; Ingestion of potentially contaminated soil.	**Pathway incomplete** – No CoPC detected above criteria levels within the Site.
	Ecological receptors.	TRH, BTEX, Metals, PAHs, OCP, PCBs, Asbestos	Plant uptake; Ingestion of potentially contaminated soil.	**Pathway incomplete** – No CoPC detected above criteria levels within the Site.

Table 12-1: Updated Conceptual Site Model

13. DATA GAPS

An assessment of the data gaps is provided in the following table:

Data Gap	Assessment
SafeWork records not reviewed	Given the timeframe for this investigation, SafeWork records had not been received. However, it is considered unlikely that any records would exist that would alter the outcome of this investigation. Addition work to address this data gap is not recommended.
Council records review limited	Given the timeframe for this investigation, Council records had not been received. However, it is considered unlikely that any records would exist that would alter the outcome of this investigation. Addition work to address this data gap is not recommended.

Table 13-1: Data Gaps

14. CONCLUSIONS AND RECOMMENDATIONS

Based on the findings from the site historical review and walkover inspection there was the potential for contamination from previous and current site activities (farming and hospital), imported fill and an above ground LPG tank.

Soil samples were collected from the Site and analysed for TRH, BTEX, Metals, PAHs, OCPs, OPPs, PCBs, Phenols and Asbestos.

The soil concentrations TRH, BTEX, Metals, PAHs, OCPs, OPPs, PCBs, Phenols and Asbestos were within the adopted criteria and PID analysis of soil headspace was within acceptable levels and thus do not present an unacceptable risk to human or environmental health.

As such, contaminants within soils do not represent an unacceptable risk to human health/environment with respect to the site's use.

In accordance with State Environmental Planning Policy (Resilience and Hazards) 2021 Section 4.6, it is the opinion of the consultant that consent to carry out the development can be granted as the land is suitable for a new community health building and upgrade of the car park.

APPENDIX I

SITE MAP

Figure 2: Site Map
7 Pacific Street, BATEMANS BAY NSW 2536

*Aerial image derived from Google Earth and is indicative of on-ground locations only

APPENDIX II

PLANNING CERTIFICATE

Eurobodalla Shire Council
10.7 Planning Certificate

SECTION 10.7 ENVIRONMENTAL PLANNING AND ASSESSMENT ACT 2021

Certificate No:	PL1977/24
Receipt No:	D001051784
Date of Issue:	22 April 2024
Reference:	12740
Land ID:	34784

Applicant: Getex Pty Ltd
brodie.bishop@getex.com.au

Property Description: 7 Pacific Street BATEMANS BAY NSW 2536
Lot 22 DP 1152713

Section A: Advice provided in accordance with Section 10.7(2).

1. Names of relevant planning instruments and development control plans:

The following LEPs, Zones and Draft Plans apply to the land subject of this Certificate:

Eurobodalla Local Environmental Plan 2012

SEPP's that apply on a Shire wide basis:
State Environmental Planning Policy (Housing) 2021
State Environmental Planning Policy (Primary Production) 2021
State Environmental Planning Policy (Resources and Energy) 2021
State Environmental Planning Policy (Resilience and Hazards) 2021
State Environmental Planning Policy (Industry and Employment) 2021
State Environmental Planning Policy (Transport and Infrastructure) 2021
State Environmental Planning Policy (Biodiversity and Conservation) 2021
State Environmental Planning Policy (Planning Systems) 2021
State Environmental Planning Policy No.1 - Development Standards
State Environmental Planning Policy No.32 - Urban Consolidation (Redevelopment of Urban Land)
State Environmental Planning Policy No.65 - Design Quality of Residential Flat Development
State Environmental Planning Policy (Building Sustainability Index: BASIX) 2004
State Environmental Planning Policy (Major Development) 2005
State Environmental Planning Policy (Rural Lands) 2008
Draft State Environmental Planning Policy (Design and Place) 2021

SEPPs that apply specifically to this land:

State Environment Planning Policy (Resilience and Hazards) 2021 Chapter 2 Coastal Management (Part Lot)

State Environmental Planning Policy (Biodiversity and Conservation) 2021 Chapter 2 (Vegetation in Non-Rural Areas) applies to all or part of the land.

State Environmental Planning Policy (Exempt and Complying Development Codes) 2008
- Housing Code
- Rural Housing Code
- Low Rise Housing Diversity Code
- Greenfield Housing Code
- Inland Code
- Housing Alterations Code
- General Development code
- Commercial and Industrial Alterations code
- Commercial and Industrial (New Buildings and Additions Code)
- Container Recycling Facilities Code
- Subdivisions Code
- Demolition Code
- Fire Safety Code

The above Codes may apply subject to the development meeting the specific standards and land requirements identified in the Codes. Further information about how these Codes apply to the subject land can be found in Section 5 of this Certificate.

The following DCPs apply to the land subject of this Certificate:

Batemans Bay Regional Centre DCP

2. Zoning and land use under relevant planning instruments

(a) Zone

(b) Purpose for which development in the zone -

(i) may be carried out without development consent, and

(ii) may not be carried out except with development consent, and

(iii) is prohibited,

Eurobodalla Local Environmental Plan 2012 - **R3 Medium Density Residential**

Current version for 18 August 2023

1 Objectives of zone

- To provide for the housing needs of the community within a medium density residential environment.
- To provide a variety of housing types within a medium density residential environment.
- To enable other land uses that provide facilities or services to meet the day to day needs of residents.
- To encourage tourist and visitor accommodation in areas of demand subject to controls to ensure the adequate protection of a permanent residential housing supply and amenity.
- To encourage walking, cycling and the use of public transport.

2 Permitted without consent

Environmental protection works; Home occupations

3 Permitted with consent

Attached dwellings; Boarding houses; Building identification signs; Business identification signs; Centre-based child care facilities; Community facilities; Dual occupancies; Dwelling houses; Emergency services facilities; Exhibition homes; Exhibition villages; Group homes; Home-based child care; Home businesses; Home industries; Hostels; Multi dwelling housing; Neighbourhood shops; Oyster aquaculture; Places of public worship; Recreation areas; Residential flat buildings; Respite day care centres; Roads; Secondary dwellings; Semi-detached dwellings; Seniors housing; Sewerage systems; Shop top housing; Tank-based aquaculture; Tourist and visitor accommodation; Water supply systems

4 Prohibited

Any other development not specified in item 2 or 3

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

No additional permitted uses identified.

(d) Minimum Land Dimensions

There is no development standard applying to the land to fix minimum land dimensions for the erection of a dwelling house.

(e) Outstanding Biodiversity value

Council has received no advice that the land includes or comprises critical habitat.

(f) Conservation Area

The land is not within a Conservation Area.

(g) Heritage Listing

An item of environmental heritage is not situated on the land

3. Contribution Plans

The following Contribution plans apply to the land:

(For further information please make separate enquires with Council)

1) Development Servicing Plans 2020 – Water Supply and Sewerage
2) Eurobodalla Section 7.12 Contributions Plan 2022
3) Planning Agreements Policy 2006
4) Local Infrastructure Contributions Plan 2022

4. and 5. Complying Development and Exempt Development

The land (or part) is identified as being or affected by a coastal hazard. Complying Development under State Environmental Planning Policy (Exempt & Complying Development Codes) 2008 (General Housing Code, Rural Housing Code and Commercial and Industrial New Buildings and Additions Code) may not be carried out on the land (or part of the land) because of the provisions of clause 1.19 of that Policy, as the land (or part of the land) is mapped within a coastal vulnerability area. The land is at risk from coastal hazards and the Eurobodalla Coastal Hazards Code applies to development on this land.

Complying development under the above mentioned Codes may be carried out on any part of the land not so affected.

Complying development may be carried out on the land under Codes not mentioned above.

6. Affected building notices and building product rectification orders

Council is not aware of any affected building notices or building product rectification orders known in respect of this land.

7. Land Reserved for Acquisition

There is no provision within the Eurobodalla Local Environmental Plans for the acquisition of the land by a public authority.

8. Road Widening and Road Realignment

The land is not affected by a road widening or realignment under Division 2 of Part 3 of the Roads Act 1993, or any Environmental Planning Instrument or by any Resolution of the Council.

9. Flood Related Development Controls Information

This land has been identified as having potential future exposure to flooding associated with sea level rise. This advice is based on the Batemans Bay Urban Creek Flood Study (July 2021) and reflects the best information available at the time. Flood related development controls apply.

10. Council and Other Public Authority Policies on Hazard Risk Restrictions

This land is mapped as within a Coastal Vulnerability Area because it is at risk from coastal hazards. The Eurobodalla Coastal Hazards Code applies to development on this land.

Council has received no advice that the land is subject to any matter under the Contaminated Land Management Act 1997.

11. Bushfire Prone Land

The land is not bushfire prone land.

12. Loose-Fill Asbestos Insulation

Council has received no advice that the land is identified on the Loose-Fill Asbestos Insulation Register.

13. Mine Subsidence

The land has not been proclaimed a mine subsidence district within the meaning of the Coal Mine Subsidence Compensation Act 2017.

14. Paper subdivision information

Council has received no advice that a Paper Subdivision Development Plan or Subdivision Order applies to this land.

15. Property Vegetation Plans

Council has received no advice that a Property Vegetation Plan under the Native Vegetation Act 2003 applies to the land.

16. Biodiversity Stewardship Sites

Council has received no advice that the land is a biodiversity stewardship site under a biodiversity stewardship agreement under Part 5 of the Biodiversity Conservation Act 2016. Biodiversity stewardship agreements include biobanking agreements under Part 7A of the Threatened Species Conservation Act 1995.

17. Biodiversity Certified Land

Council has received no advice that the land is Biodiversity Certified land under Part 8 of the Biodiversity Conservation Act 2016. Biodiversity certified land includes land certified under Part 7AA of the Threatened Species Conservation Act 1995.

18. Orders under Trees (Disputes Between Neighbours) Act 2006

Council has received no advice that the land is subject to an order.

19. Annual Charges under Local Government Act 1993 for coastal protection services that relate to existing coastal protection works

No annual charges for coastal protection services that relate to the land apply.

20. Western Sydney Aerotropolis

Not applicable to the land subject of this Certificate.

21. Development consent conditions for seniors housing

Council has received no advice that a Development Consent has been issued under the State Environmental Planning Policy (Housing) 2021. Applicants should make their own enquiries as to the conditions of any existing Development Consents applying to this land.

22. Site compatibility certificates and conditions for affordable rental housing

Council has received no advice that a site compatibility certificate OR conditions for affordable rental housing have been imposed to a Development Application in respect of the land under clause 17(1) or 38(1) of State Environment Planning Policy (Affordable Rental Housing) 2009

Section B: Additional information provided under Section 10.7(5) of the Act.

This land upon development or subdivision, which requires the consent of Council, may become liable for contributions under the Development Servicing Plans for Water and/or Sewerage.
This land upon development or subdivision which requires consent, may become liable for contributions under the Eurobodalla Section 7.12 Contributions Plan 2022 and the Local Infrastructure Contributions Plan 2022 (Open space and recreation, community and cultural, arterial roads, paths and cycleways, stormwater, marine, car parking, rural roads and the administration of funds collected under the plan).

Council has received no advice that a Conservation Agreement under Division 3 of Part 5 of the Biodiversity Conservation Act 2016 applies to the land. This includes agreements entered into under section 68B of the National Parks and Wildlife Act 1974.

This land is identified on the vegetation and biodiversity corridors map in the Local Strategic Planning Statement. Development must take into consideration potential impacts to vegetation and/or biodiversity corridors which may require a biodiversity impact assessment, in accordance with Part 7 of the Biodiversity Conservation Act 2016.

Council has received no advice that the land contains a set aside area under section 60ZC of the Local Land Services Act 2013.

Loose-Fill Asbestos - Advisory Note

Some residential homes located in the Eurobodalla Shire Council have been identified as containing loose-fill asbestos insulation, for example in the roof space. NSW Fair Trading maintains a Register of homes that are affected by loose-fill asbestos insulation.

You should make your own enquiries as to the age of the buildings on the land to which this certificate relates and, if it

contains a building constructed prior to 1980, the council strongly recommends that any potential purchaser obtain advice from a licensed asbestos assessor to determine whether loose-fill asbestos is present in any building on the land and, if so, the health risks (if any) this may pose for the building's occupants.

Contact NSW Fair Trading for further information 137 788.

Description of any development consent concerning the land granted since 2000. Please note: not all historic records are available electronically and may not be displayed below. Conditions may apply to the consent or it may have lapsed. Purchasers should enquire further if they need to establish the status of approvals for this land.

16/0626/01	MAINTENANCE UPGRADE OF MECHANICAL SERVICES AND LIGHTING	Approved	22/03/2016

Please Note:
This Council has made no inspection of the property for the purpose of this certificate.
Purchasers should satisfy themselves that there are no breaches of the Environmental Planning and Assessment Act 2021 in respect to the use or development of the property.

ADDITIONAL POLICIES AND OR CODES THAT MAY APPLY TO THE LAND
Eurobodalla Advertisement and Notification Code
Eurobodalla Footpath Trading Code
Eurobodalla Landscaping Code
Eurobodalla Parking and Access Code
Eurobodalla Safer by Design Code
Eurobodalla Signage Code
Eurobodalla Site Waste Minimisation and Management Code
Eurobodalla Soil and Water Management Code
Eurobodalla Tree Preservation Code
Design guidelines for rainwater tanks where an existing reticulated water supply exists
Moruya Floodplain Code
Interim Coastal Hazard Adaptation Code

Further information on these policies & strategies visit Council's website www.esc.nsw.gov.au or phone 4474 1000.

The National Parks and Wildlife Act 1974 provides protection to Aboriginal heritage objects and places on all land within New South Wales. Certain land within the Eurobodalla Shire may contain Aboriginal heritage that may have significance to the Aboriginal community. It may be advisable for potential purchasers of land to undertake appropriate searches to determine whether Aboriginal heritage objects or places have been previously recorded on that land.

Heritage NSW maintains a database of all previously recorded Aboriginal heritage objects and places called the Aboriginal Heritage Information Management System (AHIMS). You can check whether there are any previously recorded Aboriginal heritage object and places by contacting the AHIMS Registrar at Heritage NSW on (02) 98738500 or by email heritagemailbox@environment.nsw.gov.au.

If you require further information on this certificate please contact Council's
Duty Development Team on 4474 1231

APPENDIX III

LOTSEARCH ENVIRO REPORT

LOTSEARCH

LOTSEARCH ENVIRO PROFESSIONAL

Date: 23 Apr 2024 08:39:44

Reference: LS055379 EP

Address: 7 Pacific Street, Batemans Bay, NSW 2536

Dataset Listing

Datasets contained within this report, detailing their source and data currency:

Dataset Name	Custodian	Supply Date	Currency Date	Update Frequency	Dataset Buffer (m)	No. Features On-site	No. Features within 100m	No. Features within Buffer
Cadastre Boundaries	NSW Department of Customer Service - Spatial Services	04/01/2024	04/01/2024	Quarterly	-	-	-	-
Topographic Data	NSW Department of Customer Service - Spatial Services	22/08/2022	22/08/2022	Annually	-	-	-	-
List of NSW contaminated sites notified to EPA	Environment Protection Authority	09/04/2024	14/03/2024	Monthly	1000m	0	0	1
Contaminated Land Records of Notice	Environment Protection Authority	09/04/2024	09/04/2024	Monthly	1000m	0	0	0
Former Gasworks	Environment Protection Authority	24/01/2024	14/07/2021	Quarterly	1000m	0	0	0
Notices under the POEO Act 1997	Environment Protection Authority	09/04/2024	09/04/2024	Monthly	1000m	0	0	0
National Waste Management Facilities Database	Geoscience Australia	26/05/2022	07/03/2017	Annually	1000m	0	0	0
National Liquid Fuel Facilities	Geoscience Australia	20/09/2023	07/09/2020	Annually	1000m	0	0	3
EPA PFAS Investigation Program	Environment Protection Authority	10/04/2024	21/11/2032	Monthly	2000m	0	0	0
Defence PFAS Investigation & Management Program - Investigation Sites	Department of Defence	15/04/2024	29/02/2024	Monthly	2000m	0	0	0
Defence PFAS Investigation & Management Program - Management Sites	Department of Defence	15/04/2024	29/02/2024	Monthly	2000m	0	0	0
Airservices Australia National PFAS Management Program	Airservices Australia	15/04/2024	15/04/2024	Monthly	2000m	0	0	0
Defence Controlled Areas	Department of Defence	15/04/2024	15/04/2024	Quarterly	2000m	0	0	0
Defence 3 Year Regional Contamination Investigation Program	Department of Defence	24/01/2024	02/09/2022	Quarterly	2000m	0	0	0
National Unexploded Ordnance (UXO)	Department of Defence	15/04/2024	15/04/2024	Quarterly	2000m	0	0	0
EPA Other Sites with Contamination Issues	Environment Protection Authority	13/11/2023	15/12/2022	Annually	1000m	0	0	0
Licensed Activities under the POEO Act 1997	Environment Protection Authority	10/04/2024	10/04/2024	Monthly	1000m	0	0	2
Delicensed POEO Activities still regulated by the EPA	Environment Protection Authority	10/04/2024	10/04/2024	Monthly	1000m	1	1	3
Former POEO Licensed Activities now revoked or surrendered	Environment Protection Authority	10/04/2024	10/04/2024	Monthly	1000m	0	0	6
UBD Business Directories (Premise & Intersection Matches)	Hardie Grant			Not required	150m	2	2	6
UBD Business Directories (Road & Area Matches)	Hardie Grant			Not required	150m	-	9	9
UBD Business Directory Dry Cleaners & Motor Garages/Service Stations (Premise & Intersection Matches)	Hardie Grant			Not required	500m	0	0	0
UBD Business Directory Dry Cleaners & Motor Garages/Service Stations (Road & Area Matches)	Hardie Grant			Not required	500m	-	0	35
Points of Interest	NSW Department of Customer Service - Spatial Services	16/04/2024	16/04/2024	Quarterly	1000m	2	6	79
Tanks (Areas)	NSW Department of Customer Service - Spatial Services	16/04/2024	16/04/2024	Quarterly	1000m	0	0	0
Tanks (Points)	NSW Department of Customer Service - Spatial Services	16/04/2024	16/04/2024	Quarterly	1000m	0	0	0
Major Easements	NSW Department of Customer Service - Spatial Services	31/01/2024	31/01/2024	Quarterly	1000m	0	2	4
State Forest	Forestry Corporation of NSW	12/12/2023	11/12/2023	Annually	1000m	0	0	0
Hydrogeology Map of Australia	Commonwealth of Australia (Geoscience Australia)	17/04/2024	19/08/2019	Annually	1000m	1	1	1

Dataset Name	Custodian	Supply Date	Currency Date	Update Frequency	Dataset Buffer (m)	No. Features On-site	No. Features within 100m	No. Features within Buffer
Temporary Water Restriction (Botany Sands Groundwater Source) Order 2018	NSW Department of Planning, Industry and Environment	09/05/2023	23/02/2018	Annually	1000m	0	0	0
National Groundwater Information System (NGIS) Boreholes	Bureau of Meteorology; Water NSW	18/04/2023	13/07/2022	Annually	2000m	0	1	40
NSW Seamless Geology Single Layer: Rock Units	Department of Regional NSW	06/12/2023	31/05/2023	Annually	1000m	2	2	13
NSW Seamless Geology – Single Layer: Trendlines	Department of Regional NSW	06/12/2023	31/05/2023	Annually	1000m	0	0	0
NSW Seamless Geology – Single Layer: Geological Boundaries and Faults	Department of Regional NSW	06/12/2023	31/05/2023	Annually	1000m	0	0	1
Naturally Occurring Asbestos Potential	NSW Dept. of Industry, Resources & Energy	04/12/2015	24/09/2015	Annually	1000m	0	0	0
Atlas of Australian Soils	Australian Bureau of Agriculture and Resource Economics and Sciences (ABARES)	12/01/2024	17/02/2011	Annually	1000m	1	1	1
Environmental Planning Instrument Acid Sulfate Soils	NSW Department of Planning, Industry and Environment	02/04/2024	01/09/2023	Monthly	500m	0	-	-
Atlas of Australian Acid Sulfate Soils	CSIRO	12/01/2024	21/02/2013	Annually	1000m	1	1	3
Dryland Salinity - National Assessment	National Land and Water Resources Audit	18/07/2014	12/05/2013	Annually	1000m	0	0	0
Mining Subsidence Districts	NSW Department of Customer Service - Subsidence Advisory NSW	24/01/2024	24/01/2024	Quarterly	1000m	0	0	0
Current Mining Titles	NSW Department of Industry	15/04/2024	15/04/2024	Monthly	1000m	0	0	0
Mining Title Applications	NSW Department of Industry	15/04/2024	15/04/2024	Monthly	1000m	0	0	0
Historic Mining Titles	NSW Department of Industry	15/04/2024	15/04/2024	Monthly	1000m	4	4	5
Environmental Planning Instrument SEPP State Significant Precincts	NSW Department of Planning, Industry and Environment	02/04/2024	08/09/2023	Monthly	1000m	0	0	0
Environmental Planning Instrument Land Zoning	NSW Department of Planning, Industry and Environment	02/04/2024	23/02/2024	Monthly	1000m	1	1	34
Commonwealth Heritage List	Australian Government Department of the Agriculture, Water and the Environment	20/10/2023	13/04/2022	Annually	1000m	0	0	0
National Heritage List	Australian Government Department of the Agriculture, Water and the Environment	20/10/2023	13/04/2022	Annually	1000m	0	0	0
State Heritage Register - Curtilages	NSW Department of Planning, Industry and Environment	24/01/2024	24/11/2023	Quarterly	1000m	0	0	0
Environmental Planning Instrument Local Heritage	NSW Department of Planning, Industry and Environment	02/04/2024	01/03/2024	Monthly	1000m	0	0	11
Bush Fire Prone Land	NSW Rural Fire Service	09/04/2024	12/03/2024	Monthly	1000m	0	0	3
NSW Native Vegetation Type Map	NSW Department of Planning and Environment	26/05/2023	12/12/2022	Quarterly	1000m	2	2	18
Ramsar Wetlands of Australia	Australian Government Department of Agriculture, Water and the Environment	09/05/2023	01/11/2022	Annually	1000m	0	0	0
Collaborative Australian Protected Areas Database (CAPAD) 2022 - Terrestrial	Australian Department of Climate Change, Energy, The Environment and Water	04/03/2024	30/06/2022	Annually	1000m	0	0	0
Collaborative Australian Protected Areas Database (CAPAD) 2022 - Marine	Australian Department of Climate Change, Energy, The Environment and Water	04/03/2024	30/06/2022	Annually	1000m	0	0	2
Groundwater Dependent Ecosystems	Bureau of Meteorology	28/10/2022	26/10/2022	Annually	1000m	2	2	11
Inflow Dependent Ecosystems Likelihood	Bureau of Meteorology	28/10/2022	26/10/2022	Annually	1000m	1	2	13
NSW BioNet Species Sightings	NSW Office of Environment & Heritage	29/11/2023	29/11/2023	Weekly	10000m	-	-	-

Site Diagram

7 Pacific Street, Batemans Bay, NSW 2536

Legend

- Site Boundary
- Internal Parcel Boundaries

Total Area: 17607m²

Total Perimeter: 734m

Disclaimers:

Measurements are approximate only and may have been simplified or smaller lengths removed for readability.

Parcels that make up a small percentage of the total site area have not been labelled for increased legibility.

Scale: 0 25 50 Meters

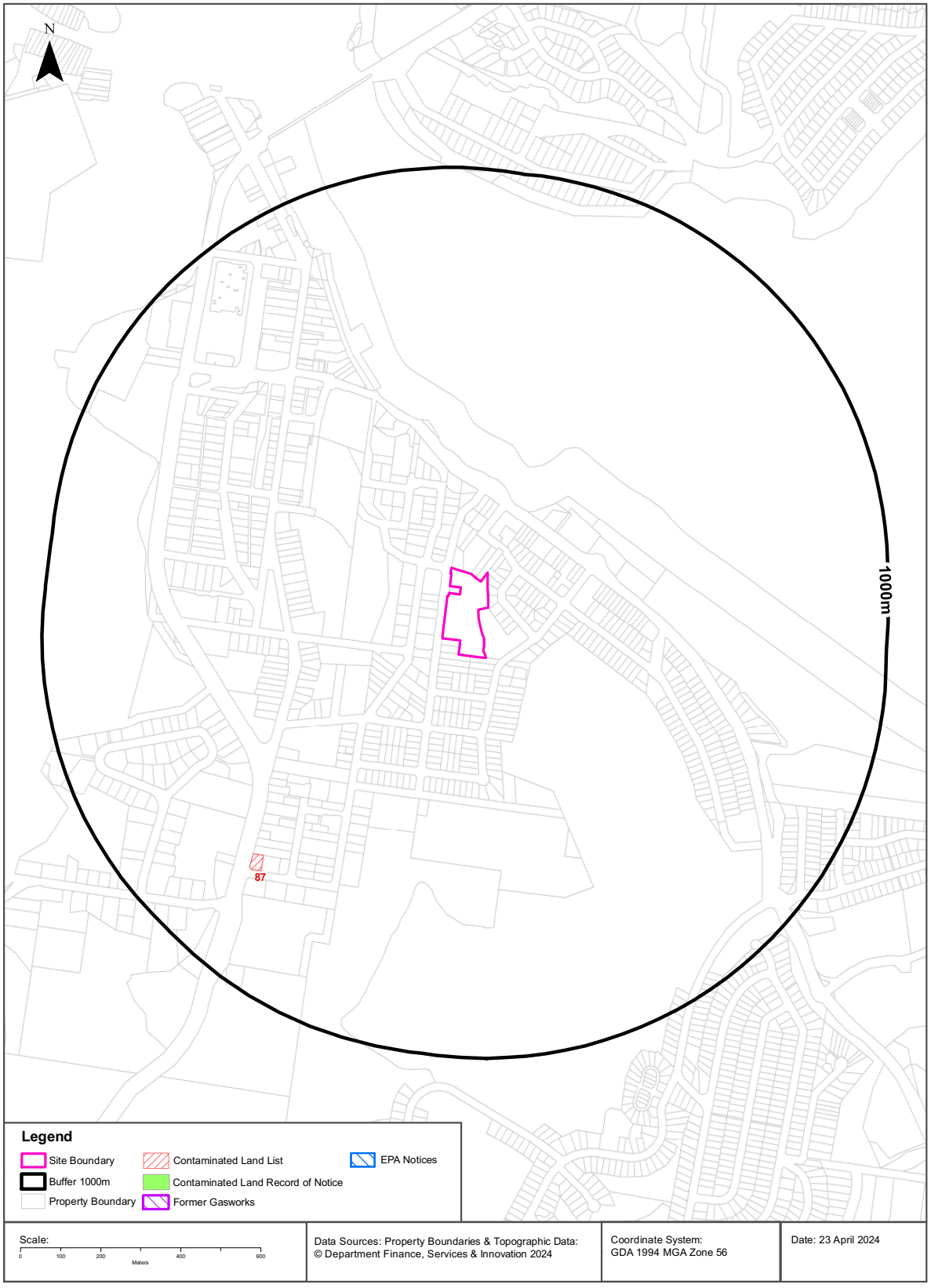
Data Source Aerial Imagery: © Aerometrex Pty Ltd

Coordinate System: GDA 1994 MGA Zone 56

Date: 19 April 2024

Contaminated Land

7 Pacific Street, Batemans Bay, NSW 2536



Contaminated Land

7 Pacific Street, Batemans Bay, NSW 2536

List of NSW contaminated sites notified to EPA

Records from the NSW EPA Contaminated Land list within the dataset buffer:

Map Id	Site	Address	Suburb	Activity	Management Class	Status	Location Confidence	Dist	Direction
87	Caltex Service Station	87-89 Princes Highway	Batemans Bay	Service Station	Regulation under CLM Act not required	Current EPA List	Premise Match	699m	South West

The values within the EPA site management class in the table above, are given more detailed explanations in the table below:

EPA site management class	Explanation
Contamination being managed via the planning process (EP&A Act)	The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation. The contamination of this site is managed by the consent authority under the Environmental Planning and Assessment Act 1979 (EP&A Act) planning approval process, with EPA involvement as necessary to ensure significant contamination is adequately addressed. The consent authority is typically a local council or the Department of Planning and Environment.
Contamination currently regulated under CLM Act	The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation under the Contaminated Land Management Act 1997 (CLM Act). Management of the contamination is regulated by the EPA under the CLM Act. Regulatory notices are available on the EPA's Contaminated Land Public Record of Notices.
Contamination currently regulated under POEO Act	The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation. Management of the contamination is regulated under the Protection of the Environment Operations Act 1997 (POEO Act). The EPA's regulatory actions under the POEO Act are available on the POEO public register.
Contamination formerly regulated under the CLM Act	The EPA has determined that the contamination is no longer significant enough to warrant regulation under the Contaminated Land Management Act 1997 (CLM Act). The contamination was addressed under the CLM Act.
Contamination formerly regulated under the POEO Act	The EPA has determined that the contamination is no longer significant enough to warrant regulation. The contamination was addressed under the Protection of the Environment Operations Act 1997 (POEO Act).
Contamination was addressed via the planning process (EP&A Act)	The EPA has determined that the contamination is no longer significant enough to warrant regulation. The contamination was addressed by the appropriate consent authority via the planning process under the Environmental Planning and Assessment Act 1979 (EP&A Act).
Ongoing maintenance required to manage residual contamination (CLM Act)	The EPA has determined that ongoing maintenance, under the Contaminated Land Management Act 1997 (CLM Act), is required to manage the residual contamination. Regulatory notices under the CLM Act are available on the EPA's Contaminated Land Public Record of Notices.
Regulation being finalised	The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation under the Contaminated Land Management Act 1997. A regulatory approach is being finalised.
Regulation under the CLM Act not required	The EPA has completed an assessment of the contamination and decided that regulation under the Contaminated Land Management Act 1997 is not required.
Under assessment	The contamination is being assessed by the EPA to determine whether regulation is required. The EPA may require further information to complete the assessment. For example, the completion of management actions regulated under the planning process or Protection of the Environment Operations Act 1997. Alternatively, the EPA may require information via a notice issued under s77 of the Contaminated Land Management Act 1997 or issue a Preliminary Investigation Order.

NSW EPA Contaminated Land List Data Source: Environment Protection Authority

Contaminated Land

7 Pacific Street, Batemans Bay, NSW 2536

Contaminated Land: Records of Notice

Record of Notices within the dataset buffer:

Map Id	Name	Address	Suburb	Notices	Area No	Location Confidence	Distance	Direction
N/A	No records in buffer							

Contaminated Land Records of Notice Data Source: Environment Protection Authority

Terms of use and disclaimer for Contaminated Land: Record of Notices, please visit http://www.epa.nsw.gov.au/clm/clmdisclaimer.htm

Former Gasworks

Former Gasworks within the dataset buffer:

Map Id	Location	Council	Further Info	Location Confidence	Distance	Direction
N/A	No records in buffer					

Former Gasworks Data Source: Environment Protection Authority

Contaminated Land

7 Pacific Street, Batemans Bay, NSW 2536

EPA Notices

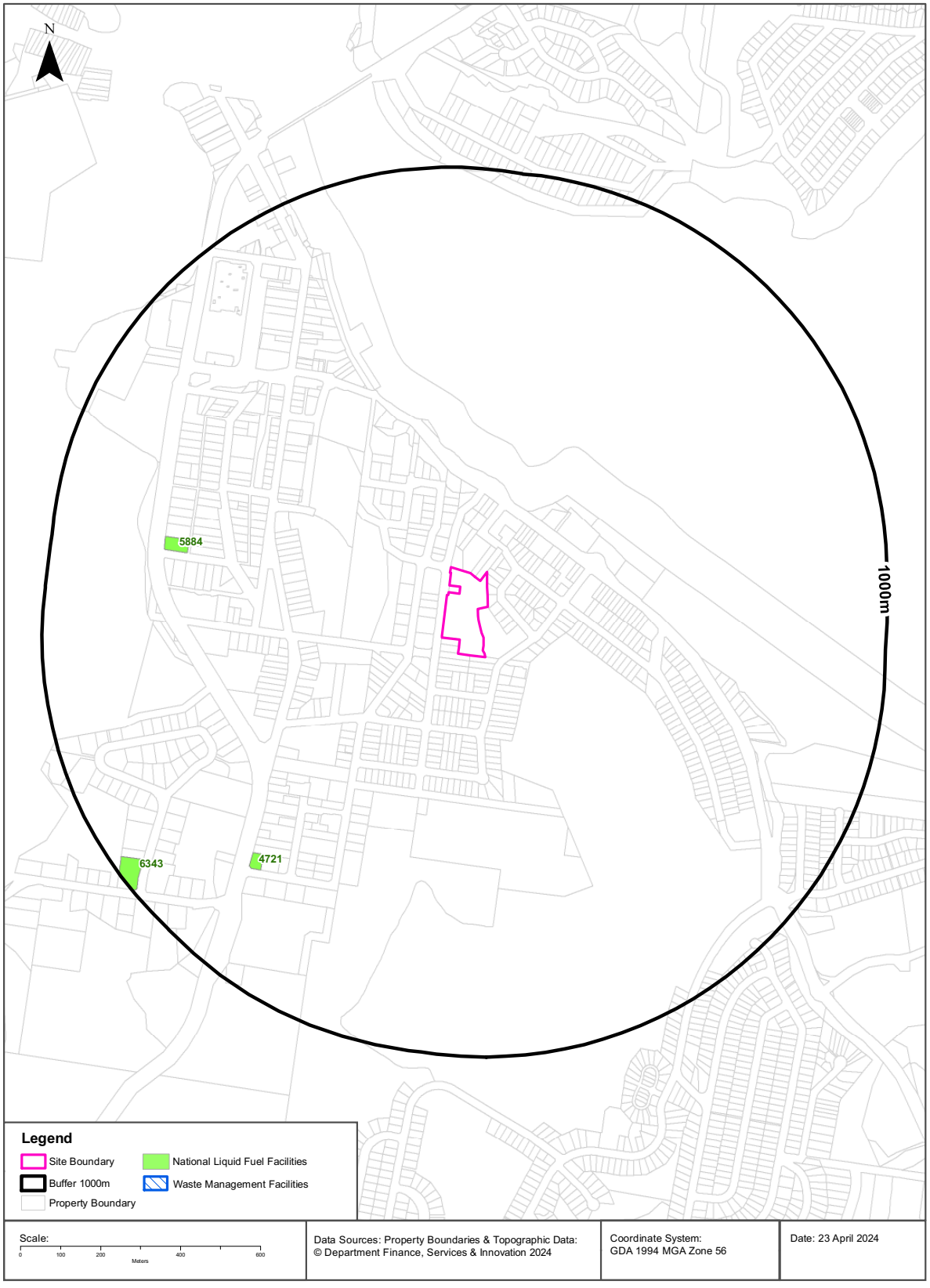
Penalty Notices, s.91 & s.92 Clean up Notices and s.96 Prevention Notices within the dataset buffer:

Number	Type	Name	Address	Status	Issued Date	Act	Offence	Offence Date	Loc Conf	Dist	Dir
N/A	No records in buffer										

NSW EPA Notice Data Source: Environment Protection Authority

Waste Management & Liquid Fuel Facilities

7 Pacific Street, Batemans Bay, NSW 2536



Waste Management & Liquid Fuel Facilities

7 Pacific Street, Batemans Bay, NSW 2536

National Waste Management Site Database

Sites on the National Waste Management Site Database within the dataset buffer:

Site Id	Owner	Name	Address	Suburb	Class	Landfill	Reprocess	Transfer	Comments	Loc Conf	Dist	Direction
N/A	No records in buffer											

National Liquid Fuel Facilities

National Liquid Fuel Facilties within the dataset buffer:

Map Id	Owner	Name	Address	Suburb	Class	Operational Status	Operator	Revision Date	Loc Conf	Dist	Direction
5884	CALTEX WOOLWORTHS	CALTEX WOOLWORTHS BATEMANS BAY	27 VESPER STREET	BATEMANS BAY	PETROL STATION	OPERATIONAL			Premise Match	656m	West
4721	Caltex	Caltex Woolworths Batemans Bay	85 Princes Highway	Batemans Bay	Petrol Station	Operational		25/07/2011	Premise Match	699m	South West
6343	INDEPENDENT	INDEPENDENT BATEMANS BAY	1 SHARON ROAD	BATEMANS BAY	PETROL STATION	OPERATIONAL			Premise Match	930m	South West

PFAS Investigation & Management Programs

7 Pacific Street, Batemans Bay, NSW 2536

EPA PFAS Investigation Program

Sites that are part of the EPA PFAS investigation program, within the dataset buffer:

Map ID	Site	Address	Loc Conf	Dist	Dir
N/A	No records in buffer				

EPA PFAS Investigation Program: Environment Protection Authority

Defence PFAS Investigation Program

Sites being investigated by the Department of Defence for PFAS contamination within the dataset buffer:

Map ID	Base Name	Address	Loc Conf	Dist	Dir
N/A	No records in buffer				

Defence PFAS Investigation Program Data Custodian: Department of Defence, Australian Government

Defence PFAS Management Program

Sites being managed by the Department of Defence for PFAS contamination within the dataset buffer:

Map ID	Base Name	Address	Loc Conf	Dist	Dir
N/A	No records in buffer				

Defence PFAS Management Program Data Custodian: Department of Defence, Australian Government

Airservices Australia National PFAS Management Program

Sites being investigated or managed by Airservices Australia for PFAS contamination within the dataset buffer:

Map ID	Site Name	Impacts	Loc Conf	Dist	Dir
N/A	No records in buffer				

Airservices Australia National PFAS Management Program Data Custodian: Airservices Australia

Defence Sites and Unexploded Ordnance

7 Pacific Street, Batemans Bay, NSW 2536

Defence Controlled Areas (DCA)

Defence Controlled Areas provided by the Department of Defence within the dataset buffer:

Site ID	Location Name	Loc Conf	Dist	Dir
N/A	No records in buffer			

Defence Controlled Areas, Data Custodian: Department of Defence, Australian Government

Defence 3 Year Regional Contamination Investigation Program (RCIP)

Sites which have been assessed as part of the Defence 3 Year Regional Contamination Investigation Program within the dataset buffer:

Property ID	Base Name	Address	Known Contamination	Loc Conf	Dist	Dir
N/A	No records in buffer					

Defence 3 Year Regional Contamination Investigation Program, Data Custodian: Department of Defence, Australian Government

National Unexploded Ordnance (UXO)

Sites which have been assessed by the Department of Defence for the potential presence of unexploded ordnance within the dataset buffer:

Site ID	Location Name	Category	Area Description	Additional Information	Commonwealth	Loc Conf	Dist	Dir
N/A	No records in buffer							

National Unexploded Ordnance (UXO), Data Custodian: Department of Defence, Australian Government

EPA Other Sites with Contamination Issues

7 Pacific Street, Batemans Bay, NSW 2536

EPA Other Sites with Contamination Issues

This dataset contains other sites identified on the EPA website as having contamination issues. This dataset currently includes:

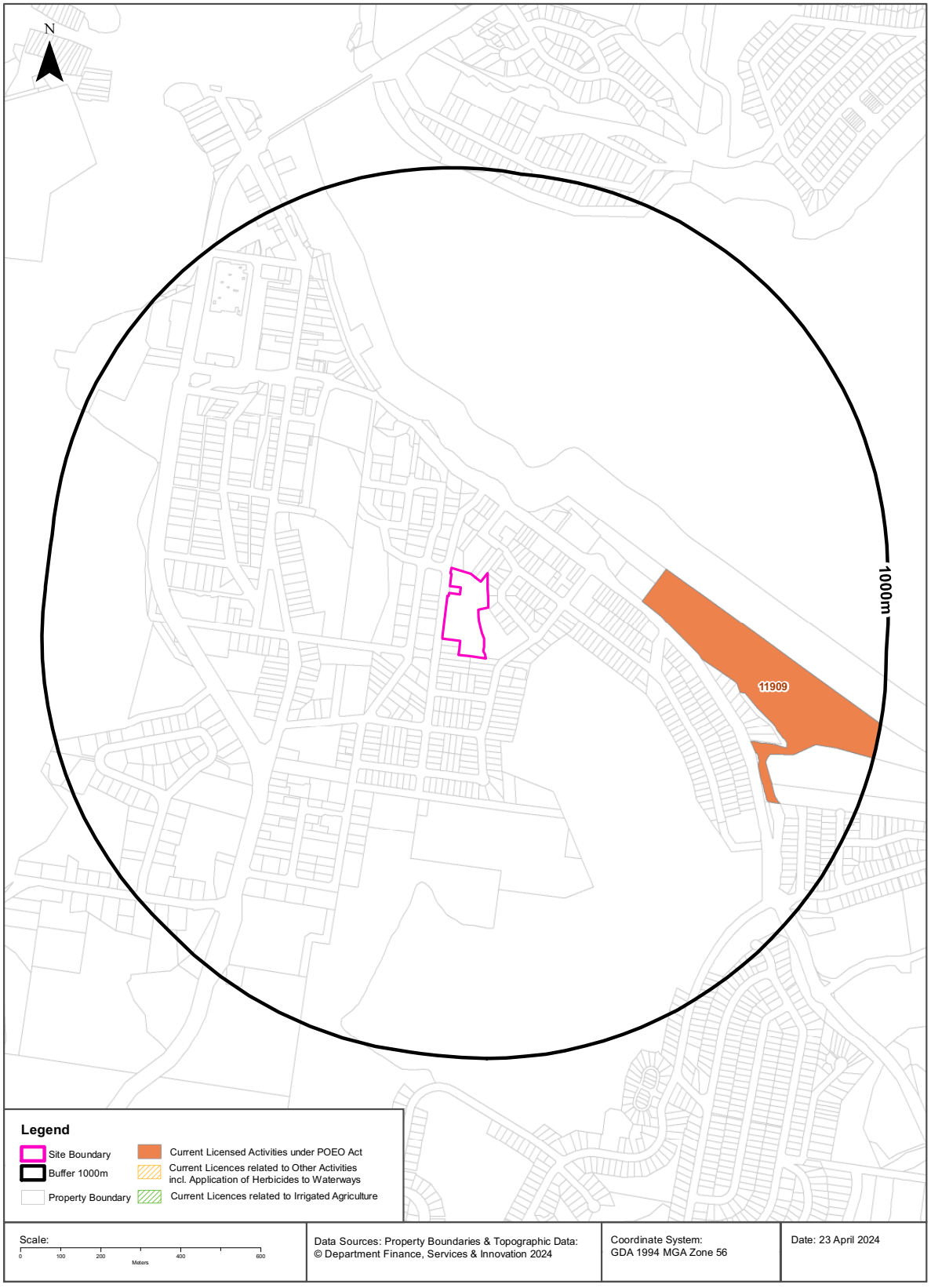
- James Hardie asbestos manufacturing and waste disposal sites
- Radiological investigation sites in Hunter's Hill
- Pasminco Lead Abatement Strategy Area

Sites within the dataset buffer:

Site Id	Site Name	Site Address	Dataset	Comments	Location Confidence	Distance	Direction
N/A	No records in buffer						

Current EPA Licensed Activities

7 Pacific Street, Batemans Bay, NSW 2536



EPA Activities

7 Pacific Street, Batemans Bay, NSW 2536

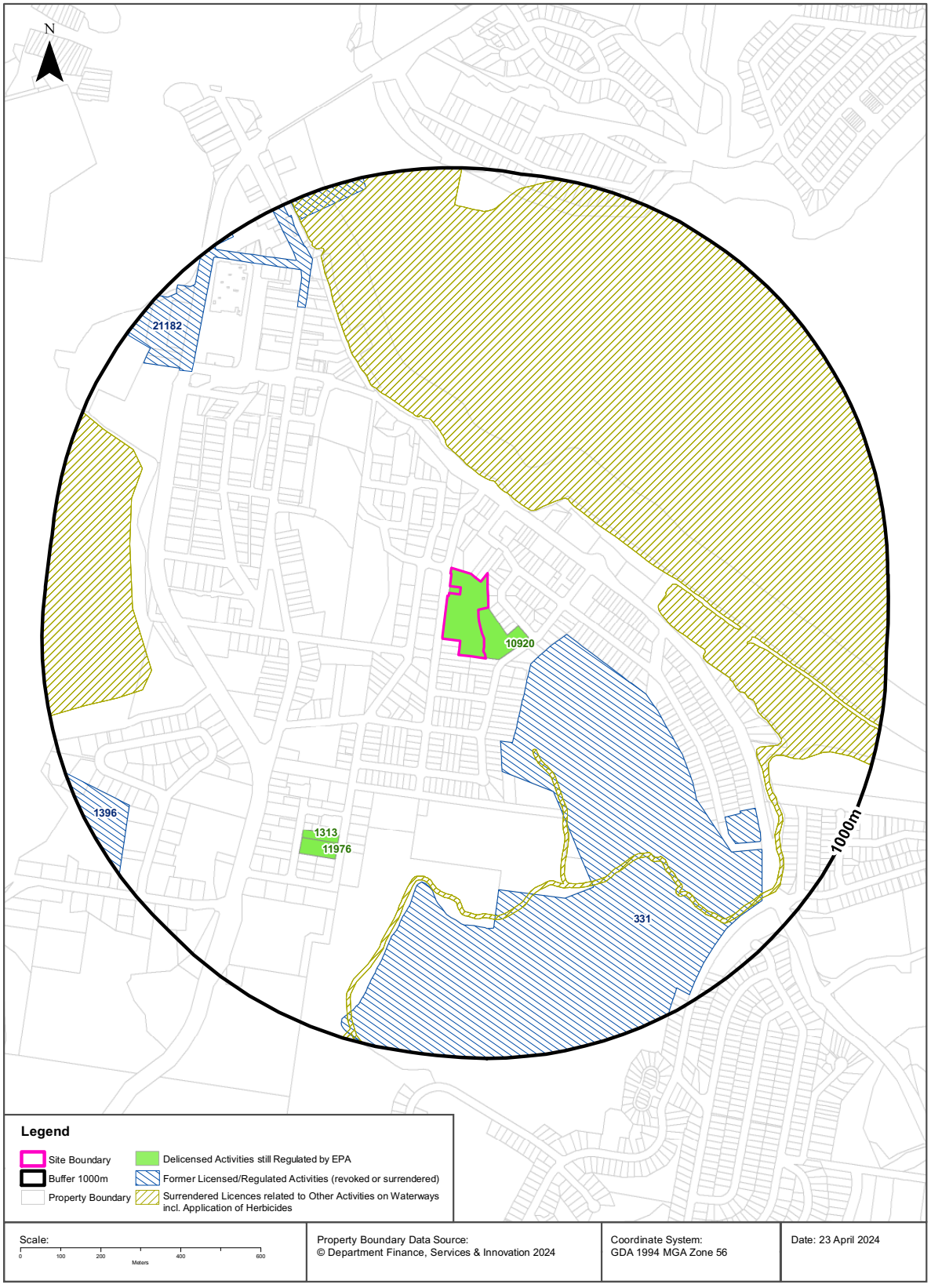
Licensed Activities under the POEO Act 1997

Licensed activities under the Protection of the Environment Operations Act 1997, within the dataset buffer:

EPL	Organisation	Name	Address	Suburb	Activity	Loc Conf	Distance	Direction
11909	BATEMANS BAY MARINA PTY LTD	BATEMANS BAY MARINA DEVELOPMENTS PTY. LTD.	27 BEACH ROAD	BATEMANS BAY	Boat construction/maintenance (general)	Premise Match	384m	East
11909	BATEMANS BAY MARINA PTY LTD	BATEMANS BAY MARINA DEVELOPMENTS PTY. LTD.	27 BEACH ROAD	BATEMANS BAY	Boat mooring and storage	Premise Match	384m	East

Delicensed & Former Licensed EPA Activities

7 Pacific Street, Batemans Bay, NSW 2536



EPA Activities

7 Pacific Street, Batemans Bay, NSW 2536

Delicensed Activities still regulated by the EPA

Delicensed activities still regulated by the EPA, within the dataset buffer:

Licence No	Organisation	Name	Address	Suburb	Activity	Loc Conf	Distance	Direction
10920	GREATER SOUTHERN AREA HEALTH SERVICE	BATEMANS BAY DISTRICT HOSPITAL	PACIFIC STREET	BATEMANS BAY	Hazardous, Industrial or Group A Waste Generation or Storage	Premise Match	0m	On-site
1313	HOLCIM (AUSTRALIA) PTY LTD	BATEMANS BAY CONCRETE	10 RUSSELL STREET	BATEMANS BAY	Concrete works	Premise Match	541m	South West
11976	BORAL RESOURCES (COUNTRY) PTY. LIMITED	BORAL COUNTRY - CONCRETE & QUARRIES	RUSSEL STREET	BATEMANS BAY	Concrete works	Premise Match	559m	South West

Delicensed Activities Data Source: Environment Protection Authority

Former Licensed Activities under the POEO Act 1997, now revoked or surrendered

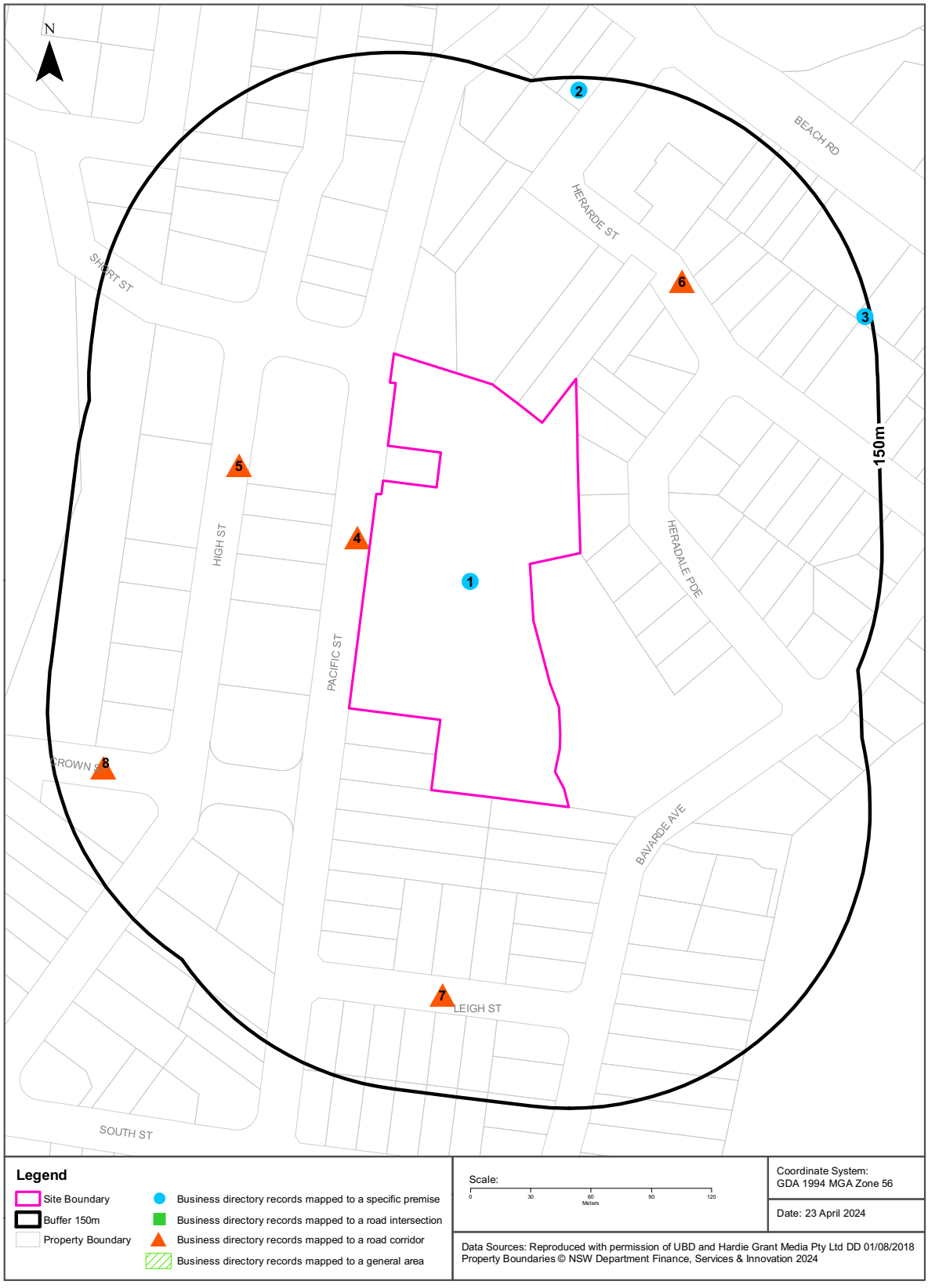
Former Licensed activities under the Protection of the Environment Operations Act 1997, now revoked or surrendered, within the dataset buffer:

Licence No	Organisation	Location	Status	Issued Date	Activity	Loc Conf	Distance	Direction
331	CATALINA COUNTRY CLUB LTD	154 BEACH ROAD, BATEMANS BAY, NSW 2536	Surrendered	18/09/2000	Other activities	Premise Match	112m	South
4653	LUHRMANN ENVIRONMENT MANAGEMENT PTY LTD	WATERWAYS THROUGHOUT NSW	Surrendered	06/09/2000	Other Activities / Non Scheduled Activity - Application of Herbicides	Network of Features	189m	North East
4838	Robert Orchard	Various Waterways throughout New South Wales - SYDNEY NSW 2000	Surrendered	07/09/2000	Other Activities / Non Scheduled Activity - Application of Herbicides	Network of Features	189m	North East
6630	SYDNEY WEED & PEST MANAGEMENT PTY LTD	WATERWAYS THROUGHOUT NSW - PROSPECT, NSW, 2148	Surrendered	09/11/2000	Other Activities / Non Scheduled Activity - Application of Herbicides	Network of Features	189m	North East
21182	JOHN HOLLAND PTY LTD	Princes Highway, BATEMANS BAY, NSW 2536,	Surrendered	13/11/2018	Extractive activities	Road Match	746m	North West
1396	EUROBODALLA SHIRE COUNCIL	25 CRANBROOK ROAD, BATEMANS BAY, NSW 2536	Surrendered	16/06/2000	Miscellaneous licensed discharge to waters (at any time)	Premise Match	885m	South West

Former Licensed Activities Data Source: Environment Protection Authority

Historical Business Directories

7 Pacific Street, Batemans Bay, NSW 2536



Historical Business Directories

7 Pacific Street, Batemans Bay, NSW 2536

Business Directory Records 1950-1991
Premise or Road Intersection Matches

Potentially contaminative business activities extracted from Universal Business Directories from years 1991, 1982, 1970, 1961 & 1950, mapped to a premise or road intersection within the dataset buffer:

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
1	HOSPITALS &/OR NURSING HOMES.	Batemans Bay District Hospital.,Bateman Bay., 2536	135743	1991	Premise Match	0m	On-site
	HOSPITALS &/OR HEALTH CENTRES	Batemans Bay District Hospital., Batemans Bay 2536	145988	1982	Premise Match	0m	On-site
2	FISH BAIT SUPPLIERS.	Fish N Stuff., 28 Beach Rd.,Bateman Bay., 2536	135617	1991	Premise Match	133m	North
	FISHING TACKLE RETAILERS.	Fish N Stuff., 28 Beach Rd.,Bateman Bay., 2536	135625	1991	Premise Match	133m	North
3	CAMPING GROUNDS &/OR CARAVAN PARKS.	Pine Grove Caravana., 48 Beach Rd.,Bateman Bay., 2536	135515	1991	Premise Match	142m	North East
	CAMPING GROUNDS &/OR CARAVAN PARKS	Pine Grove Caravana, 48 Beach Rd., Batemans Bay 2536	145905	1982	Premise Match	142m	North East

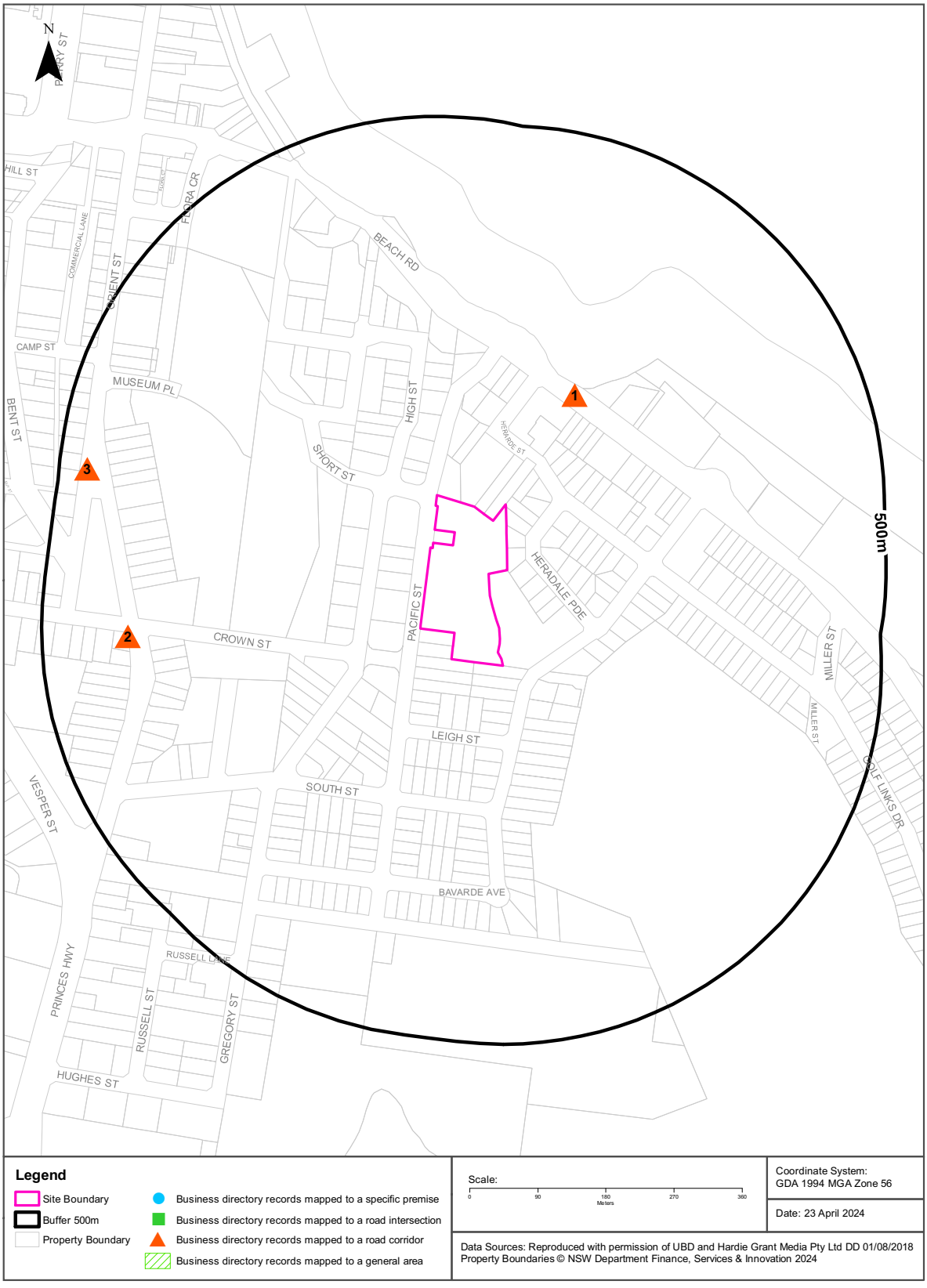
Business Directory Records 1950-1991
Road or Area Matches

Potentially contaminative business activities extracted from Universal Business Directories from years 1991, 1982, 1970, 1961 & 1950, mapped to a road or an area, within the dataset buffer. Records are mapped to the road when a building number is not supplied, cannot be found, or the road has been renumbered since the directory was published:

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Road Corridor or Area
4	PAINTERS, PAPERHANGERS & DECORATORS	Hayes, W., Pacific St., Bateman's Bay	185600	1961	Road Match	0m
	CYCLE DEALERS & ACCESSORIES	Maylor, H., Pacific St., Bateman's Bay	185489	1961	Road Match	0m
5	CARRIERS & CARTAGE CONTRACTORS	Manly, W. J., High St., Bateman's Bay	185481	1961	Road Match	51m
6	FISH BAIT SUPPLIERS	Patrech, J., Herarde St. Batemans Bay 2536	570680	1970	Road Match	57m
	RADIO DEALERS &/OR SERVICEMEN	Nomchong, Paul C., Herarde St. Batemans Bay	137337	1950	Road Match	57m
7	BUILDERS & BUILDING CONTRACTORS	Bohm, J. L., Leigh St. Batemans Bay	137221	1950	Road Match	91m
	BUILDERS & BUILDING CONTRACTORS	J. L. Bohm Leigh Street, Batemans Bay	137209	1950	Road Match	91m
8	PLUMBERS, GASFITTERS & DRAINLAYERS	McGeachie, G., Crown St. Batemans Bay 2536	570739	1970	Road Match	98m
	ELECTRICAL CONTRACTORS-LICENSED	Wilson, G. H., Crown St. Batemans Bay 2536	570675	1970	Road Match	98m

Dry Cleaners, Motor Garages & Service Stations

7 Pacific Street, Batemans Bay, NSW 2536



Historical Business Directories

7 Pacific Street, Batemans Bay, NSW 2536

Dry Cleaners, Motor Garages & Service Stations Premise or Road Intersection Matches

Dry Cleaners, Motor Garages & Service Stations from UBD Business Directories, mapped to a premise or road intersection, within the dataset buffer.

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
N/A	No records in buffer						

Dry Cleaners, Motor Garages & Service Stations Road or Area Matches

Dry Cleaners, Motor Garages & Service Stations from UBD Business Directories, mapped to a road or an area, within the dataset buffer. Records are mapped to the road when a building number is not supplied, cannot be found, or the road has been renumbered since the directory was published.

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Road Corridor or Area
1	MOTOR GARAGES & ENGINEERS	Priors Services, Beach Rd. Batemans Bay 2536	570729	1970	Road Match	153m
	MOTOR GARAGES & ENGINEERS	Prior's, Beach Rd., Bateman's Bay	185582	1961	Road Match	153m
	MOTOR GARAGES & ENGINEERS	Prior's, Beach Rd. Batemans Bay	137314	1950	Road Match	153m
2	MOTOR GARAGES & SERVICE STATIONS.	Ampol South Auto Motor Service., Princes Hway.,Bateman Bay., 2536	135837	1991	Road Match	355m
	MOTOR GARAGES & SERVICE STATIONS.	Batemans Bay Auto Chef., Princes Hway.,Bateman Bay., 2536	135839	1991	Road Match	355m
	DRY CLEANERS & PRESSERS.	Bateman's Bay Dry Cleaners., 1A Princes Hway.,Bateman Bay., 2536	135585	1991	Road Match	355m
	MOTOR GARAGES & SERVICE STATIONS.	Caltex Service Station., Princes Hway.,Bateman Bay., 2536	135842	1991	Road Match	355m
	MOTOR GARAGES & SERVICE STATIONS.	Scott W. & M., Princes Hway.,Bateman Bay., 2536	135847	1991	Road Match	355m
	MOTOR GARAGES & SERVICE STATIONS.	Toll Gates Service Station (Ampol)., Princes Hway.,Bateman Bay., 2536	135848	1991	Road Match	355m
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS	Batemans Bay Auto Chef. Princes Highway., Batemans Bay 2536	146033	1982	Road Match	355m
	DRY CLEANERS & PRESSERS	Bateman's Bay Dry Cleaners, 1A Princes Highway, Batemans Bay 2536	145932	1982	Road Match	355m
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS	Batemans Bay Garage, Princes Highway., Batemans Bay 2536	146034	1982	Road Match	355m
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS	Caltex Service Station, Princes Highway., Batemans Bay 2536	146036	1982	Road Match	355m
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS	Priors Services, Princes Highway., Batemans Bay 2536	146041	1982	Road Match	355m
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS	Scott, W. & M., Princes Highway., Batemans Bay 2536	146042	1982	Road Match	355m
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS	Toll Gates Service Station (Ampol), Princes Highway., Batemans Bay 2536	146043	1982	Road Match	355m
	MOTOR GARAGES & ENGINEERS	Baghurst Motors, Princes Hghwy. Batemans Bay 2536	570727	1970	Road Match	355m
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Batemans Bay Auto Chef, Princes Hghwy. Batemans Bay 2536	570733	1970	Road Match	355m
	DRY CLEANERS, PRESSERS & DYERS	Batemans Bay Dry Cleaners, Princes Hghwy. Batemans Bay 2536	570673	1970	Road Match	355m
	MOTOR GARAGES & ENGINEERS	BP Clyde Service Station, Princes Hghwy. Batemans Bay 2536	570726	1970	Road Match	355m
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Toll Gates Service Station, Princes Hghwy. Batemans Bay 2536	570735	1970	Road Match	355m
	MOTOR GARAGES & ENGINEERS	Baghursts Garage, Princes Highway., Bateman's Bay	185578	1961	Road Match	355m
	MOTOR GARAGES & ENGINEERS	Bateman's Bay Garage, Princes Highway., Bateman's Bay	185579	1961	Road Match	355m
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Bateman's Bay Garage, Princes Highway., Bateman's Bay	185591	1961	Road Match	355m

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Road Corridor or Area
2	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Bay Service Station & Snack Bar, Princes Highway., Bateman's Bay	185592	1961	Road Match	355m
	MOTOR GARAGES & ENGINEERS	Freebody, R. G., Princes Highway., Bateman's Bay	185581	1961	Road Match	355m
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Freebody, R. G., Princes Highway., Bateman's Bay	185593	1961	Road Match	355m
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Toll Gates Service Station, Princes Highway., Bateman's Bay	185594	1961	Road Match	355m
	MOTOR GARAGES & ENGINEERS	Baghurst's Garage Princes Highway, Batemans Bay	137265	1950	Road Match	355m
	MOTOR GARAGES & ENGINEERS	Baghursts Garage, Princes Highway. Batemans Bay	137311	1950	Road Match	355m
	MOTOR GARAGES & ENGINEERS	Batemans Bay Garage, Princes Highway. Batemans Bay	137312	1950	Road Match	355m
	MOTOR GARAGES & ENGINEERS	Croaker, R. and Coy., Princes Highway. Batemans Bay	137313	1950	Road Match	355m
3	MOTOR GARAGES & SERVICE STATIONS.	Baghurst Motors & N.R.M.A. Depot., Orient St.,Bateman Bay., 2536	135838	1991	Road Match	451m
	MOTOR GARAGES & SERVICE STATIONS.	Batemans Bay Garage., Orient St.,Bateman Bay., 2536	135840	1991	Road Match	451m
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS	Baghurst Motors & N.R.M.A. Depot, Orient St., Batemans Bay 2536	146032	1982	Road Match	451m

Aerial Imagery 2023

7 Pacific Street, Batemans Bay, NSW 2536

Aerial Imagery 2020

7 Pacific Street, Batemans Bay, NSW 2536

Aerial Imagery 2018

7 Pacific Street, Batemans Bay, NSW 2536

Aerial Imagery 2015

7 Pacific Street, Batemans Bay, NSW 2536

Aerial Imagery 2013

7 Pacific Street, Batemans Bay, NSW 2536

Aerial Imagery 2005

7 Pacific Street, Batemans Bay, NSW 2536

Aerial Imagery 1997

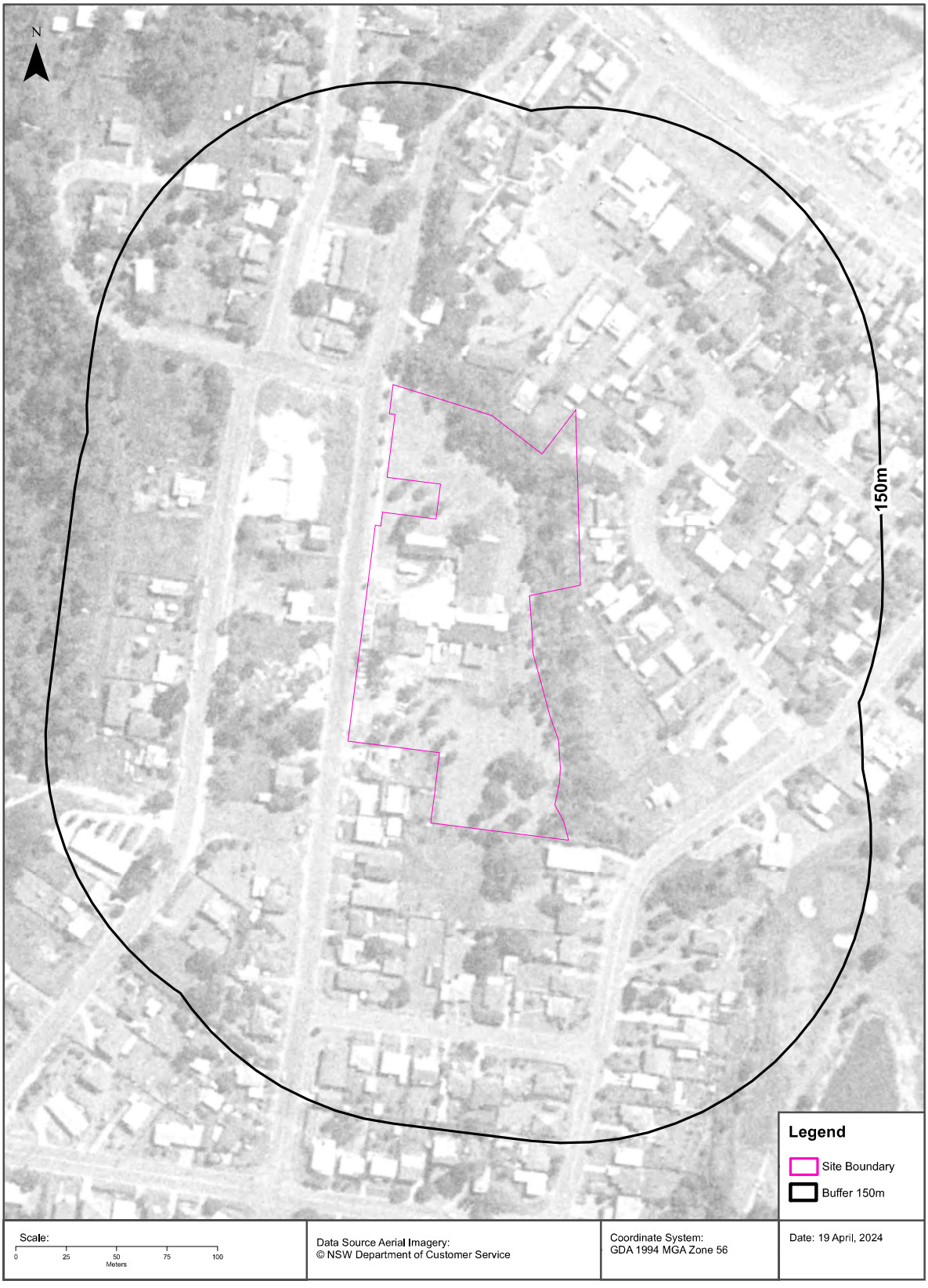
7 Pacific Street, Batemans Bay, NSW 2536

Aerial Imagery 1991

7 Pacific Street, Batemans Bay, NSW 2536

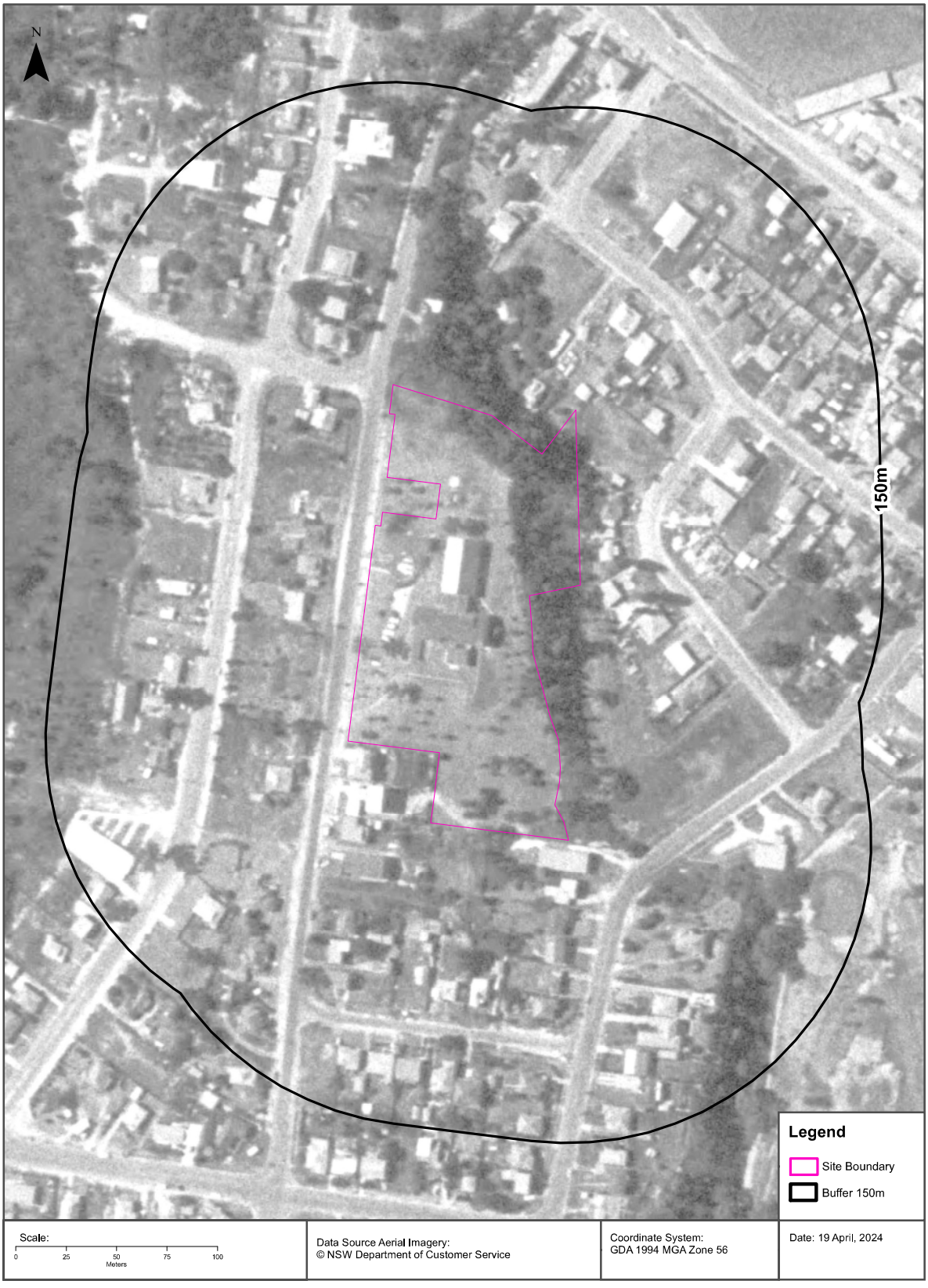
Aerial Imagery 1989

7 Pacific Street, Batemans Bay, NSW 2536



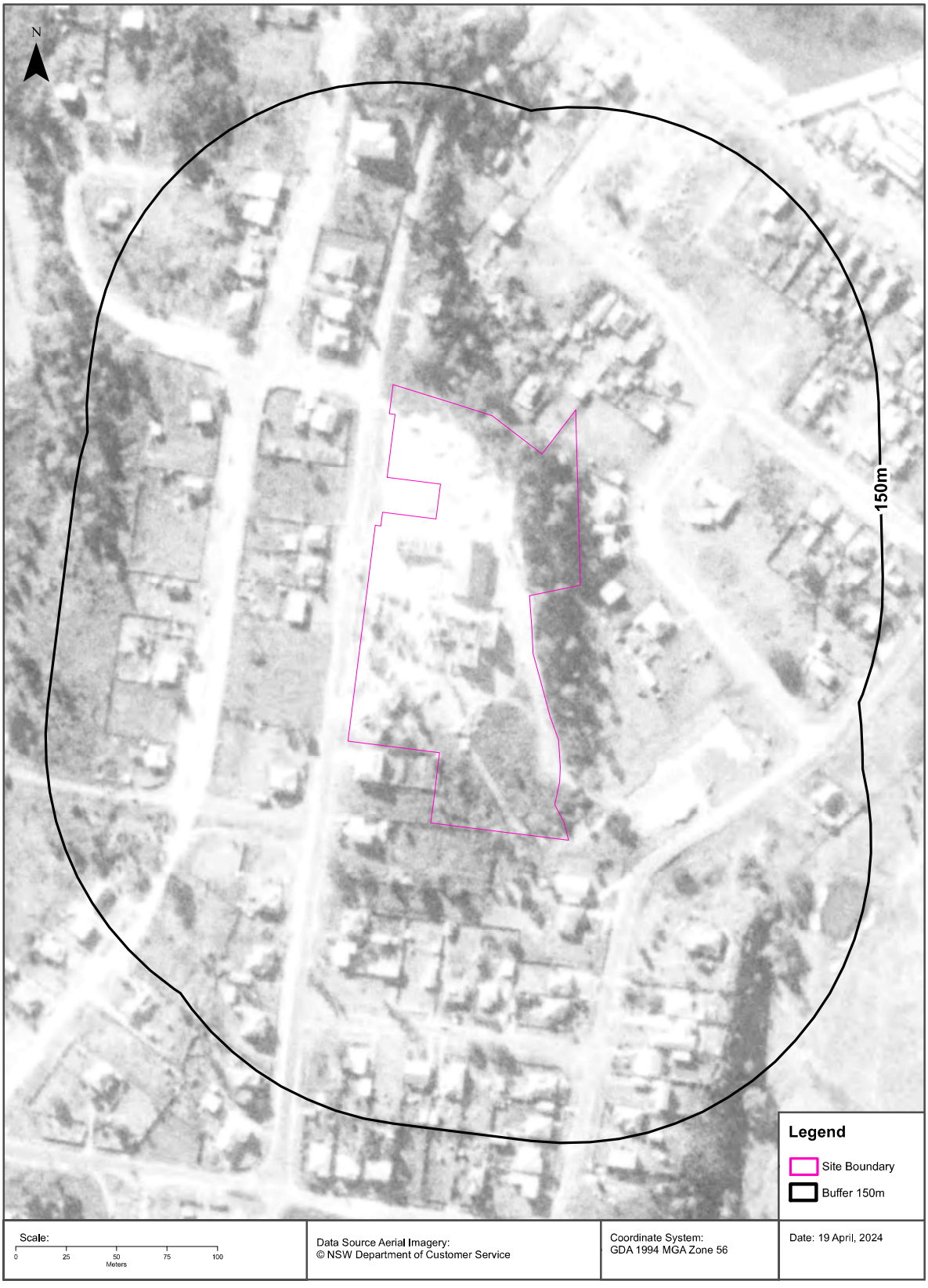
Aerial Imagery 1979

7 Pacific Street, Batemans Bay, NSW 2536



Aerial Imagery 1969

7 Pacific Street, Batemans Bay, NSW 2536



Aerial Imagery 1964

7 Pacific Street, Batemans Bay, NSW 2536

Aerial Imagery 1949

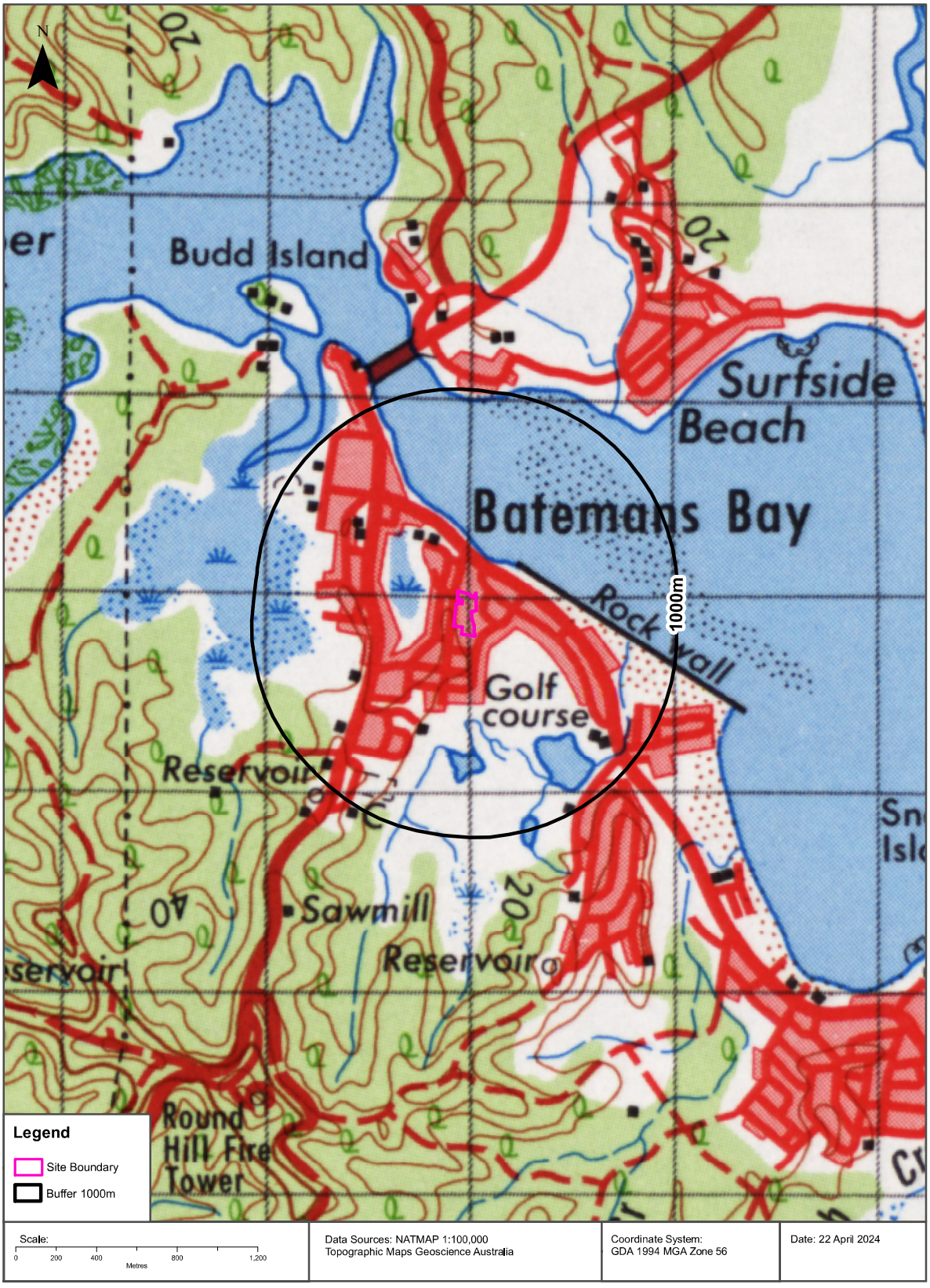
7 Pacific Street, Batemans Bay, NSW 2536

Topographic Map 2015

7 Pacific Street, Batemans Bay, NSW 2536

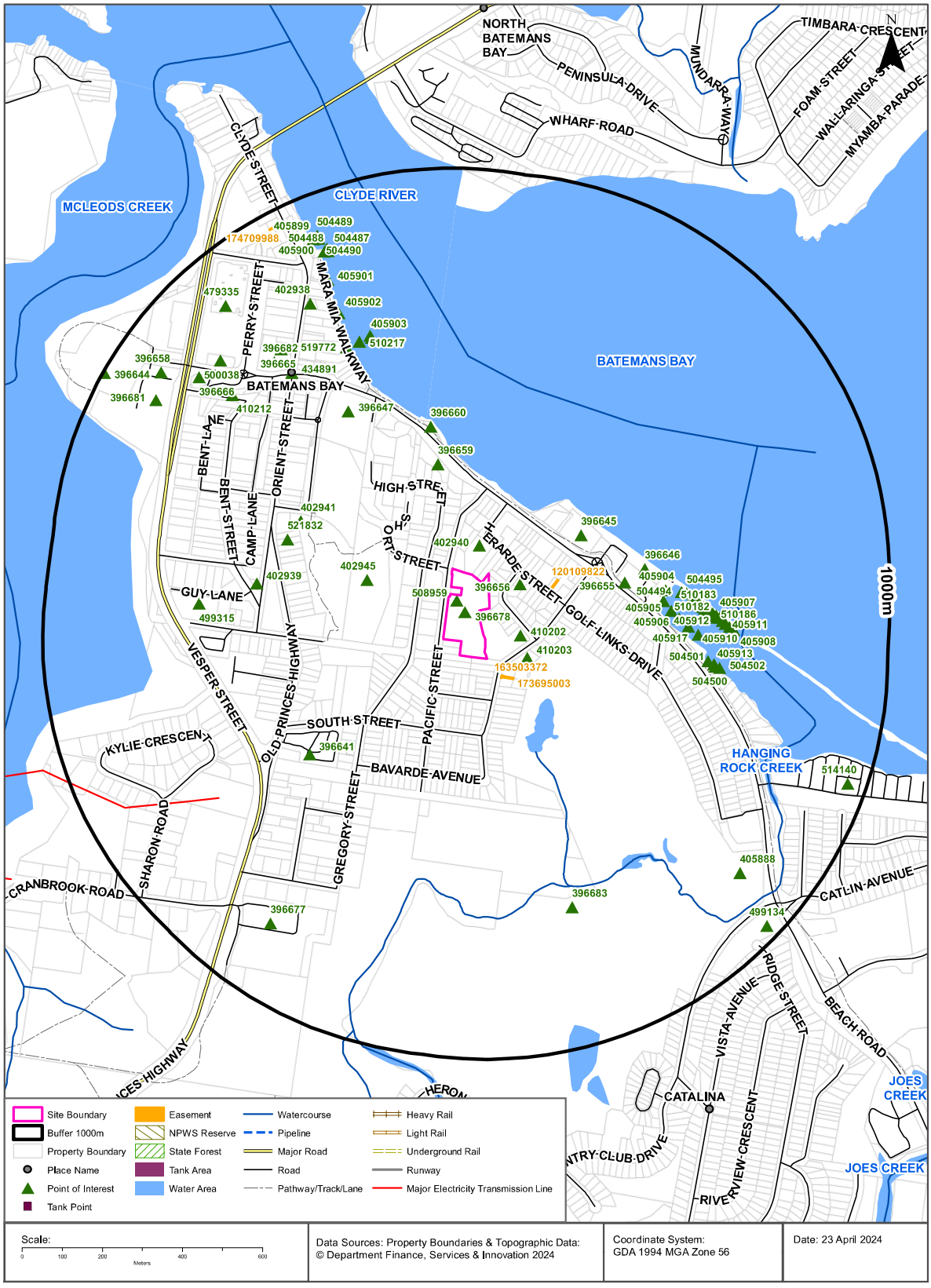
Historical Map 1971

7 Pacific Street, Batemans Bay, NSW 2536



Topographic Features

7 Pacific Street, Batemans Bay, NSW 2536



Topographic Features

7 Pacific Street, Batemans Bay, NSW 2536

Points of Interest

What Points of Interest exist within the dataset buffer?

Map Id	Feature Type	Label	Distance	Direction
508959	Community Medical Centre	BATEMANS BAY COMMUNITY HEALTH CENTRE	0m	On-site
396678	General Hospital	BATEMANS BAY DISTRICT HOSPITAL	0m	On-site
402940	Place Of Worship	ANGLICAN CHURCH	74m	North
396656	Fire Station	BATEMANS BAY FIRE STATION	78m	North East
410202	Place Of Worship	UNITING CHURCH	88m	East
410203	Place Of Worship	SALVATION ARMY CHURCH	100m	South East
402945	Park	WATER GARDEN TOWN PARK	209m	West
396645	Park	ROTARY PARK	250m	North East
396659	Park	ALBERT RYAN PARK	263m	North
396655	Picnic Area	Picnic Area	339m	East
396660	Picnic Area	Picnic Area	359m	North
396646	Helipad	Helipad	390m	East
402941	Community Facility	BATEMANS BAY COMMUNITY CENTRE	396m	North West
521832	Community Medical Centre	KATUNGUL ABORIGINAL CORPORATION COMMUNITY AND MEDICAL SERVICES	418m	North West
510181	Wharf	Wharf	435m	East
405904	Slipway	Slipway	440m	East
396641	Tourist Park / Home Village	SHADY WILLOWS CARAVAN PARK	440m	South West
405905	Wharf	Wharf	454m	East
396647	Club	BATEMANS BAY SOLDIERS CLUB	471m	North West
405906	Wharf	Wharf	474m	East
402939	Firestation - Bush	BATEMANS BAY RFB	479m	West
504494	Wharf	Wharf	481m	East
504495	Wharf	Wharf	493m	East
405918	Wharf	Wharf	499m	East
510196	Wharf	Wharf	505m	East
510195	Wharf	Wharf	515m	East
510194	Wharf	Wharf	522m	East
510193	Wharf	Wharf	524m	East
405917	Wharf	Wharf	525m	East
510192	Wharf	Wharf	530m	East
510191	Wharf	Wharf	535m	East

Map Id	Feature Type	Label	Distance	Direction
510190	Wharf	Wharf	537m	East
510183	Wharf	Wharf	540m	East
510189	Wharf	Wharf	544m	East
510188	Wharf	Wharf	545m	East
510187	Wharf	Wharf	550m	East
405913	Wharf	Wharf	551m	East
510186	Wharf	Wharf	552m	East
510185	Wharf	Wharf	558m	East
510184	Wharf	Wharf	560m	East
504501	Wharf	Wharf	566m	East
405907	Wharf	Wharf	566m	East
510182	Wharf	Wharf	568m	East
504500	Wharf	Wharf	570m	East
405912	Wharf	Wharf	575m	East
504502	Wharf	Wharf	581m	East
405911	Wharf	Wharf	582m	East
405910	Wharf	Wharf	591m	East
405909	Wharf	Wharf	601m	East
405903	Wharf	Wharf	611m	North
405908	Wharf	Wharf	611m	East
510217	Wharf	Wharf	613m	North
519772	Park	MARA MIA WALKWAY	613m	North West
499315	Nursing Home	IRT CROWN GARDENS	616m	West
510218	Wharf	Wharf	617m	North
434891	Town	BATEMANS BAY	633m	North West
396683	Golf Course	CATALINA COUNTRY CLUB GOLF COURSE	655m	South
396682	Police Station	BATEMANS BAY POLICE STATION	680m	North West
396665	Court House	BATEMANS BAY COURT HOUSE	695m	North West
405902	Wharf	Wharf	699m	North West
410212	Cemetery	HISTORIC CEMETERY	700m	North West
402938	Post Office	BATEMANS BAY POST OFFICE	752m	North West
500038	Retirement Village	IRT THE CLYDE	778m	North West
405901	Wharf	Wharf	785m	North West
396666	Tourist Information Centre	BATEMANS BAY VISITOR INFORMATION CENTRE	793m	North West
396677	Cemetery	BATEMANS BAY CEMETERY	819m	South West
405888	Club	CATALINA COUNTRY CLUB	827m	South East
396681	Swimming Pool	BATEMANS BAY SWIMMING POOL	851m	North West

Map Id	Feature Type	Label	Distance	Direction
504488	Wharf	Wharf	852m	North
405900	Wharf	Wharf	855m	North
504487	Wharf	Wharf	858m	North
479335	Shopping Centre	Shopping Centre	867m	North West
396658	Sports Centre	BATEMANS BAY MINI GOLF CENTRE	877m	North West
504490	Wharf	Wharf	889m	North
405899	Wharf	Wharf	893m	North
504489	Wharf	Wharf	898m	North
514140	Tourist Park / Home Village	COACHHOUSE MARINA RESORT	953m	South East
499134	Park	KEITH AND MAVIS SMITH PARK	966m	South East
396644	Sports Field	MACKAY PARK	997m	North West

Topographic Features

7 Pacific Street, Batemans Bay, NSW 2536

Tanks (Areas)

What are the Tank Areas located within the dataset buffer?
Note. The large majority of tank features provided by LPI are derived from aerial imagery & are therefore primarily above ground tanks.

Map Id	Tank Type	Status	Name	Feature Currency	Distance	Direction
N/A	No records in buffer					

Tanks (Points)

What are the Tank Points located within the dataset buffer?
Note. The large majority of tank features provided by LPI are derived from aerial imagery & are therefore primarily above ground tanks.

Map Id	Tank Type	Status	Name	Feature Currency	Distance	Direction
N/A	No records in buffer					

Major Easements

What Major Easements exist within the dataset buffer?
Note. Easements provided by LPI are not at the detail of local governments. They are limited to major easements such as Right of Carriageway, Electrical Lines (66kVa etc.), Easement to drain water & Significant subterranean pipelines (gas, water etc.).

Map Id	Easement Class	Easement Type	Easement Width	Distance	Direction
163503372	Primary	Right of way	4.5m and VAR	54m	South East
173695003	Primary	Right of way	2.25m & Var	56m	South East
120109822	Primary	Undefined		153m	East
174709988	Primary	Right of way	3.05m	960m	North West

Topographic Features

7 Pacific Street, Batemans Bay, NSW 2536

State Forest

What State Forest exist within the dataset buffer?

State Forest Number	State Forest Name	Distance	Direction
N/A	No records in buffer		

Elevation Contours (m AHD)

7 Pacific Street, Batemans Bay, NSW 2536

Hydrogeology & Groundwater

7 Pacific Street, Batemans Bay, NSW 2536

Hydrogeology

Description of aquifers within the dataset buffer:

Description	Distance	Direction
Fractured or fissured, extensive aquifers of low to moderate productivity	0m	On-site

Hydrogeology Map of Australia : Commonwealth of Australia (Geoscience Australia)

Temporary Water Restriction (Botany Sands Groundwater Source) Order 2018

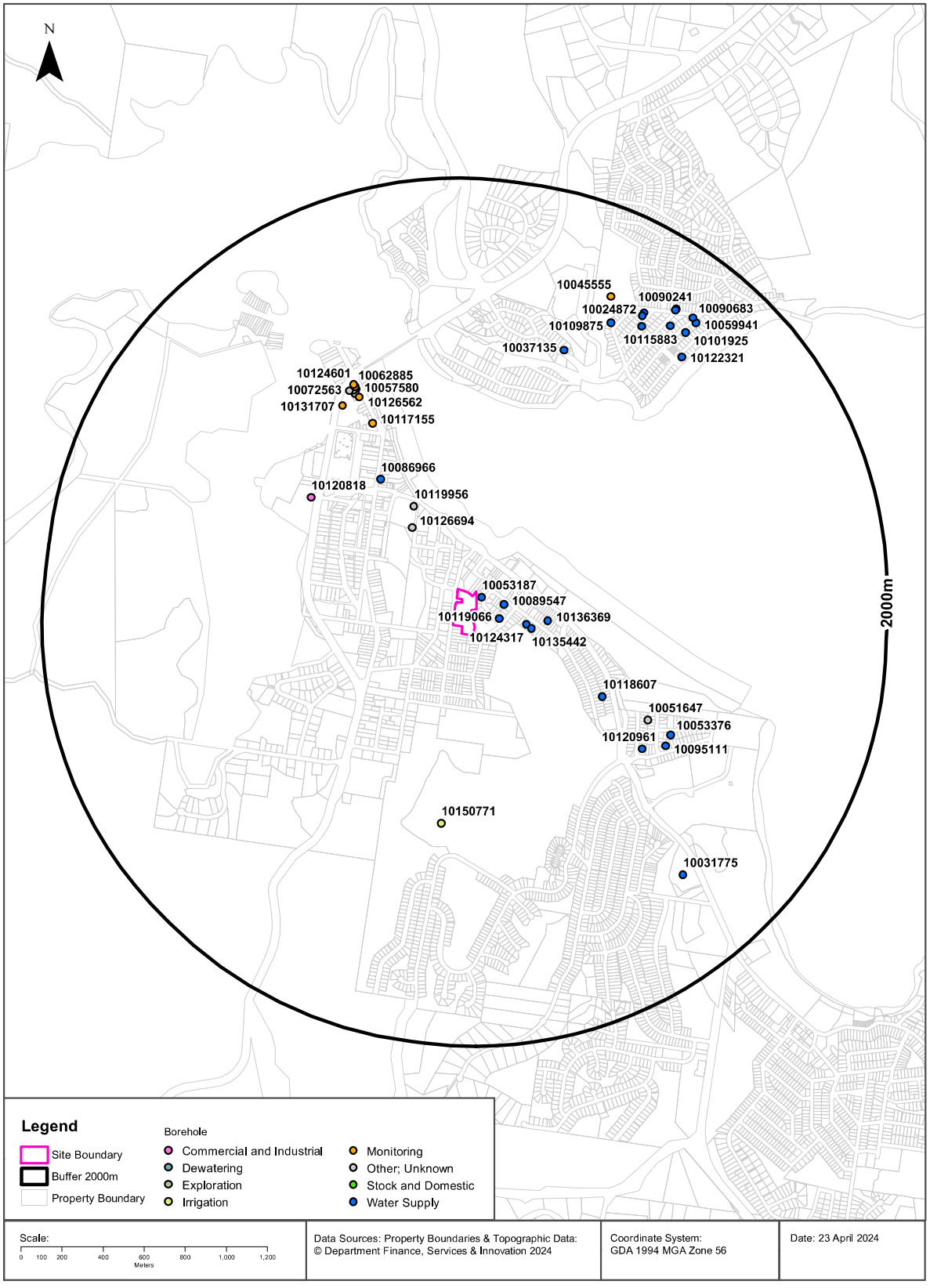
Temporary water restrictions relating to the Botany Sands aquifer within the dataset buffer:

Prohibition Area No.	Prohibition	Distance	Direction
N/A	No records in buffer		

Temporary Water Restriction (Botany Sands Groundwater Source) Order 2018 Data Source : NSW Department of Primary Industries

Groundwater Boreholes

7 Pacific Street, Batemans Bay, NSW 2536



Hydrogeology & Groundwater

7 Pacific Street, Batemans Bay, NSW 2536

Groundwater Boreholes

Boreholes within the dataset buffer:

NGIS Bore ID	NSW Bore ID	Bore Type	Status	Drill Date	Bore Depth (m)	Reference Elevation	Height Datum	Salinity (mg/L)	Yield (L/s)	SWL (mbgl)	Distance	Direction
10053187	GW105523	Water Supply	Unknown	22/08/2003	4.50		AHD				27m	North East
10119066	GW105749	Water Supply	Functioning	25/09/2003	4.20		AHD				121m	East
10089547	GW111257	Water Supply	Functioning	28/04/2010	3.50		AHD				134m	East
10124317	GW102842	Water Supply	Functioning	01/01/1990	4.00		AHD				254m	East
10135442	GW102843	Water Supply	Functioning	01/01/1991			AHD				277m	East
10136369	GW104725	Water Supply	Functioning	28/01/2003	4.50		AHD				353m	East
10126694	GW107262	Other	Unknown	16/07/2005	5.30		AHD				369m	North West
10119956	GW107261	Other	Unknown	15/07/2005	4.20		AHD				452m	North West
10086966	GW104794	Water Supply	Functioning	19/12/2002	4.00		AHD				650m	North West
10118607	GW100998	Water Supply	Unknown	06/09/1997	2.00		AHD				688m	South East
10120818	GW105211	Commercial and Industrial	Functioning	12/12/2003	31.70		AHD		4.000	3.00	838m	North West
10117155	GW111056	Monitoring	Functional	07/06/2010	4.50		AHD			1.60	904m	North West
10150771	GW037490	Irrigation	Unknown	01/10/1972	7.00		AHD				929m	South
10051647	GW105659	Unknown	Unknown	23/03/2005			AHD				937m	South East
10120961	GW100482	Water Supply	Functioning	29/11/1994	3.30		AHD	Good	0.600	1.20	984m	South East
10126562	GW111055	Monitoring	Functional	07/06/2010	4.50		AHD			1.70	1048m	North West
10131707	GW111054	Monitoring	Functional	07/06/2010	4.50		AHD			1.60	1052m	North West
10053376	GW107830	Water Supply	Unknown	06/01/2006	3.00		AHD				1068m	South East
10095111	GW111390	Water Supply	Functioning	08/12/2010	3.00		AHD			3.00	1073m	South East
10058597	GW108465	Unknown	Unknown	22/11/2007	4.50		AHD			1.80	1074m	North West
10057580	GW108463	Unknown	Unknown	22/11/2007	3.60		AHD			1.80	1089m	North West
10062678	GW108467	Unknown	Unknown	23/11/2007	4.50		AHD			1.80	1089m	North West
10061611	GW108468	Unknown	Unknown	27/11/2007	4.50		AHD				1094m	North West
10072563	GW108464	Unknown	Unknown	22/11/2007	3.50		AHD			1.80	1096m	North West
10062885	GW108466	Monitoring	Unknown	22/11/2007	4.50		AHD			1.80	1102m	North West
10124601	GW111057	Monitoring	Functional	07/06/2010	2.90		AHD			1.60	1114m	North West
10037135	GW105006	Water Supply	Functioning	01/04/2003	4.00		AHD				1249m	North
10109875	GW115232	Water Supply	Functioning	21/01/2016	2.90		AHD				1463m	North East
10122321	GW105834	Water Supply	Unknown	24/04/2003	4.50		AHD				1518m	North East

NGIS Bore ID	NSW Bore ID	Bore Type	Status	Drill Date	Bore Depth (m)	Reference Elevation	Height Datum	Salinity (mg/L)	Yield (L/s)	SWL (mbgl)	Distance	Direction
10128510	GW104604	Water Supply	Functioning	20/03/2003			AHD				1521m	North East
10031775	GW101560	Water Supply	Unknown	01/12/1998	4.00		AHD	100			1544m	South East
10090501	GW104790	Water Supply	Functioning	29/11/2002	4.10		AHD				1567m	North East
10045555	GW114506	Monitoring	Removed	24/05/2013	16.00		AHD				1577m	North East
10024872	GW109569	Water Supply	Unknown	15/03/2005	4.50		AHD				1584m	North East
10115883	GW110405	Water Supply	Unknown	10/09/2009	3.50		AHD				1601m	North East
10101925	GW102896	Water Supply	Unknown	01/01/1998	10.00		AHD		0.500	5.00	1622m	North East
10092986	GW106827	Water Supply	Unknown	12/12/2004	4.50		AHD				1678m	North East
10090241	GW107209	Water Supply	Unknown	09/10/2004	3.00		AHD				1685m	North East
10059941	GW105031	Water Supply	Functioning	01/01/2003	3.05		AHD			2.13	1691m	North East
10090683	GW104789	Water Supply	Functioning	23/11/2002	4.50		AHD				1698m	North East

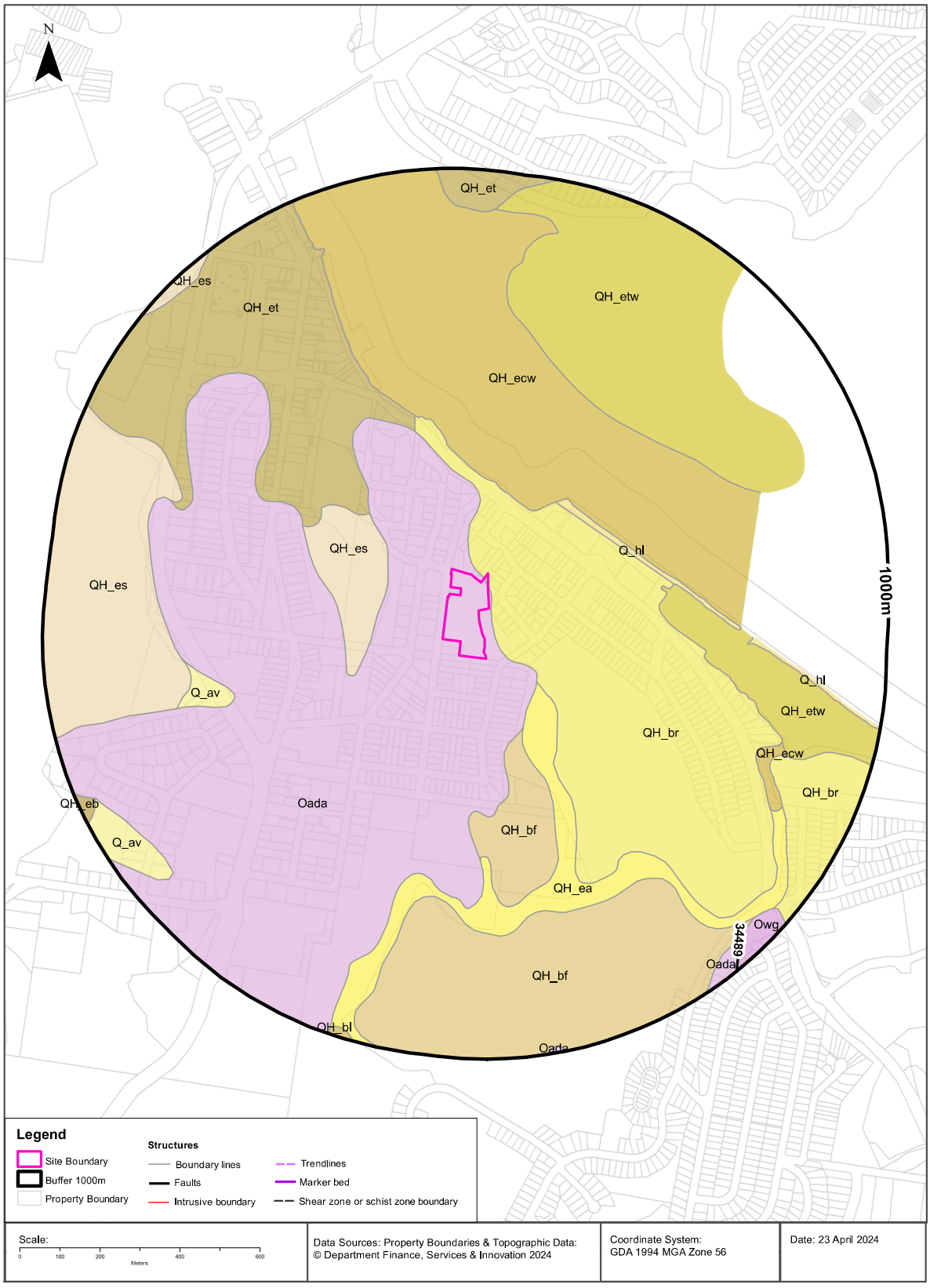
Hydrogeology & Groundwater

7 Pacific Street, Batemans Bay, NSW 2536

Driller's Logs

Drill log data relevant to the boreholes within the dataset buffer:

NGIS Bore ID	Drillers Log	Distance	Direction
10120818	0.00m-2.40m BROWN SAND 2.40m-3.90m LIGHT BROWN SAND 3.90m-6.70m FINE SAND /SEA SHELLS 6.70m-14.60m DARK GREY SILTY SAND 14.60m-27.40m SOFT LIGHT BROWN SHALE 27.40m-31.70m HARDER GREY SHALE	838m	North West
10117155	0.00m-0.05m BITUMEN 0.05m-0.20m GRAVELLY SAND CLAYEY 0.20m-0.45m SANDY CLAY 0.45m-4.50m SAND	904m	North West
10150771	0.00m-1.52m Driller 1.52m-7.01m Sand Water Supply 7.01m-7.03m Clay	929m	South
10120961	0.00m-0.50m SANDY TOP SOIL - GREY 0.50m-3.30m SAND, SHALE AND SMALL PEBBLES - CALCAREOUS.	984m	South East
10126562	0.00m-0.05m BITUMEN 0.05m-0.80m SANDY GRAVELLY CLAY 0.80m-1.00m SAND 1.00m-1.05m BITUMEN 1.05m-4.50m SAND	1048m	North West
10131707	0.00m-0.05m BITUMEN 0.05m-0.40m SANDY GRAVELLY CLAY 0.40m-0.90m SAND 0.90m-4.00m SAND 4.00m-4.50m SAND	1052m	North West
10058597	0.00m-0.40m FILL 0.40m-4.50m SAND	1074m	North West
10057580	0.00m-2.00m FILL,MED GRAINED SAND 2.00m-3.60m SAND	1089m	North West
10061611	0.00m-0.20m FILL, FINE SAND 0.20m-4.50m SAND	1094m	North West
10072563	0.00m-0.50m FILL, MED GRAINED SAND 0.50m-3.50m SAND	1096m	North West
10062885	0.00m-0.40m FILL 0.40m-4.50m SAND	1102m	North West
10124601	0.00m-0.05m BITUMEN 0.05m-2.90m GRAVELLY CLAY	1114m	North West
10031775	0.00m-1.00m Shale and Clay, FILL MATERIAL 1.00m-2.00m Yellow Sand 2.00m-4.00m Grey Sand, coarse with shells and pebbles 4.00m-5.00m Black Clay, Sand, and Pebbles	1544m	South East
10045555	0.00m-1.00m CLAY 1.00m-3.00m SANDSTONE 3.00m-14.00m CLAY 14.00m-16.00m SHALE	1577m	North East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34489
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Legend
Site Boundary
Buffer 1000m
Property Boundary
Structures
Boundary lines
Faults
Intrusive boundary
Trendlines
Marker bed
Shear zone or schist zone boundary
Scale:
0
100
200
400
600
Meters
Data Sources: Property Boundaries & Topographic Data:
© Department Finance, Services & Innovation 2024
Coordinate System:
GDA 1994 MGA Zone 56
Date: 23 April 2024

Geology

7 Pacific Street, Batemans Bay, NSW 2536

Geological Units

What are the Geological Units within the dataset buffer?

Unit Code	Unit Name	Description	Unit Stratigraphy	Age	Dominant Lithology	Distance
Oada	Abercrombie Formation	Brown and buff to grey, thin- to thick-bedded, fine- to coarse-grained mica-quartz (±feldspar) sandstone, interbedded with laminated siltstone and mudstone. Sporadic chert-rich units.	\Adaminaby Group\ \Abercrombie Formation\ \	La2b (Lancefieldian) (base) to Da4 (Darriwilian) (top)	Sandstone	0m
QH_br	Coastal deposits - beach ridge	Fine- to coarse-grained quartz-lithic-carbonate sand (marine-deposited), shell and shell-fragment-rich beds, polymictic gravel.	\Coastal deposits\ \Coastal deposits - beach ridge\\	Holocene (base) to Now (top)	Sand	0m
QH_ea	Estuarine palaeochannel fill	Organic mud, peat, clay, silt, fine- to medium-grained lithic-carbonate-quartz sand (marine-deposited).	\Estuarine deposits\ \Estuarine palaeochannel fill\\	Holocene (base) to Now (top)	Organic rich sediment	138m
QH_es	Estuarine swamp	Organic-rich mud, peat, clay, silt, very fine- to fine-grained sand (marine-deposited), fine- to medium-grained sand (fluvially deposited).	\Estuarine deposits\ \Estuarine swamp\\	Holocene (base) to Now (top)	Organic rich sediment	154m
QH_ecw	Estuarine channel deposits (subaqueous)	Fine- to medium-grained lithic-carbonate-quartz sand (marine-deposited), silt, clay, shell, gravel.	\Estuarine deposits\ \Estuarine channel deposits\Estuarine channel deposits (subaqueous)\	Holocene (base) to Now (top)	Clastic sediment	190m
QH_bf	Coastal deposits - backbarrier flat facies	Fine- to medium-grained quartz-lithic sand with carbonate and humic components (marine-deposited), indurated sand, silt, clay, gravel, organic mud, peat.	\Coastal deposits\ \Coastal deposits - backbarrier flat facies\\	Holocene (base) to Now (top)	Sand	194m
Q_hl	Anthropogenic breakwaters, embankments and artificial levees	Large concrete blocks and/or very large quarried boulders; unconsolidated conglomerate of either quarried or local cobbles to boulders with a clay to sandy matrix; sporadic sandy loam capping layers.	\Anthropogenic deposits\ \Anthropogenic breakwaters, embankments and artificial levees\\	Quaternary (base) to Now (top)	Anthropogenic material	246m
QH_et	Estuarine tidal-delta flat	Fine- to medium-grained lithic-carbonate-quartz sand (marine-deposited), silt, clay, shell material, polymictic gravel.	\Estuarine deposits\ \Estuarine tidal-delta flat\ \	Holocene (base) to Now (top)	Clastic sediment	247m
QH_etw	Estuarine tidal delta flat (subaqueous)	Fine- to medium-grained lithic-carbonate-quartz sand (marine-deposited), silt, clay, shell material, polymictic gravel.	\Estuarine deposits\ \Estuarine tidal-delta flat \Estuarine tidal delta flat (subaqueous)\	Holocene (base) to Now (top)	Clastic sediment	426m
Q_av	Alluvial valley deposits	Silt, clay, (fluvially deposited) lithic to quartz-lithic sand, gravel.	\Alluvium\\Alluvial valley deposits\\	Quaternary (base) to Now (top)	Clastic sediment	538m
Owg	Wagonga Group	Chert, conglomerate, siltstone, sandstone, basic volcanic rocks.	\Wagonga Group\\\\	Iverian (base) to Bo5 (Bolindian) (top)	Chert	930m
QH_eb	Central mud basin	Clay, silt, shell, very fine- to fine-grained lithic-quartz (± carbonate) sand (fluvially- and/or marine-deposited).	\Estuarine deposits\ \Central mud basin\\	Holocene (base) to Now (top)	Clastic sediment	954m

Unit Code	Unit Name	Description	Unit Stratigraphy	Age	Dominant Lithology	Distance
QH_bl	Coastal deposits - lagoon facies	Organic-rich mud, silt, clay, very fine- to fine-grained quartz-lithic-carbonate sand (marine-deposited), shell and shell grit.	\Coastal deposits\ \Coastal deposits - lagoon facies\\	Holocene (base) to Now (top)	Organic rich sediment	975m

Linear Geological Structures

What are the Dyke, Sill, Fracture, Lineament and Vein trendlines within the dataset buffer?

Map ID	Feature Description	Map Sheet Name	Distance
No Features			

What are the Faults, Shear zones or Schist zones, Intrusive boundaries & Marker beds within the dataset buffer?

Map ID	Boundary Type	Description	Map Sheet Name	Distance
34489	Faulted boundary	Fault, position approximate	Eastern Lachlan Orogen version 2	940m

Naturally Occurring Asbestos Potential

7 Pacific Street, Batemans Bay, NSW 2536

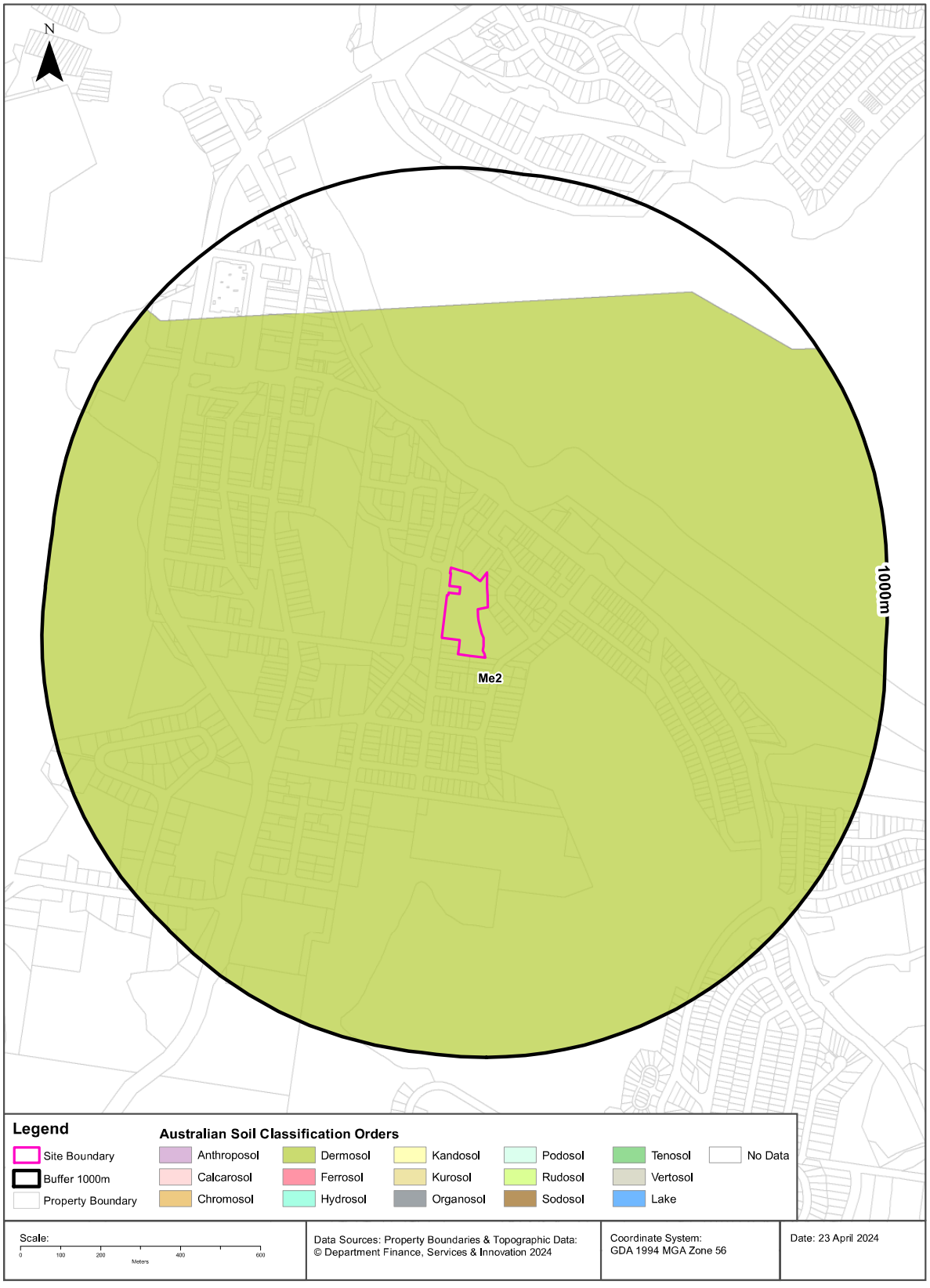
Naturally Occurring Asbestos Potential

Naturally Occurring Asbestos Potential within the dataset buffer:

Potential	Sym	Strat Name	Group	Formation	Scale	Min Age	Max Age	Rock Type	Dom Lith	Description	Dist	Dir
No records in buffer												

Atlas of Australian Soils

7 Pacific Street, Batemans Bay, NSW 2536



Soils

7 Pacific Street, Batemans Bay, NSW 2536

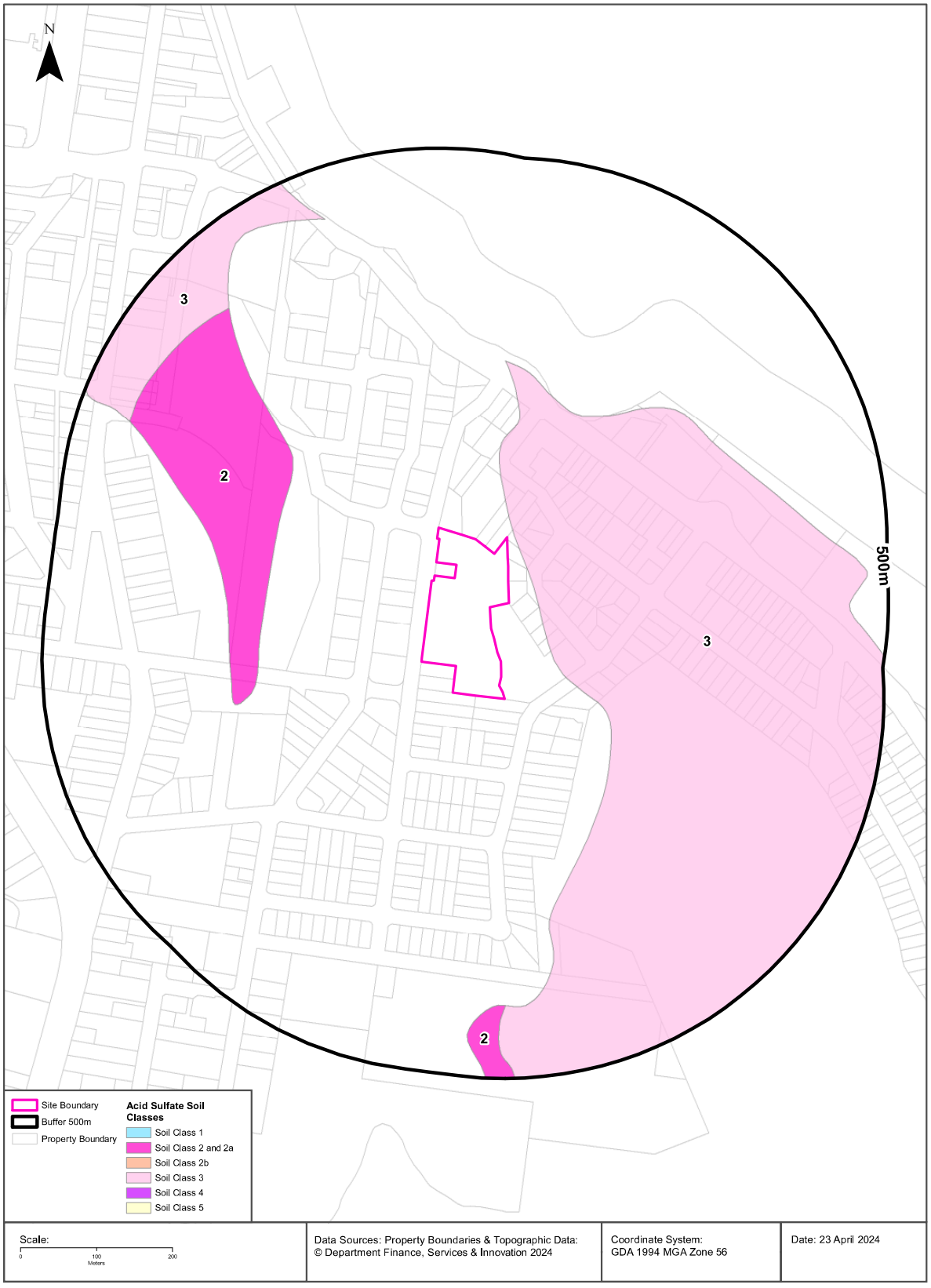
Atlas of Australian Soils

Soil mapping units and Australian Soil Classification orders within the dataset buffer:

Map Unit Code	Soil Order	Map Unit Description	Distance	Direction
Me2	Dermosol	Steep hilly to mountainous with incised stream valleys: steep but more or less rounded hill slopes of brown friable earths (Gn3.21 and Gn3.22) and possibly some (Gn4) soils, in association with: at the higher altitudes, steep hill slopes of sandy soils (Uc4.2), loamy soils having an A2 horizon (Um4.2) with yellow-brown earths (Gn2.44), and possibly (Uc6.11) and (Um5.41) soils; and at the lower altitudes, moderate to steep slopes of hard acidic yellow mottled soils (Dy3 21 and Dy3.41), hard acidic red soils (Dr2.21), and yellow leached friable earths (Gn3.54); and narrow incised stream valleys of various soils including (Um6.11) and (Dy) soils. This unit is a broad one. In some areas the (Um4.2) and (Gn2.44) soils and in others the (Dy) and (Dr) soils rather than the (Gn3 soils could be dominant.	0m	On-site

Acid Sulfate Soils

7 Pacific Street, Batemans Bay, NSW 2536



Acid Sulfate Soils

7 Pacific Street, Batemans Bay, NSW 2536

Environmental Planning Instrument - Acid Sulfate Soils

What is the on-site Acid Sulfate Soil Plan Class that presents the largest environmental risk?

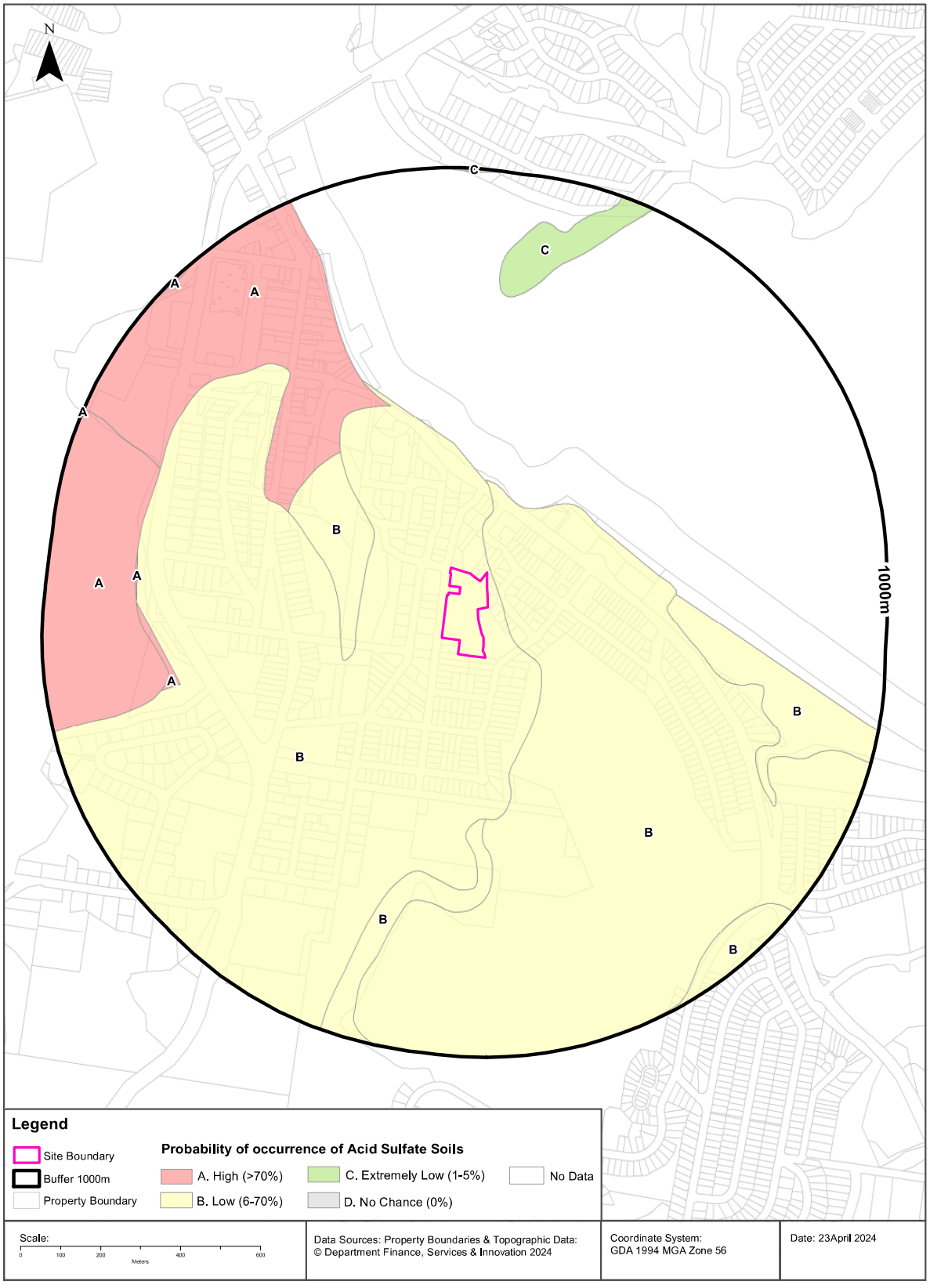
Soil Class	Description	EPI Name
N/A		

If the on-site Soil Class is 5, what other soil classes exist within 500m?

Soil Class	Description	EPI Name	Distance	Direction
N/A				

Atlas of Australian Acid Sulfate Soils

7 Pacific Street, Batemans Bay, NSW 2536



Acid Sulfate Soils

7 Pacific Street, Batemans Bay, NSW 2536

Atlas of Australian Acid Sulfate Soils

Atlas of Australian Acid Sulfate Soil categories within the dataset buffer:

Class	Description	Distance	Direction
B	Low Probability of occurrence. 6-70% chance of occurrence.	0m	On-site
C	Extremely low probability of occurrence. 1-5% chance of occurrence with occurrences in small localised areas.	692m	North
A	High Probability of occurrence. >70% chance of occurrence.	991m	North West

Dryland Salinity

7 Pacific Street, Batemans Bay, NSW 2536

Dryland Salinity - National Assessment

Is there Dryland Salinity - National Assessment data onsite?

No

Is there Dryland Salinity - National Assessment data within the dataset buffer?

No

What Dryland Salinity assessments are given?

Assessment 2000	Assessment 2020	Assessment 2050	Distance	Direction
N/A	N/A	N/A		

Dryland Salinity Data Source : National Land and Water Resources Audit
The Commonwealth and all suppliers of source data used to derive the maps of "Australia, Forecast Areas Containing Land of High Hazard or Risk of Dryland Salinity from 2000 to 2050" do not warrant the accuracy or completeness of information in this product. Any person using or relying upon such information does so on the basis that the Commonwealth and data suppliers shall bear no responsibility or liability whatsoever for any errors, faults, defects or omissions in the information. Any persons using this information do so at their own risk.
In many cases where a high risk is indicated, less than 100% of the area will have a high hazard or risk.

Mining

7 Pacific Street, Batemans Bay, NSW 2536

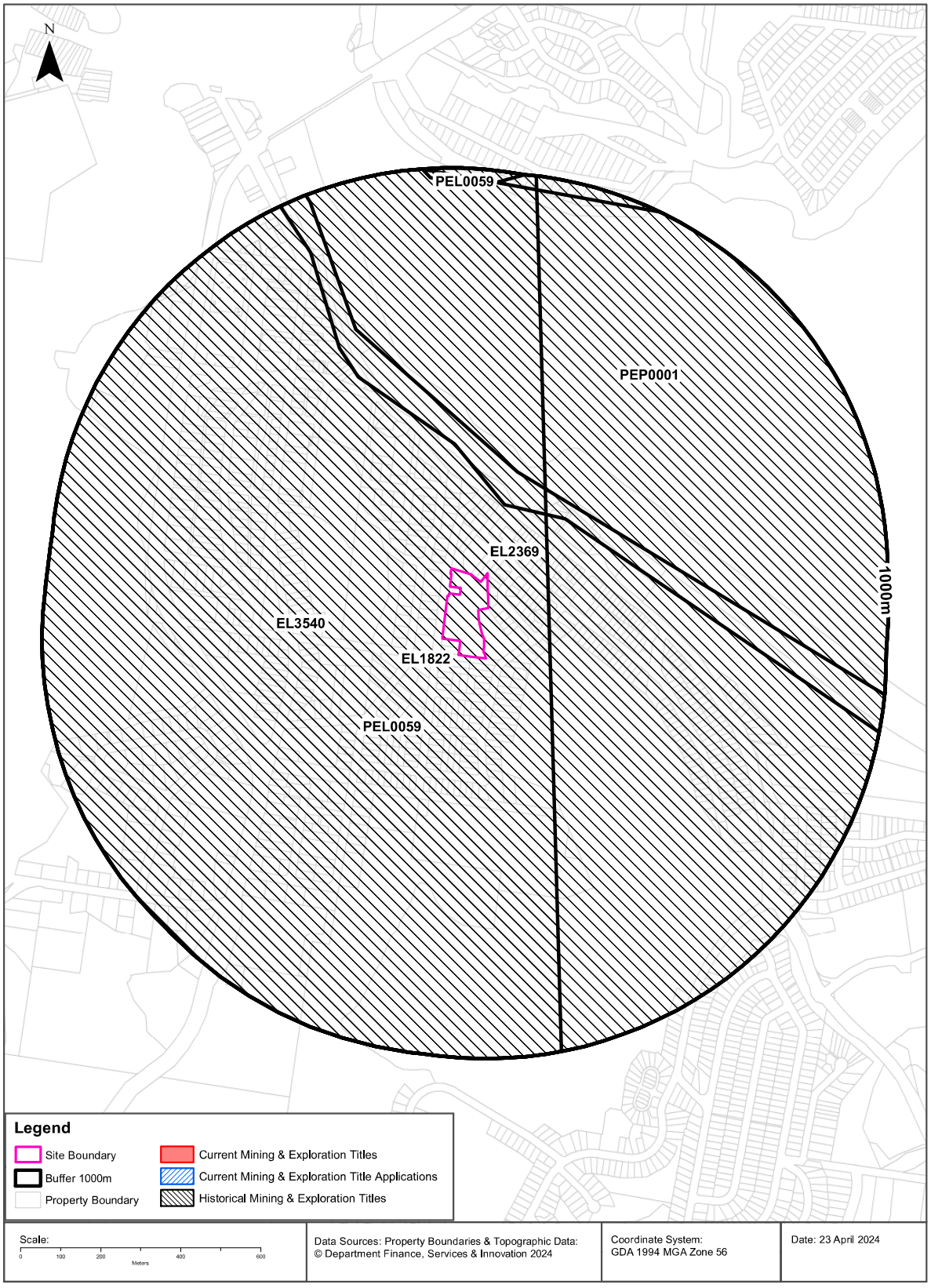
Mining Subsidence Districts

Mining Subsidence Districts within the dataset buffer:

District	Distance	Direction
There are no Mining Subsidence Districts within the report buffer		

Mining & Exploration Titles

7 Pacific Street, Batemans Bay, NSW 2536



Mining

7 Pacific Street, Batemans Bay, NSW 2536

Current Mining & Exploration Titles

Current Mining & Exploration Titles within the dataset buffer:

Title Ref	Holder	Grant Date	Expiry Date	Last Renewed	Operation	Resource	Minerals	Dist	Dir
N/A	No records in buffer								

Current Mining & Exploration Titles Data Source: © State of New South Wales through NSW Department of Industry

Current Mining & Exploration Title Applications

Current Mining & Exploration Title Applications within the dataset buffer:

Application Ref	Applicant	Application Date	Operation	Resource	Minerals	Dist	Dir
N/A	No records in buffer						

Current Mining & Exploration Title Applications Data Source: © State of New South Wales through NSW Department of Industry

Mining

7 Pacific Street, Batemans Bay, NSW 2536

Historical Mining & Exploration Titles

Historical Mining & Exploration Titles within the dataset buffer:

Title Ref	Holder	Start Date	End Date	Resource	Minerals	Dist	Dir
EL1822	RANGER OIL (AUST) LIMITED	19810301	19820301	MINERALS		0m	On-site
EL2369	VALLEY EXPLORATION PTY LIMITED	19830601	19870101	MINERALS	Au	0m	On-site
EL3540	PRIMARY INVESTMENTS PTY LIMITED	19900501	19900701	MINERALS	Au Ag Cu Pb Zn	0m	On-site
PEL0059	L H SMART OIL EXPLORATION CO. LTD			PETROLEUM	Petroleum	0m	On-site
PEP0001	MAGELLAN AND SOUTHERN PACIFIC PETROLEUM N.L.			PETROLEUM	Petroleum	255m	North East

State Environmental Planning Policy

7 Pacific Street, Batemans Bay, NSW 2536

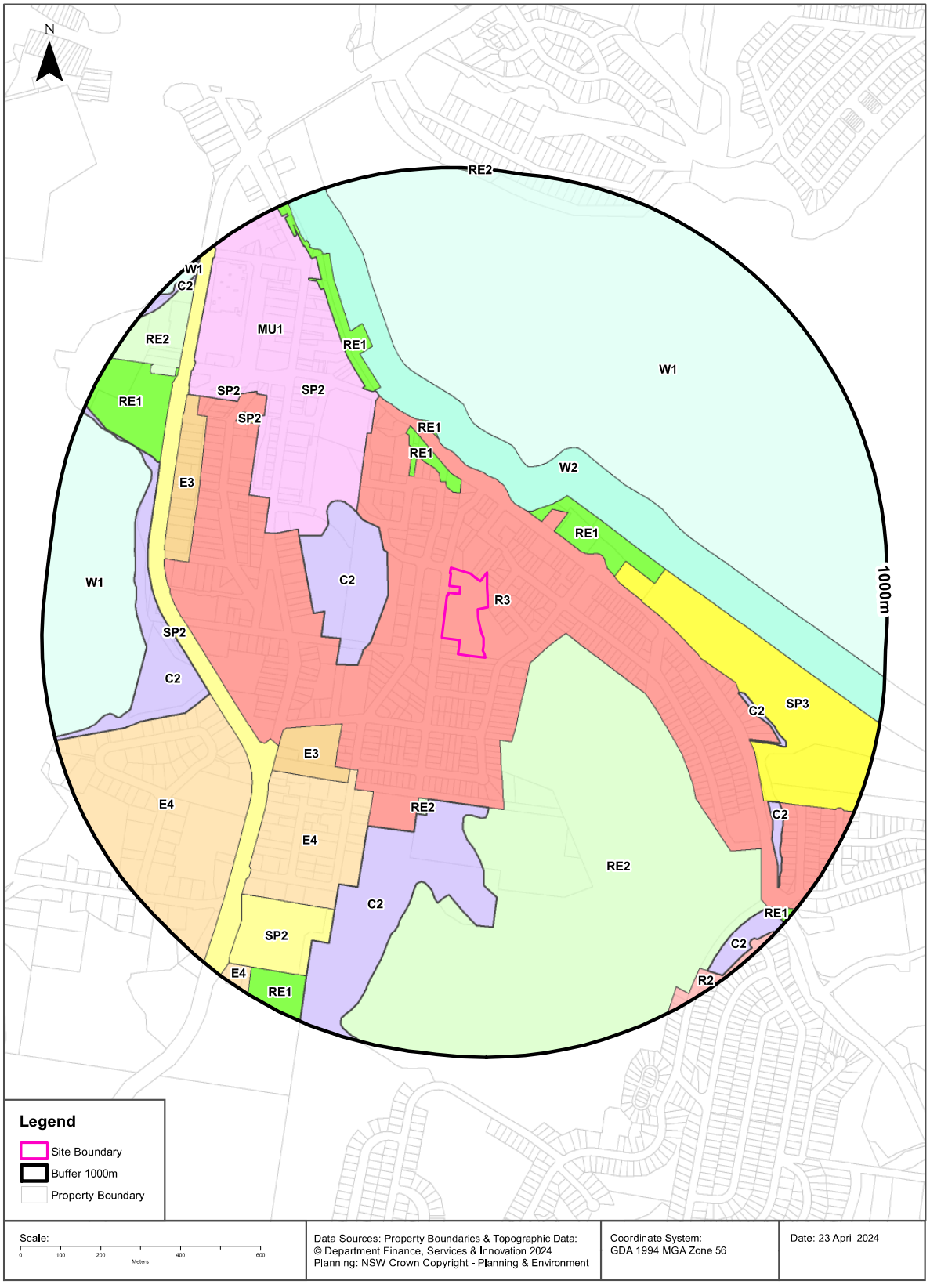
State Significant Precincts

What SEPP State Significant Precincts exist within the dataset buffer?

Map Id	Precinct	EPI Name	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
N/A	No records in buffer							

EPI Planning Zones

7 Pacific Street, Batemans Bay, NSW 2536



Environmental Planning Instrument

7 Pacific Street, Batemans Bay, NSW 2536

Land Zoning

What EPI Land Zones exist within the dataset buffer?

Zone	Description	Purpose	EPI Name	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
R3	Medium Density Residential		Eurobodalla Local Environmental Plan 2012	24/02/2023	26/04/2023	26/04/2023	State Environmental Planning Policy Amendment (Land Use Zones) 2023	0m	On-site
RE2	Private Recreation		Eurobodalla Local Environmental Plan 2012	24/02/2023	26/04/2023	26/04/2023	State Environmental Planning Policy Amendment (Land Use Zones) 2023	112m	South
C2	Environmental Conservation		Eurobodalla Local Environmental Plan 2012	24/02/2023	26/04/2023	26/04/2023	State Environmental Planning Policy Amendment (Land Use Zones) 2023	146m	West
W2	Recreational Waterways		Eurobodalla Local Environmental Plan 2012	24/02/2023	26/04/2023	26/04/2023	State Environmental Planning Policy Amendment (Land Use Zones) 2023	183m	North East
RE1	Public Recreation		Eurobodalla Local Environmental Plan 2012	24/02/2023	26/04/2023	26/04/2023	State Environmental Planning Policy Amendment (Land Use Zones) 2023	184m	North East
RE1	Public Recreation		Eurobodalla Local Environmental Plan 2012	24/02/2023	26/04/2023	26/04/2023	State Environmental Planning Policy Amendment (Land Use Zones) 2023	188m	North
MU1	Mixed Use		Eurobodalla Local Environmental Plan 2012	24/02/2023	26/04/2023	26/04/2023	State Environmental Planning Policy Amendment (Land Use Zones) 2023	272m	North West
W1	Natural Waterways		Eurobodalla Local Environmental Plan 2012	24/02/2023	26/04/2023	26/04/2023	State Environmental Planning Policy Amendment (Land Use Zones) 2023	284m	North East
SP3	Tourist		Eurobodalla Local Environmental Plan 2012	24/02/2023	26/04/2023	26/04/2023	State Environmental Planning Policy Amendment (Land Use Zones) 2023	319m	East

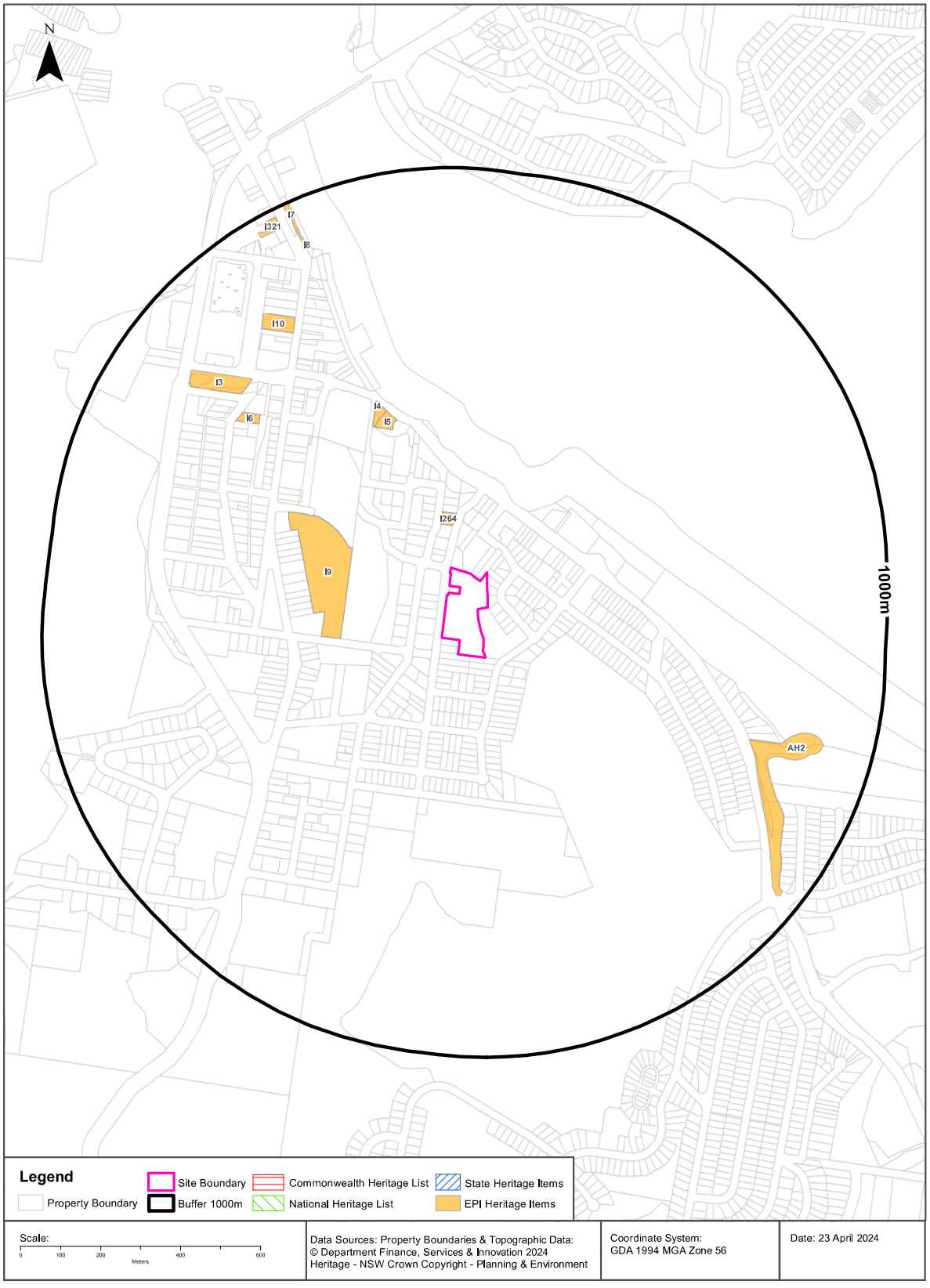
Zone	Description	Purpose	EPI Name	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
RE1	Public Recreation		Eurobodalla Local Environmental Plan 2012	24/02/2023	26/04/2023	26/04/2023	State Environmental Planning Policy Amendment (Land Use Zones) 2023	322m	North
E3	Productivity Support		Eurobodalla Local Environmental Plan 2012	24/02/2023	26/04/2023	26/04/2023	State Environmental Planning Policy Amendment (Land Use Zones) 2023	328m	South West
C2	Environmental Conservation		Eurobodalla Local Environmental Plan 2012	24/02/2023	26/04/2023	26/04/2023	State Environmental Planning Policy Amendment (Land Use Zones) 2023	370m	South
RE2	Private Recreation		Eurobodalla Local Environmental Plan 2012	24/02/2023	26/04/2023	26/04/2023	State Environmental Planning Policy Amendment (Land Use Zones) 2023	370m	South
E4	General Industrial		Eurobodalla Local Environmental Plan 2012	24/02/2023	26/04/2023	26/04/2023	State Environmental Planning Policy Amendment (Land Use Zones) 2023	383m	South West
RE1	Public Recreation		Eurobodalla Local Environmental Plan 2012	24/02/2023	26/04/2023	26/04/2023	State Environmental Planning Policy Amendment (Land Use Zones) 2023	481m	North West
SP2	Infrastructure	Classified Road	Eurobodalla Local Environmental Plan 2012	24/02/2023	26/04/2023	26/04/2023	State Environmental Planning Policy Amendment (Land Use Zones) 2023	489m	West
SP2	Infrastructure	Classified Road	Eurobodalla Local Environmental Plan 2012	24/02/2023	26/04/2023	26/04/2023	State Environmental Planning Policy Amendment (Land Use Zones) 2023	545m	North West
E4	General Industrial		Eurobodalla Local Environmental Plan 2012	24/02/2023	26/04/2023	26/04/2023	State Environmental Planning Policy Amendment (Land Use Zones) 2023	566m	South West
C2	Environmental Conservation		Eurobodalla Local Environmental Plan 2012	24/02/2023	26/04/2023	26/04/2023	State Environmental Planning Policy Amendment (Land Use Zones) 2023	595m	West
SP2	Infrastructure	Cemetery	Eurobodalla Local Environmental Plan 2012	24/02/2023	26/04/2023	26/04/2023	State Environmental Planning Policy Amendment (Land Use Zones) 2023	599m	North West

Zone	Description	Purpose	EPI Name	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
C2	Environmental Conservation		Eurobodalla Local Environmental Plan 2012	24/02/2023	26/04/2023	26/04/2023	State Environmental Planning Policy Amendment (Land Use Zones) 2023	638m	East
E3	Productivity Support		Eurobodalla Local Environmental Plan 2012	24/02/2023	26/04/2023	26/04/2023	State Environmental Planning Policy Amendment (Land Use Zones) 2023	649m	North West
SP2	Infrastructure	Cemetery	Eurobodalla Local Environmental Plan 2012	24/02/2023	26/04/2023	26/04/2023	State Environmental Planning Policy Amendment (Land Use Zones) 2023	695m	North West
SP2	Infrastructure	Cemetery	Eurobodalla Local Environmental Plan 2012	24/02/2023	26/04/2023	26/04/2023	State Environmental Planning Policy Amendment (Land Use Zones) 2023	709m	South West
W1	Natural Waterways		Eurobodalla Local Environmental Plan 2012	24/02/2023	26/04/2023	26/04/2023	State Environmental Planning Policy Amendment (Land Use Zones) 2023	737m	West
RE1	Public Recreation		Eurobodalla Local Environmental Plan 2012	24/02/2023	26/04/2023	26/04/2023	State Environmental Planning Policy Amendment (Land Use Zones) 2023	772m	North West
C2	Environmental Conservation		Eurobodalla Local Environmental Plan 2012	24/02/2023	26/04/2023	26/04/2023	State Environmental Planning Policy Amendment (Land Use Zones) 2023	792m	South East
RE2	Private Recreation		Eurobodalla Local Environmental Plan 2012	24/02/2023	26/04/2023	26/04/2023	State Environmental Planning Policy Amendment (Land Use Zones) 2023	838m	North West
RE1	Public Recreation		Eurobodalla Local Environmental Plan 2012	24/02/2023	26/04/2023	26/04/2023	State Environmental Planning Policy Amendment (Land Use Zones) 2023	890m	South West
C2	Environmental Conservation		Eurobodalla Local Environmental Plan 2012	24/02/2023	26/04/2023	26/04/2023	State Environmental Planning Policy Amendment (Land Use Zones) 2023	926m	South East
E4	General Industrial		Eurobodalla Local Environmental Plan 2012	24/02/2023	26/04/2023	26/04/2023	State Environmental Planning Policy Amendment (Land Use Zones) 2023	938m	South West

Zone	Description	Purpose	EPI Name	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
R2	Low Density Residential		Eurobodalla Local Environmental Plan 2012	24/02/2023	26/04/2023	26/04/2023	State Environmental Planning Policy Amendment (Land Use Zones) 2023	944m	South East
RE1	Public Recreation		Eurobodalla Local Environmental Plan 2012	24/02/2023	26/04/2023	26/04/2023	State Environmental Planning Policy Amendment (Land Use Zones) 2023	959m	South East
RE2	Private Recreation		Eurobodalla Local Environmental Plan 2012	24/02/2023	26/04/2023	26/04/2023	State Environmental Planning Policy Amendment (Land Use Zones) 2023	992m	North

Heritage Items

7 Pacific Street, Batemans Bay, NSW 2536



Heritage

7 Pacific Street, Batemans Bay, NSW 2536

Commonwealth Heritage List

What are the Commonwealth Heritage List Items located within the dataset buffer?

Place Id	Name	Address	Place File No	Class	Status	Register Date	Distance	Direction
N/A	No records in buffer							

Heritage Data Source: Australian Government Department of the Environment and Energy - Heritage Branch
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National Heritage List

What are the National Heritage List Items located within the dataset buffer?
Note. Please click on Place Id to activate a hyperlink to online website.

Place Id	Name	Address	Place File No	Class	Status	Register Date	Distance	Direction
N/A	No records in buffer							

Heritage Data Source: Australian Government Department of the Environment and Energy - Heritage Branch
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State Heritage Register - Curtilages

What are the State Heritage Register Items located within the dataset buffer?

Map Id	Name	Address	LGA	Listing Date	Listing No	Plan No	Distance	Direction
N/A	No records in buffer							

Heritage Data Source: NSW Crown Copyright - Office of Environment & Heritage
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Environmental Planning Instrument - Heritage

What are the EPI Heritage Items located within the dataset buffer?

Map Id	Name	Classification	Significance	EPI Name	Published Date	Commenced Date	Currency Date	Distance	Direction
I264	Ocean View House	Item - General	Local	Eurobodalla Local Environmental Plan 2012	07/11/2014	07/11/2014	27/10/2023	105m	North
I9	Former courthouse, police station and police residence	Item - General	Local	Eurobodalla Local Environmental Plan 2012	20/07/2012	20/07/2012	27/10/2023	250m	West
I5	CWA Hall/Former public school	Item - General	Local	Eurobodalla Local Environmental Plan 2012	20/07/2012	20/07/2012	27/10/2023	373m	North West

Map Id	Name	Classification	Significance	EPI Name	Published Date	Commenced Date	Currency Date	Distance	Direction
I4	Former Teachers residence	Item - General	Local	Eurobodalla Local Environmental Plan 2012	20/07/2012	20/07/2012	27/10/2023	400m	North West
I6	Roman Catholic Cemetery	Item - General	Local	Eurobodalla Local Environmental Plan 2012	20/07/2012	20/07/2012	27/10/2023	599m	North West
I3	Presbyterian Cemetery	Item - General	Local	Eurobodalla Local Environmental Plan 2012	20/07/2012	20/07/2012	27/10/2023	680m	North West
AH2	Hanging Rock Place of Aboriginal Heritage Significance	Conservation Area - Aboriginal	Local	Eurobodalla Local Environmental Plan 2012	20/07/2012	20/07/2012	27/10/2023	691m	South East
I10	Bay View Hotel	Item - General	Local	Eurobodalla Local Environmental Plan 2012	20/07/2012	20/07/2012	27/10/2023	706m	North West
I8	The boatshed and jetty	Item - General	Local	Eurobodalla Local Environmental Plan 2012	20/07/2012	20/07/2012	27/10/2023	876m	North West
I7	Coal bunker wharf	Item - General	Local	Eurobodalla Local Environmental Plan 2012	20/07/2012	20/07/2012	27/10/2023	883m	North West
I321	Francis Guy's Residence and Store (former)	Item - General	Local	Eurobodalla Local Environmental Plan 2012	11/05/2018	11/05/2018	27/10/2023	944m	North West

Natural Hazards - Bush Fire Prone Land

7 Pacific Street, Batemans Bay, NSW 2536

Natural Hazards

7 Pacific Street, Batemans Bay, NSW 2536

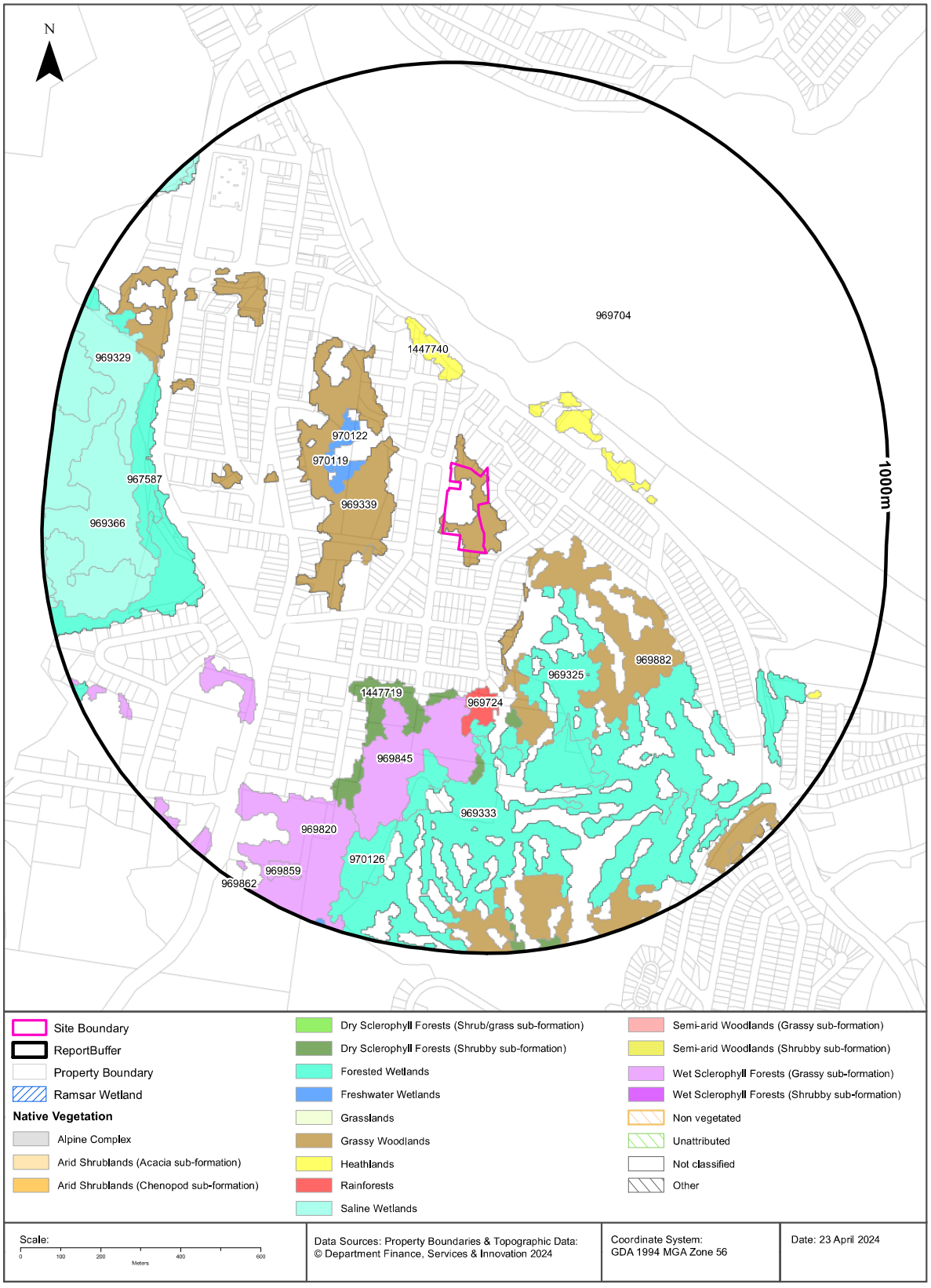
Bush Fire Prone Land

What are the nearest Bush Fire Prone Land Categories that exist within the dataset buffer?

Bush Fire Prone Land Category	Distance	Direction
Vegetation Buffer	109m	West
Vegetation Category 2	139m	West
Vegetation Category 1	372m	South

Ecological Constraints - Vegetation & Ramsar Wetlands

7 Pacific Street, Batemans Bay, NSW 2536



Ecological Constraints

7 Pacific Street, Batemans Bay, NSW 2536

Native Vegetation

What native vegetation exists within the dataset buffer?

Map ID	Vegetation Formation	Plant Community Type and Vegetation Formation	Vegetation Class	Dist	Dir
969339	Grassy Woodlands	(Grassy Woodlands) South Coast Low Hills Red Gum Grassy Forest	Coastal Valley Grassy Woodlands	0m	On-site
969704	Not classified	(Not classified) Not classified	Not classified	0m	On-site
969882	Grassy Woodlands	(Grassy Woodlands) South Coast Lowland Woollybutt Grassy Forest	Coastal Valley Grassy Woodlands	103m	South East
969325	Forested Wetlands	(Forested Wetlands) Estuarine Swamp Oak Twig-rush Forest	Coastal Floodplain Wetlands	165m	South
1447740	Heathlands	(Heathlands) Coastal Foredune Wattle Scrub	Coastal Headland Heaths	173m	North East
970122	Freshwater Wetlands	(Freshwater Wetlands) Southern Lower Floodplain Freshwater Wetland	Coastal Freshwater Lagoons	211m	West
970119	Freshwater Wetlands	(Freshwater Wetlands) Estuarine Reedland	Coastal Freshwater Lagoons	277m	West
969724	Rainforests	(Rainforests) South Coast Temperate Gully Rainforest	Southern Warm Temperate Rainforests	332m	South
1447719	Dry Sclerophyll Forests (Shrubby sub-formation)	(Dry Sclerophyll Forests (Shrubby sub-formation)) South Coast Lowland Blackbutt Forest	South East Dry Sclerophyll Forests	344m	South
969845	Wet Sclerophyll Forests (Grassy sub-formation)	(Wet Sclerophyll Forests (Grassy sub-formation)) South Coast Spotted Gum Moist Forest	Southern Lowland Wet Sclerophyll Forests	358m	South
969333	Forested Wetlands	(Forested Wetlands) South Coast Floodplain Grassy Swamp Forest	Coastal Floodplain Wetlands	449m	South
970126	Forested Wetlands	(Forested Wetlands) Shoalhaven Lowland Flats Wet Swamp Forest	Coastal Swamp Forests	505m	South
969820	Wet Sclerophyll Forests (Grassy sub-formation)	(Wet Sclerophyll Forests (Grassy sub-formation)) South Coast Lowland Shrub-Grass Forest	Southern Lowland Wet Sclerophyll Forests	595m	South West
967587	Forested Wetlands	(Forested Wetlands) Estuarine Sea Rush Swamp Oak Forest	Coastal Floodplain Wetlands	700m	West
969366	Saline Wetlands	(Saline Wetlands) Grey Mangrove-River Mangrove Forest	Mangrove Swamps	710m	West
969329	Saline Wetlands	(Saline Wetlands) South Coast Selliera-Sea Rush Swamp Oak Saltmarsh	Saltmarshes	733m	West
969859	Wet Sclerophyll Forests (Grassy sub-formation)	(Wet Sclerophyll Forests (Grassy sub-formation)) South Coast Spotted Gum Cycad Dry Forest	Southern Lowland Wet Sclerophyll Forests	879m	South West
969862	Wet Sclerophyll Forests (Grassy sub-formation)	(Wet Sclerophyll Forests (Grassy sub-formation)) South Coast Stringybark Cycad Exposed Forest	Southern Lowland Wet Sclerophyll Forests	996m	South West

Ecological Constraints

7 Pacific Street, Batemans Bay, NSW 2536

Ramsar Wetlands

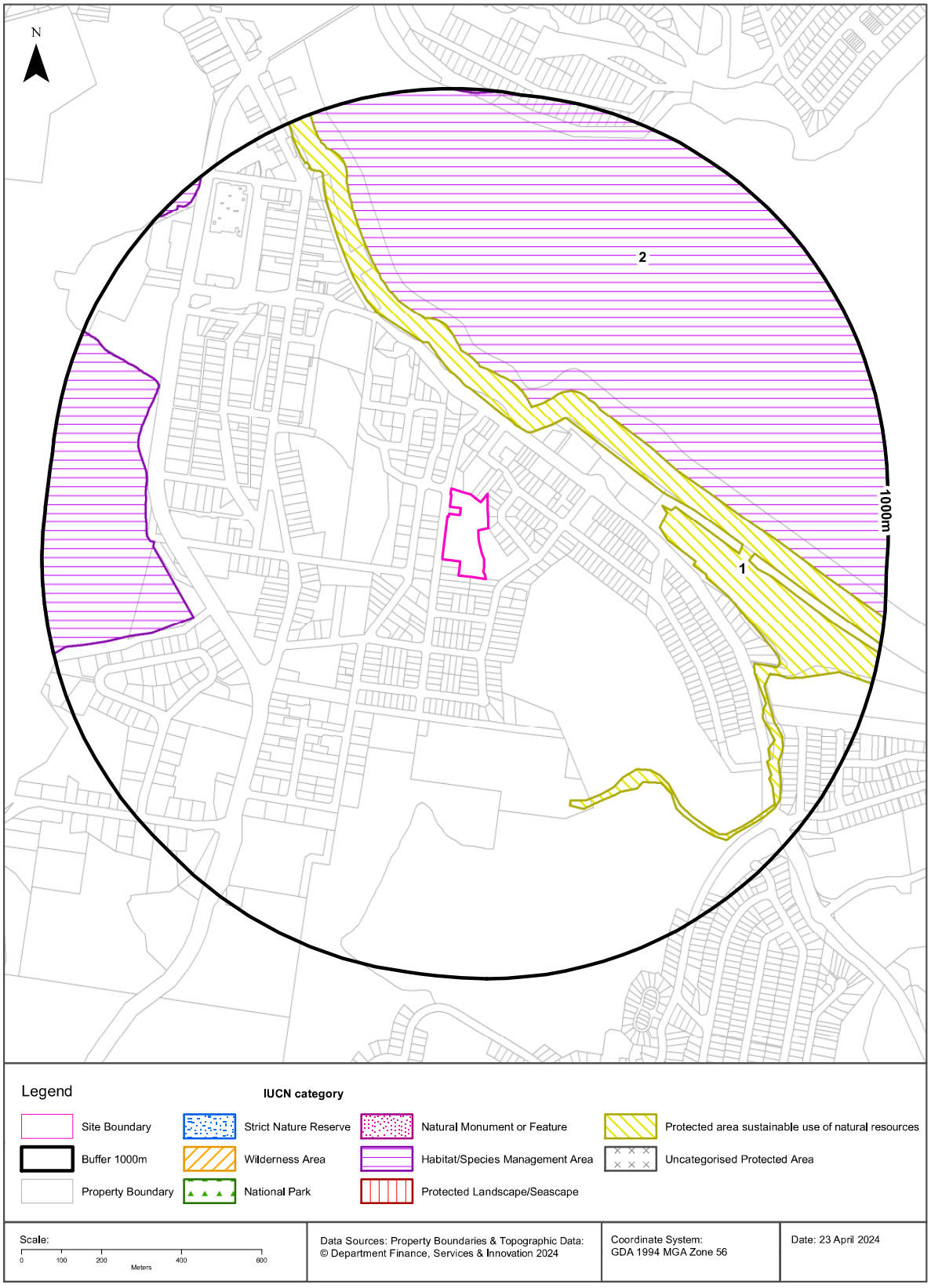
What Ramsar Wetland areas exist within the dataset buffer?

Map ID	Ramsar Name	Wetland Name	Designation Date	Source	Distance	Direction
N/A	No records in buffer					

Ramsar Wetlands Data Source: © Commonwealth of Australia - Department of Agriculture, Water and the Environment

Ecological Constraints - Protected Areas

7 Pacific Street, Batemans Bay, NSW 2536



Ecological Constraints

7 Pacific Street, Batemans Bay, NSW 2536

Collaborative Australian Protected Areas Database - Terrestrial

Protected areas in terrestrial environments identified by the CAPAD within the dataset buffer:

Map ID	Area Name	Area Details	Management Category	Authority	Jurisdiction	Dist	Dir
N/A	No records in buffer						

Collaborative Australian Protected Areas Database - Marine

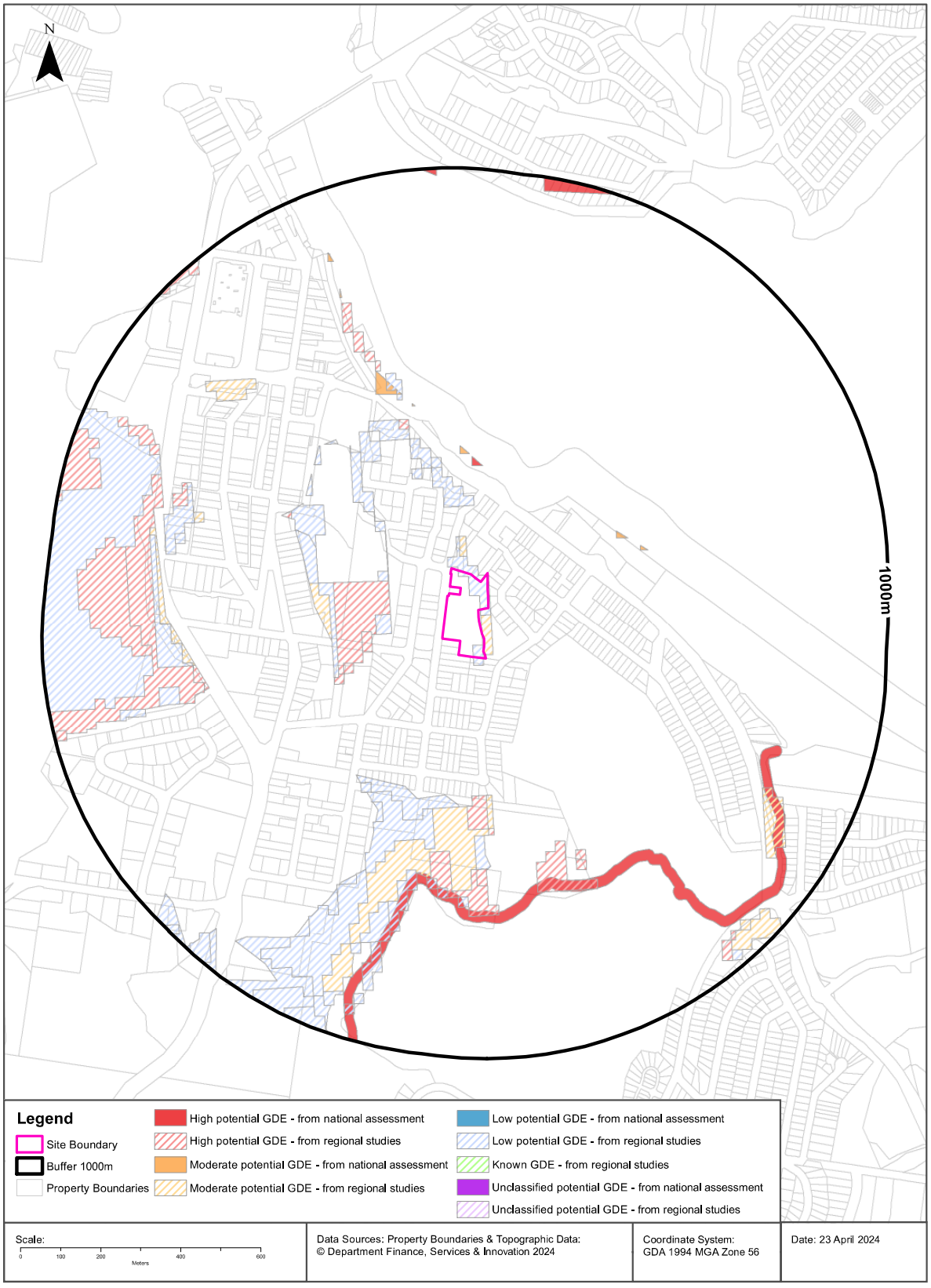
Protected areas in marine environments identified by the CAPAD within the dataset buffer:

Map ID	Area Name	Area Details	Management Category	Authority	Jurisdiction	Dist	Dir
1	Batemans	Marine Park	Protected area with sustainable use of natural resources	NSW Department of Primary Industries	State	183m	East
2	Batemans	Marine Park	Habitat/Species Management Area	NSW Department of Primary Industries	State	244m	North

Source: Collaborative Australian Protected Areas Database (CAPAD) 2022

Ecological Constraints - Groundwater Dependent Ecosystems Atlas

7 Pacific Street, Batemans Bay, NSW 2536



Ecological Constraints

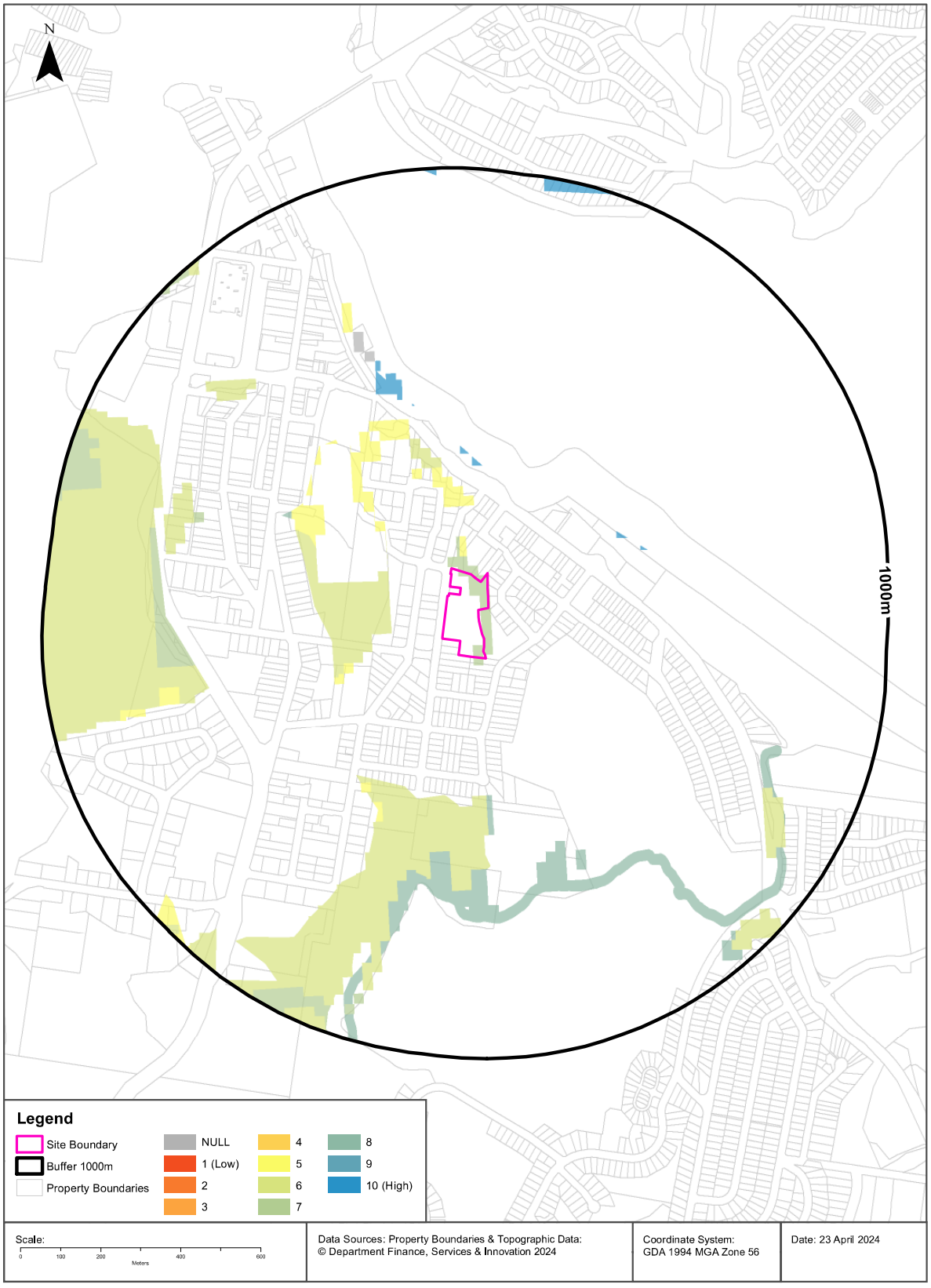
7 Pacific Street, Batemans Bay, NSW 2536

Groundwater Dependent Ecosystems Atlas

Type	GDE Potential	Geomorphology	Ecosystem Type	Aquifer Geology	Distance	Direction
Terrestrial	Low potential GDE - from regional studies	Deeply dissected steeply sloping plateau margin in metamorphics and granite. Bounded in the west by the Great Escarpment.	Vegetation		0m	On-site
Terrestrial	Moderate potential GDE - from regional studies	Deeply dissected steeply sloping plateau margin in metamorphics and granite. Bounded in the west by the Great Escarpment.	Vegetation		0m	On-site
Terrestrial	High potential GDE - from regional studies	Deeply dissected steeply sloping plateau margin in metamorphics and granite. Bounded in the west by the Great Escarpment.	Vegetation		135m	West
Aquatic	High potential GDE - from national assessment	Deeply dissected steeply sloping plateau margin in metamorphics and granite. Bounded in the west by the Great Escarpment.	Wetland	Consolidated sedimentary	261m	North
Aquatic	Moderate potential GDE - from national assessment	Deeply dissected steeply sloping plateau margin in metamorphics and granite. Bounded in the west by the Great Escarpment.	Wetland	Consolidated sedimentary	286m	North
Aquatic	Moderate potential GDE - from national assessment		Wetland	Unconsolidated sedimentary	334m	North East
Aquatic	Moderate potential GDE - from national assessment		Wetland	Consolidated sedimentary	415m	North
Terrestrial	Low potential GDE - from regional studies		Vegetation		438m	North
Terrestrial	High potential GDE - from regional studies		Vegetation		523m	North
Aquatic	High potential GDE - from national assessment	Deeply dissected steeply sloping plateau margin in metamorphics and granite. Bounded in the west by the Great Escarpment.	River		551m	South East
Aquatic	High potential GDE - from national assessment	Deeply dissected steeply sloping plateau margin in metamorphics and granite. Bounded in the west by the Great Escarpment.	Wetland		992m	North West

Ecological Constraints - Inflow Dependent Ecosystems Likelihood

7 Pacific Street, Batemans Bay, NSW 2536



Ecological Constraints

7 Pacific Street, Batemans Bay, NSW 2536

Inflow Dependent Ecosystems Likelihood

Type	IDE Likelihood	Geomorphology	Ecosystem Type	Aquifer Geology	Distance	Direction
Terrestrial	7	Deeply dissected steeply sloping plateau margin in metamorphics and granite. Bounded in the west by the Great Escarpment.	Vegetation		0m	On-site
Terrestrial	5	Deeply dissected steeply sloping plateau margin in metamorphics and granite. Bounded in the west by the Great Escarpment.	Vegetation		35m	North
Terrestrial	6	Deeply dissected steeply sloping plateau margin in metamorphics and granite. Bounded in the west by the Great Escarpment.	Vegetation		126m	West
Aquatic	10	Deeply dissected steeply sloping plateau margin in metamorphics and granite. Bounded in the west by the Great Escarpment.	Wetland	Consolidated sedimentary	261m	North
Aquatic	10		Wetland	Unconsolidated sedimentary	334m	North East
Terrestrial	8	Deeply dissected steeply sloping plateau margin in metamorphics and granite. Bounded in the west by the Great Escarpment.	Vegetation		341m	South
Aquatic	10		Wetland	Consolidated sedimentary	415m	North
Terrestrial	10		Vegetation		438m	North
Aquatic	8	Deeply dissected steeply sloping plateau margin in metamorphics and granite. Bounded in the west by the Great Escarpment.	River		551m	South East
Terrestrial			Vegetation		551m	North
Terrestrial	5		Vegetation		638m	North
Aquatic	0		Wetland	Consolidated sedimentary	728m	North
Aquatic	10	Deeply dissected steeply sloping plateau margin in metamorphics and granite. Bounded in the west by the Great Escarpment.	Wetland		992m	North West

Ecological Constraints

7 Pacific Street, Batemans Bay, NSW 2536

NSW BioNet Atlas

Species on the NSW BioNet Atlas that have a NSW or federal conservation status, a NSW sensitivity status, or are listed under a migratory species agreement, and are within 10km of the site?

Kingdom	Class	Scientific	Common	NSW Conservation Status	NSW Sensitivity Class	Federal Conservation Status	Migratory Species Agreements
Animalia	Amphibia	Litoria aurea	Green and Golden Bell Frog	Endangered	Not Sensitive	Vulnerable	
Animalia	Aves	Anthochaera phrygia	Regent Honeyeater	Critically Endangered	Category 2	Critically Endangered	
Animalia	Aves	Ardenna carneipes	Flesh-footed Shearwater	Vulnerable	Not Sensitive	Not Listed	ROKAMBA;JAMBA
Animalia	Aves	Ardenna grisea	Sooty Shearwater	Not Listed	Not Sensitive	Not Listed	JAMBA
Animalia	Aves	Ardenna pacifica	Wedge-tailed Shearwater	Not Listed	Not Sensitive	Not Listed	JAMBA
Animalia	Aves	Ardenna tenuirostris	Short-tailed Shearwater	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Arenaria interpres	Ruddy Turnstone	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Artamus cyanopterus cyanopterus	Dusky Woodswallow	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Calidris alba	Sanderling	Vulnerable	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Callocephalon fimbriatum	Gang-gang Cockatoo	Vulnerable	Category 3	Endangered	
Animalia	Aves	Calyptorhynchus lathami lathami	South-eastern Glossy Black-Cockatoo	Vulnerable	Category 2	Vulnerable	
Animalia	Aves	Climacteris picumnus victoriae	Brown Treecreeper (eastern subspecies)	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Daphoenositta chrysoptera	Varied Sittella	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Esacus magnirostris	Beach Stone-curlew	Critically Endangered	Not Sensitive	Not Listed	
Animalia	Aves	Fregetta grallaria	White-bellied Storm-Petrel	Vulnerable	Not Sensitive	Vulnerable	
Animalia	Aves	Gallinago hardwickii	Latham's Snipe	Not Listed	Not Sensitive	Not Listed	ROKAMBA;JAMBA
Animalia	Aves	Glossopsitta pusilla	Little Lorikeet	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Haematopus fuliginosus	Sooty Oystercatcher	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Haematopus longirostris	Pied Oystercatcher	Endangered	Not Sensitive	Not Listed	
Animalia	Aves	Haliaeetus leucogaster	White-bellied Sea-Eagle	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Hieraaetus morphnoides	Little Eagle	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Hirundapus caudacutus	White-throated Needletail	Not Listed	Not Sensitive	Vulnerable	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Hydroprogne caspia	Caspian Tern	Not Listed	Not Sensitive	Not Listed	JAMBA
Animalia	Aves	Ixobrychus flavicollis	Black Bittern	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Lathamus discolor	Swift Parrot	Endangered	Not Sensitive	Critically Endangered	
Animalia	Aves	Limosa lapponica	Bar-tailed Godwit	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA

Kingdom	Class	Scientific	Common	NSW Conservation Status	NSW Sensitivity Class	Federal Conservation Status	Migratory Species Agreements
Animalia	Aves	Lophoictinia isura	Square-tailed Kite	Vulnerable	Category 3	Not Listed	
Animalia	Aves	Macronectes giganteus	Southern Giant Petrel	Endangered	Not Sensitive	Endangered	
Animalia	Aves	Ninox connivens	Barking Owl	Vulnerable	Category 3	Not Listed	
Animalia	Aves	Ninox strenua	Powerful Owl	Vulnerable	Category 3	Not Listed	
Animalia	Aves	Numenius madagascariensis	Eastern Curlew	Not Listed	Not Sensitive	Critically Endangered	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Numenius phaeopus	Whimbrel	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Onychoprion fuscata	Sooty Tern	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Pachycephala olivacea	Olive Whistler	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Pandion cristatus	Eastern Osprey	Vulnerable	Category 3	Not Listed	
Animalia	Aves	Petroica boodang	Scarlet Robin	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Pluvialis fulva	Pacific Golden Plover	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Pluvialis squatarola	Grey Plover	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Pterodroma solandri	Providence Petrel	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Ptilinopus superbus	Superb Fruit-Dove	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Puffinus assimilis	Little Shearwater	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Pycnoptilus floccosus	Pilotbird	Not Listed	Not Sensitive	Vulnerable	
Animalia	Aves	Rhipidura fuliginosa	New Zealand Fantail (Lord Howe Is. subsp.)	Extinct	Not Sensitive	Extinct	
Animalia	Aves	Rhipidura fuliginosa	New Zealand Fantail (Lord Howe Is. subsp.)	Presumed Extinct	Not Sensitive	Extinct	
Animalia	Aves	Stercorarius parasiticus	Arctic Jaeger	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Stercorarius pomarinus	Pomarine Jaeger	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Sterna hirundo	Common Tern	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Thalassarche melanophris	Black-browed Albatross	Vulnerable	Not Sensitive	Vulnerable	
Animalia	Aves	Thalasseus bergii	Crested Tern	Not Listed	Not Sensitive	Not Listed	JAMBA
Animalia	Aves	Thinornis cucullatus cucullatus	Eastern Hooded Dotterel	Critically Endangered	Not Sensitive	Vulnerable	
Animalia	Aves	Tyto novaehollandiae	Masked Owl	Vulnerable	Category 3	Not Listed	
Animalia	Aves	Tyto tenebricosa	Sooty Owl	Vulnerable	Category 3	Not Listed	
Animalia	Mammalia	Arctocephalus forsteri	New Zealand Fur-seal	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Arctocephalus pusillus doriferus	Australian Fur-seal	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Cercartetus nanus	Eastern Pygmy-possum	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Chalinolobus dwyeri	Large-eared Pied Bat	Vulnerable	Not Sensitive	Vulnerable	
Animalia	Mammalia	Dasyurus maculatus	Spotted-tailed Quoll	Vulnerable	Not Sensitive	Endangered	
Animalia	Mammalia	Eubalaena australis	Southern Right Whale	Endangered	Not Sensitive	Endangered	
Animalia	Mammalia	Falsistrellus tasmaniensis	Eastern False Pipistrelle	Vulnerable	Not Sensitive	Not Listed	

Kingdom	Class	Scientific	Common	NSW Conservation Status	NSW Sensitivity Class	Federal Conservation Status	Migratory Species Agreements
Animalia	Mammalia	Isoodon obesulus obesulus	Southern Brown Bandicoot (eastern)	Endangered	Not Sensitive	Endangered	
Animalia	Mammalia	Micronomus norfolkensis	Eastern Coastal Free-tailed Bat	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Miniopterus australis	Little Bent-winged Bat	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Miniopterus orianae oceanensis	Large Bent-winged Bat	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Myotis macropus	Southern Myotis	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Petauroides volans	Southern Greater Glider	Endangered	Not Sensitive	Endangered	
Animalia	Mammalia	Petaurus australis	Yellow-bellied Glider	Vulnerable	Not Sensitive	Vulnerable	
Animalia	Mammalia	Petaurus australis	Yellow-bellied Glider	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Petaurus norfolcensis	Squirrel Glider	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Phascogale tapoatafa	Brush-tailed Phascogale	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Phascolarctos cinereus	Koala	Endangered	Not Sensitive	Endangered	
Animalia	Mammalia	Physeter macrocephalus	Sperm Whale	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Pteropus poliocephalus	Grey-headed Flying-fox	Vulnerable	Not Sensitive	Vulnerable	
Animalia	Mammalia	Saccolaimus flaviventris	Yellow-bellied Sheathtail-bat	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Scoteanax rueppellii	Greater Broad-nosed Bat	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Sminthopsis leucopus	White-footed Dunnart	Vulnerable	Not Sensitive	Not Listed	
Animalia	Reptilia	Caretta caretta	Loggerhead Turtle	Endangered	Not Sensitive	Endangered	
Animalia	Reptilia	Chelonia mydas	Green Turtle	Vulnerable	Not Sensitive	Vulnerable	
Animalia	Reptilia	Dermochelys coriacea	Leatherback Turtle	Endangered	Not Sensitive	Endangered	
Animalia	Reptilia	Eretmochelys imbricata	Hawksbill Turtle	Not Listed	Not Sensitive	Vulnerable	
Plantae	Flora	Correa baeuerlenii	Chef's Cap Correa	Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	Cryptostylis hunteriana	Leafless Tongue Orchid	Vulnerable	Category 2	Vulnerable	
Plantae	Flora	Eucalyptus kartzoffiana	Araluen Gum	Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	Galium australe	Tangled Bedstraw	Endangered	Not Sensitive	Not Listed	
Plantae	Flora	Genoplesium vernale	East Lynne Midge Orchid	Vulnerable	Category 2	Vulnerable	
Plantae	Flora	Persicaria elatior	Tall Knotweed	Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	Pomaderris bodalla	Bodalla Pomaderris	Vulnerable	Not Sensitive	Not Listed	
Plantae	Flora	Rhodamnia rubescens	Scrub Turpentine	Critically Endangered	Not Sensitive	Critically Endangered	
Plantae	Flora	Thesium australe	Austral Toadflax	Vulnerable	Not Sensitive	Vulnerable	

Data does not include NSW category 1 sensitive species.

Location Confidences

Where Lotsearch has had to georeference features from supplied addresses, a location confidence has been assigned to the data record. This indicates a confidence to the positional accuracy of the feature. Where applicable, a code is given under the field heading “LC” or “LocConf”. These codes lookup to the following location confidences:

LC Code	Location Confidence
Premise Match	Georeferenced to the site location / premise or part of site
Area Match	Georeferenced to an approximate or general area
Road Match	Georeferenced to a road or rail corridor
Road Intersection	Georeferenced to a road intersection
Buffered Point	A point feature buffered to x metres
Adjacent Match	Land adjacent to a georeferenced feature
Network of Features	Georeferenced to a network of features
Suburb Match	Georeferenced to a suburb boundary
As Supplied	Spatial data supplied by provider

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12. These Terms are subject to New South Wales law.

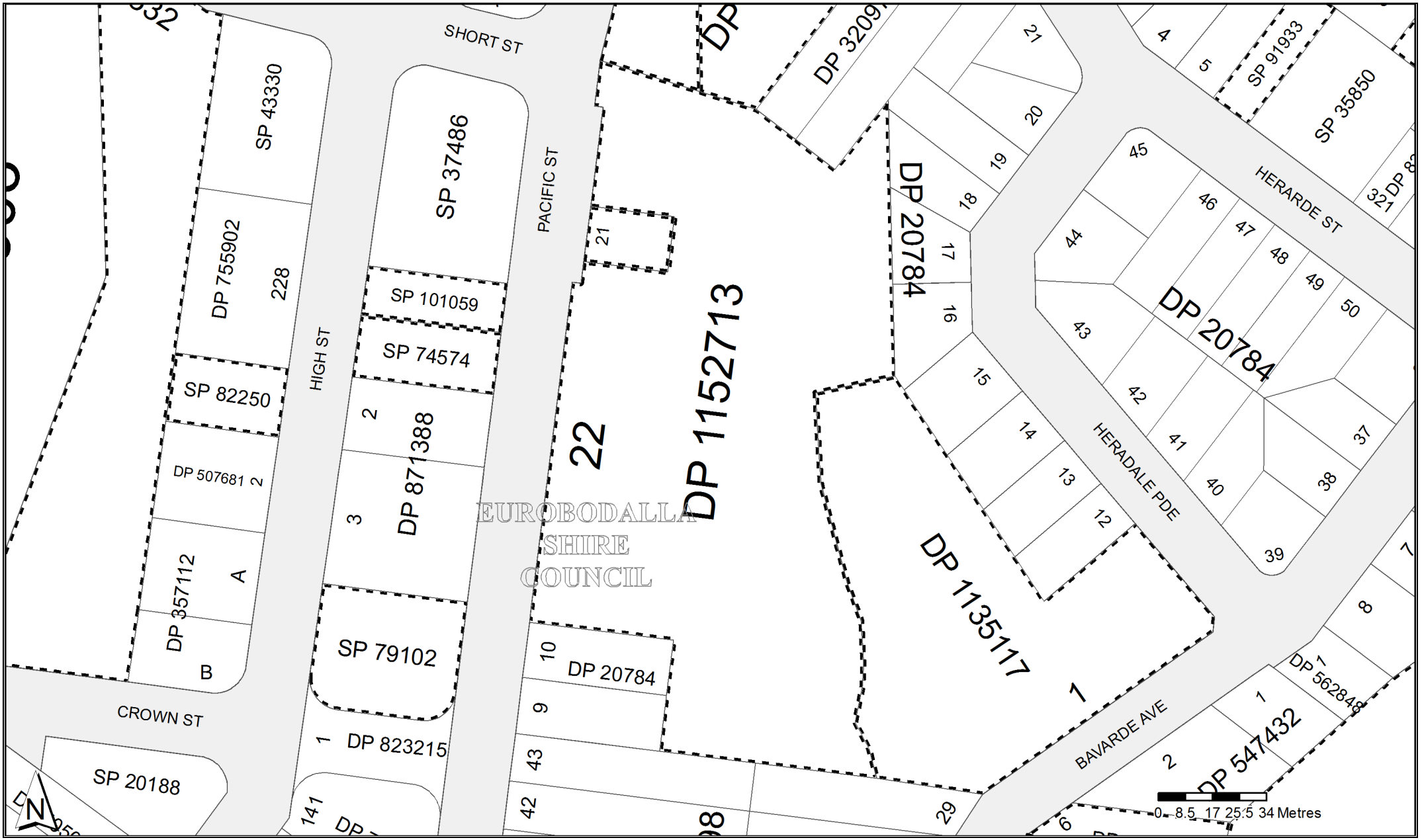
APPENDIX V

DP PLAN

Cadastral Records Enquiry Report : Lot 22 DP 1152713

Ref : NOUSER

Locality : BATEMANS BAY
Parish : BATEMAN
LGA : EUROBODALLA
County : ST VINCENT



	Status	Surv/Comp	Purpose
DP18421			
Lot(s): 3			
DP1275613	PRE-ALLOCATED	UNAVAILABLE	CONSOLIDATION
DP720903			
Lot(s): 332			
DP1125667	REGISTERED	SURVEY	REDEFINITION
DP1107639			
Lot(s): 1, 2			
DP564850	HISTORICAL	SURVEY	SUBDIVISION
Lot(s): 1			
DP38372	HISTORICAL	SURVEY	UNRESEARCHED
DP1135117			
Lot(s): 1			
DP564850	HISTORICAL	SURVEY	SUBDIVISION
DP1152713			
Lot(s): 21, 22			
DP564850	HISTORICAL	SURVEY	SUBDIVISION
DP1135117	HISTORICAL	SURVEY	SUBDIVISION
DP1217243			
Lot(s): 6			
DP21898	HISTORICAL	SURVEY	UNRESEARCHED
DP1144629	HISTORICAL	SURVEY	SUBDIVISION
DP1149394	HISTORICAL	SURVEY	SUBDIVISION
DP1287387			
Lot(s): 12			
DP26893	HISTORICAL	SURVEY	UNRESEARCHED
DP31086	HISTORICAL	SURVEY	UNRESEARCHED
DP723086	HISTORICAL	SURVEY	RESUMPTION OR ACQUISITION
DP723087	HISTORICAL	SURVEY	RESUMPTION OR ACQUISITION
DP723089	HISTORICAL	SURVEY	CROWN FOLIO CREATION
DP726759	HISTORICAL	COMPILATION	CROWN FOLIO CREATION
DP733319	HISTORICAL	SURVEY	OLD SYSTEM CONVERSION
DP815914	HISTORICAL	SURVEY	SUBDIVISION
DP1036103	HISTORICAL	COMPILATION	CONSOLIDATION
SP74574			
DP871388	HISTORICAL	SURVEY	SUBDIVISION
SP81349	REGISTERED	COMPILATION	STRATA SUBDIVISION PLAN
SP79102			
DP755902	HISTORICAL	COMPILATION	CROWN ADMIN NO.
DP1114020	HISTORICAL	SURVEY	REDEFINITION
SP79831	REGISTERED	COMPILATION	STRATA SUBDIVISION PLAN
SP82250			
DP507681	HISTORICAL	COMPILATION	SUBDIVISION
DP1125667	HISTORICAL	SURVEY	REDEFINITION
SP91933			
DP20784	HISTORICAL	SURVEY	UNRESEARCHED
DP1208325	HISTORICAL	SURVEY	REDEFINITION
SP101059			
DP350223	HISTORICAL	COMPILATION	UNRESEARCHED
DP1261671	HISTORICAL	SURVEY	REDEFINITION

Plan	Surv/Comp	Purpose
DP18421	SURVEY	UNRESEARCHED
DP20784	SURVEY	UNRESEARCHED
DP21898	SURVEY	UNRESEARCHED
DP237514	SURVEY	SUBDIVISION
DP320978	SURVEY	UNRESEARCHED
DP357112	COMPILATION	UNRESEARCHED
DP505006	SURVEY	SUBDIVISION
DP507681	COMPILATION	SUBDIVISION
DP547432	SURVEY	SUBDIVISION
DP562848	COMPILATION	SUBDIVISION
DP720903	SURVEY	CROWN FOLIO CREATION
DP755902	COMPILATION	CROWN ADMIN NO.
DP823215	COMPILATION	CROWN FOLIO CREATION
DP832396	SURVEY	SUBDIVISION
DP871388	SURVEY	SUBDIVISION
DP1107639	SURVEY	SUBDIVISION
DP1135117	SURVEY	SUBDIVISION
DP1152713	SURVEY	SUBDIVISION
DP1217243	SURVEY	SUBDIVISION
DP1287387	SURVEY	SUBDIVISION
SP20188	COMPILATION	STRATA PLAN
SP35850	COMPILATION	STRATA PLAN
SP36916	COMPILATION	STRATA PLAN
SP37486	COMPILATION	STRATA PLAN
SP43330	COMPILATION	STRATA PLAN
SP57213	COMPILATION	STRATA PLAN
SP74574	COMPILATION	STRATA PLAN
SP79102	COMPILATION	STRATA PLAN
SP82250	COMPILATION	STRATA PLAN
SP91933	COMPILATION	STRATA PLAN
SP101059	COMPILATION	STRATA PLAN
SP101059	UNRESEARCHED	STRATA PLAN

12286116

[redacted] CATE OF TITLE

NEW SOUTH WALES

243
244

[redacted] PROPERTY ACT, 1900

Crown Grants Vol. 109 Fols. and
Vol. 115 Fol. 71
Vol. 157 Fol. 233
Vol. 173 Fol. 21
Vol. 3533 Fol. 141

Prior Titles Vol. 4198 Fol. 183
Vol. 6118 Fol. 229

Vol. 12286 Fol. 118

Edition issued 29-11-1973.

CANCELLED

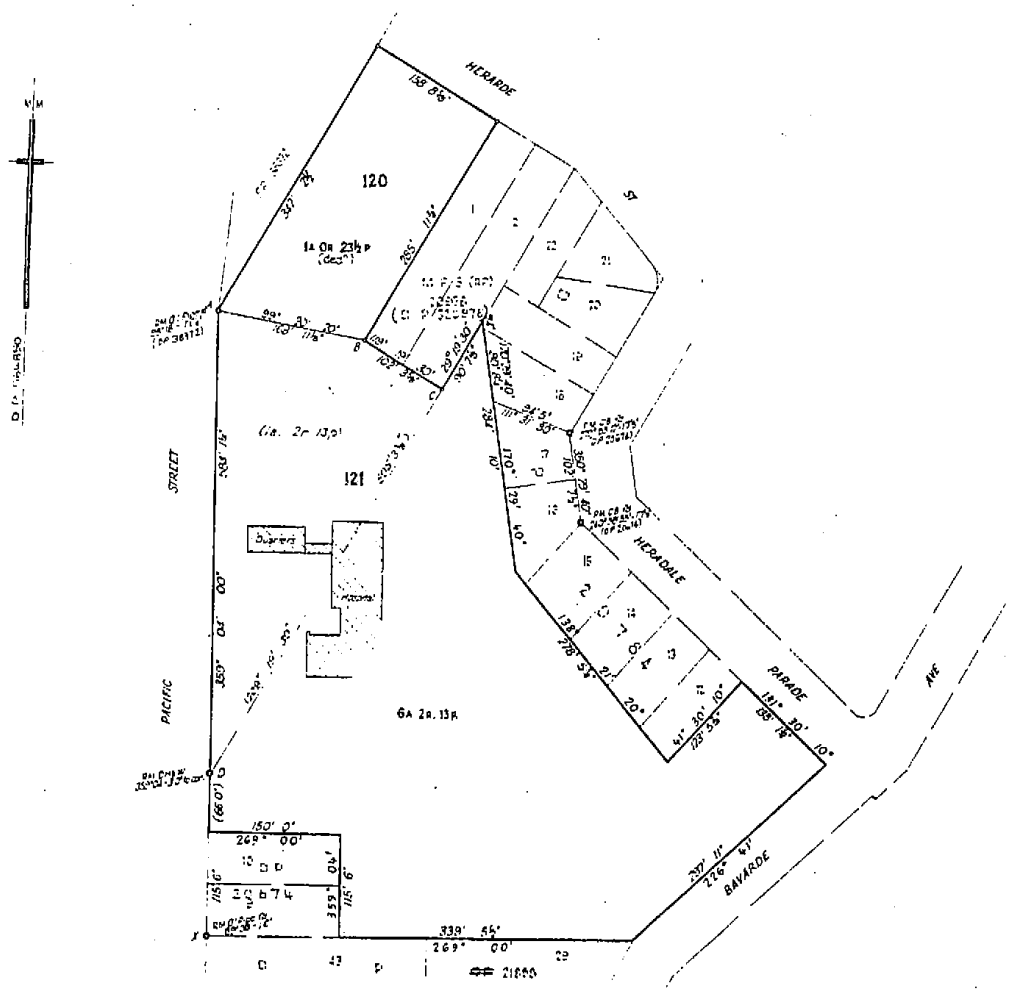
I certify that the person described in the First Schedule is the registered proprietor of the undermentioned estate in the land within described subject nevertheless to such exceptions encumbrances and interests as are shown in the Second Schedule.

SEE AUTO FOLIO

Registrar General.

PLAN SHOWING LOCATION OF LAND

LENGTHS ARE IN METRES



ESTATE AND LAND REFERRED TO

Estate in Fee Simple in Lot 121 in Deposited Plan 564850 at Batemans Bay in the Shire of Eurobodalla Parish of Bateman and County of St.Vincent. EXCEPTING THEREOUT the minerals reserved by the Crown Grant of Portion 236.

FIRST SCHEDULE

~~PUBLIC TRUSTEE as to the part of the land above described formerly comprised in Certificate of Title Volume 4918 Folio 183 and~~ THE BATEMANS BAY DISTRICT HOSPITAL as to the part formerly ~~comprised in Certificate of Title Volume 6118 Folio~~ 229.

GRY

SECOND SCHEDULE

1. Reservations and conditions, if any, contained in the Crown Grants above referred to.
2. Restrictions on transfer - See Section 272 Crown Lands Consolidation Act, 1913 (C.P. 1920/5 Moruya) as regards part.
3. Covenant created by Transfer No. F96053 as regards part.
4. ~~Caveat No. H124394 by the Registrar General as regards the interest formerly~~ comprised in Certificate of Title Volume 4198 Folio 183. Withdrawn R486208

Registrar General

Vol. 12286 Fol. 118

FIRST SCHEDULE (continued)

REGISTERED PROPRIETOR	INSTRUMENT NATURE	INSTRUMENT NUMBER	INSTRUMENT DATE	ENTERED	Signature of Registrar General
12740101 PSCA The Bateman's Bay District Hospital	Transfer	R486208	------	1-11-1979	

CANCELLED

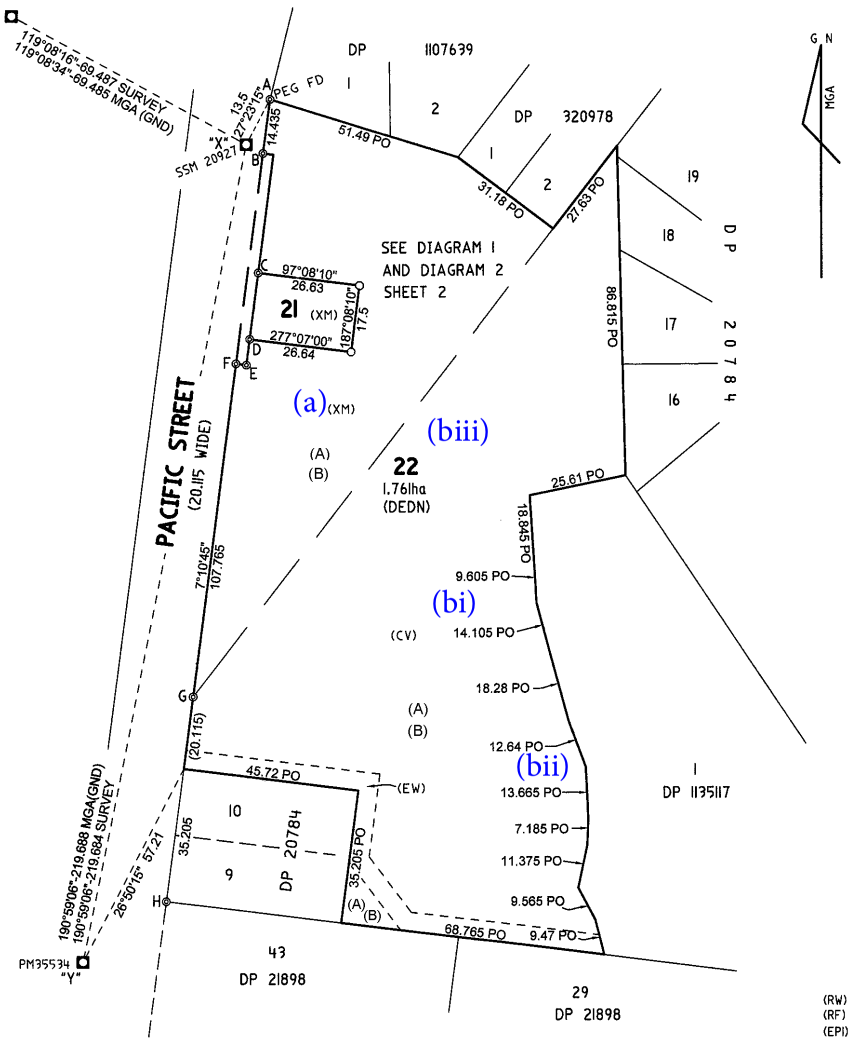
SEE AUTO FOLIO

Dual Entitlement
Pilot in Deliver
WXRGX
R486208 TO
DP 637651
11-7-1985
EASEMENT SHT
IN D.P. 637651
RESUMED FOR
WATER SUPPLY
PURPOSES VIDE
GAZ. 17.10.8
FOL. 5096
W871650RA)
Part
WITHDRAWN 17.11.8
X160415R

SECOND SCHEDULE (continued)

INSTRUMENT NATURE	INSTRUMENT NUMBER	INSTRUMENT DATE	PARTICULARS	ENTERED	Signature of Registrar General	CANCELLATION
X160415 Resumption - described shown as Registered 20-11-1987		Easement "proposed	for water supply affecting the part of the land within easement for water supply 5 wide and 2 wide in DP 637651"			

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



(B) EASEMENT FOR DISABILITY SERVICES (WHOLE OF LOT)

SSM TO COR AT A - 108°05'05" - 70.38

SEE SHEET 2 FOR SCHEDULE OF REFERENCE MARKS

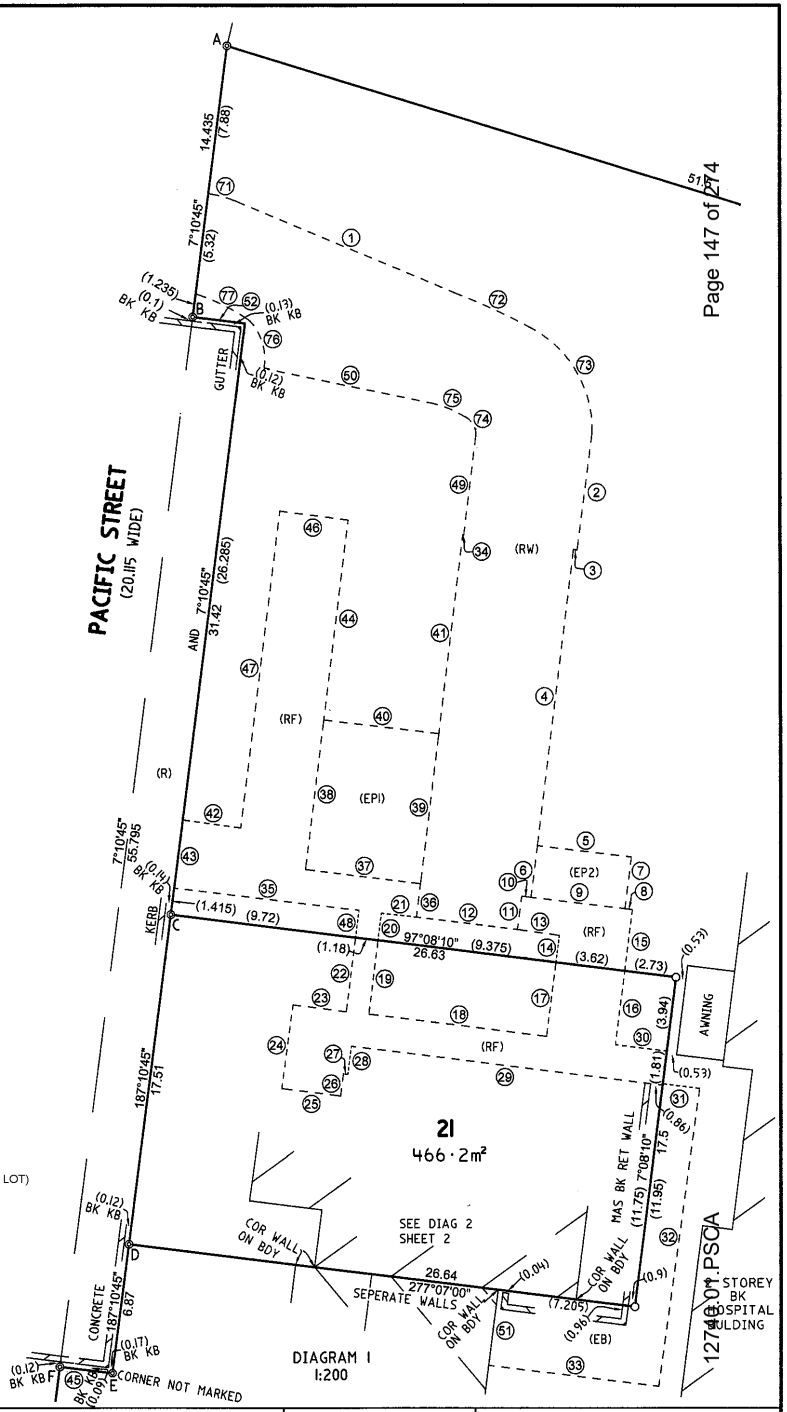
LINE SCHEDULE

NUMBER	BEARING	DISTANCE
1	292°56'55"	12.535
2	187°19'05"	6.26
3	276°37'35"	0.195
4	186°58'00"	15.745
5	96°56'15"	4.95
6	186°58'00"	2.75
7	186°58'00"	2.75
8	96°56'15"	0.385
9	96°56'15"	4.95
10	96°56'15"	0.48
11	187°28'50"	1.77
12	97°01'55"	5.33
13	98°03'05"	2.21
14	187°07'30"	1.43
15	7°06'40"	3.26
16	187°06'40"	3.93
17	7°07'30"	3.945
18	97°13'35"	9.365
19	186°58'25"	3.93
20	6°58'25"	1.43
21	96°20'20"	1.84
22	7°04'25"	3.94
23	97°22'45"	2.805
24	7°33'30"	4.455
25	277°19'10"	3.1
26	187°07'00"	1.18
27	277°07'00"	0.225
28	187°16'55"	1.49
29	277°13'35"	16.41
30	277°15'55"	2.725
31	97°13'35"	1.96
32	187°50'00"	15.98
33	97°10'10"	8.97
34	97°07'45"	0.05
35	96°56'35"	9.72
36	186°58'00"	1.775
37	97°11'15"	6.05
38	186°58'00"	7.95
39	186°58'00"	7.975
40	276°58'00"	6.05
41	186°58'00"	10.57
42	97°46'45"	3.05
43	7°10'45"	3.615
44	186°58'00"	10.63
45	97°10'45"	2.75
46	97°31'00"	3.59
47	7°05'25"	16.85
48	7°04'25"	1.445
49	7°00'05"	5.225
50	281°54'30"	8.955
51	7°04'20"	4.025
52	97°10'45"	2.75

(RW) RIGHT OF WAY VARIABLE WIDTH
(RF) EASEMENT FOR PERSONAL ACCESS VARIABLE WIDTH
(EPI) EASEMENT FOR PARKING 6.05 WIDE
(EP2) EASEMENT FOR MOBILITY DISABILITY PARKING 4.95 WIDE
(EB) EASEMENT FOR BATTER AND RETAINING WALLS VARIABLE WIDTH
(R) ROAD WIDENING 2.75 WIDE (153·4m²)
(EW) EASEMENT FOR WATER SUPPLY 5 WIDE (XI60415)
(XM) LAND EXCLUDES MINERALS (SEE CROWN GRANT)
(CV) COVENANT (F96053)
(A) RIGHT OF WHEEL CHAIR AND OTHER LIMITED MOBILITY ACCESS (WHOLE OF LOT)

CURVE SCHEDULE

NUMBER	RADIUS	ARC LENGTH	CHORD DISTANCE	CHORD BEARING
71	5.835	1.525	1.52	285°30'25"
72	35.055	4.12	4.12	294°48'45"
73	6.055	6.8	6.45	149°18'35"
74	1.03	1.36	1.26	330°00'10"
75	5.03	1.8	1.79	292°07'30"
76	2.94	2.73	2.635	342°51'50"
77	11.065	3.135	3.125	296°31'55"



Surveyor: CHRISTOPHER P CONWAY
Date of Survey: 02-02-2010
Surveyor's Ref: 12504/2

PLAN OF **SUBDIVISION OF LOT 2 DP 1135117**

LGA: EUROBODALLA
Locality: BATEMANS BAY
Subdivision No: 3810
Lengths are in metres. Reduction Ratio 1:1000

Registered 9.8.2010

DP1152713 P

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

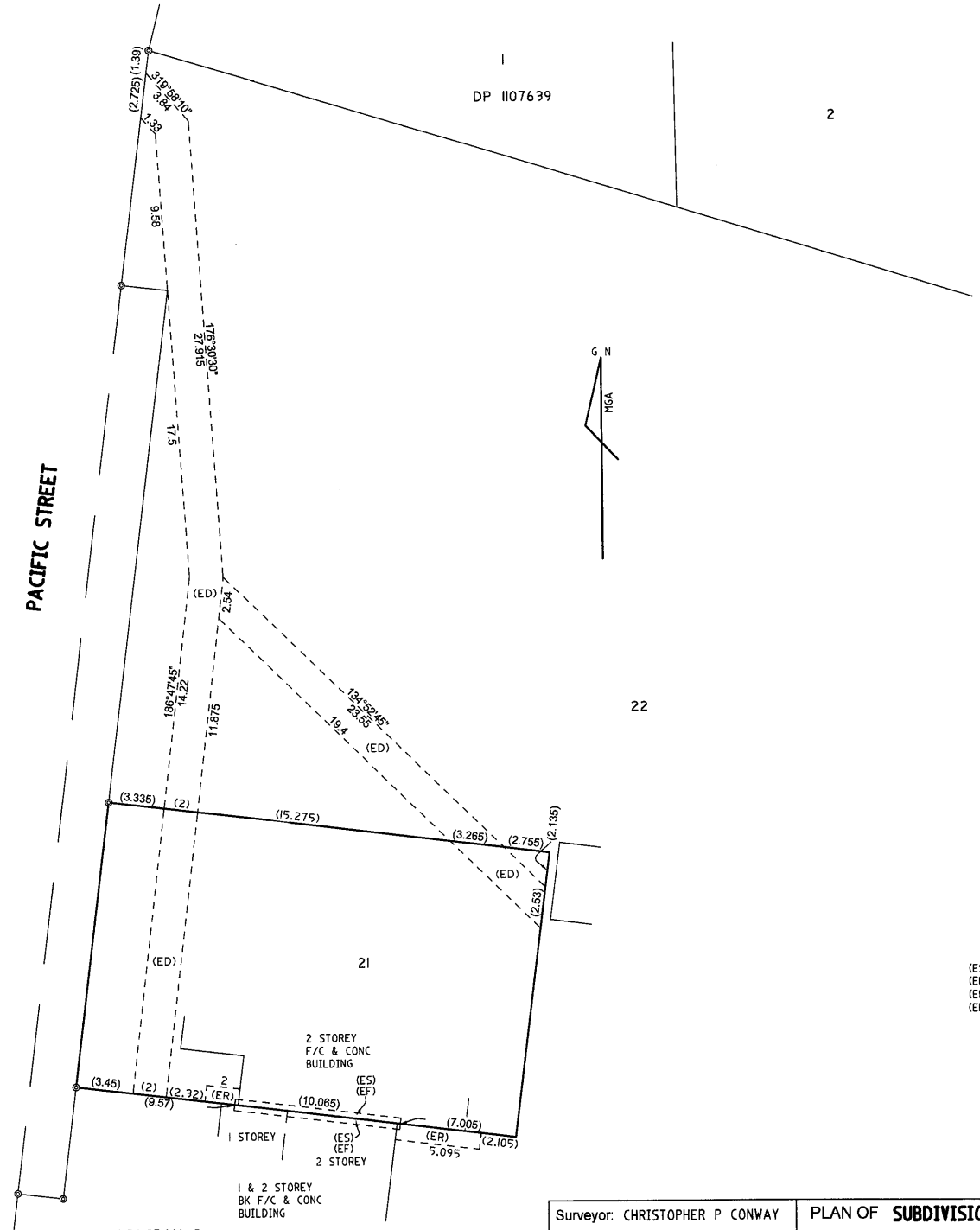


DIAGRAM 2
1:200

MGA CO-ORDINATES

SURVEYING REGULATION 2006:CLAUSE 35(1)(b) 62(2)

MARK	M.G.A. CO-ORDINATES EASTING	M.G.A. CO-ORDINATES NORTHING	CLASS	ORDER	METHOD	ORIGIN
PM 35534	245009·813	6044005·596	B	2		SCIMS
SSM 20927	245051·692	6044221·345	B	2		SCIMS
SSM 44052	244990·979	6044255·197	B	2		SCIMS

SOURCE: SCIMS AT 03/02/2010
CSF: 1·000399 ZONE: 56

SCHEDULE OF REFERENCE MARKS

No·	BEARING	DISTANCE	FROM
A	27°23'15"	13.5	SSM 20927 (DP 1107639)
B	167°59'30"	13.5	RMDH&W PLACED
C	92°31'55"	7.68	RMDH&W PLACED
D	105°51'35"	18.55	RMDH&W PLACED
E	163°49'10"	0.545	RMDH&W PLACED
F	101°15'30"	2.65	RMDH&W PLACED
G	7°10'45"	0.915	RMDH&W FD (DP 564850)
H	97°06'45"	0.455	RMGIP FD (DP 20784)

(ES) EASEMENT FOR SHELTER 0.35 WIDE
(EF) EASEMENT FOR FIRE SAFETY 0.35 WIDE
(ED) EASEMENT FOR WATER DRAINAGE 2 WIDE
(ER) EASEMENT FOR REPAIRS 1 WIDE

Surveyor: CHRISTOPHER P CONWAY
Date of Survey: 02-02-2010
Surveyor's Ref: 12504/2

PLAN OF **SUBDIVISION OF LOT 2 DP 1135117**

LGA: EUROBODALLA
Locality: BATEMANS BAY
Subdivision No: 3810
Lengths are in metres. Reduction Ratio 1:200

Registered
9.8.2010

DP1152713

0 10 20 30 40 50 Table of mm 90 100 110 120 130 140

12740.01.PSCA

DEPOSITED PLAN ADMINISTRATION SHEET

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

IT IS INTENDED TO DEDICATE THE ROAD WIDENING 2.75 WIDE TO THE PUBLIC AS PUBLIC ROAD

PURSUANT TO SEC 88B OF THE CONVEYANCING ACT IT IS INTENDED TO CREATE:-

1/. RIGHT OF WAY VARIABLE WIDTH (RW)
2/. EASEMENT FOR PERSONAL ACCESS VARIABLE WIDTH (RF)
3/. EASEMENT FOR PARKING 6.05 WIDE (EP1)
4/. EASEMENT FOR MOBILITY DISABILITY PARKING 4.95 WIDE (EP2)
5/. RIGHT OF WHEEL CHAIR AND OTHER LIMITED MOBILITY ACCESS (WHOLE OF LOT)
6/. EASEMENT FOR DISABILITY FACILITIES (WHOLE OF LOT)
7/. EASEMENT FOR SHELTER 0.35 WIDE (ES)
8/. EASEMENT FOR FIRE SAFETY 0.35 WIDE (EF)
9/. RESTRICTION ON THE USE OF LAND
10/. EASEMENT FOR BATTER AND RETAINING WALLS VARIABLE WIDTH (EB)
11/. EASEMENT FOR REPAIRS 1 WIDE (ER)
12/. EASEMENT FOR WATER DRAINAGE 2 WIDE (ED)

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

Crown Lands NSW/Western Lands Office Approval

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

Signature: .....
Date: .....
File No.: .....
Office: .....

Subdivision Certificate

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

the proposed SUBDIVISION set out herein.
* (Insert "subdivision" or "new road")

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

Consent Authority: EUROBODALLA SHIRE COUNCIL
Date of endorsement : 23RD MARCH 2010
Accreditation no : .....
Subdivision Certificate no : 3810
File no. 81.0232.S

* Delete whichever is inapplicable

DP1152713 S

Registered: 9.8.2010
Title System: **TORRENS**
Purpose: **SUBDIVISION**

*OFFICE USE ONLY

PLAN OF: SUBDIVISION OF LOT 2 DP 1135117

LGA: **EUROBODALLA**
Locality: **BATEMANS BAY**
Parish: **BATEMAN**
County: **ST VINCENT**

Surveying Regulation 2006

I, CHRISTOPHER PETER LESLIE CONWAY
of 126 BEACH RD BATEMANS BAY NSW 2536
a surveyor registered under the Surveying Act, 2002, hereby certify that the survey represented in this plan is accurate, has been made in accordance with the Surveying Regulation, 2006 and was completed on 02-02-2010
The survey relates to LOT 1, RD WIDENING AND CONNECTIONS
(here specify the land actually surveyed, or specify any land shown in the plan that is not the subject of the survey)

(Signature) .....
Surveyor registered under the Surveying Act, 2002
Dated: 17-02-2010
Datum Line: "X"-"Y" (MGA)
Type: Urban/~~Rural~~

Plans used in the preparation of survey/compilation

DP 1135117
DP 1107639
DP 20784

(if insufficient space use Plan Form 6A Annexure Sheet)

SURVEYOR'S REFERENCE: 12504/2

PLAN FORM 6A (Annexure Sheet) WARNING: Creasing or folding will lead to rejection

DEPOSITED PLAN ADMINISTRATION SHEET

PLAN OF: SUBDIVISION OF LOT 2 DP 1135117

DP1152713

Registered: 9.8.2010

OFFICE USE ONLY

Subdivision Certificate no : 3810

Date of Endorsement: 23RD MARCH 2010

SIGNED for and on behalf of)
Greater Southern Area Health)
Service)
in accordance with s 135 *Health Services Act* 1997 (NSW))

* M Jamieson
Signature

Dr Maggie Jamieson
Full name (BLOCK LETTERS)

A/Chief Executive
Authority

* R Percival
Signature of witness

ROSLYNNE PERCIVAL
Full name (BLOCK LETTERS)

4 Waterloo St Queanbeyan
Address

SURVEYOR'S REFERENCE: 12504/2

NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE
23/4/2024 3:51PM

FOLIO: 2/1135117

First Title(s): VOL 109 FOL 243 VOL 109 FOL 244
VOL 115 FOL 71 VOL 3533 FOL 141
Prior Title(s): 121/564850

Recorded	Number	Type of Instrument	C.T. Issue
22/4/2009	DP1135117	DEPOSITED PLAN	FOLIO CREATED EDITION 1
9/8/2010	DP1152713	DEPOSITED PLAN	FOLIO CANCELLED RESIDUE REMAINS

*** END OF SEARCH ***

advlegs PRINTED ON 23/4/2024

NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE
24/4/2024 11:17AM

FOLIO: 22/1152713

First Title(s): VOL 109 FOL 243 VOL 109 FOL 244
VOL 115 FOL 71 VOL 3533 FOL 141
Prior Title(s): 2/1135117

Recorded	Number	Type of Instrument	C.T. Issue
9/8/2010	DP1152713	DEPOSITED PLAN	FOLIO CREATED EDITION 1
22/10/2019	AP409215	REQUEST	
22/10/2019	AP622937	DEPARTMENTAL DEALING	EDITION 2

*** END OF SEARCH ***

advlegs PRINTED ON 24/4/2024

NEW SOUTH WALES LAND REGISTRY SERVICES - TITLE SEARCH

FOLIO: 22/1152713

SEARCH DATE	TIME	EDITION NO	DATE
23/4/2024	3:47 PM	2	22/10/2019

LAND

LOT 22 IN DEPOSITED PLAN 1152713
AT BATEMANS BAY
LOCAL GOVERNMENT AREA EUROBODALLA
PARISH OF BATEMAN COUNTY OF ST VINCENT
TITLE DIAGRAM DP1152713

FIRST SCHEDULE

HEALTH ADMINISTRATION CORPORATION (R AP409215)

SECOND SCHEDULE (19 NOTIFICATIONS)

1 LAND EXCLUDES MINERALS WITHIN THE PART SHOWN SO INDICATED IN THE TITLE DIAGRAM - SEE CROWN GRANT
2 F96053 COVENANT AFFECTING THE PART SHOWN SO BURDENED IN THE TITLE DIAGRAM.
3 X160415 EASEMENT FOR WATER SUPPLY 5 METRE(S) WIDE AFFECTING THE PART(S) SHOWN SO BURDENED IN THE TITLE DIAGRAM
4 DP1152713 RIGHT OF WAY VARIABLE WIDTH AFFECTING THE PART(S) SHOWN SO BURDENED IN THE TITLE DIAGRAM
5 DP1152713 EASEMENT FOR PERSONAL ACCESS VARIABLE WIDTH AFFECTING THE PART(S) SHOWN SO BURDENED IN THE TITLE DIAGRAM
6 DP1152713 EASEMENT FOR PERSONAL ACCESS VARIABLE WIDTH APPURTENANT TO THE LAND ABOVE DESCRIBED
7 DP1152713 EASEMENT FOR PARKING 6.05 METRE(S) WIDE AFFECTING THE PART(S) SHOWN SO BURDENED IN THE TITLE DIAGRAM
8 DP1152713 EASEMENT FOR MOBILITY DISABILITY PARKING 4.95 METRE(S) WIDE AFFECTING THE PART(S) SHOWN SO BURDENED IN THE TITLE DIAGRAM
9 DP1152713 RIGHT OF WHEEL CHAIR AND OTHER LIMITED MOBILITY ACCESS AFFECTING THE WHOLE OF THE LAND ABOVE DESCRIBED
10 DP1152713 EASEMENT FOR DISABILITY FACILITIES AFFECTING THE WHOLE OF THE LAND ABOVE DESCRIBED
11 DP1152713 EASEMENT FOR SHELTER 0.35 METRE(S) WIDE AFFECTING THE PART(S) SHOWN SO BURDENED IN THE TITLE DIAGRAM
12 DP1152713 EASEMENT FOR SHELTER 0.35 METRE(S) WIDE APPURTENANT TO THE LAND ABOVE DESCRIBED
13 DP1152713 EASEMENT FOR FIRE SAFETY 0.35 METRE(S) WIDE AFFECTING THE PART(S) SHOWN SO BURDENED IN THE TITLE DIAGRAM
14 DP1152713 EASEMENT FOR FIRE SAFETY 0.35 METRE(S) WIDE APPURTENANT TO THE LAND ABOVE DESCRIBED

END OF PAGE 1 - CONTINUED OVER

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NEW SOUTH WALES LAND REGISTRY SERVICES - TITLE SEARCH

FOLIO: 22/1152713 PAGE 2

SECOND SCHEDULE (19 NOTIFICATIONS) (CONTINUED)

15 DP1152713 EASEMENT FOR BATTER AND RETAINING WALLS VARIABLE WIDTH AFFECTING THE PART(S) SHOW SO BURDENED IN THE TITLE DIAGRAM
16 DP1152713 EASEMENT FOR REPAIRS 1 METRE(S) WIDE AFFECTING THE PART(S) SHOW SO BURDENED IN THE TITLE DIAGRAM
17 DP1152713 EASEMENT FOR REPAIRS 1 METRE(S) WIDE APPURTENANT TO THE LAND ABOVE DESCRIBED
18 DP1152713 EASEMENT FOR WATER DRAINAGE 2 METRE(S) WIDE AFFECTING THE PART(S) SHOWN SO BURDENED IN THE TITLE DIAGRAM
19 DP1152713 EASEMENT FOR WATER DRAINAGE 2 METRE(S) WIDE APPURTENANT TO THE LAND BOVE DESCRIBED

NOTATIONS

NOTE: EASEMENT CREATED BY X160415 VESTED IN EUROBODALLA SHIRE COUNCIL GAZETTE 9/4/1999 FOL.2712

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

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APPENDIX VI

BELOW GROUND UTILITIES SEARCH

Job ID 36590863
12740

Review responses online

Received 3 of 3 responses
All responses received

7 Pacific Street, Batemans Bay NSW 2536

Job dates
06/05/2024 → 07/05/2024

These plans expire on
30 May 2024

Lodged by
Brodie Bishop

Authority	Status	Page
BYDA Confirmation		2
Essential Energy	Received	4
NBN Co NswAct	Received	14
Telstra NSW South	Received	26

Job No 36590863

byda.com.au

Contact Details

Contact	Contact number	Company	Enquirer ID
Brodie Bishop	0422 145 412	Getex	3040013

Email
brodie.bishop@getex.com.au

Address
Unit 2 64 Talavera Road
Macquarie Park NSW 2113

Job Site and Enquiry Details

WARNING: The map below only displays the location of the proposed job site and does not display any asset owners' pipe or cables. The area highlighted has been used only to identify the participating asset owners, who will send information to you directly.

Enquiry date	Start date	End date	On behalf of	Job purpose	Locations	Onsite activities
02/05/2024	06/05/2024	07/05/2024	Private	Excavation	Both Footpath, Nature Strip, Road	Mechanical Excavation

Check that the location of the job site is correct. If not, you must submit a new enquiry.

If the scope of works change or plan validity dates expire, you must submit a new enquiry.

Do NOT dig without plans. Safe excavation is your responsibility. If you don't understand the plans or how to proceed safely, please contact the relevant asset owners.

User Reference	Address	Notes/description
12740	7 Pacific Street Batemans Bay NSW 2536	-

Your Responsibility and Duty of Care

- **Lodging an enquiry does not authorise project commencement.** Before starting work, you must obtain all necessary information from all affected asset owners.
- If you don't receive plans within 2 business days, contact the asset owner & quote their sequence number.
- Always follow the 5Ps of Safe Excavation (page 2), and locate assets before commencing work.
- Ensure you comply with State legislative requirements for Duty of Care and safe digging.
- If you damage an underground asset, you MUST advise the asset owner immediately.
- By using the BYDA service, you agree to the Privacy Policy and Term of Use.
- For more information on safe digging practices, visit www.byda.com.au

Asset Owner Details

Below is a list of asset owners with underground infrastructure in and around your job site. It is your responsibility to identify the presence of these assets. Plans issued by Members are indicative only unless specified otherwise. Note: not all asset owners are registered with BYDA. You must contact asset owners not listed here directly.

Referral ID (Seq. no)	Authority Name	Phone	Status
238687887	Essential Energy	13 23 91	NOTIFIED
238687886	NBN Co NswAct	1800 687 626	NOTIFIED
238687888	Telstra NSW South	1800 653 935	NOTIFIED

END OF UTILITIES LIST

Lodge your FREE enquiry online any time at byda.com.au

The 5Ps of Safe Excavation

Plan

Plan your job. Use the BYDA service at least one day before your job is due to begin, and ensure you have the correct plans and information required to carry out a safe project.

Prepare

Prepare by communicating with asset owners if you need assistance. Look for clues onsite. Engage a skilled Locator.

Pothole

Potholing is physically sighting the asset by hand digging or hydro vacuum extraction.

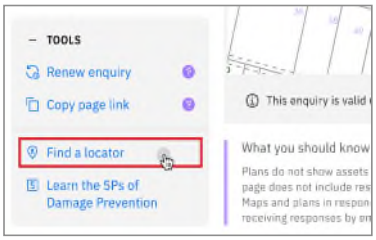
Protect

Protecting and supporting the exposed infrastructure is the responsibility of the excavator. Always erect safety barriers in areas of risk and enforce exclusion zones.

Proceed

Only proceed with your excavation work after planning, preparing, potholing (unless prohibited), and having protective measures in place.

Engage a skilled Locator



When you lodge an enquiry you will see skilled Locators to contact

Visit the Certified Locator website directly and search for a locator near you

dbydlocator.com/certified-locating-organisation

Book a FREE BYDA Session

BYDA offers two different sessions to suit you and your organisation's needs. The free sessions are offered in two different formats - online and face-to-face:

1. **Awareness Session:** Understand the role of BYDA, safe excavation practices, complying with asset-owner instructions, and the consequences of damages. Learn how to mitigate and avoid potential damage and harm and ensure a safe work environment.
2. **Plan Reading Session:** Develop the skills to interpret asset owners' plans, legends, and symbols effectively. Understand the complexities of plan interpretation to ensure smooth project execution.

To book a session, visit:
byda.com.au/contact/education-awareness-enquiry-form/

BOOK NOW

Lodge your FREE enquiry online any time at byda.com.au

Essential Energy

Referral
238687887

Member Phone
13 23 91

Responses from this member

Response received Thu 2 May 2024 10.54am

File name	Page
Response Body	5
Coversheet_EW_ASSETS_FOUND.pdf	6
EW_ASSETS_FOUNDsafetyNotice.pdf	8
plot16106385272121969524 74.pdf	12
Coversheet_E_PLANS_FOUND.pdf	13

Asset Name: 50215
Date of enquiry: 2/05/2024 10:52:00 AM
Notification No: 36590863 (Job No)
Sequence No: 238687887

Customer's Name: Brodie Bishop
Customer's Phone No: +61422145412

Address supplied for dig site location
7 Pacific Street, Batemans Bay, NSW

You will require a PDF viewer such as Adobe Acrobat Reader to view the attached documents.
Adobe Acrobat Reader is freely available at http://get.adobe.com/reader/.

CABLE/PIPE LOCATION

Assets were found in the search area

COMPANY NAME:	Getex
ATTENTION:	Brodie Bishop
SEARCH LOCATION:	7 Pacific Street Batemans Bay NSW 2536
SEQUENCE NO:	238687887
DATE:	Thursday, 2 May 2024

Provision of Plans:
Please find enclosed plans depicting approximate locations of **Essential Energy** assets in the search location***. The excavator must not assume that there may not be assets owned by other network operators in the search location.***

Underground assets searched for	Underground assets found
Essential Energy Electrical	☑
Essential Energy Water & Sewerage	☐

Plans are updated from time to time to record changes to underground assets and may be updated by Essential Energy without notice. In the event that excavation does not commence within 28 days of receipt of a plan, a new plan should be obtained.

The excavator must retain the plans on site for the duration of the works.

The excavator shall report all damage made to Essential Energy assets immediately. Note that damage includes gouges, dents, holes and gas escapes.

IN CASE OF EMERGENCY OR TO REPORT DAMAGE:
PHONE 13 20 80

DISCLAIMER

Please be aware that plans may **not** reflect alterations to surface levels or the position of roads, buildings, fences etc. **Cable and pipe locations are approximate** and the plans are **not** suitable for scaling purposes. *Essential Energy does not retain plans for privately-owned underground electrical or water & sewerage assets located on private property.* ***Privately-owned underground electrical assets located on private property are the responsibility of the owner.***

The plans have been prepared for Essential Energy's sole use and benefit. **Essential Energy cannot and does not warrant the accuracy or completeness of the plans**. Essential Energy supplies them at no cost with the object of reducing the serious risk of unintentional damage being caused to its cables and pipes. **Essential Energy does not accept any responsibility for any omissions, inaccuracies or errors in the plans, or any reliance place on the material. Any reliance placed on any plan provided in response to your request is at your own risk.**

www.essentialenergy.com.au
ABN 37 428 185 226
PO Box 5730 Port Macquarie NSW 2444
Telephone: 13 23 91 Facsimile: 1800 354 636

Essential Energy retains all intellectual and industrial property rights which exists or may exist in or with respect to the plan(s). The material provided is not to be copies or distributed beyond you.

You release Essential Energy from and against all claims, demands, actions and proceedings arising out of or in any way related to the use of the provided material.

Location of Assets on Site:
The plans indicate only that cables and pipes may exist in the general vicinity – they do not pinpoint the exact location of the cables and pipes.

If it is found that the location of cables or pipes on the plans can be improved, please notify Essential Energy on 13 23 91 (or fax 1800 354 636).

All individuals have a duty of care they must observe when working in the vicinity of underground cables and pipes. It is the **excavator's responsibility to visually expose the underground cables and pipes manually**, **ie. by using hand-held tools and non-destructive pot-holing techniques prior to any mechanical excavation.** The excavator will be held responsible for all damage caused to the Essential Energy network or cables and pipes, and for the costs associated with the repair of any such damage. The excavator will also be held responsible for all damage caused to any persons.

When digging in the vicinity of underground assets, persons should observe the requirements of the applicable Codes of Practice published by the NSW Work Cover Authority or Safe Work Australia, and any amendments from time to time by the Authorities, including although not limited to:

- Excavation Work
- Managing Electrical Risks in the workplace
- How to manage and control asbestos in the workplace

(Please refer to https://www.workcover.nsw.gov.au/law-and-policy/legislation-and-codes/codes-of-practice).

When digging in the vicinity of **electrical assets** persons should observe the requirements of the **Electricity Supply Act 1995.**
Persons excavating near live underground electrical reticulation and/or earthing cables **must exercise extreme caution at all times and adhere to the requirements of Essential Energy's Electrical Safety Rules.** (These are available on our website: http://www.essentialenergy.com.au/content/safety-community and include

- **Work near Essential Energy's Underground Assets:**
  http://www.essentialenergy.com.au/asset/cms/pdf/contestableWorks/CEOP8041.pdf , and
- **Asbestos Fact Sheet**:
  http://www.essentialenergy.com.au/asset/cms/pdf/safety/AsbestosFactSheet.pdf

In some situations these procedures call for work to be performed by authorised staff.
Should there be any doubt as to the exact location of any underground electrical assets, and the potential for conflict with live underground cables caused by excavation at your work site, you should contact **13 23 91** to arrange for an on-site visit by an Essential Energy representative**.** No construction or mechanical excavation work is to commence prior to this on-site visit and approval being obtained.

When digging in the vicinity of **water or sewer assets** persons should observe the requirements of the **Water Management Act 2000.**
Should there be any doubt as to the exact location of any underground water and sewer assets, and the potential for conflict with underground water and sewer pipes caused by excavation at your work site, you should contact **13 23 91** to arrange for an on-site visit**.** No construction or excavation work is to commence prior to this on-site visit and approval being obtained.

Prior Notification:
Please note that for excavation depths greater than 250mm near power poles and stays you should allow for **advance notice** in your construction program to permit Essential Energy time to allocate the necessary field resources to carry out the inspection at the site a **minimum of fourteen (14) working days prior to work commencing**. This service may incur a fee and this can be negotiated with the local Area Coordinator at the time of making the appointment. Failure to give reasonable notice to the local Area Coordinator may result in disruption to Essential Energy's planned works program in the district and could incur an extra charge over and above the normal rate for this service.

For further information please call 13 23 91.

www.essentialenergy.com.au
ABN 37 428 185 226
PO Box 5730 Port Macquarie NSW 2444
Telephone: 13 23 91 Facsimile: 1800 354 636

ELECTRICITY SAFETY WHILE EXCAVATING

When working near underground electrical infrastructure

NSW legislation requires people who are planning to do excavation work to obtain copies of underground electricity cable plans through Dial Before you Dig (Phone 1100) and to make sure that the plans are no more than 30 days old when excavation commences.

The aim of the legislation is to ensure that when workers dig or drive items near underground electricity cables, ducting, and pipes, they will establish the exact location of the cables and thus avoid coming into contact with them or damaging them. These items carry vital services such as electricity, water, gas and communications, and establishing their location before digging will help ensure worker safety and prevent damage to the network which may cause disruption of essential services to local communities.

Excavate safely and protect underground assets

Dial Before You Dig (DBYD) is the first step to excavating safely. You should use DBYD when you will be undertaking (but not restricted to) the following:

- Any excavation using machinery digging deeper than 150mm. This includes but is not restricted to back hoes, excavators, borers & kanger hammers (ploughing or ripping activities)
- Any excavation using hand tools deeper than 300mm which includes shovels, spades and crow bars
- Any vertical or horizontal boring.

Note: The above examples are general and may not cover all situations in the regulations where a DBYD would be required e.g. driving metal posts in the ground.

Regardless of the size of your project you should lodge an enquiry with DBYD before commencing work. This applies to small tasks like backyard landscaping, driving items into the ground as well as heavy work such as directional boring or directional drilling. DBYD strive to respond to enquiries within two business days.

Dial Before You Dig

- Phone 1100
- Web www.1100.com.au
- Download the DBYD iPhone app

DIAL BEFORE YOU DIG www.1100.com.au
The Essential First Step

When a DBYD has been obtained, contact Essential Energy on **13 23 91** to identify any underground pipes and/or cables in the vicinity of excavation works to be carried out. Allow at least **two weeks or 10 working days advance notice** in your construction program to permit Essential Energy time to allocate the necessary field resources to carry out an onsite inspection if required. This service may incur a fee & should be stated at the time of making the appointment.

In the event the excavation does not commence within 28 days of receipt of a plan, a new plan should be obtained. The excavator **must** retain the plans on site for the duration of the excavation works.

Your responsibility

All individuals have a duty of care they must observe when working in the vicinity of underground cables, ducts and pipes. Be aware of the requirement set out in the latest WorkCover Codes of Practice 'Work near Underground Assets Guideline' and 'Work near Overhead Powerlines' which can be viewed at www.workcover.nsw.gov.au or you can purchase a copy of the Code of Practice by contacting WorkCover on 1300 799 003.

You should also be familiar with Essential Energy's operational procedures 'Work near Essential Energy's underground assets' CEOP8041 and 'Construction work near electricity network' CEOP1116, which can be found at essentialenergy.com.au/construction

- Employers: If you're an employer or employing someone to excavate, complete construction or drive items into the ground even at home you have a legal obligation to ensure their safety
- Excavators: It is the excavator's responsibility to visually expose the underground pipes and cables manually before any construction begins.

Note – when excavating involving high pressure water or compressed air to break up the ground, which is then removed by a powerful vacuum unit to expose critical utilities after they have been electronically located to confirm identity, size, number of services and depth, checks should be carried out to ensure the pressure is acceptable for all cables and other assets which may be found prior to commencing pot holing by this method. Warning: CONSAC cables shouldn't be potholed by this method and must be de-energised before any work carried out near them. It's recommended to only use air/vacuum equipment to pot hole that operates at or less than 13,790Kpa (2000psi).

No Go Zone for powered excavation

Extract from WorkCover "**Work near Underground Assets**"

TABLE 1: Types of assets and limits of underground approach

Assets	Clearances	No Go Zone for Powered Excavation	Controls	Typical Depths
Low voltage electricity cables – voltages less than or equal to 1000V (1kV)	Close proximity with the use of hand tools	300 mm	Must contact asset owner for specific conditions	450 – 750 mm
Electricity conductors from 11,000V (11kV) up to 33,000V (33 kV)	Close proximity with the use of hand tools	600 mm	Must contact asset owner for specific conditions	900 mm
Underground sub-transmission cables 33,000V up to 132,000V (132 kV)	Must contact asset owner	Must contact asset owner	Must be carried out under the supervision of the asset owner	900 mm
High Voltage Electricity cables – voltages from 1000V (1kV) up to (33 kV)	Close proximity with the use of hand tools	Must contact asset owner	Must contact asset owner for specific conditions	600 – 1000 mm
Extra High Voltage Electricity Transmission cables – voltages above (132 kV) and 330,000V (330 kV)	Must contact asset owner	Must contact asset owner	Work must be carried out under the supervision of the asset owner	800 – 1200 mm

How to expose cables or pipes

Location plans provide an indication of the presence of underground assets only; they do not pinpoint the exact location. This is why manual exposure is required, which can be done by potholing. Underground assets must first be exposed by pot-holing with non-conductive tools to identify their location. Excavation with hand tools shall be carried out carefully up to, but not closer than, the minimum distances specified in Table 1. Several potholes may need to be dug manually to determine and satisfy yourself of the exact locations of cables or pipes to avoid any mishaps. Manual pot-holing needs to be undertaken with extreme care, common sense and while employing techniques least likely to damage cables. For example, orientate shovel blades and trowels parallel to the cable rather than digging across the cable. Look out for sand, plastic strips or specially marked bricks when excavating, which signal the presence of underground cables.

Only once all underground assets have been located, marked and protected against damage can the excavation proceed with caution.

No Go Zone for powered excavation

Directional boring is powered excavation and contact with the asset owner must be made before excavation takes place. For directional boring across the line of an asset a minimum clearance of **300 mm** from the asset shall be maintained. When boring across the line of an underground asset, the location of the asset/s shall be positively proven by hand digging (pot-holing) or by another approved method and a safety observer appointed.

Note: Where the risk assessment identifies a potential risk of making contact with either underground assets, safety observer/s would be required. The safety observer's responsibility is to ensure that approach distances from underground and overhead assets are maintained.

For boring under electricity cables, the only true way of knowing where the directional drill is, is to "see" it. It is necessary to excavate a slit trench at right angles to the approaching drill and 500mm deeper than the asset being protected and beside the cables to confirm the depth of the cables and ensure the drill is not within the minimum approach distance of the cable (specified in Table 1).

For directional boring parallel to the asset and at the level of the asset, a clearance of **500 mm** shall be maintained from the edge of the nearest asset and pot holed at 10m intervals to ensure clearances are maintained with a safety observer appointed.

The four Ps of safe excavation

1. **Plan** – Plan your job. Use the Dial Before You Dig service before your job is due to begin to help keep your project safe. Contact Essential Energy on 13 23 91 to identify any underground pipes and/or cables in the vicinity
2. **Pothole** – Potholing (digging by hand) is a method to assist in establishing the exact location of all underground infrastructure. Only use air/vacuum equipment to pot hole that operates at or less than 13,790Kpa (2000psi)
3. Protect - **Protecting and supporting exposed infrastructure is the** excavator's responsibility. Always erect safety barriers in areas at risk to protect underground networks
4. **Proceed** – But ONLY when you have planned, potholed and put the protective measures in place.

Digging safely

You cannot be too careful when it comes to safe excavation. Avoiding underground ducting pipe and cable damage is as simple as having the right tools, the right skills and the right information.

- Study the plans you receive from asset owners thoroughly
- Check to see if they relate to the area you requested and make sure you understand them. If you are unclear about what the symbols mean or how to proceed, contact the relevant network owner
- Check the work area for other forms of electrical equipment, including street lights, ground substations, phone boxes or traffic lights – all good indicators that underground cables will be present
- Remember underground cables can also be present even if overhead powerlines have been identified
- Never assume the depth or alignment of pipes and cables. Installed networks assets may not have been installed in a straight line
- Always observe any instructions stated on the plans provided by the asset owner
- Remember, plans and maps identifying the location of underground cables and depths can alter after road upgrades or developments and underground assets may be as little as a few millimetres below the surface
- Other service lines (for example gas mains (pipes) and communication cables) can also be present. Shared trenches are frequently used on underground runs to premises
- New electrical cables are sometimes laid using existing old conduits
- Various methods of protecting underground cables may be utilised (for example electrical bricks, conduits, concrete or flat PVC barriers) or may be direct buried or installed by under-boring methods which may have no visual disturbance of the ground
- Ensure overhead & electrical structures aren't undermined during excavation.

Earth cables

Earth cables are an important part of all electrical installations and have two main purposes:

- To safeguard against the possibility of danger to life
- To maintain the good working order of the electrical network.

They can have potentially dangerous electrical current flowing through them. Usually they have a green and yellow covering but could be a bare cable buried directly in the ground.

Even if the map provided does not show underground cables, earth cables may be present. These earth cables are usually associated with electrical equipment located on the pole such as transformers, switching equipment, permanent earthing points or Padmount / kiosk subs.

It's recommended that if any excavation is to take place within **10m** of a power pole with a cable running down it into the ground, contact is made with Essential Energy on **13 23 91** to have the earthing system located. While an effort is made to install the earthing under the powerline and guy if installed, sometimes circumstances may require a variation to this, so done assume where they are installed. The distance and configuration that the earthing cable is installed varies due to the soil conditions and system type (e.g. Single wire earth return (SWER)).

Additional earthing electrodes stakes may be installed to ensure the required earthing reading is obtained.

WARNING:SWER installations

- Contacting SWER earthing can be deadly
- Voltage is present on SWER transformer earthing systems either at 12.7 kV or 19.1kV
- NO excavation is allowed within 10 metres of a SWER transformer pole.

Excavating around electrical poles

Anyone intending to excavate around any electrical item risks serious injury or death as a result of contact with underground cables or the earthing system.

Assets around poles

For excavation depths greater than 250mm near power poles and stays you must arrange for an Essential Energy representative to attend the worksite 2 weeks prior to work commencing. Call Essential Energy on 13 23 91. More information is available in Essential Energy's operational procedure, 'Work near Essential Energy's underground assets: CEOP8041' which can be found at essentialenergy.com.au/construction

Unless otherwise agreed, underground assets and other obstructions around poles are to be kept a minimum distance of 300mm from the periphery of the pole, to allow inspections by the asset owner employees.

No excavation within 10 metres of a SWER transformer pole is to occur without the approval of the local electricity asset owner. It should be noted that the NSW Service and Installation Rules require a sketch of the underground service/consumers mains to be marked inside the switchboard.

The risks are higher for those earthing systems of the SWER constructions as the earthing is utilised as the return path.

Typically any electrical item installed on a pole will have an earth wire running down the pole into the ground, which includes:

- Transformers in urban and rural situations
- Isolation, protection and regulation items.

Transformers located on the ground (padmount and kiosk), besides having underground electrical cables, will have an earthing system installed around them.

Damaged earthing

If an earth cable has been damaged, maintain a clearance of eight (8) meters and contact Essential Energy on 13 23 91. **DONT ATTEMPT** to re-join the cable - this will place you at serious risk.

Operating near underground cables and earths

- Underground cables should never be moved or relocated unless under the express authority of the organisation or person responsible for the powerlines
- The excavator shall report all damage made to Essential Energy assets immediately. Damage includes: gouges, dents, holes and gas escapes
- Never undermine poles, cables, earthing cable, pad-mount and kiosk substations.

Above: Poles with become unstable if undermined

Make sure it can't go wrong

You should ensure that people at work, their equipment (tools and plant) or materials do not come within close proximity to underground powerlines unless:

- A written risk assessment has been completed and a safe system of work implemented
- The relevant safety precautions and worker training requirements, including WorkCover Codes of Practice and Essential Energy's requirements, have been implemented and complied with.

If working in close proximity to underground cables is unavoidable and the risk assessment has been completed, the following should be considered to control the risks and ensure work safety:

- Have the power switched off by Essential Energy
- Consider all conductors as live unless it is positively known they have been de-energised
- Where appropriate, provide ground markings to identify location and warn workers of the presence of underground power and other assets.

Emergency situations

In the event that contact with an underground powerline occurs or cables are exposed or damaged, remembering the following points could help save a life:

- If the situation is at all life threatening, immediately contact the Emergency Services on 000 (triple zero)
- Call Essential Energy's 24-hour supply interruptions line – **13 20 80** to switch off the power if required or report damage or exposure cables / conduits

- If any other underground assets are damaged you should contact the affected asset owners immediately
- Treat underground cables as alive, even if they appear to be dead
- Keep everyone at least eight metres away from the incident site, the person or any machinery making contact with underground cable

- Don't panic or touch the person receiving the electric shock – this could place you at risk
- Untrained, unequipped persons should not attempt to rescue a person receiving an electric shock. All too often secondary deaths occur when others go to the aid of earlier victims
- Remain on/inside the machinery until the supply is disconnected
- If possible, break contact between the machinery and underground cable.

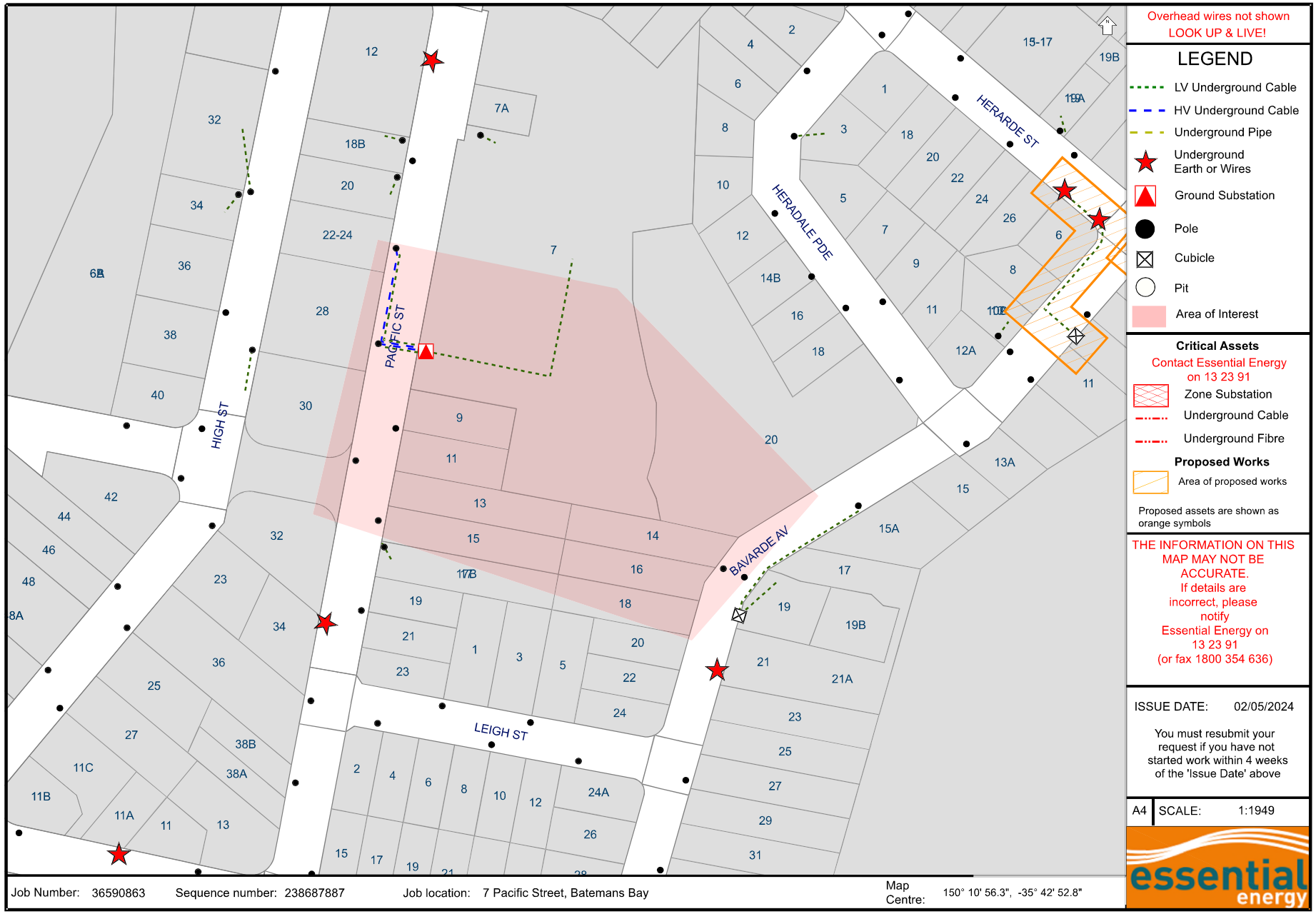
For more information

Essential Energy's Public Safety team is available to facilitate Electrical Awareness sessions and discuss any questions relating to electricall safety. For more information on electrical safety please call

- Essential Energy General Enquiries 13 23 91
- Essential Energy Supply Interruptions 13 20 80
- WorkCover NSW 13 10 50
- Dial Before You Dig www.1100.com.au 1100
- Follow us
- or visit essentialenergy.com.au/safety

Safety first: Before you dig or drive items into the ground

1. Contact DBYD
2. DO NOT attempt to excavate with in 10m of any power pole or electrical item
3. Contact Essential Energy on 13 23 91 for assistance to locate cables and earthing
4. Locate asset: Pot-hole
5. Proceed only if you have satisfied yourself it is safe.


HERARDE ST
HERADALE PDE
PACIFIC ST
HIGH ST
BAVARDE AV
LEIGH ST
Overhead wires not shown
LOOK UP & LIVE!
LEGEND
LV Underground Cable
HV Underground Cable
Underground Pipe
Underground Earth or Wires
Ground Substation
Pole
Cubicle
Pit
Area of Interest
Critical Assets
Contact Essential Energy on 13 23 91
Zone Substation
Underground Cable
Underground Fibre
Proposed Works
Area of proposed works
Proposed assets are shown as orange symbols
THE INFORMATION ON THIS MAP MAY NOT BE ACCURATE. If details are incorrect, please notify Essential Energy on 13 23 91 (or fax 1800 354 636)
ISSUE DATE: 02/05/2024
You must resubmit your request if you have not started work within 4 weeks of the 'Issue Date' above
A4
SCALE: 1:1949
essential energy
Job Number: 36590863
Sequence number: 238687887
Job location: 7 Pacific Street, Batemans Bay
Map Centre: 150° 10' 56.3", -35° 42' 52.8"

Date: Thursday, 2 May 2024

To: Brodie Bishop

Company: Getex

Address: Unit 2,64 Talavera Road Macquarie Park NSW 2113

ELECTRICAL CABLE LOCATION

Dear Brodie Bishop

With reference to your enquiry:

- **Location:** 7 Pacific Street Batemans Bay NSW 2536
- **Sequence No:** 238687887
- **Dial Before You Dig Job No:** 36590863
- **Dial Before You Dig Customer No:** 3040013

PLAN DOES NOT IDENTIFY ALL UNDERGROUND ASSETS IN THIS AREA. DO NOT COMMENCE EXCAVATION BEFORE CALLING TECHNICAL ENQUIRIES ON 13 23 91.

www.essentialenergy.com.au
ABN 37 428 185 226
PO Box 5730 Port Macquarie NSW 2444
Telephone: 13 23 91 Facsimile: 1800 354 636

NBN Co NswAct

Referral
238687886

Member Phone
1800 687 626

Responses from this member

Response received Thu 2 May 2024 3.03pm

File name	Page
Response Body	15
Disclaimer_238687886_20240502_050235670075.pdf	16
238687886_20240502_050235670075_1.pdf	20
4678_NBN_Dial_Before_You_Dig_Poster_20170517.pdf	24

Hi Brodie Bishop,

Please find attached the response to your DBYD referral for the address mentioned in the subject line.
The location shown in our DBYD response is assumed based off the information you have provided. If the location shown is different to the location of the excavation then this response will consequently be rendered invalid.
Take the time to read the response carefully and note that this information is only valid for 28 days after the date of issue.
If you have any further enquiries, please do not hesitate to contact us.

Regards,
Network Services and Operations
NBN Co Limited
P: 1800626329
E: dbyd@nbnco.com.au
www.nbnco.com.au

To:	Brodie Bishop
Phone:	Not Supplied
Fax:	Not Supplied
Email:	brodie.bishop@getex.com.au

Dial before you dig Job #:	36590863	
Sequence #	238687886	
Issue Date:	02/05/2024	
Location:	7 Pacific Street , Batemans Bay , NSW , 2536	

Information

The area of interest requested by you contains one or more assets.

nbn™ Assets	Search Results
Communications	Asset identified
Electricity	No assets

In this notice **nbn™ Facilities** means *underground fibre optic, telecommunications and/or power facilities, including but not limited to cables, owned and controlled by* ***nbn™***

Location of **nbn™** Underground Assets

We thank you for your enquiry. In relation to your enquiry at the above address:

- **nbn's** records indicate that there **ARE nbn™** Facilities in the vicinity of the location identified above ("Location").
- **nbn** indicative plan/s are attached with this notice ("Indicative Plans").
- The Indicative Plan/s show general depth and alignment information only and are not an exact, scale or accurate depiction of the location, depth and alignment of **nbn™** Facilities shown on the Plan/s.
- In particular, the fact that the Indicative Plans show that a facility is installed in a straight line, or at uniform depth along its length cannot be relied upon as evidence that the facility is, in fact, installed in a straight line or at uniform depth.
- You should read the Indicative Plans in conjunction with this notice and in particular, the notes below.
- You should note that, at the present time, the Indicative Plans are likely to be more accurate in showing location of fibre optics and telecommunications cables than power cables. There may be a variation between the line depicted on the Indicative Plans and the location of any power cables. As such, consistent with the notes below, particular care must be taken by you to make your own enquiries and investigations to precisely locate any power cables and manage the risk arising from such cables accordingly.
- The information contained in the Indicative Plan/s is valid for 28 days from the date of issue set out above.You are expected to make your own inquiries and perform your own investigations (including engaging appropriately qualified plant locators, e.g DBYD Certified Locators, at your cost to locate **nbn™** Facilities during any activities you carry out on site).

We thank you for your enquiry and appreciate your continued use of the Dial Before You Dig Service. For any enquiries related to moving assets or Planning and Design activities, please visit the **nbn** Commercial Works website to complete the online application form. If you are planning to excavate and require further information, please email dbyd@nbnco.com.au or call 1800 626 329.

Notes:

1. You are now aware that there are **nbn™** Facilities in the vicinity of the above property that could be damaged as a result activities carried out (or proposed to be carried out) by you in the vicinity of the Location.
2. You should have regard to section 474.6 and 474.7 of the *Criminal Code Act 1995* (CoA) which deals with the consequences of interfering or tampering with a telecommunications facility. Only persons authorised by **nbn** can interact with **nbn's** network facilities.
3. Any information provided is valid only for **28 days** from the date of issue set out above.

Referral Conditions

The following are conditions on which **nbn** provides you with the Indicative Plans. By accepting the plans,you are agreeing to these conditions. These conditions are in addition, and not in replacement of, any duties and obligations you have under applicable law.

1. **nbn** does not accept any responsibility for any inaccuracies of its plans including the Indicative Plans. You are expected to make your own inquiries and perform your own investigations (including engaging appropriately qualified plant locators, e.g DBYD Certified Locators, at your cost to locate **nbn™** Facilities during any activities you carry out on site).
2. You acknowledge that **nbn** has specifically notified you above that the Indicative Plans are likely to be more accurate in showing location of fibre optics and telecommunications cables than power cables. There may be a variation between the line depicted on the Indicative Plans and the location of any power cables.
3. You should not assume that **nbn™** Facilities follow straight lines or are installed at uniformed depths

along their lengths, even if they are indicated on plans provided to you. Careful onsite investigations are essential to locate the exact position of cables.

4. In carrying out any works in the vicinity of **nbn™** Facilities, you must maintain the following minimum clearances:
   - 300mm when laying assets inline, horizontally or vertically.
   - 500mm when operating vibrating equipment, for example: jackhammers or vibrating plates.
   - 1000mm when operating mechanical excavators.
   - Adherence to clearances as directed by other asset owner's instructions and take into account any uncertainty for power cables.
5. You are aware that there are inherent risks and dangers associated with carrying out work in the vicinity of underground facilities (such as **nbn™** fibre optic,copper and coaxial cables,and power cable feed to **nbn™** assets).Damage to underground electric cables may result in:
   - Injury from electric shock or severe burns, with the possibility of death.
   - Interruption of the electricity supply to wide areas of the city.
   - Damage to your excavating plant.
   - Responsibility for the cost of repairs.
6. You must take all reasonable precautions to avoid damaging **nbn™** Facilities. These precautions may include but not limited to the following:
   - All excavation sites should be examined for underground cables by careful hand excavation. Cable cover slabs if present must not be disturbed. Hand excavation needs to be undertaken with extreme care to minimise the likelihood of damage to the cable, for example: the blades of hand equipment should be aligned parallel to the line of the cable rather than digging across the cable.
   - If any undisclosed underground cables are located, notify **nbn** immediately.
   - All personnel must be properly briefed, particularly those associated with the use of earth-moving equipment, trenching, boring and pneumatic equipment.
   - The safety of the public and other workers must be ensured.
   - All excavations must be undertaken in accordance with all relevant legislation and regulations.
7. You will be responsible for all damage to **nbn™** Facilities that are connected whether directly, or indirectly with work you carry out (or work that is carried out for you or on your behalf) at the Location. This will include, without limitation, all losses expenses incurred by **nbn** as a result of any such damage.
8. You must immediately report any damage to the **nbn™** network that you are/become aware of. Notification may be by telephone - 1800 626 329.
9. Except to the extent that liability may not be capable of lawful exclusion, **nbn** and its servants and agents and the related bodies corporate of **nbn** and their servants and agents shall be under no liability whatsoever to any person for any loss or damage (including indirect or consequential loss or damage) however caused (including, without limitation, breach of contract negligence and/or breach of statute) which may be suffered or incurred from or in connection with this information sheet or any plans(including Indicative Plans) attached hereto. Except as expressly provided to the contrary in this information sheet or the attached plans(including Indicative Plans), all terms, conditions, warranties, undertakings or representations (whether expressed or implied) are excluded to the fullest extent permitted by law.

All works undertaken shall be in accordance with all relevant legislations, acts and regulations applicable to the particular state or territory of the Location. The following table lists all relevant documents that shall be considered and adhered to.

State/Territory	Documents
National	Work Health and Safety Act 2011
	Work Health and Safety Regulations 2011
	Safe Work Australia - Working in the Vicinity of Overhead and Underground Electric Lines (Draft)

	Occupational Health and Safety Act 1991
NSW	Electricity Supply Act 1995
	Work Cover NSW - Work Near Underground Assets Guide
	Work Cover NSW - Excavation Work: Code of Practice
VIC	Electricity Safety Act 1998
	Electricity Safety (Network Asset) Regulations 1999
QLD	Electrical Safety Act 2002
	Code of Practice for Working Near Exposed Live Parts
SA	Electricity Act 1996
TAS	Tasmanian Electricity Supply Industry Act 1995
WA	Electricity Act 1945
	Electricity Regulations 1947
NT	Electricity Reform Act 2005
	Electricity Reform (Safety and Technical) Regulations 2005
ACT	Electricity Act 1971

Thank You,

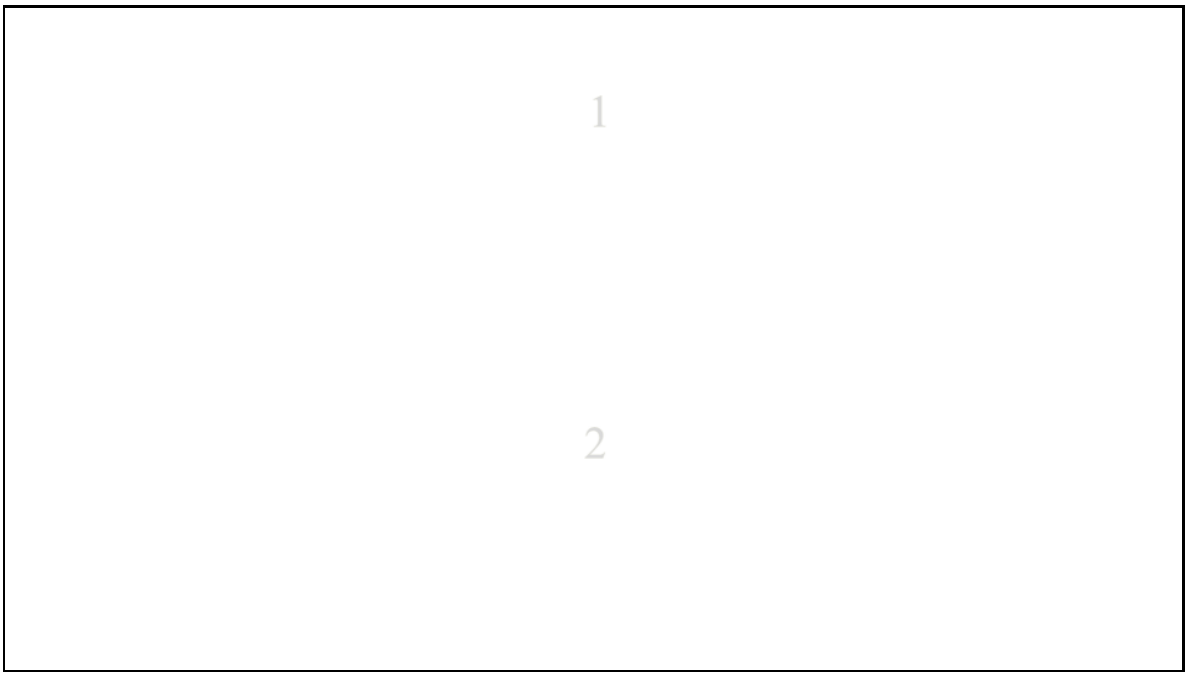
nbn DBYD

Date: 02/05/2024

To:	Brodie Bishop
Phone:	Not Supplied
Fax:	Not Supplied
Email:	brodie.bishop@getex.com.au

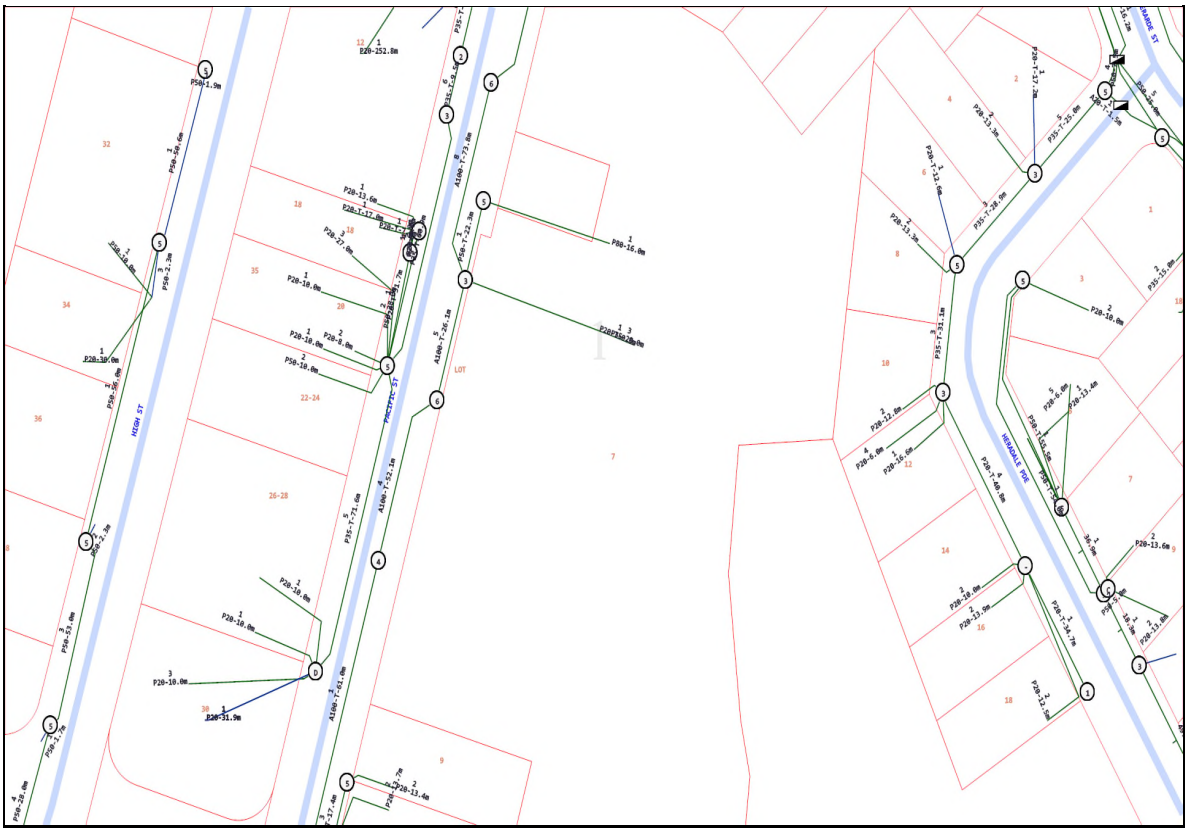
Dial before you dig Job #:	36590863
Sequence #	238687886
Issue Date:	02/05/2024
Location:	7 Pacific Street , Batemans Bay , NSW , 2536

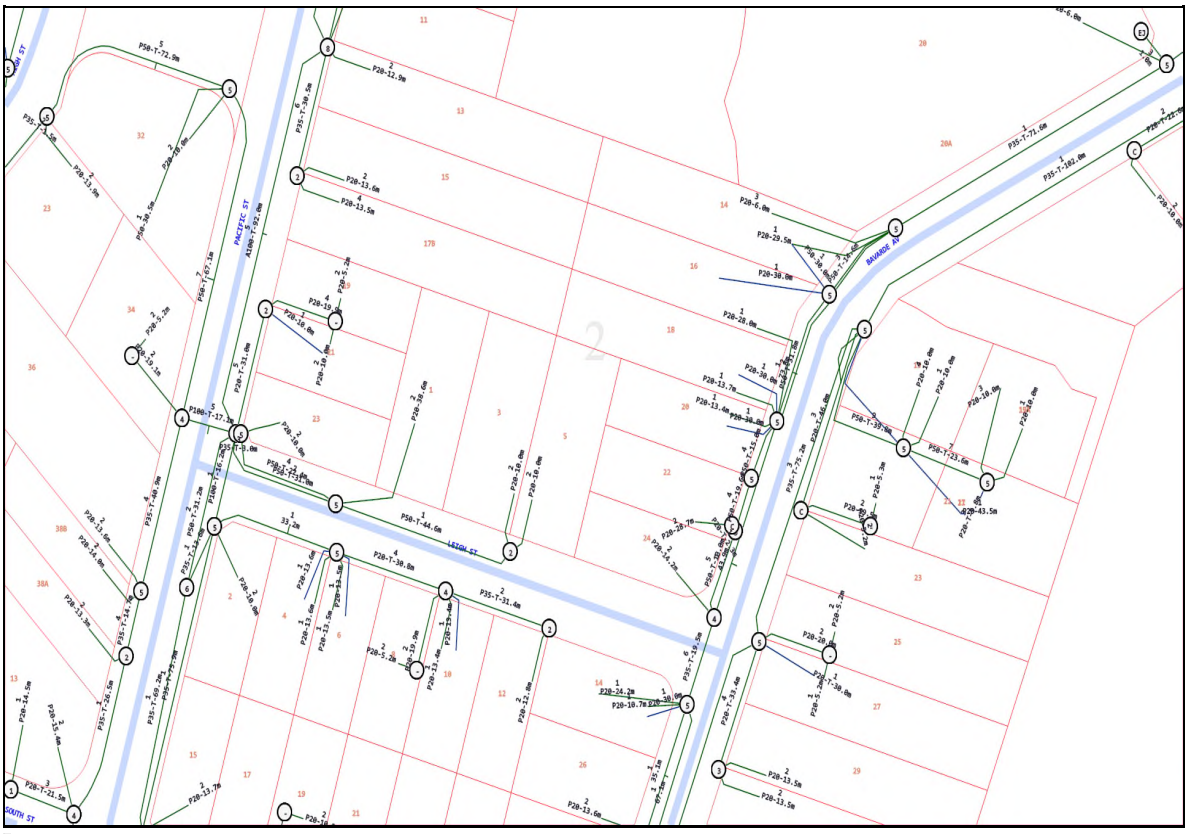
Indicative Plans



LEGEND

34	Parcel and the location
5	Pit with size "5"
2E	Power Pit with size "2E". Valid PIT Size: e.g. 2E, 5E, 6E, 8E, 9E, E, null.
	Manhole
	Pillar
2 PO – T- 25.0m P40 – 20.0m 5 9	Cable count of trench is 2. One "Other size" PVC conduit (PO) owned by Telstra (-T-), between pits of sizes, "5" and "9" are 25.0m apart. One 40mm PVC conduit (P40) owned by NBN, between pits of sizes, "5" and "9" are 20.0m apart.
2 10.0m 5 9	2 Direct buried cables between pits of sizes ,"5" and "9" are 10.0m apart.
5 9	Trench containing any INSERVICE/CONSTRUCTED (Copper/RF/Fibre) cables.
5 9	Trench containing only DESIGNED/PLANNED (Copper/RF/Fibre/Power) cables.
5 9	Trench containing any INSERVICE/CONSTRUCTED (Power) cables.
BROADWAY ST	Road and the street name "Broadway ST"
Scale	0 20 40 60 Meters 1:2000 1 cm equals 20 m


HIGH ST
PACIFIC ST
HERMOSA WAY
LOT



Emergency Contacts

You must immediately report any damage to the **nbn™** network that you are/become aware of. Notification may be by telephone - 1800 626 329.

Working near nbn™ cables

nbn has partnered with Dial Before You Dig to give you a single point of contact to get information about **nbn** underground services owned by **nbn** and other utility/service providers in your area including communications, electricity, gas and other services. Contact with underground power cables and gas services can result in serious injury to the worker, and damage and costly repairs. You must familiarise yourself with all of the Referral Conditions (meaning the referral conditions referred to in the DBYD Notice provided by **nbn**).

Practice safe work habits

Once the DBYD plans are reviewed, the Five P's of Excavation should be adopted in conjunction with your safe work practices (which must be compliant with the relevant state Electrical Safety Act and Safe Work Australia "Excavation Work Code of Practice", as a minimum) to ensure the risk of any contact with underground **nbn** assets are minimised.

Plan: Plan your job by ensuring the plans received are current and apply to the work to be performed. Also check for any visual cues that may indicate the presence of services not covered in the DBYD plans.

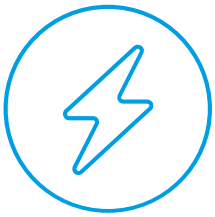
Prepare: Prepare for your job by engaging a DBYD Certified Plant Locator to help interpret plans and identify on-site assets. Contact **nbn** should you require further assistance.

Pothole: Non-destructive potholing (i.e. hand digging or hydro excavation) should be used to positively locate **nbn** underground assets with minimal risk of contact and service damage.

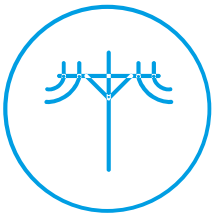
Protect: Protecting and supporting the exposed **nbn** underground asset is the responsibility of the worker. Exclusion zones for **nbn** assets are clearly stated in the plan and appropriate controls must be implemented to ensure that encroachment into the exclusion zone by machinery or activities with the potential to damage the asset is prevented.

Proceed: Proceed only when the appropriate planning, preparation, potholing and protective measures are in place.

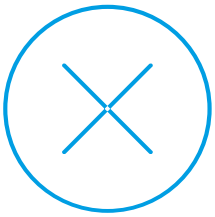
Working near **nbn**™ cables



Identify all electrical hazards, assess the risks and establish control measures.



When using excavators and other machinery, also check the location of overhead power lines.



Workers and equipment must maintain safety exclusion zones around power lines.

Once all work is completed, the excavation should be re-instated with the same type of excavated material unless specified by **nbn**. Please note:

- Construction Partners of **nbn** may require additional controls to be in place when performing excavation activities.
- The information contained within this pamphlet must be used in conjunction with other material supplied as part of this request for information to adequately control the risk of potential asset damage.

Contact

All nbn™ network facility damages must be reported online here.
For enquiries related to your DBYD request please call 1800 626 329.

DIAL BEFORE YOU DIG www.1100.com.au

Telstra NSW South

Referral
238687888

Member Phone
1800 653 935

Responses from this member

Response received Thu 2 May 2024 10.57am

File name	Page
Response Body	27
Telstra Map Legend v3_9a.pdf	28
NSW SOUTH_AccreditedPlantLocators 2021-09-22a.pdf	30
Telstra Duty of Care v31.4a.pdf	31
238687888.pdf	35

Attention: Brodie Bishop

Site Location: 7 Pacific Street, Batemans Bay, NSW 2536

Your Job Reference: 12740

Please do not reply to this email, this is an automated message -

Thank you for requesting Telstra information via Before You Dig Australia (BYDA).

This response contains Telstra information relating to your recent BYDA request.

Information for opening Telstra Asset Plans as well as some other useful contact information is listed in the attached **Telstra Map Legend attached**.

Please refer to all enclosed attachments for more information.
Please Report Damage to Telstra Equipment: Report damages to Telstra equipment - Telstra

Please note:
When working in the vicinity of telecommunications plant you have a 'Duty of Care' that must be observed. Please ensure you read the 'Telstra Duty of Care' document (attached) - it contains important information including essential steps that must be undertaken prior to commencing construction activities.

WARNING - MAJOR CABLES and/or OPTIC FIBRE IN THE AREA.

Phone 1800 653 935 for further assistance.

Note: In some areas Telstra fibre routes may be marked as "Amcom", as Telstra has purchased much of this infrastructure. If in doubt, please contact Telstra Plan services on the number above. Telstra plans and information are only valid for 60 days from the date of issue.

WARNING:
Telstra plans and location information conform to Quality Level 'D' of the Australian Standard AS 5488 - Classification of Subsurface Utility Information. As such, Telstra supplied location information is indicative only. Spatial accuracy is not applicable to Quality Level D. Refer to AS 5488 for further details. The exact position of Telstra assets can only be validated by physically exposing them. Telstra does not warrant or hold out that its plans are accurate and accepts no responsibility for any inaccuracy. Further on site investigation is required to validate the exact location of Telstra assets prior to commencing work. A Certified Locating Organisation is an essential part of the process to validate the exact location of Telstra assets and to ensure the assets are protected during construction works. See the Steps - Working Near Telecommunications Assets (attached Telstra Duty of Care).
Please note that:
- it is a criminal offence under the *Criminal Code Act* 1995 (Cth) to tamper or interfere with telecommunications infrastructure.
- Telstra will take action to recover compensation for damage caused to property and assets, and for interference with the operation of Telstra's networks and customers' services.

Telstra's plans contain Telstra's confidential information and are provided on the basis that they are used solely for identifying the location or vicinity of Telstra's infrastructure to avoid damage to this infrastructure occurring as part of any digging or other excavation activity. You must not use Telstra's plans for any other purpose or in a way that will cause Telstra loss or damage and you must comply with any other terms of access to the data that have been provided to you by Telstra (including Conditions of Use or Access).

(See attached file: Telstra Duty of Care v31.4a.pdf)

(See attached file: Telstra Map Legend v3_9a.pdf)

(See attached file: NSW SOUTH_AccreditedPlantLocators 2021-09-22a.pdf)

(See attached file: 238687888.pdf)

Telstra Cable Plans are generated automatically in either PDF or DWF file types, dependent on the site address and the size of area selected. You may need to download and install free viewing software from the internet e.g.

DWF Map Files (all sizes over A3)

Autodesk Viewer (Browser) (https://viewer.autodesk.com/) or

Autodesk Design Review (http://usa.autodesk.com/design-review/) for DWF files. (Windows PC)

PDF Map Files (max size A3)

Adobe Acrobat Reader (http://get.adobe.com/reader/)

Telstra BYDA map related enquiries email

Telstra.Plans@team.telstra.com

1800 653 935 (AEST Business Hours only)

REPORT ANY DAMAGE TO THE TELSTRA NETWORK IMMEDIATELY

Report online - https://www.telstra.com.au/forms/report-damage-to-telstra-equipment

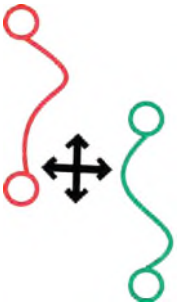
Ph: **13 22 03**

If you receive a message asking for a phone or account number say:

“I don’t have one” then say “Report Damage” then press 1 to speak to an operator.

Telstra New Connections / Disconnections

13 22 00



Telstra asset relocation enquiries: 1800 810 443 (AEST business hours only).

NetworkIntegrity@team.telstra.com

https://www.telstra.com.au/consumer-advice/digging-construction

Certified Locating Organisation (CLO)

https://dbydlocator.com/certified-locating-organisation/

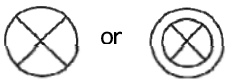
Please refer to attached Accredited Plant Locator.pdf

LEGEND

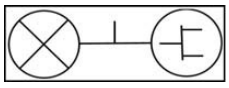
For more info contact a Certified Locating Organisation or Telstra Plan Services 1800 653 935

Exchange
(Major Cable Present)

Footway Access Chamber
(can vary from 1-lid to 12-lid)



Pillar / Cabinet
(above ground / free standing)



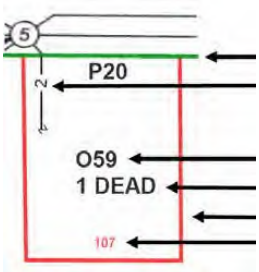
Above ground complex equipment housing (eg RIM)
Please Note: This equipment is powered by 240V Electricity

OC

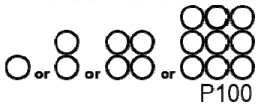
Other Carrier Telecommunications Cable/Asset

Dist
MC

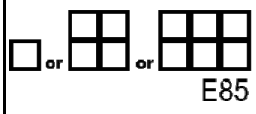
Distribution cables in Main Cable ducts
Main Cable ducts on a Distribution plan
Blocked or damaged duct.



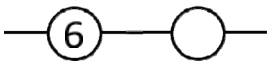
Roadside / Front Boundary
2 pair lead-in to property from pit in street 1
pair working (pair ID 059)
1 pair dead (i.e. spare, not connected)
Side / Rear Property Boundary
Property Number



Single to multiple round conduit
Configurations 1,2,4,9 respectively
(attached text denotes conduit type and size)

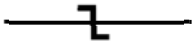


Multiple square conduit
Configurations 2, 4, 6 respectively
(attached text denotes conduit type and size)



Cable Jointing Pit
(number / Letter indicating Pit Type)

Elevated Joint
(above ground joint on buried cable)

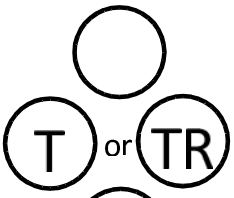


Telstra Plant in shared Utility trench

Aerial Cable / Overhead (includes on wall)

Aerial Cable
(attached to joint Use Pole e.g. Power)

Direct Buried Cable



Marker Post Installed

Buried Transponder

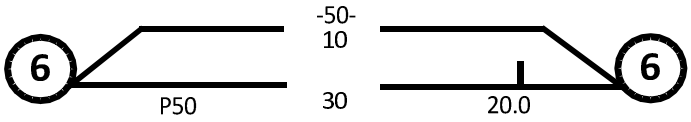
Marker Post, Transponder

Optical Fiber cable direct buried

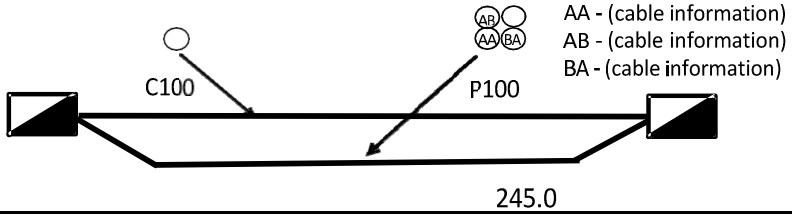
Some examples of conduit type and size:

A - Asbestos cement, P - PVC / Plastic, C - Concrete,
GI - Galanised iron, E - Earthenware
Conduit sizes *nominally* range from 20mm to 100mm
P50 50mm PVC conduit
P100 100mm PVC conduit
A100 100mm asbestos cement conduit

Some Examples of how to read Telstra Plans



One 50mm PVC conduit (P50) containing a 50-pair and a 10-pair cable between two 6-pits. approximately 20.0m apart, with a direct buried 30-pair cable along the same route



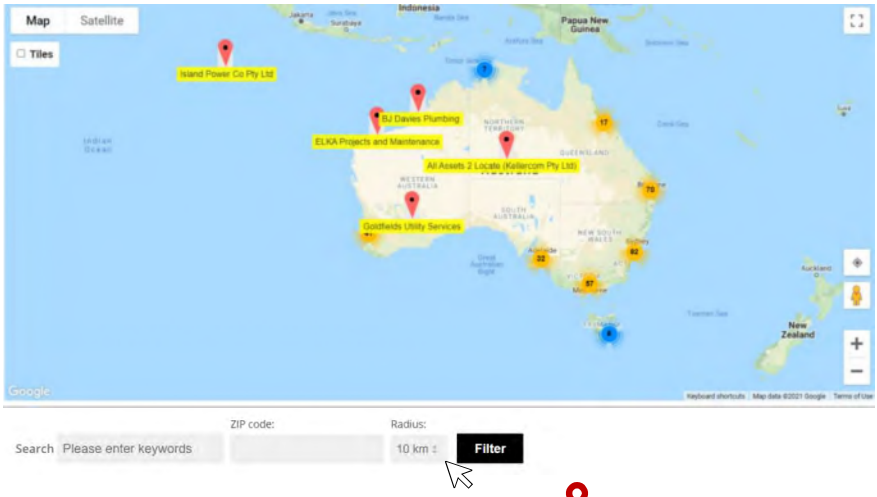
Two separate conduit runs between two footway access chambers (manholes) approximately 245m apart A nest of four 100mm PVC conduits (P100) containing assorted cables in three ducts (one being empty) and one empty 100mm concrete duct (C100)

Certified Locating Organisations (CLO)

Find the closest CLO to your worksite on: https://dbydlocator.com/certified-locating-organisation/

Read the disclaimer and click: 

A national map and an A-Z list of Certified Locating Organisations is displayed.



Use the map to zoom to your work area and choose the closest Locator indicated.

OR search by entering the **postcode** of your work area.

1. **Enter the post/zip code**
2. **Choose your search radius**
3. **Click filter** (If there is no result, you may have to increase the search radius)
4. **Click on the closest for CLO details or view the results displayed below the map**

Locator skills have been tested, and the Organisation has calibrated location and safety equipment.

Telstra is aware of each Certified Locating Organisation and their employee locators.

Only a DBYD Certified Locator registered with a Certified Locating Organisation is authorised to access Telstra network for locating purposes.

Each Certified Locator working for a CLO is issued with a photo ID Card, authorising them to access Telstra pits and manholes for the purpose of cable and plant locations.

Please ask to see your Locators' CLO ID Card.

Before You Dig Australia

Think before you dig

This document has been sent to you because you requested plans of the Telstra network through Before You Dig Australia (BYDA).

If you are working or excavating near telecommunications cables, or there is a chance that cables are located near your site, you are responsible to avoid causing damage to the Telstra network.

Please read this document carefully. Taking your time now and following the steps below can help you avoid damaging our network, interrupting services, and potentially incurring civil and criminal penalties.

Our network is complex and working near it requires expert knowledge. Do not attempt these activities if you are not qualified to do so.

Useful information

Further Information

Cable Plan enquiries
1800 653 935 (AEST business hours only)

Telstra.Plans@team.telstra.com

Information on how to find cables and request asset relocations:

https://www.telstra.com.au/consumer-advice/digging_construction

Opening Digital Plan Attachments. Asset Plan Readers:

PDF Adobe Acrobat Reader DC Install for all versions
DWF Map Files (all sizes over A3)
Autodesk Viewer (Browser) or
Autodesk Design Review (Microsoft Windows)

Report any damage immediately

https://www.telstra.com.au/forms/report-damage-to-telstra-equipment

13 22 03
If you receive a message asking for an account or phone number say
"I Don't have one"
Then say, "Report Damage" and listen to the prompts.

Relocating Telstra Assets

If your project requires the relocation of a Telstra asset, please contact the Telstra Network Integrity Group:

1800 810 443 (AEST business hours only)

NetworkIntegrity@team.telstra.com

Never try to move or alter our network infrastructure without authorisation. By law, only authorised people can work on our assets or enter a facility owned or operated by us. Any interference, including unauthorised entry or tampering, may result in legal action.

Certified Locating Organisation (CLO)

Engage a CLO

Find your Closest CLO to identify , validate and protect Telstra Assets before you commence you work.
https://dbydlocator.com/certified-locating-organisation/

Your checklist

1. Plan

Plan your work with the latest plans of our network.

Plans provided through the BYDA process are indicative only*.

This means the actual location of our asset may differ substantially from that shown on the plans.

Refer to steps 2 and 3 to determine actual location prior to proceeding with construction.

2. Prepare

Engage a DBYD Certified Locating Organisation (CLO) via dbydlocator.com to identify, validate and protect Telstra assets before you commence work.

3. Pothole

Validate underground assets by potholing by hand or using non-destructive vacuum extraction methods.

Electronic detection alone (step 2) is not deemed to validate underground assets and must not be used for construction purposes.

If you cannot validate the Telstra network, you must not proceed with construction.

4. Protect

Protect our network by maintaining the following distances from our assets:

- 1.0m Mechanical Excavators, Farm Ploughing, Tree Removal
- 500mm Vibrating Plate or Wacker Packer Compactor
- 600mm Heavy Vehicle Traffic (over 3 tonnes) not to be driven across Telstra ducts or plant
- 1.0m Jackhammers/Pneumatic Breakers
- 2.0m Boring Equipment (in-line, horizontal and vertical)

5. Proceed

You can proceed with your work only once you have completed all the appropriate preparation, potholing and protection.

Disclaimer and legal details

*Telstra advises that the accuracy of the information provided by Telstra conforms to Quality Level D as defined in AS5488-2013.

It is a criminal offence under the Criminal Code Act 1995 (Cth) to tamper or interfere with telecommunications infrastructure.

Telstra will also take action to recover costs and damages from persons who damage assets or interfere with the operation of **Telstra's** networks.

By receiving this information including the indicative plans that are provided as part of this information package you confirm that you understand and accept the risks of working near **Telstra's** network and the importance of taking all of the necessary steps to confirm the presence, alignments and various depths of **Telstra's** network. This in addition to, and not in replacement of, any duties and obligations you have under applicable law.

When working in the vicinity of a telecommunications plant you have a "Duty of Care" that must be observed. Please read and understand all the information and disclaimers provided below.

The Telstra network is complex and requires expert knowledge to interpret information, to identify and locate components, to pothole underground assets for validation and to safely work around assets without causing damage. If you are not an expert and/or qualified in these areas, then you must not attempt these activities. Telstra will seek compensation for damages caused to its property and losses caused to Telstra and its customers. Construction activities and/or any activities that potentially may impact on Telstra's assets must not commence without first undertaking these steps. Construction activities can include anything that involves breaking ground, potentially affecting Telstra assets.

If you are designing a project, it is recommended that you also undertake these steps to validate underground assets prior to committing to your design.

This Notice has been provided as a guide only and may not provide you with all the information that is required for you to determine what assets are on or near your site of interest. You will also need to collate and understand all of the information received from other Utilities and understand that some Utilities are not a part of the BYDA program and make your own enquiries as appropriate. It is the responsibility of the entities undertaking the works to protect **Telstra's** network during excavation / construction works.

Telstra owns and retains the copyright in all plans and details provided in conjunction with the applicant's request. The applicant is authorised to use the plans and details only for the purpose indicated in the applicant's request. The applicant must not use the plans or details for any other purpose.

Telstra plans or other details are provided only for the use of the applicant, its servants, agents, or Certified Locating Organisation. The applicant must not give the plans or details to any parties other than these and must not generate profit from commercialising the plans or details.

Telstra, its servants or agents shall not be liable for any loss or damage caused or occasioned by the use of plans and or details so supplied to the applicant, its servants and agents, and the applicant agrees to indemnify Telstra against any claim or demand for any such loss or damage.

Please ensure Telstra plans and information provided always remains on-site throughout the inspection, location, and construction phase of any works.

Telstra plans are valid for 60 days after issue and must be replaced if required after the 60 days.

Data Extraction Fees

In some instances, a data extraction fee may be applicable for the supply of Telstra information. Typically, a data extraction fee may apply to large projects, planning and design requests or requests to be supplied in non-standard formats. For further details contact Telstra Planned Services.

Telstra does not accept any liability or responsibility for the performance of or advice given by a Certified Locating Organisation. Certification is an initiative taken by Telstra towards the establishment and maintenance of competency standards. However, performance and the advice given will always depend on the nature of the individual engagement.

Neither the Certified Locating Organisation nor any of its employees are an employee or agent for Telstra. Telstra is not liable for any damage or loss caused by the Certified Locating Organisation or its employees.

Once all work is completed, the excavation should be reinstated with the same type of excavated material unless specified by Telstra

The information contained within this pamphlet must be used in conjunction with other material supplied as part of this request for information to adequately control the risk of potential asset damage.

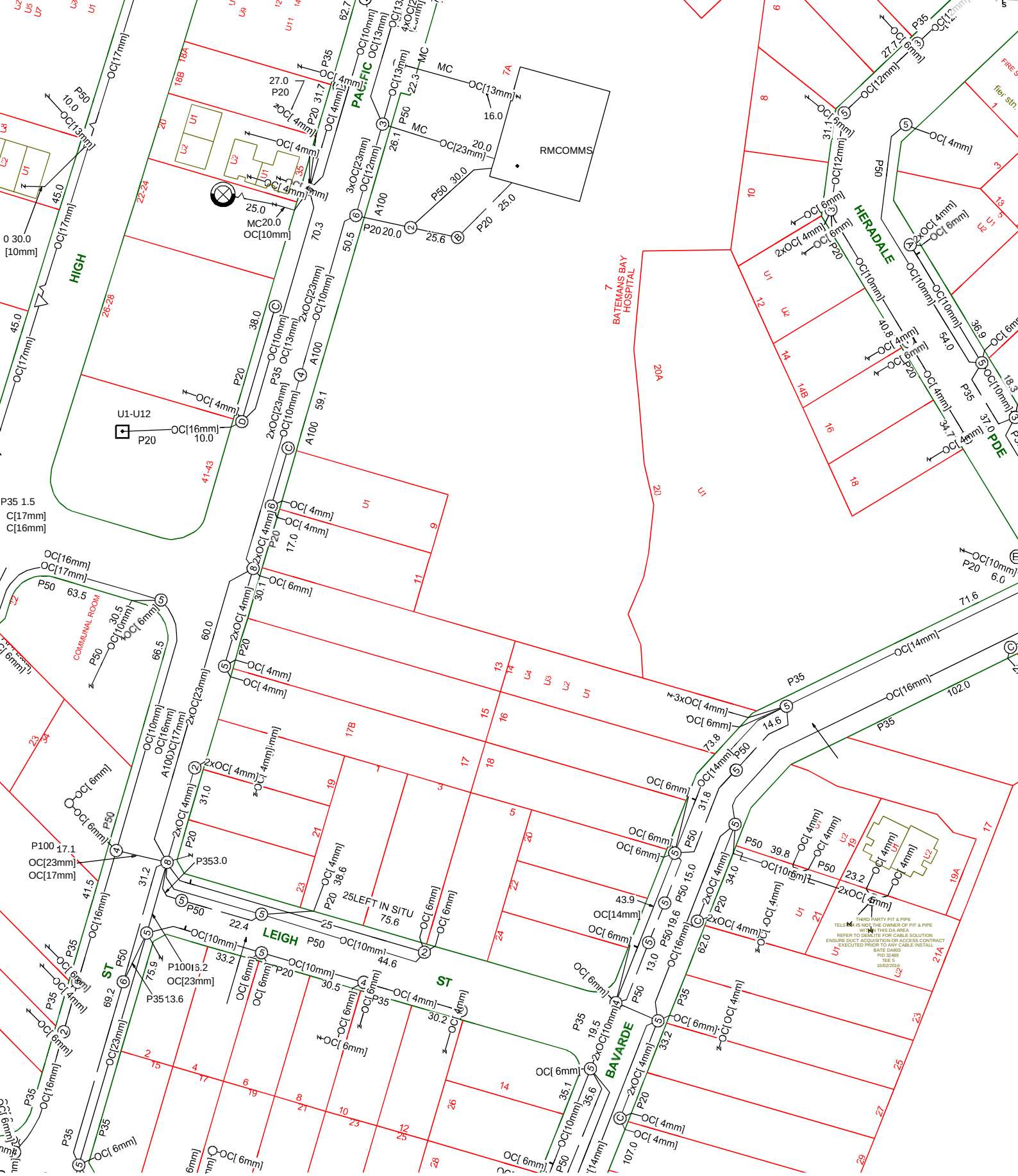
When using excavators and other machinery, also check the location of overhead power lines.

Workers and equipment must maintain safety exclusion zones around power lines

WARNING: Telstra plans and location information conform to Quality Level 'D' of the Australian Standard AS 5488 - Classification of Subsurface Utility Information. As such, Telstra supplied location information is indicative only. Spatial accuracy is not applicable to Quality Level D. Refer to AS 5488 for further details. Telstra does not warrant or hold out that its plans are accurate and accepts no responsibility for any inaccuracy shown on the plans. FURTHER ON SITE INVESTIGATION IS REQUIRED TO VALIDATE THE EXACT LOCATION OF TELSTRA PLANT PRIOR TO COMMENCING CONSTRUCTION WORK. A plant location service is an essential part of the process to validate the exact location of Telstra assets and to ensure the assets are protected during construction works. The exact position of Telstra assets can only be validated by physically exposing them. Telstra will seek compensation for damages caused to its property and losses caused to Telstra and its customers.

Privacy Note

Your information has been provided to Telstra by BYDA to enable Telstra to respond to your BYDA request. Telstra keeps your information in accordance with its privacy statement. You can obtain a copy at www.telstra.com.au/privacy or by calling us at 1800 039 059 (business hours only).



Report Damage: https://service.telstra.com.au/customer/general/forms/report-damage-to-telstra-equipment
Ph - 13 22 03
Email - Telstra.Plans@team.telstra.com
Planned Services - ph 1800 653 935 (AEST bus hrs only) General Enquiries

TELSTRA LIMITED A.C.N. 086 174 781

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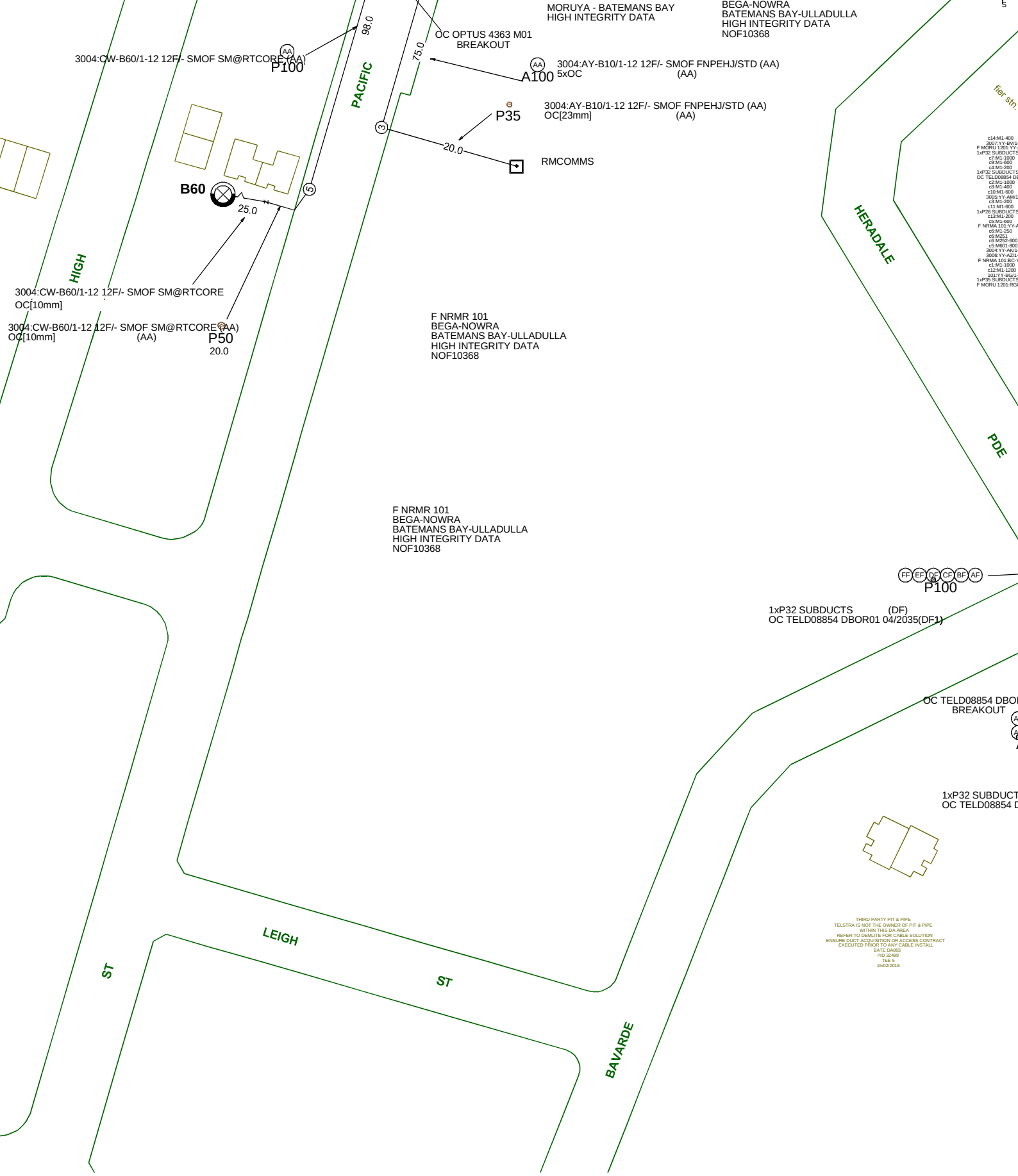
Sequence Number: 238687888

CAUTION: Fibre optic and/ or major network pr
in plot area. Please read the Duty of Care and
contact Telstra Plan Services should you requir
any assistance.

The above plan must be viewed in conjunction with the Mains Cable Plan on the following page

ns and location information conform to Quality Level "D" of the Australian Standard AS 5488-Classification of Subsurface Utility Information.



Report Damage: https://service.telstra.com.au/customer/general/forms/report-damage-to-telstra-equipment
Ph - 13 22 03
Email - Telstra.Plans@team.telstra.com
Planned Services - ph 1800 653 935 (AEST bus hrs only) General Enquiries

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CAUTION: Fibre optic and/ or major network pr
in plot area. Please read the Duty of Care and
contact Telstra Plan Services should you requir
any assistance.

ns and location information conform to Quality Level "D" of the Australian Standard AS 5488-Classification of Subsurface Utility Information.

End of document

This document may exclude some files (eg. DWF or ZIP files)

This document was automatically generated at a point-in-time. Be aware that the source information from which this document was created may have changed since it was produced. This document may contain incomplete or out-of-date information. Always check your enquiry details in the BYDA Referral Service for the most recent information. For copyright information refer to individual responses.

APPENDIX VII

ANALYSIS RESULTS

METALS				Sample Number	12740/ BH1/S1	12740/BH 1/S2	12740/BH 1/S3	12740/BH 2/S1	12740/BH 2/S2	12740/BH 3/S1	12740/BH 3/S2	12740/BH 3/S3	12740/BH 4/S1	12740/BH 4/S3	12740/BH 5/S1	12740/BH 5/S2	12740/BH 5/S3	12740/BH 6/S1	12740/BH 6/S2
				Sample Location	BH1	BH1	BH1	BH2	BH2	BH3	BH3	BH3	BH4	BH4	BH5	BH5	BH5	BH6	BH6
				Sample Depth from Surface (m)	0.1	0.9	1.9	0.1	0.8	0.1	0.5	1.5	0.1	2.9	0.1	0.6	2.5	0.1	1.0
ANALYTE	NEPM HIL	NEPM EIL	Units	PQL															
Arsenic	3000	160	mg/kg	1	5	9	8	9	11	9	3	6	13	11	10	8	16	7	10
Cadmium	900	-	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium	3600	1000	mg/kg	0.5	7.3	15	18	9.7	17	12	12	12	21	14	13	8.8	14	19	26
Copper	240000	280	mg/kg	0.5	16	24	15	65	19	23	15	13	32	30	26	18	35	30	32
Lead	1500	1800	mg/kg	1	7	36	12	7	9	6	20	8	8	6	4	6	5	3	11
Mercury	730	-	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Nickel	6000	220	mg/kg	0.5	13	27	4.7	8.3	3	6.9	35	5.4	12	<0.5	9.1	1.6	<0.5	28	2.2
Zinc	400000	690	mg/kg	2	50	130	43	31	18	22	110	22	10	11	7.1	3.9	5.4	12	23

TRH/BTEXN						Sample Number	12740/BH1/S1	12740/BH1/S2	12740/BH1/S3	12740/BH2/S1	12740/BH2/S2	12740/BH3/S1	12740/BH3/S2	12740/BH3/S3	12740/BH4/S1	12740/BH4/S3
						Sample Location	BH1	BH1	BH1	BH2	BH2	BH3	BH3	BH3	BH4	BH4
Sample Depth from Surface (m)	0 to <1	1 to <2	2 to <4				0.1	0.9	1.9	0.1	0.8	0.1	0.5	1.5	0.1	2.9
Soil Type	Sand	Clay	Clay				Sand	Sand	Sand	Sand	Sand	Sand	Sand	Clay	Sand	Clay
ANALYTE	NEPM HSL	NEPM HSL	NEPM HSL	Supplementary Guideline Level*	Units	PQL										
TRH C6 - C9	-	-	-	-	mg/kg	20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
TRH C6 - C10	-	-	-	-	mg/kg	25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
vTPH C6 - C10 less BTEX (F1)	260	480	NL	-	mg/kg	25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Benzene	3	6	9	-	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	NL	NL	NL	-	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	NL	NL	NL	-	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m+p-xylene	-	-	-	-	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-Xylene	-	-	-	-	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Naphthalene	NL	NL	NL	-	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve Xylenes	230	NL	NL	-	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
TRH C10 - C14	-	-	-	-	mg/kg	20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
TRH C15 - C28	-	-	-	-	mg/kg	45	<45	<45	<45	<45	<45	<45	<45	<45	<45	<45
TRH C29 - C36	-	-	-	-	mg/kg	45	<45	<45	<45	47	<45	<45	<45	<45	58	<45
Total +ve TRH (C10-C36)	-	-	-	-	mg/kg	110	<110	<110	<110	<110	<110	<110	<110	<110	<110	<110
TRH >C10-C16	-	-	-	-	mg/kg	25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
TRH >C10 - C16 less Naphthalene (F2)	NL	NL	NL	-	mg/kg	25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
TRH>C16-C34 (F3)	-	-	-	3500	mg/kg	90	<90	<90	<90	<90	<90	<90	<90	<90	<90	<90
TRH>C34-C40 (F4)	-	-	-	10000	mg/kg	120	<120	<120	<120	<120	<120	<120	<120	<120	<120	<120
Total +ve TRH (>C10-C40)	-	-	-	-	mg/kg	210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210

*Friebel, E & Nadebaum, P 2011a, HSLs for petroleum hydrocarbons in soil and groundwater, part 1: technical development document, Technical report no. 10, CRC for Contamination Assessment and Remediation of the Environment, Adelaide, Australia.

TRH/BTEXN						Sample Number	12740/BH5/S1	12740/BH5/S2	12740/BH5/S3	12740/BH6/S1	12740/BH6/S2
						Sample Location	BH5	BH5	BH5	BH6	BH6
Sample Depth from Surface (m)	0 to <1	1 to <2	2 to <4				0.1	0.6	2.5	0.1	1.0
Soil Type	Sand	Clay	Clay				Sand	Sand	Clay	Sand	Clay
ANALYTE	NEPM HSL	NEPM HSL	NEPM HSL	Supplementary Guideline Level*	Units	PQL					
TRH C6 - C9	-	-	-	-	mg/kg	20	<20	<20	<20	<20	<20
TRH C6 - C10	-	-	-	-	mg/kg	25	<25	<25	<25	<25	<25
vTPH C6 - C10 less BTEX (F1)	260	480	NL	-	mg/kg	25	<25	<25	<25	<25	<25
Benzene	3	6	9	-	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	NL	NL	NL	-	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	NL	NL	NL	-	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m+p-xylene	-	-	-	-	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-Xylene	-	-	-	-	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Naphthalene	3	NL	NL	-	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve Xylenes	230	NL	NL	-	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
TRH C10 - C14	-	-	-	-	mg/kg	20	<20	<20	<20	<20	<20
TRH C15 - C28	-	-	-	-	mg/kg	45	<45	<45	<45	<45	<45
TRH C29 - C36	-	-	-	-	mg/kg	45	<45	<45	<45	160	<45
Total +ve TRH (C10-C36)	-	-	-	-	mg/kg	110	<110	<110	<110	160	<110
TRH >C10-C16	-	-	-	-	mg/kg	25	<25	<25	<25	<25	<25
TRH >C10 - C16 less Naphthalene (F2)	NL	NL	NL	-	mg/kg	25	<25	<25	<25	<25	<25
TRH>C16-C34 (F3)	-	-	-	3500	mg/kg	90	<90	<90	<90	110	<90
TRH>C34-C40 (F4)	-	-	-	10000	mg/kg	120	<120	<120	<120	270	<120
Total +ve TRH (>C10-C40)	-	-	-	-	mg/kg	210	<210	<210	<210	380	<210

*Friebel, E & Nadebaum, P 2011a, HSLs for petroleum hydrocarbons in soil and groundwater, part 1: technical development document, Technical report no. 10, CRC for Contamination Assessment and Remediation of the Environment, Adelaide, Australia.

PAHs							Sample Number	12740/BH1/S 1	12740/BH1/S 2	12740/BH1/S 3	12740/BH2/S 1	12740/BH2/S 2	12740/BH3/S 1	12740/BH3/S 2	12740/BH3/S 3	12740/BH4/S 1	12740/BH4/S 3
							Sample Location	BH1	BH1	BH1	BH2	BH2	BH3	BH3	BH3	BH4	BH4
Sample Depth from Surface (m)	0 to <1	1 to <2	2 to <4		<2			0.1	0.9	1.9	0.1	0.8	0.1	0.5	1.5	0.1	2.9
Soil Type	Sand	Clay	Clay					Sand	Sand	Sand	Sand	Sand	Sand	Sand	Clay	Sand	Clay
ANALYTE	NEPM HSL	NEPM HSL	NEPM HSL	NEPM HIL	NEPM ESL/EIL	Units	PQL										
Naphthalene	NL	NL	NL	-	170	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	-	-	-	-	-	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	-	-	-	-	-	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	-	-	-	-	-	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	-	-	-	-	-	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	-	-	-	-	-	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	-	-	-	-	-	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	-	-	-	-	-	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	-	-	-	-	-	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	-	-	-	-	-	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	-	-	-	-	-	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	-	-	-	-	30*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	-	-	-	-	-	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	-	-	-	-	-	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	-	-	-	-	-	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	-	-	-	4000	-	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Benzo(a)pyrene TEQ calc (zero)	-	-	-	40	-	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene TEQ calc(half)	-	-	-	40	-	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Benzo(a)pyrene TEQ calc(PQL)	-	-	-	40	-	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

*Table 11 of *CRC CARE Technical Report No. 39 Risk-based remediation and management guidance for benzo(a)pyrene (March 2017)*

PAHs							Sample Number	12740/BH5/S1	12740/BH5/S2	12740/BH5/S3	12740/BH6/S1	12740/BH6/S2
							Sample Location	BH5	BH5	BH5	BH6	BH6
Sample Depth from Surface (m)	0 to <1	1 to <2	2 to <4		<2			0.1	0.6	2.5	0.1	1.0
Soil Type	Sand	Clay	Clay					Sand	Sand	Clay	Sand	Clay
ANALYTE	NEPM HSL	NEPM HSL	NEPM HSL	NEPM HIL	NEPM ESL/EIL	Units	PQL					
Naphthalene	NL	NL	NL	-	370	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	-	-	-	-	-	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	-	-	-	-	-	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	-	-	-	-	-	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	-	-	-	-	-	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	-	-	-	-	-	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	-	-	-	-	-	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	-	-	-	-	-	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	-	-	-	-	-	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	-	-	-	-	-	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	-	-	-	-	-	mg/kg	0.2	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	-	-	-	-	30*	mg/kg	0.05	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	-	-	-	-	-	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	-	-	-	-	-	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	-	-	-	-	-	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	-	-	-	4000	-	mg/kg	0.05	<0.8	<0.8	<0.8	<0.8	<0.8
Benzo(a)pyrene TEQ calc (zero)	-	-	-	40	-	mg/kg	0.5	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene TEQ calc(half)	-	-	-	40	-	mg/kg	0.5	<0.3	<0.3	<0.3	<0.3	<0.3
Benzo(a)pyrene TEQ calc(PQL)	-	-	-	40	-	mg/kg	0.5	<0.2	<0.2	<0.2	<0.2	<0.2

*Table 11 of *CRC CARE Technical Report No. 39 Risk-based remediation and management guidance for benzo(a)pyrene (March 2017)*

OCP/OPP				Sample Number	12740/BH1/S1	12740/BH1/S2	12740/BH1/S3	12740/BH2/S1	12740/BH2/S2	12740/BH3/S1	12740/BH3/S2	12740/BH3/S3	12740/BH4/S1	12740/BH4/S3
				Sample Location	BH1	BH1	BH1	BH2	BH2	BH3	BH3	BH3	BH4	BH4
				Sample Depth from Surface (m)	0.1	0.9	1.9	0.1	0.8	0.1	0.5	1.5	0.1	2.9
ANALYTE	NEPM HIL	NEPM EIL	Units	PQL										
pp-DDT	-	640	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
DDT+DDE+DDD	3600	-	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Aldrin and dieldrin	45	-	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total Chlordane	530	-	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total Endosulfan	2000	-	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Endrin	100	-	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	100	-	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total Heptachlor	50	-	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	50	-	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
HCB	80	-	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	2500	-	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	100	-	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Atrazine	2500	-	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos	2000	-	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

OCP/OPP				Sample Number	12740/BH5/S1	12740/BH5/S2	12740/BH5/S3	12740/BH6/S1	12740/BH6/S2
				Sample Location	BH5	BH5	BH5	BH6	BH6
				Sample Depth from Surface (m)	0.1	0.6	2.5	0.1	1.0
ANALYTE	NEPM HIL	NEPM EIL	Units	PQL					
pp-DDT	-	640	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
DDT+DDE+DDD	3600	-	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Aldrin and dieldrin	45	-	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total Chlordane	530	-	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total Endosulfan	2000	-	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Endrin	100	-	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	100	-	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total Heptachlor	50	-	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	50	-	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
HCB	80	-	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	2500	-	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	100	-	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Atrazine	2500	-	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos	2000	-	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2

Phenols			Sample Number	12740/ BH1/S1	12740/BH 1/S2	12740/BH 1/S3	12740/BH 2/S1	12740/BH 2/S2	12740/BH 3/S1	12740/BH 3/S2	12740/BH 3/S3	12740/BH 4/S1	12740/BH 4/S3	12740/BH 5/S1	12740/BH 5/S2	12740/BH 5/S3	12740/BH 6/S1	12740/BH 6/S2
			Sample Location	BH1	BH1	BH1	BH2	BH2	BH3	BH3	BH3	BH4	BH4	BH5	BH5	BH5	BH6	BH6
			Sample Depth from Surface (m)	0.1	0.9	1.9	0.1	0.8	0.1	0.5	1.5	0.1	2.9	0.1	0.6	2.5	0.1	1.0
ANALYTE	NEPM HIL	Units	PQL															
Phenol	240000	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Cresol	25000	mg/kg	1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
Pentachlorophenol	660	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

PCBs			Sample Number	12740/BH1/S1	12740/BH1/S2	12740/BH1/S3	12740/BH2/S1	12740/BH2/S2	12740/BH3/S1	12740/BH3/S2	12740/BH3/S3	12740/BH4/S1	12740/BH4/S3	12740/BH5/S1	12740/BH5/S2	12740/BH5/S3
			Sample Location	BH1	BH1	BH1	BH2	BH2	BH3	BH3	BH3	BH4	BH4	BH5	BH5	BH5
			Sample Depth from Surface (m)	0.1	0.9	1.9	0.1	0.8	0.1	0.5	1.5	0.1	2.9	0.1	0.9	1.9
ANALYTE	NEMP HIL	Units	PQL													
Total +ve PCBs (1016-1260)	7	mg/kg	1	<1	<1	<1	<1	<1	<1	<1	<1					

PCBs			Sample Number	12740/BH6/S1	12740/BH6/S2
			Sample Location	BH6	BH6
			Sample Depth from Surface (m)	0.1	1.0
ANALYTE	NEMP HIL	Units	PQL		
Total +ve PCBs (1016-1260)	7	mg/kg	1	<1	<1

Asbestos			Sample Number	12740/BH1/S1	12740/BH2/S1	12740/BH3/S1	12740/BH4/S1	12740/BH5/S1	12740/BH6/S1
			Sample Location	BH1	BH2	BH3	BH4	BH5	BH6
			Sample Depth from Surface (m)	0.1	0.1	0.1	0.1	0.1	0.1
ANALYTE	Criteria	Units	PQL						
Asbestos	NAD	-	0.1	NAD	NAD	NAD	NAD	NAD	NAD

NAD = No Asbestos Detected

APPENDIX VIII

LABORATORY ANALYSIS REPORTS

AUSTRALIAN SAFER ENVIRONMENT & TECHNOLOGY PTY LTD

ABN 36 088 095 112

Our ref : ASET117199 / 120379 / 1 - 6
Your ref : 12740
NATA Accreditation No: 14484

12 April 2024

Getex Pty Ltd
Suite 1.27, Level 1 22-28 Edgeworth David Avenue
Hornsby NSW 2077

Accredited for compliance with ISO/IEC 17025 - Testing.

Attn: Mr Justin Thompson-Laing

Dear Justin

Asbestos Identification
This report presents the results of six samples, forwarded by Getex Pty Ltd on 11 April 2024, for analysis for asbestos.

1.Introduction: Six samples forwarded were examined and analysed for the presence of asbestos.

2. Methods : The samples were examined under a Stereo Microscope and selected fibres were analysed by Polarized Light Microscopy in conjunction with Dispersion Staining method **(Australian Standard AS 4964 - 2004 and Safer Environment Method 1 as the supplementary work instruction) (Qualitative Analysis only).**

3. Results :

Sample No. 1. ASET117199 / 120379 / 1. 12740/BH1/S1.
Approx dimensions 8.0 cm x 8.0 cm x 3.9 cm
The sample consisted of a mixture of sandy soil, organic fibres, stones, fragments of clay, sandstone, wood chips and plant matter.
No asbestos detected.

Sample No. 2. ASET117199 / 120379 / 2. 12740/BH2/S2.
Approx dimensions 8.0 cm x 8.0 cm x 4.1 cm
The sample consisted of a mixture of sandy soil, organic fibres, stones, clay, sandstone and plant matter.
No asbestos detected.

Sample No. 3. ASET117199 / 120379 / 3. 12740/BH3/S3.
Approx dimensions 8.0 cm x 8.0 cm x 3.7 cm
The sample consisted of a mixture of sandy soil, organic fibres, stones, clay, sandstone and plant matter.
No asbestos detected.

Sample No. 4. ASET117199 / 120379 / 4. 12740/BH4/S4.
Approx dimensions 8.0 cm x 8.0 cm x 3.0 cm
The sample consisted of a mixture of sandy soil, organic fibres, stones, fragments of bitumen, clay, sandstone and plant matter.
No asbestos detected.

Sample No. 5. ASET117199 / 120379 / 5. 12740/BH5/S5.
Approx dimensions 8.0 cm x 8.0 cm x 3.1 cm
The sample consisted of a mixture of sandy soil, organic fibres, stones, fragments of bitumen, clay, sandstone, wood chips and plant matter.
No asbestos detected.

Sample No. 6. ASET117199 / 120379 / 6. 12740/BH6/S6.
Approx dimensions 8.0 cm x 8.0 cm x 3.9 cm
The sample consisted of a mixture of sandy soil, stones, fragments of bitumen, clay, sandstone and plant matter.
No asbestos detected.

Reported by,

Mahen De Silva. BSc, MSc, Grad Dip (Occ Hyg)
Occupational Hygienist / Approved Identifier.
Approved Signatory

Accredited for compliance with ISO/IEC 17025 - Testing.

The results contained in this report relate only to the sample/s submitted for testing. Australian Safer Environment & Technology accepts no responsibility for whether or not the submitted sample/s is/are representative. Results indicating "No asbestos detected" indicates a reporting limit specified in AS4964 -2004 which is 0.1g/ Kg (0.01%). Any amounts detected at assumed lower level than that would be reported, however those assumed lower levels may be treated as "No asbestos detected" as specified and recommended by A4964-2004. Trace / respirable level asbestos will be reported only when detected and trace analysis have been performed on each sample as required by AS4964-2004. When loose asbestos fibres/ fibre bundles are detected and reported that means they are larger handpicked fibres/ fibre bundles, and they do not represent respirable fibres. Dust/soil samples are always subjected to trace analysis except where the amounts involved are extremely minute and trace analysis is not possible to be carried out. When trace analysis is not performed on dust samples it will be indicated in the report that trace analysis has not been carried out due to the volume of the sample being extremely minute.

CHAIN OF CUSTODY FORM

From: Getex Pty Ltd
Address: Unit 2, Building B
64 Talavera Road
MACQUARIE PARK NSW 2113
Phone: (02) 9889 2488
Facsimile: (02) 9889 2499
Email: **help@getex.com.au**
Attention: Brodie Bishop

To: Australian Safer Environment & Technology Pty Ltd
Address: Unit 10 Level 7, 90 George Street Hornsby NSW 2077
Phone: (02) 99872183
Facsimile: (02) 99872151

Date: 11/04/24
Order No.: 8962
Project No.: 12740

TAT Required: 3 Days

ASET117199 / 120379 / 1-6

☐ Samples received at ambient temperature ☐ Samples received chilled Received by (signature) sk Date: 1:30pm

ASET Reference Number	GETEX Sample Number	Container (Plastic Tube – PT, Bag – B, Petri Dish – PD, Plastic Bottle – PB, Glass Jar – GJ, Glass Bottle – GB, Glass Vial - GV)	Analysis Required: Asbestos in Soil (NEPM)	Asbestos in Dust	Asbestos in Material	Asbestos Fibre Counting	Asbestos in Vinyl	Weight of ACM	Asbestos in Soil (Presence/ Absence)
1	12740/BH1/S1	B							X
2	12740/BH2/S2	B							X
3	12740/BH3/S3	B							X
4	12740/BH4/S4	B							X
5	12740/BH5/S5	B							X
6	12740/BH6/S6	B							X
		Total							6

RECEIVED
11 APR 2024
BY: ..

Getex Pty Ltd
Suite 1.27, Level 1/22-28 Edgeworth David Avenue
HORNSBY
NSW 2077

Attention: **Brodie Bishop**

Report **1086843-S**
Project name
Project ID 12740
Received Date Apr 11, 2024

Client Sample ID			**12740/BH1/S3 B**
Sample Matrix			**Soil**
Eurofins Sample No.			**S24-Ap0029548**
Date Sampled			**Apr 11, 2024**
Test/Reference	LOR	Unit	
Total Recoverable Hydrocarbons			
TRH C6-C9	20	mg/kg	< 20
TRH C10-C14	20	mg/kg	< 20
TRH C15-C28	50	mg/kg	< 50
TRH C29-C36	50	mg/kg	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50
TRH C6-C10	20	mg/kg	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20
TRH >C10-C16	50	mg/kg	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50
TRH >C16-C34	100	mg/kg	< 100
TRH >C34-C40	100	mg/kg	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100
BTEX			
Benzene	0.1	mg/kg	< 0.1
Toluene	0.1	mg/kg	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2
o-Xylene	0.1	mg/kg	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3
4-Bromofluorobenzene (surr.)	1	%	102
Total Recoverable Hydrocarbons - 2013 NEPM Fractions			
Naphthalene[N02]	0.5	mg/kg	< 0.5
Polycyclic Aromatic Hydrocarbons			
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2
Acenaphthene	0.5	mg/kg	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5
Anthracene	0.5	mg/kg	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5

Client Sample ID			12740/BH1/S3 B
Sample Matrix			**Soil**
Eurofins Sample No.			**S24-Ap0029548**
Date Sampled			**Apr 11, 2024**
Test/Reference	LOR	Unit	
Polycyclic Aromatic Hydrocarbons			
Chrysene	0.5	mg/kg	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5
Fluorene	0.5	mg/kg	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5
Naphthalene	0.5	mg/kg	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5
Pyrene	0.5	mg/kg	< 0.5
Total PAH*	0.5	mg/kg	< 0.5
2-Fluorobiphenyl (surr.)	1	%	73
p-Terphenyl-d14 (surr.)	1	%	61
Heavy Metals			
Arsenic	2	mg/kg	13
Cadmium	0.4	mg/kg	< 0.4
Chromium	5	mg/kg	23
Copper	5	mg/kg	22
Lead	5	mg/kg	16
Mercury	0.1	mg/kg	< 0.1
Nickel	5	mg/kg	7.7
Zinc	5	mg/kg	54
Sample Properties			
% Moisture	1	%	19

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Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Apr 12, 2024	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Apr 12, 2024	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Apr 12, 2024	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Sydney	Apr 12, 2024	14 Days
- Method: LTM-ORG-2010 BTEX and Volatile TRH			
Polycyclic Aromatic Hydrocarbons	Sydney	Apr 12, 2024	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Metals M8	Sydney	Apr 12, 2024	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
% Moisture	Sydney	Apr 12, 2024	14 Days
- Method: LTM-GEN-7080 Moisture			

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Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

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IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: Getex Pty Ltd
Address: Suite 1.27, Level 1/22-28 Edgeworth David Avenue
HORNSBY
NSW 2077

Project Name:
Project ID: 12740

Order No.: 8963
Report #: 1086843
Phone: 02 9889 2488
Fax: 02 9889 2499

Received: Apr 11, 2024 5:21 PM
Due: Apr 18, 2024
Priority: 5 Day
Contact Name: Brodie Bishop

Eurofins Analytical Services Manager : Asim Khan

Sample Detail						Moisture Set	Eurofins Suite B7
Sydney Laboratory - NATA # 1261 Site # 18217						X	X
External Laboratory							
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**		
1	12740/BH1/S3 B	Apr 11, 2024		Soil	S24-Ap0029548	X	X
Test Counts						1	1

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follow guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013. They are included in this QC report where applicable. Additional QC data may be available on request.
2. Unless otherwise stated, all soil/sediment/solid results are reported on a dry weight basis.
3. Unless otherwise stated, all biota/food results are reported on a wet weight basis on the edible portion.
4. For CEC results where the sample's origin is unknown or environmentally contaminated, the results should be used advisedly.
5. Actual LORs are matrix dependent. Quoted LORs may be raised where sample extracts are diluted due to interferences.
6. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds where annotated.
7. SVOC analysis on waters is performed on homogenised, unfiltered samples unless noted otherwise.
8. Samples were analysed on an 'as received' basis.
9. Information identified in this report with **blue** colour indicates data provided by customers that may have an impact on the results.
10. This report replaces any interim results previously issued.

Holding Times

Please refer to the 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours before sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and despite any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the sampling date; therefore, compliance with these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether, the holding time is seven days; however, for all other VOCs, such as BTEX or C6-10 TRH, the holding time is 14 days.

Units

mg/kg: milligrams per kilogram	**mg/L:** milligrams per litre	**ppm:** parts per million
µg/L: micrograms per litre	**ppb:** parts per billion	**%:** Percentage
org/100 mL: Organisms per 100 millilitres	**NTU:** Nephelometric Turbidity Units	**MPN/100 mL:** Most Probable Number of organisms per 100 millilitres
CFU: Colony Forming Unit	**Colour:** Pt-Co Units (CU)	

Terms

APHA	American Public Health Association
CEC	Cation Exchange Capacity
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where moisture has been determined on a solid sample, the result is expressed on a dry weight basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples, these are performed on laboratory-certified clean sands and in the case of water samples, these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC represents the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a similar compound to the analyte target is reported as percentage recovery. See below for acceptance criteria.
TBTO	Tributyltin oxide (*bis*-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment; however, free tributyltin was measured, and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 6.0
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should only be used as a guide and may be different when site-specific Sampling Analysis and Quality Plan (SAQP) have been implemented.

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is ≤30%; however, the following acceptance guidelines are equally applicable:

Results <10 times the LOR:	No Limit
Results between 10-20 times the LOR:	RPD must lie between 0-50%
Results >20 times the LOR:	RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range, not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS. SVOCs recoveries 20 – 150%, VOC recoveries 50 – 150%

PFAS field samples containing surrogate recoveries above the QC limit designated in QSM 6.0, where no positive PFAS results have been reported or reviewed, and no data was affected.

QC Data General Comments

1. Where a result is reported as less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown are not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time.Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery, the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results, a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data; thus, it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total*	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.1			0.1	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	84			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
TRH C10-C14	%	82			70-130	Pass	
TRH C6-C10	%	78			70-130	Pass	
TRH >C10-C16	%	82			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	113			70-130	Pass	
Toluene	%	115			70-130	Pass	
Ethylbenzene	%	111			70-130	Pass	
m&p-Xylenes	%	111			70-130	Pass	
o-Xylene	%	113			70-130	Pass	
Xylenes - Total*	%	112			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	114			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	86			70-130	Pass	
Acenaphthylene	%	90			70-130	Pass	
Anthracene	%	83			70-130	Pass	
Benz(a)anthracene	%	78			70-130	Pass	
Benzo(a)pyrene	%	83			70-130	Pass	
Benzo(b&j)fluoranthene	%	82			70-130	Pass	
Benzo(g.h.i)perylene	%	80			70-130	Pass	
Benzo(k)fluoranthene	%	90			70-130	Pass	
Chrysene	%	84			70-130	Pass	
Dibenz(a.h)anthracene	%	83			70-130	Pass	
Fluoranthene	%	90			70-130	Pass	
Fluorene	%	90			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	83			70-130	Pass	
Naphthalene	%	88			70-130	Pass	
Phenanthrene	%	83			70-130	Pass	
Pyrene	%	89			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	92			80-120	Pass	
Cadmium	%	95			80-120	Pass	
Chromium	%	88			80-120	Pass	
Copper	%	89			80-120	Pass	
Lead	%	89			80-120	Pass	
Mercury	%	101			80-120	Pass	
Nickel	%	93			80-120	Pass	
Zinc	%	92			80-120	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C6-C9	S24-Ap0035261	NCP	%	77			70-130	Pass	
TRH C10-C14	S24-Ap0029528	NCP	%	81			70-130	Pass	
TRH C6-C10	S24-Ap0035261	NCP	%	74			70-130	Pass	
TRH >C10-C16	S24-Ap0029528	NCP	%	79			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S24-Ap0035261	NCP	%	96			70-130	Pass	
Toluene	S24-Ap0035261	NCP	%	98			70-130	Pass	
Ethylbenzene	S24-Ap0035261	NCP	%	100			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
m&p-Xylenes	S24-Ap0035261	NCP	%	103			70-130	Pass	
o-Xylene	S24-Ap0035261	NCP	%	102			70-130	Pass	
Xylenes - Total*	S24-Ap0035261	NCP	%	103			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S24-Ap0035261	NCP	%	99			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S24-Ap0025978	NCP	%	99			70-130	Pass	
Acenaphthylene	S24-Ap0025978	NCP	%	92			70-130	Pass	
Anthracene	S24-Ap0025978	NCP	%	110			70-130	Pass	
Benz(a)anthracene	S24-Ap0025978	NCP	%	79			70-130	Pass	
Benzo(a)pyrene	S24-Ap0025978	NCP	%	73			70-130	Pass	
Benzo(b&j)fluoranthene	S24-Ap0015972	NCP	%	89			70-130	Pass	
Benzo(g.h.i)perylene	S24-Ap0025978	NCP	%	76			70-130	Pass	
Benzo(k)fluoranthene	S24-Ap0025978	NCP	%	107			70-130	Pass	
Chrysene	S24-Ap0025978	NCP	%	98			70-130	Pass	
Dibenz(a.h)anthracene	S24-Ap0025978	NCP	%	72			70-130	Pass	
Fluoranthene	S24-Ap0025978	NCP	%	98			70-130	Pass	
Fluorene	S24-Ap0025978	NCP	%	100			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S24-Ap0025978	NCP	%	75			70-130	Pass	
Naphthalene	S24-Ap0025978	NCP	%	109			70-130	Pass	
Phenanthrene	S24-Ap0025978	NCP	%	86			70-130	Pass	
Pyrene	S24-Ap0025978	NCP	%	108			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S24-Ap0030172	NCP	%	97			75-125	Pass	
Cadmium	S24-Ap0030172	NCP	%	97			75-125	Pass	
Chromium	S24-Ap0030172	NCP	%	93			75-125	Pass	
Copper	S24-Ap0030172	NCP	%	94			75-125	Pass	
Lead	S24-Ap0030172	NCP	%	90			75-125	Pass	
Mercury	S24-Ap0030172	NCP	%	107			75-125	Pass	
Nickel	S24-Ap0030172	NCP	%	99			75-125	Pass	
Zinc	S24-Ap0030172	NCP	%	97			75-125	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	S24-Ap0044179	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S24-Ap0025362	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S24-Ap0025362	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S24-Ap0025362	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C6-C10	S24-Ap0029860	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S24-Ap0025362	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S24-Ap0025362	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S24-Ap0025362	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S24-Ap0044179	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S24-Ap0044179	NCP	mg/kg	1.5	1.4	2.9	30%	Pass	
Ethylbenzene	S24-Ap0044179	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S24-Ap0029860	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S24-Ap0029860	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	S24-Ap0029860	NCP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	

Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S24-Ap0044179	NCP	mg/kg	1.1	1.3	16	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S24-Ap0029103	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S24-Ap0029103	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S24-Ap0029103	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S24-Ap0029103	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S24-Ap0029103	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S24-Ap0029103	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S24-Ap0029103	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S24-Ap0029103	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S24-Ap0029103	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S24-Ap0029103	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S24-Ap0029103	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S24-Ap0029103	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S24-Ap0029103	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S24-Ap0029103	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S24-Ap0029103	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S24-Ap0029103	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S24-Ap0029862	NCP	mg/kg	2.7	2.6	1.2	30%	Pass	
Cadmium	S24-Ap0029862	NCP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S24-Ap0029862	NCP	mg/kg	11	9.8	10.0	30%	Pass	
Copper	S24-Ap0029862	NCP	mg/kg	47	44	8.1	30%	Pass	
Lead	S24-Ap0029862	NCP	mg/kg	19	16	16	30%	Pass	
Mercury	S24-Ap0029862	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S24-Ap0029862	NCP	mg/kg	< 5	< 5	<1	30%	Pass	
Zinc	S24-Ap0029862	NCP	mg/kg	39	38	2.3	30%	Pass	
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	S24-Ap0029528	NCP	%	1.9	2.6	27	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs

Authorised by:

Asim Khan	Analytical Services Manager
Mickael Ros	Senior Analyst-Metal
Roopesh Rangarajan	Senior Analyst-Organic
Roopesh Rangarajan	Senior Analyst-Volatile

Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

GETEX

From: Getex Pty Ltd
Address: Building B, Unit 2
64 Talavera Road
MACQUARIE PARK NSW 2113
Phone: (02) 9889 2488
Facsimile: (02) 9889 2499
Email: help@getex.com.au
Attention: **Brodie Bishop**

Chain of Custody

To: Eurofins | mgt
Address: 179 Magowar Road
GIRRAWEEN NSW 2145

Phone: (02) 9900 8400
Email: EnviroSampleNSW@eurofins.com.au

Date: 11/04/2024
Order Number: 8963
Project Number: 12740

TAT: **5 Day TAT**

☐ Samples Received at Ambient Temp. ☑ Samples Received Chilled

Sample Temp: 7.2

Received By: [signature]
Signature: _____ Date: 11/4

5.4021.

1086843

Notes:

Eurofins Sample Number	Getex Sample Number	Container (Plastic Tube – PT, Bag – B, Petri Dish – PD, Plastic Bottle – PB, Glass Jar – GJ, Glass Bottle – GB, Glass Vial - GV)	Analytes: Single Analytes: TRH	BTEXN	PAHs	MAHs	OCP	OPP	PCB	Lead	7 Metals	8+ Metals	Phenols-Speciated	VOCs	Combos and Non-Standard Analytes: B7
	12740/BH1/53b	GJ													1
		Total													1

eurofins | Environment Testing

www.eurofins.com.au EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

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Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	T: +61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

Eurofins ARL Pty Ltd

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NZBN: 9429046024954

Auckland	Auckland (Focus)	Christchurch	Tauranga
35 O'Rorke Road	Unit C1/4 Pacific Rise,	43 Detroit Drive	1277 Cameron Road,
Penrose,	Mount Wellington,	Rolleston,	Gate Pa,
Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Sample Receipt Advice

Company name:	Getex Pty Ltd
Contact name:	Brodie Bishop
Project name:	Not provided
Project ID:	12740
Turnaround time:	5 Day
Date/Time received	Apr 11, 2024 5:21 PM
Eurofins reference	1086843

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
✓	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
×	Split sample sent to requested external lab.
×	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Asim Khan on phone : or by email: AsimKhan@eurofins.com

Results will be delivered electronically via email to Brodie Bishop - brodie.bishop@getex.com.au.

Note: A copy of these results will also be delivered to the general Getex Pty Ltd email address.

Global Leader - Results you can trust

ANALYTICAL REPORT

Accreditation No. 2562

CLIENT DETAILS

Contact	Brodie Bishop
Client	GETEX PTY LTD
Address	Suite 126, Level 1 22-28 Edgeworth David Avenue HORNSBY NSW 2077
Telephone	61 2 98892488
Facsimile	(Not specified)
Email	brodie.bishop@getex.com.au
Project	**12740**
Order Number	**GET-8964**
Samples	17

LABORATORY DETAILS

Manager	Huong Crawford
Laboratory	SGS Alexandria Environmental
Address	Unit 16, 33 Maddox St Alexandria NSW 2015
Telephone	+61 2 8594 0400
Facsimile	+61 2 8594 0499
Email	au.environmental.sydney@sgs.com
SGS Reference	**SE263568 R0**
Date Received	11/4/2024
Date Reported	22/4/2024

COMMENTS

Accredited for compliance with ISO/IEC 17025 - Testing. NATA accredited laboratory 2562(4354).

%Clay content subcontracted to SGS Cairns, 2/58 Comport St, Portsmith QLD 4870, NATA Accreditation Number: 2562, Site Number: 3146. Report No. CE174511 R0.

SIGNATORIES

Akheeqar BENIAMEEN
Chemist

Dong LIANG
Metals/Inorganics Team Leader

Huong CRAWFORD
Production Manager

Ly Kim HA
Organic Section Head

Shane MCDERMOTT
Inorganic/Metals Chemist

Teresa NGUYEN
Organic Chemist

VOC's in Soil [AN433] Tested: 15/4/2024

PARAMETER	UOM	LOR	12740/BH1/S1 SOIL - 11/4/2024 SE263568.001	12740/BH1/S2 SOIL - 11/4/2024 SE263568.002	12740/BH1/S3 SOIL - 11/4/2024 SE263568.003	12740/BH1/S3a SOIL - 11/4/2024 SE263568.004	12740/BH2/S1 SOIL - 11/4/2024 SE263568.005
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes*	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX*	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6

PARAMETER	UOM	LOR	12740/BH2/S2 SOIL - 11/4/2024 SE263568.006	12740/BH3/S1 SOIL - 11/4/2024 SE263568.007	12740/BH3/S2 SOIL - 11/4/2024 SE263568.008	12740/BH3/S3 SOIL - 11/4/2024 SE263568.009	12740/BH4/S1 SOIL - 11/4/2024 SE263568.010
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes*	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX*	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6

PARAMETER	UOM	LOR	12740/BH4/S3 SOIL - 11/4/2024 SE263568.011	12740/BH5/S1 SOIL - 11/4/2024 SE263568.012	12740/BH5/S2 SOIL - 11/4/2024 SE263568.013	12740/BH5/S3 SOIL - 11/4/2024 SE263568.014	12740/BH6/S1 SOIL - 11/4/2024 SE263568.015
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes*	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX*	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6

PARAMETER	UOM	LOR	12740/BH6/S2 SOIL - 11/4/2024 SE263568.016
Benzene	mg/kg	0.1	<0.1
Toluene	mg/kg	0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2
o-xylene	mg/kg	0.1	<0.1
Naphthalene (VOC)*	mg/kg	0.1	<0.1
Total Xylenes*	mg/kg	0.3	<0.3
Total BTEX*	mg/kg	0.6	<0.6

Volatile Petroleum Hydrocarbons in Soil [AN433] Tested: 15/4/2024

PARAMETER	UOM	LOR	12740/BH1/S1 SOIL - 11/4/2024 SE263568.001	12740/BH1/S2 SOIL - 11/4/2024 SE263568.002	12740/BH1/S3 SOIL - 11/4/2024 SE263568.003	12740/BH1/S3a SOIL - 11/4/2024 SE263568.004	12740/BH2/S1 SOIL - 11/4/2024 SE263568.005
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

PARAMETER	UOM	LOR	12740/BH2/S2 SOIL - 11/4/2024 SE263568.006	12740/BH3/S1 SOIL - 11/4/2024 SE263568.007	12740/BH3/S2 SOIL - 11/4/2024 SE263568.008	12740/BH3/S3 SOIL - 11/4/2024 SE263568.009	12740/BH4/S1 SOIL - 11/4/2024 SE263568.010
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

PARAMETER	UOM	LOR	12740/BH4/S3 SOIL - 11/4/2024 SE263568.011	12740/BH5/S1 SOIL - 11/4/2024 SE263568.012	12740/BH5/S2 SOIL - 11/4/2024 SE263568.013	12740/BH5/S3 SOIL - 11/4/2024 SE263568.014	12740/BH6/S1 SOIL - 11/4/2024 SE263568.015
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

PARAMETER	UOM	LOR	12740/BH6/S2 SOIL - 11/4/2024 SE263568.016
Benzene (F0)	mg/kg	0.1	<0.1
TRH C6-C9	mg/kg	20	<20
TRH C6-C10	mg/kg	25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25

TRH (Total Recoverable Hydrocarbons) in Soil [AN403] Tested: 15/4/2024

PARAMETER	UOM	LOR	12740/BH1/S1 SOIL - 11/4/2024 SE263568.001	12740/BH1/S2 SOIL - 11/4/2024 SE263568.002	12740/BH1/S3 SOIL - 11/4/2024 SE263568.003	12740/BH1/S3a SOIL - 11/4/2024 SE263568.004	12740/BH2/S1 SOIL - 11/4/2024 SE263568.005
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	<45	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	<45	<45	**47**
TRH C37-C40	mg/kg	100	<100	<100	<100	<100	<100
TRH >C10-C16	mg/kg	25	<25	<25	<25	<25	<25
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90	<90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	<110	<110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	<210	<210

PARAMETER	UOM	LOR	12740/BH2/S2 SOIL - 11/4/2024 SE263568.006	12740/BH3/S1 SOIL - 11/4/2024 SE263568.007	12740/BH3/S2 SOIL - 11/4/2024 SE263568.008	12740/BH3/S3 SOIL - 11/4/2024 SE263568.009	12740/BH4/S1 SOIL - 11/4/2024 SE263568.010
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	<45	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	<45	<45	**58**
TRH C37-C40	mg/kg	100	<100	<100	<100	<100	<100
TRH >C10-C16	mg/kg	25	<25	<25	<25	<25	<25
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90	<90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	<110	<110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	<210	<210

PARAMETER	UOM	LOR	12740/BH4/S3 SOIL - 11/4/2024 SE263568.011	12740/BH5/S1 SOIL - 11/4/2024 SE263568.012	12740/BH5/S2 SOIL - 11/4/2024 SE263568.013	12740/BH5/S3 SOIL - 11/4/2024 SE263568.014	12740/BH6/S1 SOIL - 11/4/2024 SE263568.015
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	<45	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	<45	<45	**160**
TRH C37-C40	mg/kg	100	<100	<100	<100	<100	**190**
TRH >C10-C16	mg/kg	25	<25	<25	<25	<25	<25
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90	<90	<90	<90	**110**
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	**270**
TRH C10-C36 Total	mg/kg	110	<110	<110	<110	<110	**160**
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	<210	**380**

TRH (Total Recoverable Hydrocarbons) in Soil [AN403] Tested: 15/4/2024 (continued)

PARAMETER	UOM	LOR	12740/BH6/S2 SOIL - 11/4/2024 SE263568.016
TRH C10-C14	mg/kg	20	<20
TRH C15-C28	mg/kg	45	<45
TRH C29-C36	mg/kg	45	<45
TRH C37-C40	mg/kg	100	<100
TRH >C10-C16	mg/kg	25	<25
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120
TRH C10-C36 Total	mg/kg	110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210

PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420] Tested: 15/4/2024

PARAMETER	UOM	LOR	12740/BH1/S1 SOIL - 11/4/2024 SE263568.001	12740/BH1/S2 SOIL - 11/4/2024 SE263568.002	12740/BH1/S3 SOIL - 11/4/2024 SE263568.003	12740/BH1/S3a SOIL - 11/4/2024 SE263568.004	12740/BH2/S1 SOIL - 11/4/2024 SE263568.005
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0*	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR*	TEQ (mg/kg)	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8

PARAMETER	UOM	LOR	12740/BH2/S2 SOIL - 11/4/2024 SE263568.006	12740/BH3/S1 SOIL - 11/4/2024 SE263568.007	12740/BH3/S2 SOIL - 11/4/2024 SE263568.008	12740/BH3/S3 SOIL - 11/4/2024 SE263568.009	12740/BH4/S1 SOIL - 11/4/2024 SE263568.010
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0*	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR*	TEQ (mg/kg)	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8

PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420] Tested: 15/4/2024 (continued)

PARAMETER	UOM	LOR	12740/BH4/S3 SOIL - 11/4/2024 SE263568.011	12740/BH5/S1 SOIL - 11/4/2024 SE263568.012	12740/BH5/S2 SOIL - 11/4/2024 SE263568.013	12740/BH5/S3 SOIL - 11/4/2024 SE263568.014	12740/BH6/S1 SOIL - 11/4/2024 SE263568.015
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	**0.2**
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	**0.1**
Acenaphthylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0*	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR*	TEQ (mg/kg)	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8

PARAMETER	UOM	LOR	12740/BH6/S2 SOIL - 11/4/2024 SE263568.016
Naphthalene	mg/kg	0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1
Fluorene	mg/kg	0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1
Anthracene	mg/kg	0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1
Pyrene	mg/kg	0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1
Chrysene	mg/kg	0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1
Dibenzo(ah)anthracene	mg/kg	0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0*	TEQ (mg/kg)	0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR*	TEQ (mg/kg)	0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	TEQ (mg/kg)	0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	<0.8

Speciated Phenols in Soil [AN420] Tested: 15/4/2024

PARAMETER	UOM	LOR	12740/BH1/S1 SOIL - 11/4/2024 SE263568.001	12740/BH1/S2 SOIL - 11/4/2024 SE263568.002	12740/BH1/S3 SOIL - 11/4/2024 SE263568.003	12740/BH2/S1 SOIL - 11/4/2024 SE263568.005	12740/BH2/S2 SOIL - 11/4/2024 SE263568.006
Phenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-methyl phenol (o-cresol)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1	<1	<1	<1	<1
Total Cresol	mg/kg	1.5	<1.5	<1.5	<1.5	<1.5	<1.5
2-chlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dimethylphenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,6-dichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-trichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-nitrophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4-nitrophenol	mg/kg	1	<1	<1	<1	<1	<1
2,4,5-trichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1	<1	<1	<1	<1	<1
Pentachlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dinitrophenol	mg/kg	2	<2	<2	<2	<2	<2
4-chloro-3-methylphenol	mg/kg	2	<2	<2	<2	<2	<2

PARAMETER	UOM	LOR	12740/BH3/S1 SOIL - 11/4/2024 SE263568.007	12740/BH3/S2 SOIL - 11/4/2024 SE263568.008	12740/BH3/S3 SOIL - 11/4/2024 SE263568.009	12740/BH4/S1 SOIL - 11/4/2024 SE263568.010	12740/BH4/S3 SOIL - 11/4/2024 SE263568.011
Phenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-methyl phenol (o-cresol)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1	<1	<1	<1	<1
Total Cresol	mg/kg	1.5	<1.5	<1.5	<1.5	<1.5	<1.5
2-chlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dimethylphenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,6-dichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-trichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-nitrophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4-nitrophenol	mg/kg	1	<1	<1	<1	<1	<1
2,4,5-trichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1	<1	<1	<1	<1	<1
Pentachlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dinitrophenol	mg/kg	2	<2	<2	<2	<2	<2
4-chloro-3-methylphenol	mg/kg	2	<2	<2	<2	<2	<2

Speciated Phenols in Soil [AN420] Tested: 15/4/2024 (continued)

PARAMETER	UOM	LOR	12740/BH5/S1 SOIL - 11/4/2024 SE263568.012	12740/BH5/S2 SOIL - 11/4/2024 SE263568.013	12740/BH5/S3 SOIL - 11/4/2024 SE263568.014	12740/BH6/S1 SOIL - 11/4/2024 SE263568.015	12740/BH6/S2 SOIL - 11/4/2024 SE263568.016
Phenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-methyl phenol (o-cresol)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1	<1	<1	<1	<1
Total Cresol	mg/kg	1.5	<1.5	<1.5	<1.5	<1.5	<1.5
2-chlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dimethylphenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,6-dichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-trichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-nitrophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4-nitrophenol	mg/kg	1	<1	<1	<1	<1	<1
2,4,5-trichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1	<1	<1	<1	<1	<1
Pentachlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dinitrophenol	mg/kg	2	<2	<2	<2	<2	<2
4-chloro-3-methylphenol	mg/kg	2	<2	<2	<2	<2	<2

OC Pesticides in Soil [AN420] Tested: 15/4/2024

PARAMETER	UOM	LOR	12740/BH1/S1 SOIL - 11/4/2024 SE263568.001	12740/BH1/S2 SOIL - 11/4/2024 SE263568.002	12740/BH1/S3 SOIL - 11/4/2024 SE263568.003	12740/BH2/S1 SOIL - 11/4/2024 SE263568.005	12740/BH2/S2 SOIL - 11/4/2024 SE263568.006
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane (gamma BHC)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total CLP OC Pesticides	mg/kg	1	<1	<1	<1	<1	<1
Total OC VIC EPA	mg/kg	1	<1	<1	<1	<1	<1

OC Pesticides in Soil [AN420] Tested: 15/4/2024 (continued)

PARAMETER	UOM	LOR	12740/BH3/S1 SOIL - 11/4/2024 SE263568.007	12740/BH3/S2 SOIL - 11/4/2024 SE263568.008	12740/BH3/S3 SOIL - 11/4/2024 SE263568.009	12740/BH4/S1 SOIL - 11/4/2024 SE263568.010	12740/BH4/S3 SOIL - 11/4/2024 SE263568.011
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane (gamma BHC)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total CLP OC Pesticides	mg/kg	1	<1	<1	<1	<1	<1
Total OC VIC EPA	mg/kg	1	<1	<1	<1	<1	<1

OC Pesticides in Soil [AN420] Tested: 15/4/2024 (continued)

PARAMETER	UOM	LOR	12740/BH5/S1 SOIL - 11/4/2024 SE263568.012	12740/BH5/S2 SOIL - 11/4/2024 SE263568.013	12740/BH5/S3 SOIL - 11/4/2024 SE263568.014	12740/BH6/S1 SOIL - 11/4/2024 SE263568.015	12740/BH6/S2 SOIL - 11/4/2024 SE263568.016
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane (gamma BHC)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total CLP OC Pesticides	mg/kg	1	<1	<1	<1	<1	<1
Total OC VIC EPA	mg/kg	1	<1	<1	<1	<1	<1

OP Pesticides in Soil [AN420] Tested: 15/4/2024

PARAMETER	UOM	LOR	12740/BH1/S1 SOIL - 11/4/2024 SE263568.001	12740/BH1/S2 SOIL - 11/4/2024 SE263568.002	12740/BH1/S3 SOIL - 11/4/2024 SE263568.003	12740/BH2/S1 SOIL - 11/4/2024 SE263568.005	12740/BH2/S2 SOIL - 11/4/2024 SE263568.006
Dichlorvos	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	<1.7	<1.7	<1.7

PARAMETER	UOM	LOR	12740/BH3/S1 SOIL - 11/4/2024 SE263568.007	12740/BH3/S2 SOIL - 11/4/2024 SE263568.008	12740/BH3/S3 SOIL - 11/4/2024 SE263568.009	12740/BH4/S1 SOIL - 11/4/2024 SE263568.010	12740/BH4/S3 SOIL - 11/4/2024 SE263568.011
Dichlorvos	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	<1.7	<1.7	<1.7

PARAMETER	UOM	LOR	12740/BH5/S1 SOIL - 11/4/2024 SE263568.012	12740/BH5/S2 SOIL - 11/4/2024 SE263568.013	12740/BH5/S3 SOIL - 11/4/2024 SE263568.014	12740/BH6/S1 SOIL - 11/4/2024 SE263568.015	12740/BH6/S2 SOIL - 11/4/2024 SE263568.016
Dichlorvos	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	<1.7	<1.7	<1.7

PCBs in Soil [AN420] Tested: 15/4/2024

PARAMETER	UOM	LOR	12740/BH1/S1 SOIL - 11/4/2024 SE263568.001	12740/BH1/S2 SOIL - 11/4/2024 SE263568.002	12740/BH1/S3 SOIL - 11/4/2024 SE263568.003	12740/BH2/S1 SOIL - 11/4/2024 SE263568.005	12740/BH2/S2 SOIL - 11/4/2024 SE263568.006
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1

PARAMETER	UOM	LOR	12740/BH3/S1 SOIL - 11/4/2024 SE263568.007	12740/BH3/S2 SOIL - 11/4/2024 SE263568.008	12740/BH3/S3 SOIL - 11/4/2024 SE263568.009	12740/BH4/S1 SOIL - 11/4/2024 SE263568.010	12740/BH4/S3 SOIL - 11/4/2024 SE263568.011
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1

PARAMETER	UOM	LOR	12740/BH5/S1 SOIL - 11/4/2024 SE263568.012	12740/BH5/S2 SOIL - 11/4/2024 SE263568.013	12740/BH5/S3 SOIL - 11/4/2024 SE263568.014	12740/BH6/S1 SOIL - 11/4/2024 SE263568.015	12740/BH6/S2 SOIL - 11/4/2024 SE263568.016
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1

pH in soil (1:5) [AN101] Tested: 16/4/2024

PARAMETER	UOM	LOR	12740/BH1/S1 SOIL - 11/4/2024 SE263568.001
pH (CaCl2)*	pH Units	0.1	**7.6**

TOC in Soil [AN188] Tested: 17/4/2024

PARAMETER	UOM	LOR	12740/BH1/S1 SOIL - 11/4/2024 SE263568.001
Total Organic Carbon	%w/w	0.05	**0.95**
Organic Matter (calc)*	%w/w	0.1	**1.6**

Exchangeable Cations and Cation Exchange Capacity (CEC/ESP/SAR) [AN122] Tested: 18/4/2024

PARAMETER	UOM	LOR	12740/BH1/S1 SOIL - 11/4/2024 SE263568.001
Exchangeable Calcium, Ca	mg/kg	2	**1600**
Exchangeable Calcium, Ca	meq/100g	0.01	**8.0**
Exchangeable Calcium Percentage*	%	0.1	**90.2**
Exchangeable Potassium, K	mg/kg	2	**73**
Exchangeable Potassium, K	meq/100g	0.01	**0.19**
Exchangeable Potassium Percentage*	%	0.1	**2.1**
Exchangeable Magnesium, Mg	mg/kg	2	**74**
Exchangeable Magnesium, Mg	meq/100g	0.02	**0.61**
Exchangeable Magnesium Percentage*	%	0.1	**6.8**
Exchangeable Sodium, Na	mg/kg	2	**17**
Exchangeable Sodium, Na	meq/100g	0.01	**0.07**
Exchangeable Sodium Percentage*	%	0.1	**0.8**
Cation Exchange Capacity	meq/100g	0.02	**8.9**

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES [AN040/AN320] Tested: 15/4/2024

PARAMETER	UOM	LOR	12740/BH1/S1 SOIL - 11/4/2024 SE263568.001	12740/BH1/S2 SOIL - 11/4/2024 SE263568.002	12740/BH1/S3 SOIL - 11/4/2024 SE263568.003	12740/BH1/S3a SOIL - 11/4/2024 SE263568.004	12740/BH2/S1 SOIL - 11/4/2024 SE263568.005
Arsenic, As	mg/kg	1	5	9	8	7	9
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	7.3	15	18	18	9.7
Copper, Cu	mg/kg	0.5	16	24	15	15	65
Lead, Pb	mg/kg	1	7	36	12	11	7
Nickel, Ni	mg/kg	0.5	13	27	4.7	4.1	8.3
Zinc, Zn	mg/kg	2	50	130	43	42	31
Iron, Fe	mg/kg	50	14000	-	-	-	-

PARAMETER	UOM	LOR	12740/BH2/S2 SOIL - 11/4/2024 SE263568.006	12740/BH3/S1 SOIL - 11/4/2024 SE263568.007	12740/BH3/S2 SOIL - 11/4/2024 SE263568.008	12740/BH3/S3 SOIL - 11/4/2024 SE263568.009	12740/BH4/S1 SOIL - 11/4/2024 SE263568.010
Arsenic, As	mg/kg	1	11	9	3	6	13
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	17	12	12	12	21
Copper, Cu	mg/kg	0.5	19	23	15	13	32
Lead, Pb	mg/kg	1	9	6	20	8	8
Nickel, Ni	mg/kg	0.5	3.0	6.9	35	5.4	12
Zinc, Zn	mg/kg	2	18	22	110	22	10
Iron, Fe	mg/kg	50	-	-	-	-	-

PARAMETER	UOM	LOR	12740/BH4/S3 SOIL - 11/4/2024 SE263568.011	12740/BH5/S1 SOIL - 11/4/2024 SE263568.012	12740/BH5/S2 SOIL - 11/4/2024 SE263568.013	12740/BH5/S3 SOIL - 11/4/2024 SE263568.014	12740/BH6/S1 SOIL - 11/4/2024 SE263568.015
Arsenic, As	mg/kg	1	11	10	8	16	7
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	14	13	8.8	14	19
Copper, Cu	mg/kg	0.5	30	26	18	35	30
Lead, Pb	mg/kg	1	6	4	6	5	3
Nickel, Ni	mg/kg	0.5	<0.5	9.1	1.6	<0.5	28
Zinc, Zn	mg/kg	2	11	7.1	3.9	5.4	12
Iron, Fe	mg/kg	50	-	-	-	-	-

PARAMETER	UOM	LOR	12740/BH6/S2 SOIL - 11/4/2024 SE263568.016
Arsenic, As	mg/kg	1	10
Cadmium, Cd	mg/kg	0.3	<0.3
Chromium, Cr	mg/kg	0.5	25
Copper, Cu	mg/kg	0.5	32
Lead, Pb	mg/kg	1	11
Nickel, Ni	mg/kg	0.5	2.2
Zinc, Zn	mg/kg	2	23
Iron, Fe	mg/kg	50	-

Mercury in Soil [AN312] Tested: 15/4/2024

PARAMETER	UOM	LOR	12740/BH1/S1 SOIL - 11/4/2024 SE263568.001	12740/BH1/S2 SOIL - 11/4/2024 SE263568.002	12740/BH1/S3 SOIL - 11/4/2024 SE263568.003	12740/BH1/S3a SOIL - 11/4/2024 SE263568.004	12740/BH2/S1 SOIL - 11/4/2024 SE263568.005
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	12740/BH2/S2 SOIL - 11/4/2024 SE263568.006	12740/BH3/S1 SOIL - 11/4/2024 SE263568.007	12740/BH3/S2 SOIL - 11/4/2024 SE263568.008	12740/BH3/S3 SOIL - 11/4/2024 SE263568.009	12740/BH4/S1 SOIL - 11/4/2024 SE263568.010
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	12740/BH4/S3 SOIL - 11/4/2024 SE263568.011	12740/BH5/S1 SOIL - 11/4/2024 SE263568.012	12740/BH5/S2 SOIL - 11/4/2024 SE263568.013	12740/BH5/S3 SOIL - 11/4/2024 SE263568.014	12740/BH6/S1 SOIL - 11/4/2024 SE263568.015
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	12740/BH6/S2 SOIL - 11/4/2024 SE263568.016
Mercury	mg/kg	0.05	<0.05

Moisture Content [AN002] Tested: 15/4/2024

PARAMETER	UOM	LOR	12740/BH1/S1 SOIL - 11/4/2024 SE263568.001	12740/BH1/S2 SOIL - 11/4/2024 SE263568.002	12740/BH1/S3 SOIL - 11/4/2024 SE263568.003	12740/BH1/S3a SOIL - 11/4/2024 SE263568.004	12740/BH2/S1 SOIL - 11/4/2024 SE263568.005
% Moisture	%w/w	1	8.0	9.6	11.8	11.6	6.0

PARAMETER	UOM	LOR	12740/BH2/S2 SOIL - 11/4/2024 SE263568.006	12740/BH3/S1 SOIL - 11/4/2024 SE263568.007	12740/BH3/S2 SOIL - 11/4/2024 SE263568.008	12740/BH3/S3 SOIL - 11/4/2024 SE263568.009	12740/BH4/S1 SOIL - 11/4/2024 SE263568.010
% Moisture	%w/w	1	9.0	9.3	6.2	7.6	5.8

PARAMETER	UOM	LOR	12740/BH4/S3 SOIL - 11/4/2024 SE263568.011	12740/BH5/S1 SOIL - 11/4/2024 SE263568.012	12740/BH5/S2 SOIL - 11/4/2024 SE263568.013	12740/BH5/S3 SOIL - 11/4/2024 SE263568.014	12740/BH6/S1 SOIL - 11/4/2024 SE263568.015
% Moisture	%w/w	1	6.9	7.1	6.0	11.6	4.6

PARAMETER	UOM	LOR	12740/BH6/S2 SOIL - 11/4/2024 SE263568.016
% Moisture	%w/w	1	11.6

Particle sizing of soils by sieving [AN005] Tested: 22/4/2024

PARAMETER	UOM	LOR	12740/BH1/S1 SOIL - 11/4/2024 SE263568.001
Passing 75µm*	%w/w	1	**14**
Retained 75µm*	%w/w	1	**86**

Particle sizing of soils <75µm by hydrometer [AN005] Tested: 22/4/2024

PARAMETER	UOM	LOR	12740/BH1/S1 SOIL - 11/4/2024 SE263568.001
Clay (<0.002mm)*	%w/w	0.1	**10**

VOCs in Water [AN433] Tested: 16/4/2024

PARAMETER	UOM	LOR	12740/RB1 WATER - 11/4/2024 SE263568.017
Benzene	µg/L	0.5	<0.5
Toluene	µg/L	0.5	<0.5
Ethylbenzene	µg/L	0.5	<0.5
m/p-xylene	µg/L	1	<1
o-xylene	µg/L	0.5	<0.5
Naphthalene (VOC)*	µg/L	0.5	<0.5
Total Xylenes	µg/L	1.5	<1.5
Total BTEX	µg/L	3	<3

METHOD	METHODOLOGY SUMMARY
AN002	The test is carried out by drying (at either 40°C or 105°C) a known mass of sample in a weighed evaporating basin. After fully dry the sample is re-weighed. Samples such as sludge and sediment having high percentages of moisture will take some time in a drying oven for complete removal of water.
AN005	The particle size distribution of a soil is determined by wet sieving, using a maximum of 900 mL of deionised water to sieve all fractions down to 75 µm. Referenced to AS1289.3.6.1 and AS1141.11.
AN005	Following wet sieving of the sample,(particles smaller than 75 µm) a dispersing solution is added and a hydrometer is used to measure sedimentation. Soil density is determined and the percentage of each size fraction calculated. Referenced to AS1289.3.6.3.
AN040/AN320	A portion of sample is digested with nitric acid to decompose organic matter and hydrochloric acid to complete the digestion of metals. The digest is then analysed by ICP OES with metals results reported on the dried sample basis. Based on USEPA method 200.8 and 6010C.
AN040	A portion of sample is digested with Nitric acid to decompose organic matter and Hydrochloric acid to complete the digestion of metals and then filtered for analysis by AAS or ICP as per USEPA Method 200.8.
AN101	pH in Soil Sludge Sediment and Water: pH is measured electrometrically using a combination electrode and is calibrated against 3 buffers purchased commercially. For soils, sediments and sludges, an extract with water (or 0.01M CaCl2) is made at a ratio of 1:5 and the pH determined and reported on the extract. Reference APHA 4500-H+.
AN122	Exchangeable Cations, CEC and ESP: Soil sample is extracted in 1M Ammonium Acetate at pH=7 (or 1M Ammonium Chloride at pH=7) with cations (Na, K, Ca & Mg) then determined by ICP OES/ICP MS and reported as Exchangeable Cations. For saline soils, these results can be corrected for water soluble cations and reported as Exchangeable cations in meq/100g or soil can be pre-treated (aqueous ethanol/aqueous glycerol) prior to extraction. Cation Exchange Capacity (CEC) is the sum of the exchangeable cations in meq/100g.
AN122	The Exchangeable Sodium Percentage (ESP) is calculated as the exchangeable sodium divided by the CEC (all in meq/100g) times 100. ESP can be used to categorise the sodicity of the soil as below : ESP < 6% non-sodic ESP 6-15% sodic ESP >15% strongly sodic Method is referenced to Rayment and Lyons, 2011, sections 15D3 and 15N1.-
AN188	The organic material in the soil sample is oxidised with chromic acid in the presence of excess sulfuric acid, without external heat being applied. The excess dichromate ion is determined by titration with standard ammonium iron (II) sulfate solution and the amount of oxidised material is calculated from the quantity of dichromate reduced. Referenced to NEPM 105 and AS1289.1.1.1.
AN312	Mercury by Cold Vapour AAS in Soils: After digestion with nitric acid, hydrogen peroxide and hydrochloric acid, mercury ions are reduced by stannous chloride reagent in acidic solution to elemental mercury. This mercury vapour is purged by nitrogen into a cold cell in an atomic absorption spectrometer or mercury analyser. Quantification is made by comparing absorbances to those of the calibration standards. Reference APHA 3112/3500
AN403	Total Recoverable Hydrocarbons: Determination of Hydrocarbons by gas chromatography after a solvent extraction. Detection is by flame ionisation detector (FID) that produces an electronic signal in proportion to the combustible matter passing through it. Total Recoverable Hydrocarbons (TRH) are routinely reported as four alkane groupings based on the carbon chain length of the compounds: C6-C9, C10-C14, C15-C28 and C29-C36 and in recognition of the NEPM 1999 (2013), >C10-C16 (F2), >C16-C34 (F3) and >C34-C40 (F4). F2 is reported directly and also corrected by subtracting Naphthalene (from VOC method AN433) where available.
AN403	Additionally, the volatile C6-C9 fraction may be determined by a purge and trap technique and GC/MS because of the potential for volatiles loss. Total Recoverable Hydrocarbons - Silica (TRH-Si) follows the same method of analysis after silica gel cleanup of the solvent extract. Aliphatic/Aromatic Speciation follows the same method of analysis after fractionation of the solvent extract over silica with differential polarity of the eluent solvents.
AN403	The GC/FID method is not well suited to the analysis of refined high boiling point materials (ie lubricating oils or greases) but is particularly suited for measuring diesel, kerosene and petrol if care to control volatility is taken. This method will detect naturally occurring hydrocarbons, lipids, animal fats, phenols and PAHs if they are present at sufficient levels, dependent on the use of specific cleanup/fractionation techniques. Reference USEPA 3510B, 8015B.
AN420	(SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols (etc) in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D).
AN420	SVOC Compounds: Semi-Volatile Organic Compounds (SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D).

AN433	VOCs and C6-C9 Hydrocarbons by GC-MS P&T: VOC`s are volatile organic compounds. The sample is presented to a gas chromatograph via a purge and trap (P&T) concentrator and autosampler and is detected with a Mass Spectrometer (MSD). Solid samples are initially extracted with methanol whilst liquid samples are processed directly. References: USEPA 5030B, 8020A, 8260.

FOOTNOTES

*	NATA accreditation does not cover the performance of this service.	-	Not analysed.	UOM	Unit of Measure.
		NVL	Not validated.	LOR	Limit of Reporting.
**	Indicative data, theoretical holding time exceeded.	IS	Insufficient sample for analysis.	↑↓	Raised/lowered Limit of Reporting.
		LNR	Sample listed, but not received.		
***	Indicates that both * and ** apply.				

Unless it is reported that sampling has been performed by SGS, the samples have been analysed as received.
Solid samples expressed on a dry weight basis.

Where "Total" analyte groups are reported (for example, Total PAHs, Total OC Pesticides) the total will be calculated as the sum of the individual analytes, with those analytes that are reported as <LOR being assumed to be zero. The summed (Total) limit of reporting is calculated by summing the individual analyte LORs and dividing by two. For example, where 16 individual analytes are being summed and each has an LOR of 0.1 mg/kg, the "Totals" LOR will be 1.6 / 2 (0.8 mg/kg). Where only 2 analytes are being summed, the " Total" LOR will be the sum of those two LORs.

Some totals may not appear to add up because the total is rounded after adding up the raw values.

If reported, measurement uncertainty follow the ± sign after the analytical result and is expressed as the expanded uncertainty calculated using a coverage factor of 2, providing a level of confidence of approximately 95%, unless stated otherwise in the comments section of this report.

Results reported for samples tested under test methods with codes starting with ARS-SOP, radionuclide or gross radioactivity concentrations are expressed in becquerel (Bq) per unit of mass or volume or per wipe as stated on the report. Becquerel is the SI unit for activity and equals one nuclear transformation per second.
Note that in terms of units of radioactivity:

a. 1 Bq is equivalent to 27 pCi
b. 37 MBq is equivalent to 1 mCi

For results reported for samples tested under test methods with codes starting with ARS-SOP, less than (<) values indicate the detection limit for each radionuclide or parameter for the measurement system used. The respective detection limits have been calculated in accordance with ISO 11929.

The QC and MU criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: www.sgs.com.au/en-gb/environment-health-and-safety.

ANALYTICAL REPORT

Accreditation No. 2562

CLIENT DETAILS		LABORATORY DETAILS	
Contact	Admin	Manager	Anthony Nilsson
Client	SGS I&E SYDNEY	Laboratory	SGS Cairns Environmental
Address	5058 201 I&E HSE SYDNEY (EX 5258) UNIT 16 33 MADDOX STREET ALEXANDRIA NSW 2015	Address	Unit 2, 58 Comport St Portsmith QLD 4870
Telephone	0285940400	Telephone	+61 07 4035 5111
Facsimile	0285940499	Facsimile	+61 07 4035 5122
Email	au.environmental.sydney@sgs.com	Email	AU.Environmental.Cairns@sgs.com
Project	**12740**	SGS Reference	**CE174511 R0**
Order Number	**SE263568**	Date Received	15 Apr 2024
Samples	1	Date Reported	22 Apr 2024

COMMENTS

Accredited for compliance with ISO/IEC 17025 - Testing. NATA accredited laboratory 2562(3146)

SIGNATORIES

Anthony NILSSON
Operations Manager

Jon DICKER
Manager Northern QLD

Parameter	Units	LOR	Sample Number: CE174511.001 Sample Matrix: Soil Sample Date: 11 Apr 2024 Sample Name: SE263568.001
Moisture Content Method: AN002 Tested: 15/4/2024			
% Moisture	%w/w	1	**9.7**
Particle sizing of soils by sieving Method: AN005 Tested: 22/4/2024			
Passing 75µm	%w/w	1	**14**
Retained 75µm	%w/w	1	**86**
Particle sizing of soils <75µm by hydrometer Method: AN005 Tested: 22/4/2024			
Clay (<0.002mm)	%w/w	0.1	**10**

MB blank results are compared to the Limit of Reporting
LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.
DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula : *the absolute difference of the two results divided by the average of the two results as a percentage*. Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

No QC samples were reported for this job.

METHOD	METHODOLOGY SUMMARY
AN002	The test is carried out by drying (at either 40°C or 105°C) a known mass of sample in a weighed evaporating basin. After fully dry the sample is re-weighed. Samples such as sludge and sediment having high percentages of moisture will take some time in a drying oven for complete removal of water.
AN005	The particle size distribution of a soil is determined by wet sieving, using a maximum of 900 mL of deionised water to sieve all fractions down to 75 µm. Referenced to AS1289.3.6.1 and AS1141.11.
AN005	Following wet sieving of the sample,(particles smaller than 75 µm) a dispersing solution is added and a hydrometer is used to measure sedimentation. Soil density is determined and the percentage of each size fraction calculated. Referenced to AS1289.3.6.3.

FOOTNOTES

IS	Insufficient sample for analysis.	LOR	Limit of Reporting
LNR	Sample listed, but not received.	↑↓	Raised or Lowered Limit of Reporting
*	NATA accreditation does not cover the performance of this service.	QFH	QC result is above the upper tolerance
		QFL	QC result is below the lower tolerance
**	Indicative data, theoretical holding time exceeded.	-	The sample was not analysed for this analyte
***	Indicates that both * and ** apply.	NVL	Not Validated

Unless it is reported that sampling has been performed by SGS, the samples have been analysed as received.
Solid samples expressed on a dry weight basis.

Where "Total" analyte groups are reported (for example, Total PAHs, Total OC Pesticides) the total will be calculated as the sum of the individual analytes, with those analytes that are reported as <LOR being assumed to be zero. The summed (Total) limit of reporting is calcuated by summing the individual analyte LORs and dividing by two. For example, where 16 individual analytes are being summed and each has an LOR of 0.1 mg/kg, the "Totals" LOR will be 1.6 / 2 (0.8 mg/kg). Where only 2 analytes are being summed, the " Total" LOR will be the sum of those two LORs.

Some totals may not appear to add up because the total is rounded after adding up the raw values.

If reported, measurement uncertainty follow the ± sign after the analytical result and is expressed as the expanded uncertainty calculated using a coverage factor of 2, providing a level of confidence of approximately 95%, unless stated otherwise in the comments section of this report.

Results reported for samples tested under test methods with codes starting with ARS-SOP, radionuclide or gross radioactivity concentrations are expressed in becquerel (Bq) per unit of mass or volume or per wipe as stated on the report. Becquerel is the SI unit for activity and equals one nuclear transformation per second.
Note that in terms of units of radioactivity:

a. 1 Bq is equivalent to 27 pCi
b. 37 MBq is equivalent to 1 mCi

For results reported for samples tested under test methods with codes starting with ARS-SOP, less than (<) values indicate the detection limit for each radionuclide or parameter for the measurement system used. The respective detection limits have been calculated in accordance with ISO 11929.

The QC and MU criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: www.sgs.com.au/en-gb/environment-health-and-safety.

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SGS

CHAIN OF CUSTODY & ANALYSIS REQUEST

SGS Environmental Services
Unit 16, 33 Maddox Street
Alexandria NSW 2015
Telephone No: (02) 85940400
Facsimile No: (02) 85940499
Email: au.samplereceipt.sydney@sgs.com

Company Name: Getex Pty Ltd
Address:
Contact Name: Brodie Bishop

Project Name/No: 12740
Purchase Order No: 8964
Results Required By:
Telephone: 0447 638 204
Facsimile:
Email Results: help@getex.com.au

SGS EHS Sydney COC
SE263568

Client Sample ID	Date Sampled	Lab Sample ID	WATER	SOIL	PRESERVATIVE	NO OF CONTAINERS	Contamination Suite – CL10	Contamination Suite – CL15	RE2 – NEPM soil characteristics
12740/BH1/S1	8/11/24	1		x		1		x	x
12740/BH1/S2	8/11/24	2		x		1		x	
12740/BH1/S3	8/11/24	3		x		1		x	
12740/BH1/S3a	8/11/24	4		x		1	x		
12740/BH2/S1	8/11/24	5		x		1		x	
12740/BH2/S2	8/11/24	6		x		1		X	
12740/BH3/S1	8/11/24	7		x		1		x	
12740/BH3/S2	8/11/24	8		x		1		X	
12740/BH3/S3	8/11/24	9		x		1		x	
12740/BH4/S1	8/11/24	10		x		1		X	
12740/BH4/S3	8/11/24	11		x		1		x	

Relinquished By: Brodie Bishop	Date/Time:	Received By: G.F.M	Date/Time 11/4/24 5:30
Relinquished By:	Date/Time:	Received By:	Date/Time
Samples Intact: Yes/ No	Temperature: Ambient / Chilled	Sample Cooler Sealed: Yes/ No	Laboratory Quotation No:
	Comments:		

SGS

CHAIN OF CUSTODY & ANALYSIS REQUEST

Page __2__ of __2__

SGS Environmental Services
Unit 16, 33 Maddox Street
Alexandria NSW 2015
Telephone No: (02) 85940400
Facsimile No: (02) 85940499
Email: au.samplereceipt.sydney@sgs.com

Company Name: Getex Pty Ltd
Address:
Contact Name: Brodie Bishop

Project Name/No: 12740
Purchase Order No: 8964
Results Required By:
Telephone: 0447 638 204
Facsimile:
Email Results: help@getex.com.au

Client Sample ID	Date Sampled	Lab Sample ID	WATER	SOIL	PRESERVATIVE	NO OF CONTAINERS	Contamination Suite – CL10	Contamination Suite – CL15	BTEXN
12740/BH5/S1	8/11/24	12		x		1		X	
12740/BH5/S2	8/11/24	13		x		1		x	
12740/BH5/S3	8/11/24	14		x		1		X	
12740/BH6/S1	8/11/24	15		x		1		x	
12740/BH6/S2	8/11/24	16		x		1		x	
12740/RB1	8/11/24	17							x
12740/TB1	8/11/24								x

Relinquished By: Brodie Bishop	Date/Time:	Received By:	Date/Time 11.4.24 5:30
Relinquished By:	Date/Time:	Received By:	Date/Time
Samples Intact: (Yes)/ No	Temperature: Ambient / (Chilled) 19.1	Sample Cooler Sealed: (Yes)/ No	Laboratory Quotation No:
	Comments:		

Uncontrolled template when printed

SAMPLE RECEIPT ADVICE

SE263568

CLIENT DETAILS

Contact	Brodie Bishop
Client	GETEX PTY LTD
Address	Suite 126, Level 1 22-28 Edgeworth David Avenue HORNSBY NSW 2077
Telephone	61 2 98892488
Facsimile	(Not specified)
Email	brodie.bishop@getex.com.au
Project	**12740**
Order Number	**GET-8964**
Samples	17

LABORATORY DETAILS

Manager	Huong Crawford
Laboratory	SGS Alexandria Environmental
Address	Unit 16, 33 Maddox St Alexandria NSW 2015
Telephone	+61 2 8594 0400
Facsimile	+61 2 8594 0499
Email	au.environmental.sydney@sgs.com
Samples Received	Thu 11/4/2024
Report Due	Thu 18/4/2024
SGS Reference	**SE263568**

SUBMISSION DETAILS

This is to confirm that 17 samples were received on Thursday 11/4/2024. Results are expected to be ready by COB Thursday 18/4/2024.
Please quote SGS reference SE263568 when making enquiries. Refer below for details relating to sample integrity upon receipt.

Sample counts by matrix	16 Soil, 1 Water	Type of documentation received	COC
Date documentation received	11/4/2024	Samples received in good order	Yes
Samples received without headspace	Yes	Sample temperature upon receipt	19.1°C
Sample container provider	SGS	Turnaround time requested	Standard
Samples received in correct containers	Yes	Sufficient sample for analysis	Yes
Sample cooling method	Ice Bricks	Samples clearly labelled	Yes
Complete documentation received	Yes		

Unless otherwise instructed, water and bulk samples will be held for one month from date of report, and soil samples will be held for two months.

COMMENTS

%Clay content subcontracted to SGS Cairns, 2/58 Comport St, Portsmith QLD 4870, NATA Accreditation Number: 2562, Site Number: 3146.
Report No.
Sample with red dot not received.

SAMPLE RECEIPT ADVICE

SE263568

CLIENT DETAILS

Client GETEX PTY LTD

Project 12740

SUMMARY OF ANALYSIS

No.	Sample ID	OC Pesticides in Soil	OP Pesticides in Soil	PAH (Polynuclear Aromatic Hydrocarbons) in Soil	PCBs in Soil	Speciated Phenols in Soil	TRH (Total Recoverable Hydrocarbons) in Soil	VOC's in Soil	Volatile Petroleum Hydrocarbons in Soil
001	12740/BH1/S1	30	14	26	11	18	10	11	7
002	12740/BH1/S2	30	14	26	11	18	10	11	7
003	12740/BH1/S3	30	14	26	11	18	10	11	7
004	12740/BH1/S3a	-	-	26	-	-	10	11	7
005	12740/BH2/S1	30	14	26	11	18	10	11	7
006	12740/BH2/S2	30	14	26	11	18	10	11	7
007	12740/BH3/S1	30	14	26	11	18	10	11	7
008	12740/BH3/S2	30	14	26	11	18	10	11	7
009	12740/BH3/S3	30	14	26	11	18	10	11	7
010	12740/BH4/S1	30	14	26	11	18	10	11	7
011	12740/BH4/S3	30	14	26	11	18	10	11	7
012	12740/BH5/S1	30	14	26	11	18	10	11	7
013	12740/BH5/S2	30	14	26	11	18	10	11	7
014	12740/BH5/S3	30	14	26	11	18	10	11	7
015	12740/BH6/S1	30	14	26	11	18	10	11	7
016	12740/BH6/S2	30	14	26	11	18	10	11	7

CONTINUED OVERLEAF

The above table represents SGS' interpretation of the client-supplied Chain Of Custody document.
The numbers shown in the table indicate the number of results requested in each package.
Please indicate as soon as possible should your request differ from these details .
Testing as per this table shall commence immediately unless the client intervenes with a correction .

SAMPLE RECEIPT ADVICE

SE263568

CLIENT DETAILS

Client GETEX PTY LTD

Project 12740

SUMMARY OF ANALYSIS

No.	Sample ID	Exchangeable Cations and Cation Exchange Capacity	Mercury in Soil	Moisture Content	pH in soil (1:5)	TOC in Soil	Total Recoverable Elements in Soil/Waste
001	12740/BH1/S1	13	1	1	1	2	8
002	12740/BH1/S2	-	1	1	-	-	7
003	12740/BH1/S3	-	1	1	-	-	7
004	12740/BH1/S3a	-	1	1	-	-	7
005	12740/BH2/S1	-	1	1	-	-	7
006	12740/BH2/S2	-	1	1	-	-	7
007	12740/BH3/S1	-	1	1	-	-	7
008	12740/BH3/S2	-	1	1	-	-	7
009	12740/BH3/S3	-	1	1	-	-	7
010	12740/BH4/S1	-	1	1	-	-	7
011	12740/BH4/S3	-	1	1	-	-	7
012	12740/BH5/S1	-	1	1	-	-	7
013	12740/BH5/S2	-	1	1	-	-	7
014	12740/BH5/S3	-	1	1	-	-	7
015	12740/BH6/S1	-	1	1	-	-	7
016	12740/BH6/S2	-	1	1	-	-	7

CONTINUED OVERLEAF

The above table represents SGS' interpretation of the client-supplied Chain Of Custody document.
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Please indicate as soon as possible should your request differ from these details .
Testing as per this table shall commence immediately unless the client intervenes with a correction .

SAMPLE RECEIPT ADVICE

SE263568

CLIENT DETAILS

Client GETEX PTY LTD

Project 12740

SUMMARY OF ANALYSIS

No.	Sample ID	Particle sizing of soils <75µm by hydrometer	Particle sizing of soils by sieving	VOCs in Water
001	12740/BH1/S1	1	2	-
017	12740/RB1	-	-	11

The above table represents SGS' interpretation of the client-supplied Chain Of Custody document.
The numbers shown in the table indicate the number of results requested in each package.
Please indicate as soon as possible should your request differ from these details .
Testing as per this table shall commence immediately unless the client intervenes with a correction .

ANALYTICAL REPORT

Accreditation No. 2562

CLIENT DETAILS

Contact	Brodie Bishop
Client	GETEX PTY LTD
Address	Suite 126, Level 1 22-28 Edgeworth David Avenue HORNSBY NSW 2077
Telephone	61 2 98892488
Facsimile	(Not specified)
Email	brodie.bishop@getex.com.au
Project	**12740**
Order Number	**GET-8964**
Samples	18

LABORATORY DETAILS

Manager	Huong Crawford
Laboratory	SGS Alexandria Environmental
Address	Unit 16, 33 Maddox St Alexandria NSW 2015
Telephone	+61 2 8594 0400
Facsimile	+61 2 8594 0499
Email	au.environmental.sydney@sgs.com
SGS Reference	**SE263568A R0**
Date Received	17/4/2024
Date Reported	24/4/2024

COMMENTS

Accredited for compliance with ISO/IEC 17025 - Testing. NATA accredited laboratory 2562(4354).

SIGNATORIES

Dong LIANG
Metals/Inorganics Team Leader

Ly Kim HA
Organic Section Head

Shane MCDERMOTT
Inorganic/Metals Chemist

VOC's in Soil [AN433] Tested: 22/4/2024

PARAMETER	UOM	LOR	12740/TB1 SOIL - 11/4/2024 SE263568A.018
Benzene	mg/kg	0.1	<0.1
Toluene	mg/kg	0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2
o-xylene	mg/kg	0.1	<0.1
Naphthalene (VOC)*	mg/kg	0.1	<0.1
Total Xylenes*	mg/kg	0.3	<0.3
Total BTEX*	mg/kg	0.6	<0.6

Moisture Content [AN002] Tested: 22/4/2024

PARAMETER	UOM	LOR	12740/TB1 SOIL - 11/4/2024 SE263568A.018
% Moisture	%w/w	1	<1.0

METHOD	METHODOLOGY SUMMARY
AN002	The test is carried out by drying (at either 40°C or 105°C) a known mass of sample in a weighed evaporating basin. After fully dry the sample is re-weighed. Samples such as sludge and sediment having high percentages of moisture will take some time in a drying oven for complete removal of water.
AN433	VOCs and C6-C9 Hydrocarbons by GC-MS P&T: VOC`s are volatile organic compounds. The sample is presented to a gas chromatograph via a purge and trap (P&T) concentrator and autosampler and is detected with a Mass Spectrometer (MSD). Solid samples are initially extracted with methanol whilst liquid samples are processed directly. References: USEPA 5030B, 8020A, 8260.

FOOTNOTES

*	NATA accreditation does not cover the performance of this service.	-	Not analysed.	UOM	Unit of Measure.
**	Indicative data, theoretical holding time exceeded.	NVL	Not validated.	LOR	Limit of Reporting.
***	Indicates that both * and ** apply.	IS	Insufficient sample for analysis.	↑↓	Raised/lowered Limit of Reporting.
		LNR	Sample listed, but not received.		

Unless it is reported that sampling has been performed by SGS, the samples have been analysed as received.
Solid samples expressed on a dry weight basis.

Where "Total" analyte groups are reported (for example, Total PAHs, Total OC Pesticides) the total will be calculated as the sum of the individual analytes, with those analytes that are reported as <LOR being assumed to be zero. The summed (Total) limit of reporting is calculated by summing the individual analyte LORs and dividing by two. For example, where 16 individual analytes are being summed and each has an LOR of 0.1 mg/kg, the "Totals" LOR will be 1.6 / 2 (0.8 mg/kg). Where only 2 analytes are being summed, the " Total" LOR will be the sum of those two LORs.

Some totals may not appear to add up because the total is rounded after adding up the raw values.

If reported, measurement uncertainty follow the ± sign after the analytical result and is expressed as the expanded uncertainty calculated using a coverage factor of 2, providing a level of confidence of approximately 95%, unless stated otherwise in the comments section of this report.

Results reported for samples tested under test methods with codes starting with ARS-SOP, radionuclide or gross radioactivity concentrations are expressed in becquerel (Bq) per unit of mass or volume or per wipe as stated on the report. Becquerel is the SI unit for activity and equals one nuclear transformation per second.
Note that in terms of units of radioactivity:

a. 1 Bq is equivalent to 27 pCi
b. 37 MBq is equivalent to 1 mCi

For results reported for samples tested under test methods with codes starting with ARS-SOP, less than (<) values indicate the detection limit for each radionuclide or parameter for the measurement system used. The respective detection limits have been calculated in accordance with ISO 11929.

The QC and MU criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: www.sgs.com.au/en-gb/environment-health-and-safety.

This document is issued by the Company under its General Conditions of Service accessible at www.sgs.com/en/Terms-and-Conditions.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client only. Any unauthorized alteration, forgery or

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CHAIN OF CUSTODY & ANALYSIS REQUEST

Page __2__ of __2__

SGS Environmental Services
Unit 16, 33 Maddox Street
Alexandria NSW 2015
Telephone No: (02) 85940400
Facsimile No: (02) 85940499
Email: au.samplereceipt.sydney@sgs.com

Company Name:	Getex Pty Ltd	Project Name/No:	12740
Address:		Purchase Order No:	8964
		Results Required By:	
		Telephone:	0447 638 204
Contact Name:	Brodie Bishop	Facsimile:	
		Email Results:	help@getex.com.au

Client Sample ID	Date Sampled	Lab Sample ID	WATER	SOIL	PRESERVATIVE	NO OF CONTAINERS	Contamination Suite – CL10	Contamination Suite – CL15	BTEXN
12740/BH5/S1	8/11/24	12		x		1		X	
12740/BH5/S2	8/11/24	13		x		1		x	
12740/BH5/S3	8/11/24	14		x		1		X	
12740/BH6/S1	8/11/24	15		x		1		x	
12740/BH6/S2	8/11/24	16		x		1		x	
12740/RB1	8/11/24	17							x
12740/TB1	8/11/24	18							x

SGS Alexandria Environmental

SE263568A COC
Received: 17–Apr–2024

Relinquished By: Brodie Bishop	Date/Time:	Received By:	Date/Time 17.4.24 5:30
Relinquished By:	Date/Time:	Received By:	Date/Time
Samples Intact: (Yes)/ No	Temperature: Ambient / Chilled 4.1	Sample Cooler Sealed: (Yes)/ No	Laboratory Quotation No:
	Comments:		

SAMPLE RECEIPT ADVICE

SE263568A

CLIENT DETAILS

Contact	Brodie Bishop
Client	GETEX PTY LTD
Address	Suite 126, Level 1 22-28 Edgeworth David Avenue HORNSBY NSW 2077
Telephone	61 2 98892488
Facsimile	(Not specified)
Email	brodie.bishop@getex.com.au
Project	**12740**
Order Number	**GET-8964**
Samples	18

LABORATORY DETAILS

Manager	Huong Crawford
Laboratory	SGS Alexandria Environmental
Address	Unit 16, 33 Maddox St Alexandria NSW 2015
Telephone	+61 2 8594 0400
Facsimile	+61 2 8594 0499
Email	au.environmental.sydney@sgs.com
Samples Received	Wed 17/4/2024
Report Due	Wed 24/4/2024
SGS Reference	**SE263568A**

SUBMISSION DETAILS

This is to confirm that 18 samples were received on Wednesday 17/4/2024. Results are expected to be ready by COB Wednesday 24/4/2024.
Please quote SGS reference SE263568A when making enquiries. Refer below for details relating to sample integrity upon receipt.

Sample counts by matrix	1 Soil	Type of documentation received	COC
Date documentation received	17/4/2024	Samples received in good order	Yes
Samples received without headspace	Yes	Sample temperature upon receipt	19.1°C
Sample container provider	SGS	Turnaround time requested	Standard
Samples received in correct containers	Yes	Sufficient sample for analysis	Yes
Sample cooling method	Ice Bricks	Samples clearly labelled	Yes
Complete documentation received	Yes		

Unless otherwise instructed, water and bulk samples will be held for one month from date of report, and soil samples will be held for two months.

COMMENTS

SAMPLE RECEIPT ADVICE

SE263568A

CLIENT DETAILS

Client GETEX PTY LTD

Project 12740

SUMMARY OF ANALYSIS

No.	Sample ID	Moisture Content	VOC's in Soil
018	12740/TB1	1	11

The above table represents SGS' interpretation of the client-supplied Chain Of Custody document.
The numbers shown in the table indicate the number of results requested in each package.
Please indicate as soon as possible should your request differ from these details .
Testing as per this table shall commence immediately unless the client intervenes with a correction .

APPENDIX IX

QA/QC

QUALITY ASSURANCE/QUALITY CONTROL

The sampling and analysis program included, for Quality Assurance / Quality Control (QA/QC) purposes, the analysis of blind and split replicate samples. For soil sampling one blind and one split replicate was taken for TRH, BTEX, PAHs and Metals. The primary and blind replicate samples were sent to the same laboratory (SGS Australia Pty Ltd) and the split replicate was to an independent laboratory (Eurofins | Environment Testing).

The data quality objective was defined as an acceptable relative percentage difference (RPD) between the primary and blind or split sample of 30% - 50%. This variation can be expected to be higher for organic analysis than for inorganics, and for low concentration of analytes. However a higher RPD was considered to be acceptable in cases where the analytical result was less than three times the laboratory's lower limit of reporting, or where the analytical result was less than 10% of the acceptance criteria. In these situations a large RPD value that has little significance.

The RPD is a measure of precision that was calculated by dividing the difference of two laboratory reported values by the average of those values, multiplied by 100.

I.e. $RPD = (X_1 - X_2) / X_{ave} \times 100$

Where:

X_1 = concentration observed with the first detector or equipment;

X_2 = concentration observed with the second detector, equipment, or absolute value; and

X_{ave} = average concentration = [(X1 + X2) / 2]

The Laboratory QA/QC procedure must comply with the following minimum requirements:

- At least one blank every 20 samples
- At least one Laboratory control sample every 20 samples
- At least one duplicate every 10 samples
- At least one matrix spike every 20 samples

The assessment of the laboratory analytical data also included the following conditions:

- Maximum sample holding times for organics were 14 days. Metals and metalliods holding times were 6 months. Mercury (Hg) holding times was 28 days;
- Sample preservation and handling were conducted in accordance with industry accepted standards;
- All sample analyses were conducted by NATA accredited laboratories;
- Laboratory blank analysis to be below PQLs; and
- The relative percentage difference (RPD) of duplicates/replicates and percent recoveries of control spikes to be calculated and compared to the following criteria:
    - Less than 30% for field replicates;
    - Less than 40% for internal duplicate samples and less than 44% on duplicates with 10 times the limit of reporting; and
    - 75-125% recovery for internal recovery samples.

Analyte	Analyte Concentration Totals (mg/kg)			Relative Percentage Difference of Blind Replicate	Relative Percentage Difference of Split Replicate
Sample Number	11740/BH01/S3	11740/BH01/S3a	11740/BH01/S3b	%	%
Laboratory	SGS Australia Pty Ltd	SGS Australia Pty Ltd	Eurofins | Environment Testing	-	-
Replicate Description	Primary Sample	Blind Replicate of 11740/BH01/S3	Split Replicate of 11740/BH01/S3	-	-
TRH C6 - C9	<20	<20	<20	0%	0%
TRH C6 - C10	<25	<25	<20	0%	22%
vTPH C6 - C10 less BTEX (F1)	<25	<25	<20	0%	22%
Benzene	<0.1	<0.1	<0.1	0%	0%
Toluene	<0.1	<0.1	<0.1	0%	0%
Ethylbenzene	<0.1	<0.1	<0.1	0%	0%
m+p-xylene	<0.2	<0.2	<0.2	0%	0%
o-Xylene	<0.1	<0.1	<0.1	0%	0%
naphthalene	<0.1	<0.1	<0.5	0%	133%*
Total +ve Xylenes	<0.3	<0.3	<0.3	0%	0%
TRH C10 - C14	<20	<20	<20	0%	0%
TRH C15 - C28	<45	<45	<50	0%	11%
TRH C29 - C36	<45	<45	<50	0%	11%
TRH >C10-C16	<25	<25	<50	0%	67%*
TRH >C10 - C16 less Naphthalene (F2)	<25	<25	<50	0%	67%*
TRH >C16-C34	<90	<90	<100	0%	11%
TRH >C34-C40	<120	<120	<100	0%	18%
Total +ve TRH (>C10-C40)	<110	<110	<100	0%	10%
Naphthalene	<0.1	<0.1	< 0.5	0%	133%*
Acenaphthylene	<0.1	<0.1	< 0.5	0%	133%*
Acenaphthene	<0.1	<0.1	< 0.5	0%	133%*
Fluorene	<0.1	<0.1	< 0.5	0%	133%*
Phenanthrene	<0.1	<0.1	< 0.5	0%	133%*
Anthracene	<0.1	<0.1	< 0.5	0%	133%*
Fluoranthene	<0.1	<0.1	< 0.5	0%	133%*
Pyrene	<0.1	<0.1	< 0.5	0%	133%*
Benzo(a)anthracene	<0.1	<0.1	< 0.5	0%	133%*
Chrysene	<0.1	<0.1	< 0.5	0%	133%*
Benzo(b,j+k)fluoranthene	<0.1	<0.1	< 0.5	0%	133%*
Benzo(a)pyrene	<0.3	<0.3	< 0.5	0%	50%
Indeno(1,2,3-c,d)pyrene	<0.1	<0.1	< 0.5	0%	133%*
Dibenzo(a,h)anthracene	<0.1	<0.1	< 0.5	0%	133%*
Benzo(g,h,i)perylene	<0.1	<0.1	< 0.5	0%	133%*
Total +ve PAH's	< 0.8	< 0.8	< 0.5	0%	46%
Benzo(a)pyrene TEQ calc (zero)	<0.2	<0.2	< 0.5	0%	86%

Analyte	Analyte Concentration Totals (mg/kg)			Relative Percentage Difference of Blind Replicate	Relative Percentage Difference of Split Replicate
Sample Number	11740/BH01/S3	11740/BH01/S3a	11740/BH01/S3b	%	%
Laboratory	SGS Australia Pty Ltd	SGS Australia Pty Ltd	Eurofins | Environment Testing	-	-
Replicate Description	Primary Sample	Blind Replicate of 11740/BH01/S3	Split Replicate of 11740/BH01/S3	-	-
Benzo(a)pyrene TEQ calc(half)	<0.3	<0.3	0.6	0%	67%*
Benzo(a)pyrene TEQ calc(PQL)	<0.2	<0.2	1.2	0%	143%*
Arsenic	8	7	13	13%	48%^
Cadmium	<0.3	<0.3	< 0.4	0%	29%
Chromium	18	18	23	0%	24%
Copper	15	15	22	0%	38%^
Lead	12	11	16	9%	29%
Mercury	<0.05	<0.05	< 0.1	0%	67%*
Nickel	4.7	4.1	7.7	14%	48%^
Zinc	43	42	54	2%	23%

*Results less than three times the laboratory detection limits
^Results less than 10% of the Assessment Criteria

Trip Blank and Rinsate Blank

To ensure accuracy of the sampling techniques, one trip blank was carried during soil sampling and one rinsate sample was collected during soil sampling.

Results for the rinsate sample is considered acceptable as all are below laboratory PQLs.

Soil Rinsate		Sample Number	12740/RB1
ANALYTE	Units	PQL	
Benzene	µg/L	0.5	<0.5
Toluene	µg/L	0.5	<0.5
Ethylbenzene	µg/L	0.5	<0.5
m+p-xylene	µg/L	1	<1
o-Xylene	µg/L	0.5	<0.5

Results for the trip blank are considered acceptable as all are below laboratory PQLs.

Soil Trip Blank	Sample Number	12740/TB1
ANALYTE	Units	
Benzene	mg/kg	<0.1
Toluene	mg/kg	<0.1
Ethylbenzene	mg/kg	<0.1
m+p-xylene	mg/kg	<0.2
o-xylene	mg/kg	<0.1

Laboratory QA/QC

SGS Australia Pty Ltd and Eurofins | mgt both comply with the minimum Laboratory QA/QC requirements as established in Section 9.1.6, which include performing the following:

- At least one blank every 20 samples;
- At least one Laboratory control sample every 20 samples;
- At least one duplicate every 10 samples; and
- At least one matrix spike every 20 samples.

The laboratories have met the previously determined QA/QC requirements. The QA/QC data is considered satisfactory and the quality of the analytical results considered suitable for the purposes of the soil sampling.

Field Replicates QA/QC

All QA/QC data is either within the RPD, the result was less than three times the laboratories limit of reporting or less than 10% of the acceptance criteria. Based on the overall results of the QA/QC, the data is considered satisfactory to meet the predetermined data quality objective.

APPENDIX X

BOREHOLE LOGS

FORTIFY GEOTECH

Borehole Log

Borehole No.	**BH01**
Sheet	1 of 1
Job No.	C15142

CLIENT: BD Infrastructure

PROJECT: Proposed Batemans Bay Hospital Redevelopment
Batemans Bay Hospital, 7 Pacific Street, Batemans Bay, NSW

Location : Existing Carpark
Collar Level : Not Known
Angle From Vertical : 0°
Bearing : N.A.

Equipment Type : Trailer Mounted Rig
Hole Diameter : 200mm

Sample No.	Water	Method/ Casing	RL (m)	Depth (m)	Graphic Log	U.S.C.S.	Material Description, Structure Soil Type: Plasticity or Particle Characteristics, Colour, Secondary and Minor Components, Moisture, Structure	Moisture Condition	Consistency or Relative Density	Field Test Results	Geological Profile
	None Encountered			0.15		SM	TOPSOIL; Silty SAND; fine to coarse grained sand, low plasticity silt, brown, trace of grass roots.	D	L		TOPSOIL
				0.9		SW-SM	Silty Gravelly SAND; fine to coarse grained sand, low plasticity silt, fine to medium grained, sub-rounded to subangular gravel, brown.	D	MD		COLLUVIAL SOIL
				1.0		SC=SM	Silty Clayey SAND; fine to coarse grained sand, low plasticity fines, orange-brown. from 1.5m, changes colour to brown	D	MD		
				2.0		SC-SM	Silty Clayey SAND; fine to coarse grained sand, low plasticity fines, pale yellow-brown, orange-brown, with fine Extremely Weathered (XW) Sandstone gravel. from 2.5m, changes colour to yellow-brown, more Extremely Weathered (XW) Sandstone gravel.	D	MD-D		
				3.0			BOREHOLE TERMINATED AT 3m Target Depth				
				4.0							

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BOREHOLE/EXCAVATION LOG C15142 GINT.GPJ EXC.GDT 17/4/24

FORTIFY GEOTECH

Borehole Log

Borehole No.	**BH02**
Sheet	1 of 1
Job No.	C15142

CLIENT: BD Infrastructure

PROJECT: Proposed Batemans Bay Hospital Redevelopment
Batemans Bay Hospital, 7 Pacific Street, Batemans Bay, NSW

Location : Ambulance Bay

Equipment Type : Trailer Mounted Rig
Hole Diameter : 200mm

Collar Level : Not Known
Angle From Vertical : 0°
Bearing : N.A.

Sample No.	Water	Method/ Casing	RL (m)	Depth (m)	Graphic Log	U.S.C.S.	Material Description, Structure Soil Type: Plasticity or Particle Characteristics, Colour, Secondary and Minor Components, Moisture, Structure	Moisture Condition	Consistency or Relative Density	Field Test Results	Geological Profile
	None Encountered			0.1		GW	FILL; DGB20, loose gravel.	D	L		FILL
						SC	FILL; Clayey SAND; fine to coarse grained sand, low plasticity clay, dark brown.	D	L		
				0.3		SW-SM	Silty Gravelly SAND; fine to coarse grained sand, low plasticity silt, fine to medium grained, sub-rounded to subangular gravel, yellow-brown, pale brown.	D	MD		COLLUVIAL SOIL
				1.0		SW-SC	Clayey Gravelly SAND; fine to coarse grained sand, low plasticity clay, fine to coarse grained, extremely weathered shale/sandstone gravel, brown.	D	MD		
				1.8		SW-SM	Silty Gravelly SAND; fine to coarse grained sand, low plasticity silt, fine to coarse grained, sub-angular to subrounded gravel, brown.	D	MD		
				2.0		SW-SM	Silty Gravelly SAND; fine to coarse grained sand, low plasticity silt, fine to medium grained, sub-rounded gravel, brown.	D	MD		
				2.2							
				3.0			BOREHOLE TERMINATED AT 3m Target Depth				
				4.0							

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FORTIFY GEOTECH

Borehole Log

Borehole No.	**BH03**
Sheet	1 of 1
Job No.	C15142

CLIENT: BD Infrastructure

PROJECT: Proposed Batemans Bay Hospital Redevelopment
Batemans Bay Hospital, 7 Pacific Street, Batemans Bay, NSW

Location : Ambulance Bay

Equipment Type : Trailer Mounted Rig
Hole Diameter : 200mm

Collar Level : Not Known
Angle From Vertical : 0°
Bearing : N.A.

Sample No.	Water	Method/ Casing	RL (m)	Depth (m)	Graphic Log	U.S.C.S.	Material Description, Structure Soil Type: Plasticity or Particle Characteristics, Colour, Secondary and Minor Components, Moisture, Structure	Moisture Condition	Consistency or Relative Density	Field Test Results	Geological Profile
			0.05			GW	FILL; DGB20, loose gravel.	D	L		FILL
			0.15			SW-SM	FILL; Silty Gravelly SAND; fine to medium grained sand, low plasticity silt, fine to coarse grained, subangular gravel, pink-brown.	D	L		
						SW		D	L		
			0.4				FILL; Gravelly SAND; fine to coarse grained sand, fine to coarse grained, sub-angular gravel, pale brown.				
						SW-SM		D	MD		COLLUVIAL SOIL
	None Encountered			1.0			Silty Gravelly SAND; fine to coarse grained sand, low plasticity silt, fine to coarse grained, sub-rounded to subangular gravel, pale brown.				
			1.5			SC-SM	Silty Clayey SAND; fine to coarse grained sand, low plasticity fines, orange-brown.	D	MD		RESIDUAL SOIL
				2.0			at 2m, trace of roots.				
				3.0			BOREHOLE TERMINATED AT 3m Target Depth				
				4.0							

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BOREHOLE/EXCAVATION LOG C15142 GINT.GPJ EXC.GDT 17/4/24

FORTIFY GEOTECH

Borehole Log

Borehole No.	**BH04**
Sheet	1 of 2
Job No.	C15142

CLIENT: BD Infrastructure

PROJECT: Proposed Batemans Bay Hospital Redevelopment
Batemans Bay Hospital, 7 Pacific Street, Batemans Bay, NSW

Location : Existing Carpark
Collar Level : Not Known
Angle From Vertical : 0°
Bearing : N.A.

Equipment Type : Trailer Mounted Rig
Hole Diameter : 200mm

Sample No.	Water	Method/ Casing	RL (m)	Depth (m)	Graphic Log	U.S.C.S.	Material Description, Structure Soil Type: Plasticity or Particle Characteristics, Colour, Secondary and Minor Components, Moisture, Structure	Moisture Condition	Consistency or Relative Density	Field Test Results	Geological Profile
			0.1				ASPHALT	D	L		ASPHALT
	None Encountered			1.0		SW-SM	Silty Gravelly SAND; fine to coarse grained sand, low plasticity silt, fine to medium grained, sub-rounded to subangular gravel, pale brown.	D	MD		COLLUVIAL SOIL
				2.0							
				3.0							
			4.0								

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BOREHOLE/EXCAVATION LOG C15142 GINT.GPJ EXC.GDT 17/4/24

FORTIFY GEOTECH

Borehole Log

Borehole No.	**BH04**
Sheet	2 of 2
Job No.	C15142

CLIENT: BD Infrastructure

PROJECT: Proposed Batemans Bay Hospital Redevelopment
Batemans Bay Hospital, 7 Pacific Street, Batemans Bay, NSW

Location : Existing Carpark

Equipment Type : Trailer Mounted Rig
Hole Diameter : 200mm

Collar Level : Not Known
Angle From Vertical : 0°
Bearing : N.A.

Sample No.	Water	Method/ Casing	RL (m)	Depth (m)	Graphic Log	U.S.C.S.	Material Description, Structure Soil Type: Plasticity or Particle Characteristics, Colour, Secondary and Minor Components, Moisture, Structure	Moisture Condition	Consistency or Relative Density	Field Test Results	Geological Profile
	None Encountered					SW-SM	Silty Gravelly SAND; fine to coarse grained sand, low plasticity silt, fine to medium grained, sub-rounded to subangular gravel, pale brown. from 4.0m, colour change to orange-pink-brown, with fine to coarse grained, subangular to sub-rounded sandstone gravel.	D	MD-D		COLLUVIAL SOIL
				5.0							
				6.0							
				7 7.0			BOREHOLE TERMINATED AT 7m Target Depth				
				8.0							

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BOREHOLE/EXCAVATION LOG C15142 GINT.GPJ EXC.GDT 17/4/24

FORTIFY GEOTECH

Borehole Log

Borehole No.	**BH05**
Sheet	1 of 1
Job No.	C15142

CLIENT: BD Infrastructure

PROJECT: Proposed Batemans Bay Hospital Redevelopment
Batemans Bay Hospital, 7 Pacific Street, Batemans Bay, NSW

Location : Existing Carpark
Collar Level : Not Known
Angle From Vertical : 0°
Bearing : N.A.

Equipment Type : Trailer Mounted Rig
Hole Diameter : 200mm

Sample No.	Water	Method/ Casing	RL (m)	Depth (m)	Graphic Log	U.S.C.S.	Material Description, Structure Soil Type: Plasticity or Particle Characteristics, Colour, Secondary and Minor Components, Moisture, Structure	Moisture Condition	Consistency or Relative Density	Field Test Results	Geological Profile
	None Encountered			0.1			ASPHALT	D	L		ASPHALT
				0.2		GW	FILL; Sandy GRAVEL; fine to coarse grained, sub-angular to sub-rounded gravel, fine to coarse grained sand, pink brown.	D	L		FILL
						SW-SM	Silty Gravelly SAND; fine to coarse grained sand, low plasticity silt, fine to medium grained, sub-rounded to subangular gravel, yellow-brown.	D	MD		COLLUVIAL SOIL
				1.0			from 1.1m, colour changes to orange-brown.				
				2.0			from 2.5m, fine to coarse grained, sandstone gravel.		MD-D		
				3.0			BOREHOLE TERMINATED AT 3m Target Depth				
				4.0							

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BOREHOLE/EXCAVATION LOG C15142 GINT.GPJ EXC.GDT 17/4/24

FORTIFY GEOTECH

Borehole Log

Borehole No.	**BH06**
Sheet	1 of 1
Job No.	C15142

CLIENT: BD Infrastructure

PROJECT: Proposed Batemans Bay Hospital Redevelopment
Batemans Bay Hospital, 7 Pacific Street, Batemans Bay, NSW

Location : Existing Carpark

Equipment Type : Trailer Mounted Rig
Hole Diameter : 200mm

Collar Level : Not Known
Angle From Vertical : 0°
Bearing : N.A.

Sample No.	Water	Method/ Casing	RL (m)	Depth (m)	Graphic Log	U.S.C.S.	Material Description, Structure Soil Type: Plasticity or Particle Characteristics, Colour, Secondary and Minor Components, Moisture, Structure	Moisture Condition	Consistency or Relative Density	Field Test Results	Geological Profile
							ASPHALT	D			ASPHALT
			0.1			SW	FILL; Gravelly SAND; fine to coarse grained sand, fine to coarse grained, sub-angular gravel, pink-brown.	D	L		FILL
	None Encountered		0.55			SW-SM	Silty Gravelly SAND; fine to coarse grained sand, low plasticity silt, fine to medium grained, sub-rounded to subangular gravel, yellow-brown.	D	MD		COLLUVIAL SOIL
				1.0							
				2.0			from 2.5m, colour changes to orange-brown, fine to coarse grained, sub-angular to sub-rounded sandstone gravel.		MD-D		
				3.0			BOREHOLE TERMINATED AT 3m Target Depth				
				4.0							

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