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14 September 2021

Vesna Dordevich
805 Mamre Road, Kemps Creek NSW
cc: Gibb Group Developments Pty Ltd: Matt Gibb

SUBJECT: **Environmental Contamination Investigation**

SITE: **805 – 817 Mamre Road, Kemps Creek NSW 2178**

Dear Vesna,

Geo-Logix Pty Ltd (Geo-Logix) is pleased to provide this letter report for the investigation of a filled former farm dam and the dam walls of a former large dam intersecting the southwest portion of the site, located at 805-817 Mamre Road, Kemps Creek NSW (Figure 1). Geo-Logix was commissioned by Gibb Group Developments Pty Ltd on behalf of Vesna Dordevich to conduct investigation of the two areas for potential contamination.

1. SITE INFORMATION

The investigation area comprises the following property and is presented in Figure 2:

Street Address	Lot and Deposited Plan (DP)	Approximate Area (m^2)
805-817 Mamre Road, Kemps Creek NSW 2178	Lot 26 DP 258414	210,000 (21ha)

1.1 Site Zoning and Land Use

The site is mixed zoned of IN1 'General Industrial', RE1 'Public Recreation' and ENZ 'Environment and Recreation' according to Zoning, Planning Controls and Topography database. Land use information is presented in Attachment A, including the Section 10.7 certificate.

As the western part of the property is zoned for environment and recreation, this currently prohibits multiple uses of the area including but not limited to residential accommodation, warehouse of distribution centres, office premises etc.

1.2 Site Description

A site inspection was conducted on the 30 June 2021 as part of the investigation. The following site description was determined from the inspection and aerial imagery. Photos are presented in Attachment B.

At the time of the investigation, the site was occupied by Vesna and Maria Dordevich in use as a rural residential property and cattle grazing. Access to the site is via Mamre Road.

A tall metal clad shed exists on the property in use as a residential dwelling. A second metal clad shed exists on site, a portion is used as a cattle shelter, a portion is used for farm equipment storage and a portion for hay bale storage. There is a third metal clad chicken coop with a concrete slab base.

Two irrigation points were observed in the north and south paddocks in the centre of the site. Treated water from sewage discharge is gravity fed via drainage line from the residential dwelling through the south paddock towards Kemps Creek. There is a small dam associated with a drainage line which runs through the north-eastern corner of the site. There is a culvert at the intersection of the site and the neighbouring property to the north, some filling was observed at the culvert, containing asphalt and debris washed down from the upstream tributary of South Creek.

The confluence of Kemps Creek and South Creek is in the western corner of the site. Both creeks flow to the north. A large dam wall on South Creek was observed to be breached and gullied. Kemps Creek and South Creek appear to be subject to gully erosion.

1.3 Anecdotal Information

At the time of the site visit, Vesna Dordevich the occupier / owner provided the following information:

- The neighbour immediately to the south occupying 819-833B Mamre Road, has historically imported fill and levelled his land. This property is now at a higher elevation than the site and as a result the site receives runoff from the neighbouring property;
- This neighbour received permission from Hawkesbury Council to breach and decommission the dam on South Creek;
- The site and surrounding lots used to be a part of Fleurs Estate, including cattle drenching approximately 900 m south of the site; and
- There is *Pontederia crassipes* (water hyacinth) in the small farm dam in the northeast corner of the site. The water hyacinth is currently managed by the site owner and Hawkesbury council has confirmed that the water hyacinth can be disposed of as garden organics.

2. SITE HISTORY SUMMARY

The following information was reviewed to determine historical land use and assess the likelihood of potentially contaminating activities having occurred at the site:

- Current and historical title deeds;
- Historical aerial photographs;
- NSW Environment Protection Authority (EPA) Contaminated Land Public Record;
- Protection of Environment Operations Act 1997 (POEO) public register;
- List of NSW Contaminated Sites Notified to the EPA; and
- Australian Department of Defence Unexploded Ordinance (UXO) register.

The review of historical data indicated the following site history:

Period	Land Use
1897 to 1930	Mixed ownership by graziers
1930 to 1934	Owned by financial services company
1934 to 1948	Owned by a development company.
1948 to 1975	One dam existing onsite and the site was owned by butchers. The dam was filled between 1965 and 1975. Between 1955 and 1961, a large dam on South Creek was formed. The dam wall was on the subject site.

Period	Land Use
1968 to 1975	Owned by Fleurs Farms and used for grazing.
1975 to current	Owned by Dordevich family. No changes to site. The large dam on South Creek was breached in 2004 and no longer holds water.

3. POTENTIAL SITE CONTAMINATION

Fill of Unknown Origin

A farm dam formerly existed on the western portion of the site and has been fill as indicated by aerial photograph history The origin of the material used to fill the dam is not known and the filling occurred between 1965 and 1975.

Additionally, a dam exists in the southwest portion of the site. The origin of the material to construct the dam wall is not known.

The contaminants of potential concern (COPC) associated with fill of unknown origin include the following:

- Heavy Metals;
- Total Recoverable Hydrocarbons (TRH);
- Benzene, Toluene, Ethylbenzene, Xylene, Naphthalene (BTEXN);
- Polyaromatic Hydrocarbons (PAHs);
- Organochlorine Pesticides (OCPs); and
- Asbestos.

4. INVESTIGATION RESULTS

Geo-Logix conducted Detailed Site Investigation of the site on the 28 July 2021. Sample locations are presented on Figure 3. The investigation scope of work and adopted assessment criteria is detailed below:

4.1 Assessment Criteria

Geo-Logix adopted the below criteria on the basis the zoned area is environmentally sensitive:

- NEPM Health Based Investigation Level A (HILs A);
- NEPM Health Screening Levels A (HSLs A);
- Preliminary Asbestos Criteria;
- NEPM Management Limits;
- Ecological Investigation Levels (99% protection level); and
- Ecological Screening Levels.

4.2 Soil Sampling Analysis Plan

To assess for potential soil contamination within the area of the filled dam and dam wall existing on the site, Geo-Logix completed the following scope of works:

Method	Area	Sample Locations	Number of soil samples analysed	COPCs analysed
Exploratory test pits using an excavator	Filled former farm dam	HD1 – HD8	8	TRH, BTEX, PAHs, OCPs, Heavy Metals
Exploratory test pits using an excavator	Walls of large former dam	DWS1 – DWS8	7	TRH, BTEX, PAHs, OCPs, Heavy Metals

4.3 Investigations Results

Geology

- Filled Dam: Fill encountered to maximum depth of 1.3 mbg within the filled former farm dam and 0.7 across the remained of the area. Fill was identified as topsoil and was underlain by a natural pale red native clay (Figure 3).
- Former Dam Wall: The dam wall consisted of red-orange clayey sands that appeared to be native materials excavated locally from the surrounding area and used to construct the dam wall.

Soil test pit logs are presented in Attachment C.

Hydrogeology

Groundwater was not encountered at any sample locations, with no groundwater wells observed or installed on site.

Soil Analytical results

Contaminants of Potential Concern (COPCs) were not detected at concentrations above the adopted assessment criteria in all soil samples analysed.

5. CONCLUSIONS

The intrusive investigation identified the following:

- The former farm dam has been filled with topsoil. Contaminants of potential concern were not identified in the fill at concentrations above sensitive ecological criteria or conservative human health protection criteria. It is likely that the material used to fill the dam originated from the site;
- The dam wall on South Creek comprises natural material that was likely pushed up from surround land. Contaminants of potential concern were not detected in the dam wall material at concentrations above sensitive ecological criteria or conservative human health protection criteria.

No conditions that would restrict the environmental protection status of the western portion of the site was identified.

Please feel free to contact Geo-Logix should you have any further questions regarding this letter.

Tiffany Mabbott
BEnv
Project Scientist

Ben Pearce
BSc (Hons) MEIANZ, CEnvP#321
Principal

ATTACHED:

Figures

Figure 1: Site Location

Figure 2: Site Map

Figure 3: Dam Investigation Sample Locations

Tables

Table 1: Summary of Soil Analytical Data – Petroleum Hydrocarbons

Table 2: Summary of Soil Analytical Data – Polyaromatic Hydrocarbons

Table 3: Summary of Soil Analytical Data – Organochlorine Pesticides

Table 4: Summary of Soil Analytical Data – Heavy Metals

Attachments

Attachment A: Planning Certificates under Section 10.7

Attachment B: Photographic Log

Attachment C: Soil Logs

LIMITATIONS

This report should be read in full, and no executive summary, conclusion or other section of the report may be used or relied on in isolation, or taken as representative of the report as a whole. No responsibility is accepted by Geo-Logix, and any duty of care that may arise but for this statement is excluded, in relation to any use of any part of this report other than on this basis.

This report has been prepared for the sole benefit of and use by the Client. No other person may rely on the report for any purpose whatsoever except with Geo-Logix' express written consent. Any duty of care to third parties that would or may arise in respect of persons other than the Client, but for this statement, is excluded.

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The works undertaken by Geo-Logix are based solely on the scope of works, as agreed by the Client (**Scope of Works**). No other investigations, sampling, monitoring works or reporting will be carried out other than as expressly provided in the Scope of Works. **A COPY OF THE SCOPE OF WORKS IS AVAILABLE ON REQUEST.**

To the extent permitted by law, Geo-Logix makes no warranties or representations as to the:

(a) suitability of the Site for any specific use, or category of use, or

(b) potential statutory requirements for remediation, if any, of the Site,

(c) approvals, if any, that may be needed in respect of any use or category of use, or

(d) level of remediation, if any, that is warranted to render the Site suitable for any specific use, or category of use, or

(e) level of ongoing monitoring of Site conditions, if any, that is required in respect of any specific use, or category of use, or

(f) presence, extent or absence of any substance in, on or under the Site,

other than as expressly stated in this report.

The conclusions stated in this report are based solely on the information, Scope of Works, analysis and data that are stated or expressly referred to in this report.

To the extent that the information and data relied upon to prepare this report has been conveyed to Geo-Logix by the Client or third parties orally or in the form of documents, Geo-Logix has assumed that the information and data are completely accurate and has not sought independently to verify the accuracy of the information or data. Geo-Logix assumes no responsibility or duty of care in respect of any errors or omissions in the information or data provided to it.

Without limiting the paragraph above, where laboratory tests have been carried out by others on Geo-Logix' behalf, the tests are reproduced in this report on the assumption that the tests are accurate. Geo-Logix has not sought independently to verify the accuracy of those tests and assumes no responsibility in respect of them.

Geo-Logix assumes no responsibility in respect of any changes in the condition of the Site which have occurred since the time when Geo-Logix gathered data and/or took samples from the Site on its site inspections dated 29 July 2021 and 3 August 2021**.**

Given the nature of asbestos, and the difficulties involved in identifying asbestos fibres, despite the exercise of all reasonable due care and diligence, thorough investigations may not always reveal its presence in either buildings or fill. Even if asbestos has been tested for and those tests' results do not reveal the presence of asbestos at those specific points of sampling, asbestos or asbestos containing materials may still be present at the Site, particularly if fill has been imported at any time, buildings constructed prior to 1980 have been demolished on the Site or materials from such buildings have been disposed of on the Site.

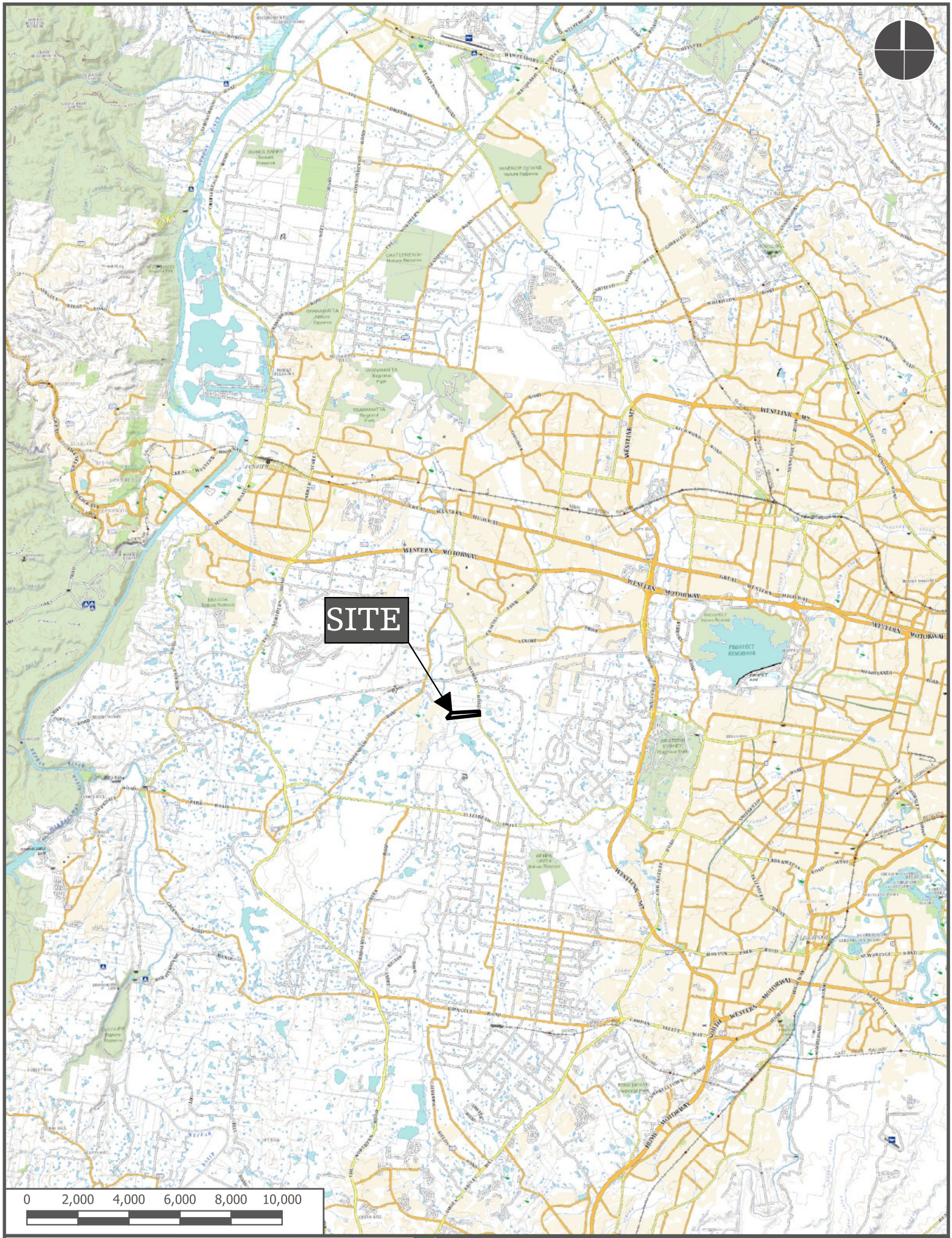
Where the Scope of Works does not include offsite investigations, Geo-Logix provides no warranty as to offsite conditions, including the extent if any to which substances in the Site may be emanating off site, and if so whether any adjoining sites have been or may be impacted by contamination originating from the Site.

Where the Scope of Works does not include the investigation, sampling, monitoring or other testing of groundwater in, on or under the Site, Geo-Logix provides no warranty or representation as to the quality of groundwater on the Site or the actual or potential migration of contamination in groundwater across or off the Site.

Subsurface site conditions are typically heterogeneous, and may change with time. Samples taken from different points on the Site may not enable inferences to be drawn about the condition of areas of the Site significantly removed from the sample points, or about the condition of any part of the Site whatsoever, in particular where the proposed inferences are to be drawn a long time after the date of the report.

Geo-Logix has prepared this report with the diligence, care and skill which a reasonable person would expect from a reputable environmental consultancy and in accordance with environmental regulatory authority and industry standards, guidelines and assessment criteria applicable as at the date of this report. Industry standards and environmental criteria change frequently, and may change at any time after the date of this report.

FIGURES



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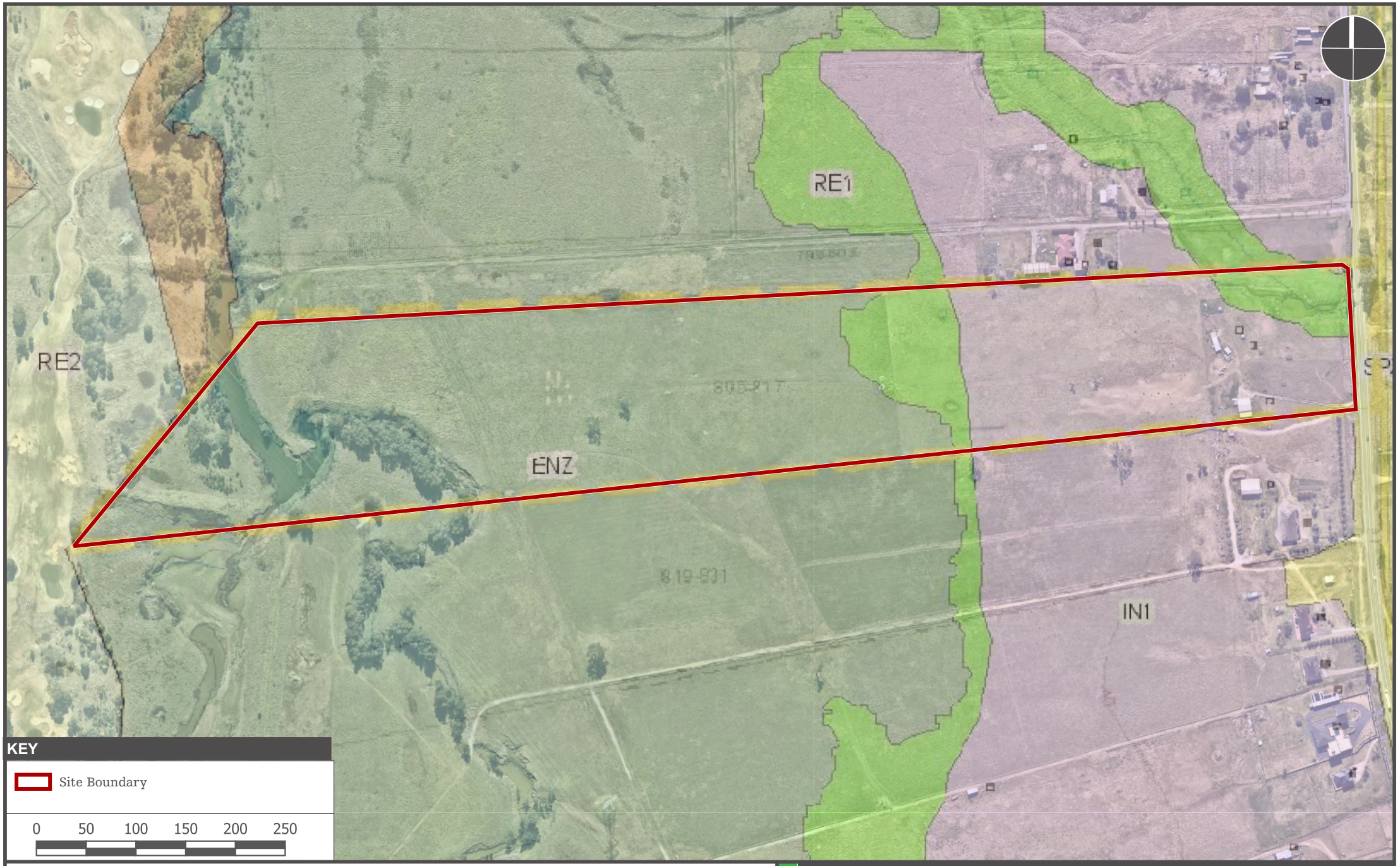
SITE LOCATION

Preliminary Site Investigation
805 - 817 Mamre Road, Kemps Creek NSW 2178

Project No. 2101084

Figure 1



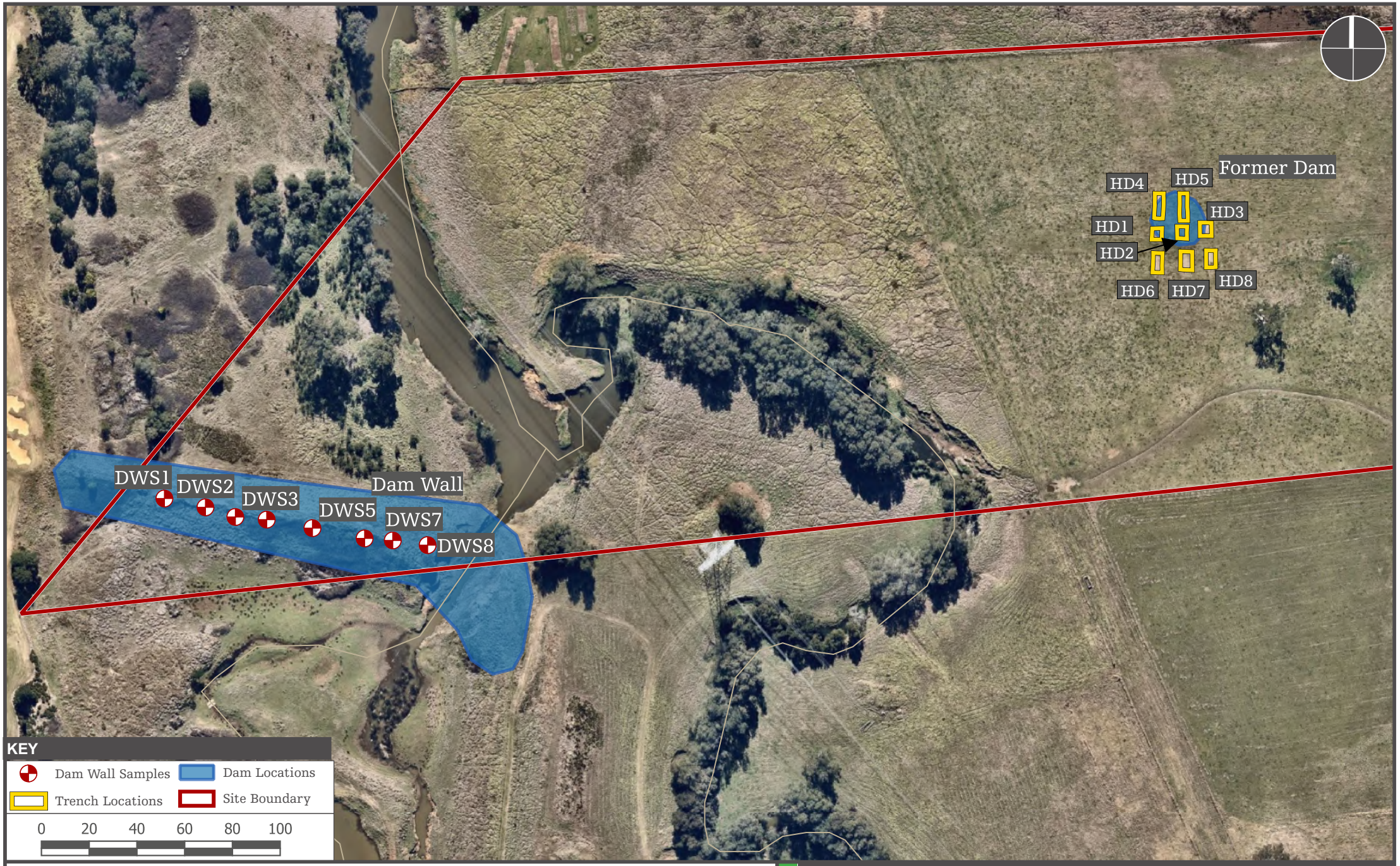
Geo-Logix

SITE MAP

Preliminary and Detailed Site Investigation
805 - 817 Mamre Road, Kemps Creek NSW 2178

Project Number: 2101084

Figure 2



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SAMPLE LOCATIONS

Preliminary and Detailed Site Investigation
805 - 817 Mamre Road, Kemps Creek NSW 2178

Project Number: 2101084

Figure 3

TABLES

Table 1 : Summary of Soil Analytical Data - Petroleum Hydrocarbons

Detailed Site Investigation

Project No.: 2101084

805-817 Mamre Road
Kemps Creek, NSW 2178

	Criteria 1	Criteria 2	Criteria 3	Criteria 4						
	Management	HSLs - A/B	EILS	ESLs						
	Limits	Sand	Areas of Eco.	AES	Sample ID	DWS1	DWS2	DWS3	DWS4	DWS6
	Res/Park	0 to <1 m	Significance	Coarse Soil	Date	3/08/2021	3/08/2021	3/08/2021	3/08/2021	3/08/2021
TRH C_6-C_{10}	700	-	-	-		< 20	< 20	< 20	< 20	< 20
TRH C_6-C_{10} less BTEX (F1)	-	45	-	125		< 20	< 20	< 20	< 20	< 20
TRH >C_{10}-C_{16}	1,000	-	-	-		< 50	< 50	< 50	< 50	< 50
TRH >C_{10}-C_{16} less Naphthalene (F2)	-	110	-	25		< 50	< 50	< 50	< 50	< 50
TRH >C_{16}-C_{34}	2,500	-	-	ND		< 100	< 100	< 100	< 100	< 100
TRH >C_{34}-C_{40}	10,000	-	-	ND		< 100	< 100	< 100	< 100	< 100
Benzene	-	0.5	-	8		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	-	160	-	10		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	-	55	-	1.5		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	-	-	-	-		< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	-	-	-	-		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total	-	40	-	10		< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Naphthalene (MAH method)	-	3	10	-		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5

Notes:

Criteria 1 = NEPC (1999) Amended, Residential and parkland Management Limits for TPH fractions in soil, coarse material.
Criteria 2 = NEPC (1999) Amended, 'A/B' Residential Soil Health Screening Levels for vapour intrusion, sand 0 to <1m.
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Criteria 4 = NEPC (1999) Amended, Ecological Screening Levels for areas of ecological significance, coarse soil.
Total concentrations in mg/kg
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Detailed Site Investigation

Project No.: 2101084

805-817 Mamre Road
Kemps Creek, NSW 2178

	Criteria 1	Criteria 2	Criteria 3	Criteria 4						
	Management	HSLs - A/B	EILS	ESLs						
	Limits	Sand	Areas of Eco.	AES	Sample ID	DWS7	DWS8	HD1/0.5-0.8	HD2/0.5-0.8	HD3/0.0-0.7
	Res/Park	0 to <1 m	Significance	Coarse Soil	Date	3/08/2021	3/08/2021	29/07/2021	29/07/2021	29/07/2021
TRH C_6-C_{10}	700	-	-	-		< 20	< 20	< 20	< 20	< 20
TRH C_6-C_{10} less BTEX (F1)	-	45	-	125		< 20	< 20	< 20	< 20	< 20
TRH >C_{10}-C_{16}	1,000	-	-	-		< 50	< 50	< 50	< 50	< 50
TRH >C_{10}-C_{16} less Naphthalene (F2)	-	110	-	25		< 50	< 50	< 50	< 50	< 50
TRH >C_{16}-C_{34}	2,500	-	-	ND		< 100	< 100	< 100	< 100	< 100
TRH >C_{34}-C_{40}	10,000	-	-	ND		< 100	< 100	< 100	< 100	< 100
Benzene	-	0.5	-	8		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	-	160	-	10		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	-	55	-	1.5		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	-	-	-	-		< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	-	-	-	-		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total	-	40	-	10		< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Naphthalene (MAH method)	-	3	10	-		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5

Notes:

Criteria 1 = NEPC (1999) Amended, Residential and parkland Management Limits for TPH fractions in soil, coarse material.
Criteria 2 = NEPC (1999) Amended, 'A/B' Residential Soil Health Screening Levels for vapour intrusion, sand 0 to <1m.
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Table 1 : Summary of Soil Analytical Data - Petroleum Hydrocarbons

Detailed Site Investigation

Project No.: 2101084

805-817 Mamre Road
Kemps Creek, NSW 2178

	Criteria 1	Criteria 2	Criteria 3	Criteria 4						
	Management	HSLs - A/B	EILS	ESLs						
	Limits	Sand	Areas of Eco.	AES	Sample ID	HD4/0.0-0.7	HD5/0.0-0.5	DS1	RPD_DS1	TS1
	Res/Park	0 to <1 m	Significance	Coarse Soil	Date	29/07/2021	29/07/2021	29/07/2021	-	29/07/2021
TRH C_6-C_{10}	700	-	-	-		< 20	< 20	< 20	*nc*	< 20
TRH C_6-C_{10} less BTEX (F1)	-	45	-	125		< 20	< 20	< 20	*nc*	< 20
TRH >C_{10}-C_{16}	1,000	-	-	-		< 50	< 50	< 50	*nc*	< 50
TRH >C_{10}-C_{16} less Naphthalene (F2)	-	110	-	25		< 50	< 50	< 50	*nc*	< 50
TRH >C_{16}-C_{34}	2,500	-	-	ND		< 100	< 100	< 100	*nc*	< 100
TRH >C_{34}-C_{40}	10,000	-	-	ND		< 100	< 100	< 100	*nc*	< 100
Benzene	-	0.5	-	8		< 0.1	< 0.1	< 0.1	*nc*	< 0.1
Toluene	-	160	-	10		< 0.1	< 0.1	< 0.1	*nc*	< 0.1
Ethylbenzene	-	55	-	1.5		< 0.1	< 0.1	< 0.1	*nc*	< 0.1
m&p-Xylenes	-	-	-	-		< 0.2	< 0.2	< 0.2	*nc*	< 0.2
o-Xylene	-	-	-	-		< 0.1	< 0.1	< 0.1	*nc*	< 0.1
Xylenes - Total	-	40	-	10		< 0.3	< 0.3	< 0.3	*nc*	< 0.3
Naphthalene (MAH method)	-	3	10	-		< 0.5	< 0.5	< 0.5	*nc*	< 0.5

Notes:

Criteria 1 = NEPC (1999) Amended, Residential and parkland Management Limits for TPH fractions in soil, coarse material.
Criteria 2 = NEPC (1999) Amended, 'A/B' Residential Soil Health Screening Levels for vapour intrusion, sand 0 to <1m.
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Detailed Site Investigation

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Kemps Creek, NSW 2178

	Criteria 1	Criteria 2	Criteria 3	Criteria 4						
	Management	HSLs - A/B	EILS	ESLs						
	Limits	Sand	Areas of Eco.	AES	Sample ID	RPD_TS1	HD6/0.0-0.5	HD7/0.0-0.7	HD8/0.0-0.5	SOIL TRIP SPIKE
	Res/Park	0 to <1 m	Significance	Coarse Soil	Date	-	29/07/2021	29/07/2021	29/07/2021	29/07/2021
TRH C_6-C_{10}	700	-	-	-		*nc*	< 20	< 20	< 20	*93%*
TRH C_6-C_{10} less BTEX (F1)	-	45	-	125		*nc*	< 20	< 20	< 20	--
TRH >C_{10}-C_{16}	1,000	-	-	-		*nc*	< 50	< 50	< 50	--
TRH >C_{10}-C_{16} less Naphthalene (F2)	-	110	-	25		*nc*	< 50	< 50	< 50	--
TRH >C_{16}-C_{34}	2,500	-	-	ND		*nc*	< 100	< 100	< 100	--
TRH >C_{34}-C_{40}	10,000	-	-	ND		*nc*	< 100	< 100	< 100	--
Benzene	-	0.5	-	8		*nc*	< 0.1	< 0.1	< 0.1	*97%*
Toluene	-	160	-	10		*nc*	< 0.1	< 0.1	< 0.1	*94%*
Ethylbenzene	-	55	-	1.5		*nc*	< 0.1	< 0.1	< 0.1	*92%*
m&p-Xylenes	-	-	-	-		*nc*	< 0.2	< 0.2	< 0.2	*93%*
o-Xylene	-	-	-	-		*nc*	< 0.1	< 0.1	< 0.1	*93%*
Xylenes - Total	-	40	-	10		*nc*	< 0.3	< 0.3	< 0.3	*93%*
Naphthalene (MAH method)	-	3	10	-		*nc*	< 0.5	< 0.5	< 0.5	--

Notes:

Criteria 1 = NEPC (1999) Amended, Residential and parkland Management Limits for TPH fractions in soil, coarse material.
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	Res/Park	0 to <1 m	Significance	Coarse Soil	Date	29/07/2021
TRH C_6-C_{10}	700	-	-	-		< 20
TRH C_6-C_{10} less BTEX (F1)	-	45	-	125		< 20
TRH >C_{10}-C_{16}	1,000	-	-	-		--
TRH >C_{10}-C_{16} less Naphthalene (F2)	-	110	-	25		--
TRH >C_{16}-C_{34}	2,500	-	-	ND		--
TRH >C_{34}-C_{40}	10,000	-	-	ND		--
Benzene	-	0.5	-	8		< 0.1
Toluene	-	160	-	10		< 0.1
Ethylbenzene	-	55	-	1.5		< 0.1
m&p-Xylenes	-	-	-	-		< 0.2
o-Xylene	-	-	-	-		< 0.1
Xylenes - Total	-	40	-	10		< 0.3
Naphthalene (MAH method)	-	3	10	-		< 0.5

Notes:

Criteria 1 = NEPC (1999) Amended, Residential and parkland Management Limits for TPH fractions in soil, coarse material.
Criteria 2 = NEPC (1999) Amended, 'A/B' Residential Soil Health Screening Levels for vapour intrusion, sand 0 to <1m.
Criteria 3 = NEPC (1999) Amended, Ecological Investigation Levels for areas of ecological significance, minimum ACLs.
Criteria 4 = NEPC (1999) Amended, Ecological Screening Levels for areas of ecological significance, coarse soil.
Total concentrations in mg/kg
- = assessment criteria not available
DS1 = duplicate of HD5/0.0-0.5
TS1 = triplicate of HD5/0.0-0.5
SOIL TRIP SPIKE = spike sample
SOIL TRIP BLANK = blank sample
RPD = relative percent difference of duplicate/triplicate
nc = RPD not calculated, one or both samples below laboratory reporting limit

< # or ND = analyte(s) not detected in excess of laboratory reporting limit
-- = sample not analysed
Bold/red indicates exceedance of assessment criteria

Table 2 : Summary of Soil Analytical Data - Polyaromatic Hydrocarbons

Detailed Site Investigation

Project No.: 2101084

805-817 Mamre Road
Kemps Creek, NSW 2178

	Criteria 1	Criteria 2	Criteria 3						
		EILS	ESLs						
	HILs - A	Areas of Eco.	AES	Sample ID	DWS1	DWS2	DWS3	DWS4	DWS6
		Significance	Coarse Soil	Date	3/08/2021	3/08/2021	3/08/2021	3/08/2021	3/08/2021
Acenaphthene	-	-	-		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	-	-	-		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	-	-	-		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	-	-	-		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	-	-	1.4		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene	-	-	-		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	-	-	-		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	-	-	-		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	-	-	-		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	-	-	-		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	-	-	-		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	-	-	-		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	-	-	-		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene (PAH method)	-	10	-		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	-	-	-		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	-	-	-		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ	3	-	-		0.6	0.6	0.6	0.6	0.6
Total PAH	300	-	-		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5

Notes:

Criteria 1 = NEPC (1999) Amended, 'A' Residential Health-based Investigation Levels for soil contaminants.
Criteria 2 = NEPC (1999) Amended, Ecological Investigation Levels for areas of ecological significance, site specific.
Criteria 3 = NEPC (1999) Amended, Ecological Screening Levels for areas of ecological significance, coarse soil.
Total concentrations in mg/kg
- = assessment criteria not available
DS1 = duplicate of HD5/0.0-0.5
TS1 = triplicate of HD5/0.0-0.5
RPD = relative percent difference of duplicate/triplicate
nc = RPD not calculated, one or both samples below laboratory reporting limit
< # or ND = analyte(s) not detected in excess of laboratory reporting limit
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Bold/red indicates exceedance of assessment criteria

Table 2 : Summary of Soil Analytical Data - Polyaromatic Hydrocarbons

Detailed Site Investigation

Project No.: 2101084

805-817 Mamre Road
Kemps Creek, NSW 2178

	Criteria 1	Criteria 2	Criteria 3						
		EILS	ESLs						
	HILs - A	Areas of Eco.	AES	Sample ID	DWS7	DWS8	HD1/0.5-0.8	HD2/0.5-0.8	HD3/0.0-0.7
		Significance	Coarse Soil	Date	3/08/2021	3/08/2021	29/07/2021	29/07/2021	29/07/2021
Acenaphthene	-	-	-		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	-	-	-		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	-	-	-		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	-	-	-		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	-	-	1.4		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene	-	-	-		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	-	-	-		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	-	-	-		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	-	-	-		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	-	-	-		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	-	-	-		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	-	-	-		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	-	-	-		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene (PAH method)	-	10	-		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	-	-	-		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	-	-	-		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ	3	-	-		0.6	0.6	0.6	0.6	0.6
Total PAH	300	-	-		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5

Notes:

Criteria 1 = NEPC (1999) Amended, 'A' Residential Health-based Investigation Levels for soil contaminants.
Criteria 2 = NEPC (1999) Amended, Ecological Investigation Levels for areas of ecological significance, site specific.
Criteria 3 = NEPC (1999) Amended, Ecological Screening Levels for areas of ecological significance, coarse soil.
Total concentrations in mg/kg
- = assessment criteria not available
DS1 = duplicate of HD5/0.0-0.5
TS1 = triplicate of HD5/0.0-0.5
RPD = relative percent difference of duplicate/triplicate
nc = RPD not calculated, one or both samples below laboratory reporting limit
< # or ND = analyte(s) not detected in excess of laboratory reporting limit
-- = sample not analysed
Bold/red indicates exceedance of assessment criteria

Table 2 : Summary of Soil Analytical Data - Polyaromatic Hydrocarbons

Detailed Site Investigation

Project No.: 2101084

805-817 Mamre Road
Kemps Creek, NSW 2178

	Criteria 1	Criteria 2	Criteria 3						
		EILS	ESLs						
	HILs - A	Areas of Eco.	AES	Sample ID	HD4/0.0-0.7	HD5/0.0-0.5	DS1	RPD_DS1	TS1
		Significance	Coarse Soil	Date	29/07/2021	29/07/2021	29/07/2021	-	29/07/2021
Acenaphthene	-	-	-		< 0.5	< 0.5	< 0.5	*nc*	< 0.5
Acenaphthylene	-	-	-		< 0.5	< 0.5	< 0.5	*nc*	< 0.5
Anthracene	-	-	-		< 0.5	< 0.5	< 0.5	*nc*	< 0.5
Benz(a)anthracene	-	-	-		< 0.5	< 0.5	< 0.5	*nc*	< 0.5
Benzo(a)pyrene	-	-	1.4		< 0.5	< 0.5	< 0.5	*nc*	< 0.5
Benzo(b&j)fluoranthene	-	-	-		< 0.5	< 0.5	< 0.5	*nc*	< 0.5
Benzo(g.h.i)perylene	-	-	-		< 0.5	< 0.5	< 0.5	*nc*	< 0.5
Benzo(k)fluoranthene	-	-	-		< 0.5	< 0.5	< 0.5	*nc*	< 0.5
Chrysene	-	-	-		< 0.5	< 0.5	< 0.5	*nc*	< 0.5
Dibenz(a.h)anthracene	-	-	-		< 0.5	< 0.5	< 0.5	*nc*	< 0.5
Fluoranthene	-	-	-		< 0.5	< 0.5	< 0.5	*nc*	< 0.5
Fluorene	-	-	-		< 0.5	< 0.5	< 0.5	*nc*	< 0.5
Indeno(1.2.3-cd)pyrene	-	-	-		< 0.5	< 0.5	< 0.5	*nc*	< 0.5
Naphthalene (PAH method)	-	10	-		< 0.5	< 0.5	< 0.5	*nc*	< 0.5
Phenanthrene	-	-	-		< 0.5	< 0.5	< 0.5	*nc*	< 0.5
Pyrene	-	-	-		< 0.5	< 0.5	< 0.5	*nc*	< 0.5
Benzo(a)pyrene TEQ	3	-	-		0.6	0.6	0.6	*0%*	0.6
Total PAH	300	-	-		< 0.5	< 0.5	< 0.5	*nc*	< 0.5

Notes:

Criteria 1 = NEPC (1999) Amended, 'A' Residential Health-based Investigation Levels for soil contaminants.
Criteria 2 = NEPC (1999) Amended, Ecological Investigation Levels for areas of ecological significance, site specific.
Criteria 3 = NEPC (1999) Amended, Ecological Screening Levels for areas of ecological significance, coarse soil.
Total concentrations in mg/kg
- = assessment criteria not available
DS1 = duplicate of HD5/0.0-0.5
TS1 = triplicate of HD5/0.0-0.5
RPD = relative percent difference of duplicate/triplicate
nc = RPD not calculated, one or both samples below laboratory reporting limit
< # or ND = analyte(s) not detected in excess of laboratory reporting limit
-- = sample not analysed
Bold/red indicates exceedance of assessment criteria

Table 2 : Summary of Soil Analytical Data - Polyaromatic Hydrocarbons

Detailed Site Investigation

Project No.: 2101084

805-817 Mamre Road
Kemps Creek, NSW 2178

	Criteria 1	Criteria 2	Criteria 3					
		EILS	ESLs					
	HILs - A	Areas of Eco.	AES	Sample ID	RPD_TS1	HD6/0.0-0.5	HD7/0.0-0.7	HD8/0.0-0.5
		Significance	Coarse Soil	Date	-	29/07/2021	29/07/2021	29/07/2021
Acenaphthene	-	-	-		*nc*	< 0.5	< 0.5	< 0.5
Acenaphthylene	-	-	-		*nc*	< 0.5	< 0.5	< 0.5
Anthracene	-	-	-		*nc*	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	-	-	-		*nc*	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	-	-	1.4		*nc*	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene	-	-	-		*nc*	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	-	-	-		*nc*	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	-	-	-		*nc*	< 0.5	< 0.5	< 0.5
Chrysene	-	-	-		*nc*	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	-	-	-		*nc*	< 0.5	< 0.5	< 0.5
Fluoranthene	-	-	-		*nc*	< 0.5	< 0.5	< 0.5
Fluorene	-	-	-		*nc*	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	-	-	-		*nc*	< 0.5	< 0.5	< 0.5
Naphthalene (PAH method)	-	10	-		*nc*	< 0.5	< 0.5	< 0.5
Phenanthrene	-	-	-		*nc*	< 0.5	< 0.5	< 0.5
Pyrene	-	-	-		*nc*	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ	3	-	-		*0%*	0.6	0.6	0.6
Total PAH	300	-	-		*nc*	< 0.5	< 0.5	< 0.5

Notes:

Criteria 1 = NEPC (1999) Amended, 'A' Residential Health-based Investigation Levels for soil contaminants.
Criteria 2 = NEPC (1999) Amended, Ecological Investigation Levels for areas of ecological significance, site specific.
Criteria 3 = NEPC (1999) Amended, Ecological Screening Levels for areas of ecological significance, coarse soil.
Total concentrations in mg/kg
- = assessment criteria not available
DS1 = duplicate of HD5/0.0-0.5
TS1 = triplicate of HD5/0.0-0.5
RPD = relative percent difference of duplicate/triplicate
nc = RPD not calculated, one or both samples below laboratory reporting limit
< # or ND = analyte(s) not detected in excess of laboratory reporting limit
-- = sample not analysed
Bold/red indicates exceedance of assessment criteria

Table 3 : Summary of Soil Analytical Data - Organochlorine Pesticides

Detailed Site Investigation

Project No.: 2101084

805-817 Mamre Road
Kemps Creek, NSW 2178

	Criteria 1	Criteria 2						
		EILS						
	HILs - A	Areas of Eco.	Sample ID	DWS1	DWS2	DWS3	DWS4	DWS6
		Significance	Date	3/08/2021	3/08/2021	3/08/2021	3/08/2021	3/08/2021
4.4'-DDD	-	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDE	-	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDT	-	3		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
a-BHC	-	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	-	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
b-BHC	-	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chlordanes - Total	50	-		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
d-BHC	-	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	-	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	-	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	-	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	-	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	10	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	-	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	-	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
g-BHC (Lindane)	-	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	6	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	-	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	10	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

Notes:

Criteria 1 = NEPC (1999) Amended, 'A' Residential Health-based Investigation Levels for soil contaminants.
Criteria 2 = NEPC (1999) Amended, Ecological Investigation Levels for areas of ecological significance, minimum ACLs.
Total concentrations in mg/kg
- = assessment criteria not available
DS1 = duplicate of HD5/0.0-0.5
TS1 = triplicate of HD5/0.0-0.5
RPD = relative percent difference of duplicate/triplicate
nc = RPD not calculated, one or both samples below laboratory reporting limit
< # or ND = analyte(s) not detected in excess of laboratory reporting limit
-- = sample not analysed
Bold/red indicates exceedance of assessment criteria

Table 3 : Summary of Soil Analytical Data - Organochlorine Pesticides

Detailed Site Investigation

Project No.: 2101084

805-817 Mamre Road
Kemps Creek, NSW 2178

	Criteria 1	Criteria 2						
		EILS						
	HILs - A	Areas of Eco.	Sample ID	DWS1	DWS2	DWS3	DWS4	DWS6
		Significance	Date	3/08/2021	3/08/2021	3/08/2021	3/08/2021	3/08/2021
Methoxychlor	300	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	20	-		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Aldrin + Dieldrin	6	-		ND	ND	ND	ND	ND
Endosulfans - Total	270	-		ND	ND	ND	ND	ND
DDD + DDE + DDT	240	-		ND	ND	ND	ND	ND
Scheduled Chemical Wastes	-	-		ND	ND	ND	ND	ND

Notes:

Criteria 1 = NEPC (1999) Amended, 'A' Residential Health-based Investigation Levels for soil contaminants.
Criteria 2 = NEPC (1999) Amended, Ecological Investigation Levels for areas of ecological significance, minimum ACLs.
Total concentrations in mg/kg
- = assessment criteria not available
DS1 = duplicate of HD5/0.0-0.5
TS1 = triplicate of HD5/0.0-0.5
RPD = relative percent difference of duplicate/triplicate
nc = RPD not calculated, one or both samples below laboratory reporting limit
< # or ND = analyte(s) not detected in excess of laboratory reporting limit
-- = sample not analysed
Bold/red indicates exceedance of assessment criteria

Table 3 : Summary of Soil Analytical Data - Organochlorine Pesticides

Detailed Site Investigation

Project No.: 2101084

805-817 Mamre Road
Kemps Creek, NSW 2178

	Criteria 1	Criteria 2						
		EILS						
	HILs - A	Areas of Eco.	Sample ID	DWS7	DWS8	HD1/0.5-0.8	HD2/0.5-0.8	HD3/0.0-0.7
		Significance	Date	3/08/2021	3/08/2021	29/07/2021	29/07/2021	29/07/2021
4.4'-DDD	-	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDE	-	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDT	-	3		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
a-BHC	-	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	-	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
b-BHC	-	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chlordanes - Total	50	-		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
d-BHC	-	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	-	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	-	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	-	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	-	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	10	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	-	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	-	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
g-BHC (Lindane)	-	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	6	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	-	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	10	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

Notes:

Criteria 1 = NEPC (1999) Amended, 'A' Residential Health-based Investigation Levels for soil contaminants.
Criteria 2 = NEPC (1999) Amended, Ecological Investigation Levels for areas of ecological significance, minimum ACLs.
Total concentrations in mg/kg
- = assessment criteria not available
DS1 = duplicate of HD5/0.0-0.5
TS1 = triplicate of HD5/0.0-0.5
RPD = relative percent difference of duplicate/triplicate
nc = RPD not calculated, one or both samples below laboratory reporting limit
< # or ND = analyte(s) not detected in excess of laboratory reporting limit
-- = sample not analysed
Bold/red indicates exceedance of assessment criteria

Table 3 : Summary of Soil Analytical Data - Organochlorine Pesticides

Detailed Site Investigation

Project No.: 2101084

805-817 Mamre Road
Kemps Creek, NSW 2178

	Criteria 1	Criteria 2						
		EILS						
	HILs - A	Areas of Eco.	Sample ID	DWS7	DWS8	HD1/0.5-0.8	HD2/0.5-0.8	HD3/0.0-0.7
		Significance	Date	3/08/2021	3/08/2021	29/07/2021	29/07/2021	29/07/2021
Methoxychlor	300	-		< 0.05	< 0.05	< 0.2	< 0.2	< 0.2
Toxaphene	20	-		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Aldrin + Dieldrin	6	-		ND	ND	ND	ND	ND
Endosulfans - Total	270	-		ND	ND	ND	ND	ND
DDD + DDE + DDT	240	-		ND	ND	ND	ND	ND
Scheduled Chemical Wastes	-	-		ND	ND	ND	ND	ND

Notes:

Criteria 1 = NEPC (1999) Amended, 'A' Residential Health-based Investigation Levels for soil contaminants.
Criteria 2 = NEPC (1999) Amended, Ecological Investigation Levels for areas of ecological significance, minimum ACLs.
Total concentrations in mg/kg
- = assessment criteria not available
DS1 = duplicate of HD5/0.0-0.5
TS1 = triplicate of HD5/0.0-0.5
RPD = relative percent difference of duplicate/triplicate
nc = RPD not calculated, one or both samples below laboratory reporting limit
< # or ND = analyte(s) not detected in excess of laboratory reporting limit
-- = sample not analysed
Bold/red indicates exceedance of assessment criteria

Table 3 : Summary of Soil Analytical Data - Organochlorine Pesticides

Detailed Site Investigation

Project No.: 2101084

805-817 Mamre Road
Kemps Creek, NSW 2178

	Criteria 1	Criteria 2						
		EILS						
	HILs - A	Areas of Eco.	Sample ID	HD4/0.0-0.7	HD5/0.0-0.5	DS1	RPD_DS1	TS1
		Significance	Date	29/07/2021	29/07/2021	29/07/2021	-	29/07/2021
4.4'-DDD	-	-		< 0.05	< 0.05	< 0.05	*nc*	< 0.05
4.4'-DDE	-	-		< 0.05	< 0.05	< 0.05	*nc*	< 0.05
4.4'-DDT	-	3		< 0.05	< 0.05	< 0.05	*nc*	< 0.05
a-BHC	-	-		< 0.05	< 0.05	< 0.05	*nc*	< 0.05
Aldrin	-	-		< 0.05	< 0.05	< 0.05	*nc*	< 0.05
b-BHC	-	-		< 0.05	< 0.05	< 0.05	*nc*	< 0.05
Chlordanes - Total	50	-		< 0.1	< 0.1	< 0.1	*nc*	< 0.1
d-BHC	-	-		< 0.05	< 0.05	< 0.05	*nc*	< 0.05
Dieldrin	-	-		< 0.05	< 0.05	< 0.05	*nc*	< 0.05
Endosulfan I	-	-		< 0.05	< 0.05	< 0.05	*nc*	< 0.05
Endosulfan II	-	-		< 0.05	< 0.05	< 0.05	*nc*	< 0.05
Endosulfan sulphate	-	-		< 0.05	< 0.05	< 0.05	*nc*	< 0.05
Endrin	10	-		< 0.05	< 0.05	< 0.05	*nc*	< 0.05
Endrin aldehyde	-	-		< 0.05	< 0.05	< 0.05	*nc*	< 0.05
Endrin ketone	-	-		< 0.05	< 0.05	< 0.05	*nc*	< 0.05
g-BHC (Lindane)	-	-		< 0.05	< 0.05	< 0.05	*nc*	< 0.05
Heptachlor	6	-		< 0.05	< 0.05	< 0.05	*nc*	< 0.05
Heptachlor epoxide	-	-		< 0.05	< 0.05	< 0.05	*nc*	< 0.05
Hexachlorobenzene	10	-		< 0.05	< 0.05	< 0.05	*nc*	< 0.05

Notes:

Criteria 1 = NEPC (1999) Amended, 'A' Residential Health-based Investigation Levels for soil contaminants.
Criteria 2 = NEPC (1999) Amended, Ecological Investigation Levels for areas of ecological significance, minimum ACLs.
Total concentrations in mg/kg
- = assessment criteria not available
DS1 = duplicate of HD5/0.0-0.5
TS1 = triplicate of HD5/0.0-0.5
RPD = relative percent difference of duplicate/triplicate
nc = RPD not calculated, one or both samples below laboratory reporting limit
< # or ND = analyte(s) not detected in excess of laboratory reporting limit
-- = sample not analysed
Bold/red indicates exceedance of assessment criteria

Table 3 : Summary of Soil Analytical Data - Organochlorine Pesticides

Detailed Site Investigation

Project No.: 2101084

805-817 Mamre Road
Kemps Creek, NSW 2178

	Criteria 1	Criteria 2						
		EILS						
	HILs - A	Areas of Eco.	Sample ID	HD4/0.0-0.7	HD5/0.0-0.5	DS1	RPD_DS1	TS1
		Significance	Date	29/07/2021	29/07/2021	29/07/2021	-	29/07/2021
Methoxychlor	300	-		< 0.2	< 0.2	< 0.2	*nc*	< 0.05
Toxaphene	20	-		< 0.1	< 0.1	< 0.1	*nc*	< 0.1
Aldrin + Dieldrin	6	-		ND	ND	ND	*nc*	ND
Endosulfans - Total	270	-		ND	ND	ND	*nc*	ND
DDD + DDE + DDT	240	-		ND	ND	ND	*nc*	ND
Scheduled Chemical Wastes	-	-		ND	ND	ND	*nc*	ND

Notes:

Criteria 1 = NEPC (1999) Amended, 'A' Residential Health-based Investigation Levels for soil contaminants.
Criteria 2 = NEPC (1999) Amended, Ecological Investigation Levels for areas of ecological significance, minimum ACLs.
Total concentrations in mg/kg
- = assessment criteria not available
DS1 = duplicate of HD5/0.0-0.5
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Detailed Site Investigation

Project No.: 2101084

805-817 Mamre Road
Kemps Creek, NSW 2178

	Criteria 1	Criteria 2					
		EILS					
	HILs - A	Areas of Eco.	Sample ID	RPD_TS1	HD6/0.0-0.5	HD7/0.0-0.7	HD8/0.0-0.5
		Significance	Date	-	29/07/2021	29/07/2021	29/07/2021
4.4'-DDD	-	-		*nc*	< 0.05	< 0.05	< 0.05
4.4'-DDE	-	-		*nc*	< 0.05	< 0.05	< 0.05
4.4'-DDT	-	3		*nc*	< 0.05	< 0.05	< 0.05
a-BHC	-	-		*nc*	< 0.05	< 0.05	< 0.05
Aldrin	-	-		*nc*	< 0.05	< 0.05	< 0.05
b-BHC	-	-		*nc*	< 0.05	< 0.05	< 0.05
Chlordanes - Total	50	-		*nc*	< 0.1	< 0.1	< 0.1
d-BHC	-	-		*nc*	< 0.05	< 0.05	< 0.05
Dieldrin	-	-		*nc*	< 0.05	< 0.05	< 0.05
Endosulfan I	-	-		*nc*	< 0.05	< 0.05	< 0.05
Endosulfan II	-	-		*nc*	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	-	-		*nc*	< 0.05	< 0.05	< 0.05
Endrin	10	-		*nc*	< 0.05	< 0.05	< 0.05
Endrin aldehyde	-	-		*nc*	< 0.05	< 0.05	< 0.05
Endrin ketone	-	-		*nc*	< 0.05	< 0.05	< 0.05
g-BHC (Lindane)	-	-		*nc*	< 0.05	< 0.05	< 0.05
Heptachlor	6	-		*nc*	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	-	-		*nc*	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	10	-		*nc*	< 0.05	< 0.05	< 0.05

Notes:

Criteria 1 = NEPC (1999) Amended, 'A' Residential Health-based Investigation Levels for soil contaminants.
Criteria 2 = NEPC (1999) Amended, Ecological Investigation Levels for areas of ecological significance, minimum ACLs.
Total concentrations in mg/kg
- = assessment criteria not available
DS1 = duplicate of HD5/0.0-0.5
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Table 3 : Summary of Soil Analytical Data - Organochlorine Pesticides

Detailed Site Investigation

Project No.: 2101084

805-817 Mamre Road
Kemps Creek, NSW 2178

	Criteria 1	Criteria 2					
		EILS					
	HILs - A	Areas of Eco.	Sample ID	RPD_TS1	HD6/0.0-0.5	HD7/0.0-0.7	HD8/0.0-0.5
		Significance	Date	-	29/07/2021	29/07/2021	29/07/2021
Methoxychlor	300	-		*nc*	< 0.2	< 0.2	< 0.2
Toxaphene	20	-		*nc*	< 0.1	< 0.1	< 0.1
Aldrin + Dieldrin	6	-		*nc*	ND	ND	ND
Endosulfans - Total	270	-		*nc*	ND	ND	ND
DDD + DDE + DDT	240	-		*nc*	ND	ND	ND
Scheduled Chemical Wastes	-	-		*nc*	ND	ND	ND

Notes:

Criteria 1 = NEPC (1999) Amended, 'A' Residential Health-based Investigation Levels for soil contaminants.
Criteria 2 = NEPC (1999) Amended, Ecological Investigation Levels for areas of ecological significance, minimum ACLs.
Total concentrations in mg/kg
- = assessment criteria not available
DS1 = duplicate of HD5/0.0-0.5
TS1 = triplicate of HD5/0.0-0.5
RPD = relative percent difference of duplicate/triplicate
nc = RPD not calculated, one or both samples below laboratory reporting limit
< # or ND = analyte(s) not detected in excess of laboratory reporting limit
-- = sample not analysed
Bold/red indicates exceedance of assessment criteria

Table 4 : Summary of Soil Analytical Data - Heavy Metals

Detailed Site Investigation

Project No.: 2101084

805-817 Mamre Road
Kemps Creek, NSW 2178

	Criteria 1	Criteria 2						
		EILS						
	HILs - A	Areas of Eco.	Sample ID	DWS1	DWS2	DWS3	DWS4	DWS6
		Significance	Date	3/08/2021	3/08/2021	3/08/2021	3/08/2021	3/08/2021
Arsenic	100	40		14	19	5.3	7.6	4.8
Cadmium	20	-		< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	100[1]	140[2]		27	24	12	15	11
Copper	6,000	75		22	31	12	22	13
Lead	300	570		15	33	12	14	14
Mercury	40	-		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	400	25		8.2	23	6.7	12	10
Zinc	7,400	160		23	74	17	36	26

Notes:

Criteria 1 = NEPC (1999) Amended, 'A' Residential Health-based Investigation Levels for soil contaminants.
Criteria 2 = NEPC (1999) Amended, Ecological Investigation Levels for areas of ecological significance, site specific.
Total concentrations in mg/kg
- = assessment criteria not available
[1]Guideline for Cromium (VI) used conservatively.
[2]Guideline for Chromium (III) used conservatively.
DS1 = duplicate of HD5/0.0-0.5
TS1 = triplicate of HD5/0.0-0.5
RPD = relative percent difference of duplicate/triplicate
nc = RPD not calculated, one or both samples below laboratory reporting limit
< # or ND = analyte(s) not detected in excess of laboratory reporting limit
-- = sample not analysed

Bold/red indicates exceedance of assessment criteria

Table 4 : Summary of Soil Analytical Data - Heavy Metals

Detailed Site Investigation

Project No.: 2101084

805-817 Mamre Road
Kemps Creek, NSW 2178

	Criteria 1	Criteria 2						
		EILS						
	HILs - A	Areas of Eco.	Sample ID	DWS7	DWS8	HD1/0.5-0.8	HD2/0.5-0.8	HD3/0.0-0.7
		Significance	Date	3/08/2021	3/08/2021	29/07/2021	29/07/2021	29/07/2021
Arsenic	100	40		6.1	8	5.5	8.8	4.2
Cadmium	20	-		< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	100[1]	140[2]		16	18	13	18	8.8
Copper	6,000	75		8.3	21	11	18	8.8
Lead	300	570		16	15	13	19	11
Mercury	40	-		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	400	25		6	12	6.2	5.8	5.4
Zinc	7,400	160		14	40	15	19	16

Notes:

Criteria 1 = NEPC (1999) Amended, 'A' Residential Health-based Investigation Levels for soil contaminants.
Criteria 2 = NEPC (1999) Amended, Ecological Investigation Levels for areas of ecological significance, site specific.
Total concentrations in mg/kg
- = assessment criteria not available
[1]Guideline for Cromium (VI) used conservatively.
[2]Guideline for Chromium (III) used conservatively.
DS1 = duplicate of HD5/0.0-0.5
TS1 = triplicate of HD5/0.0-0.5
RPD = relative percent difference of duplicate/triplicate
nc = RPD not calculated, one or both samples below laboratory reporting limit
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Table 4 : Summary of Soil Analytical Data - Heavy Metals

Detailed Site Investigation

Project No.: 2101084

805-817 Mamre Road
Kemps Creek, NSW 2178

	Criteria 1	Criteria 2						
		EILS						
	HILs - A	Areas of Eco.	Sample ID	HD4/0.0-0.7	HD5/0.0-0.5	DS1	RPD_DS1	TS1
		Significance	Date	29/07/2021	29/07/2021	29/07/2021	-	29/07/2021
Arsenic	100	40		4.5	6.7	9.5	*35%*	7.1
Cadmium	20	-		< 0.4	< 0.4	< 0.4	*nc*	< 0.4
Chromium	100[1]	140[2]		13	14	17	*19%*	16
Copper	6,000	75		14	16	17	*6%*	15
Lead	300	570		10	16	22	*32%*	16
Mercury	40	-		< 0.1	< 0.1	< 0.1	*nc*	< 0.1
Nickel	400	25		5.7	7.2	8.4	*15%*	5.4
Zinc	7,400	160		19	34	37	*8%*	29

Notes:

Criteria 1 = NEPC (1999) Amended, 'A' Residential Health-based Investigation Levels for soil contaminants.
Criteria 2 = NEPC (1999) Amended, Ecological Investigation Levels for areas of ecological significance, site specific.
Total concentrations in mg/kg
- = assessment criteria not available
[1]Guideline for Cromium (VI) used conservatively.
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Table 4 : Summary of Soil Analytical Data - Heavy Metals

Detailed Site Investigation

Project No.: 2101084

805-817 Mamre Road
Kemps Creek, NSW 2178

	Criteria 1	Criteria 2					
		EILS					
	HILs - A	Areas of Eco.	Sample ID	RPD_TS1	HD6/0.0-0.5	HD7/0.0-0.7	HD8/0.0-0.5
		Significance	Date	-	29/07/2021	29/07/2021	29/07/2021
Arsenic	100	40		*6%*	6.9	6.5	12
Cadmium	20	-		*nc*	< 0.4	< 0.4	< 0.4
Chromium	100[1]	140[2]		*13%*	15	15	20
Copper	6,000	75		*6%*	13	13	13
Lead	300	570		*0%*	16	16	18
Mercury	40	-		*nc*	< 0.1	< 0.1	< 0.1
Nickel	400	25		*29%*	6.5	6.7	7.3
Zinc	7,400	160		*16%*	27	25	23

Notes:

Criteria 1 = NEPC (1999) Amended, 'A' Residential Health-based Investigation Levels for soil contaminants.
Criteria 2 = NEPC (1999) Amended, Ecological Investigation Levels for areas of ecological significance, site specific.
Total concentrations in mg/kg
- = assessment criteria not available
[1]Guideline for Cromium (VI) used conservatively.
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DS1 = duplicate of HD5/0.0-0.5
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Bold/red indicates exceedance of assessment criteria

ATTACHMENT A

Property Report

805-817 MAMRE ROAD KEMPS CREEK 2178

Property Details

Address:	805-817 MAMRE ROAD KEMPS CREEK 2178
Lot/Section /Plan No:	26/-/DP258414
Council:	PENRITH CITY COUNCIL

Summary of planning controls

Planning controls held within the Planning Database are summarised below. The property may be affected by additional planning controls not outlined in this report. Please contact your council for more information.

Land Zoning	ENZ - Environment and Recreation: (pub. 11-9-2020)
	IN1 - General Industrial: (pub. 11-9-2020)
	RE1 - Public Recreation: (pub. 11-9-2020)
	SP2 - Infrastructure: (pub. 11-9-2020)
Height Of Building	NA
Floor Space Ratio	NA
Minimum Lot Size	40 ha
Heritage	NA
Land Reservation Acquisition	Classified Road (SP2)
	Local Open Space
Foreshore Building Line	NA
Flood Planning	1 in 100 AEP Flood Extent
Local Provisions	Wildlife Buffer Zone
	Wind Turbine Buffer Zone
Obstacle Limitation Surface	170-180
	180-190
	190-200
	200-210
	210-220
	220-225.5
Scenic Protection Land	Regional significance

Scenic Protection Land	Scenic & Landscape Values
Terrestrial Biodiversity	High Biodiversity Value Area

Detailed planning information

State Environmental Planning Policies which apply to this property

State Environmental Planning Policies can specify planning controls for certain areas and/or types of development. They can also identify the development assessment system that applies and the type of environmental assessment that is required.

- State Environmental Planning Policy (Affordable Rental Housing) 2009: Land Application (pub. 31-7-2009)
- State Environmental Planning Policy (Building Sustainability Index: BASIX) 2004: Land Application (pub. 25-6-2004)
- State Environmental Planning Policy (Concurrences and Consents) 2018: Land Application (pub. 21-12-2018)
- State Environmental Planning Policy (Educational Establishments and Child Care Facilities) 2017: Land Application (pub. 1-9-2017)
- State Environmental Planning Policy (Exempt and Complying Development Codes) 2008: Land Application (pub. 12-12-2008)
- State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004: Land Application (pub. 31-3-2004)
- State Environmental Planning Policy (Infrastructure) 2007: Land Application (pub. 21-12-2007)
- State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries) 2007: Land Application (pub. 16-2-2007)
- State Environmental Planning Policy (Primary Production and Rural Development) 2019: Land Application (pub. 28-2-2019)
- State Environmental Planning Policy (Vegetation in Non-Rural Areas) 2017: Subject Land (pub. 25-8-2017)
- State Environmental Planning Policy (Western Sydney Aerotropolis) 2020: Land Application (pub. 11-9-2020)
- State Environmental Planning Policy (Western Sydney Employment Area) 2009: Subject Land (pub. 11-6-2020)
- State Environmental Planning Policy No 19—Bushland in Urban Areas: Land Application (pub. 24-10-1986)
- State Environmental Planning Policy No 21—Caravan Parks: Land Application (pub. 24-4-1992)
- State Environmental Planning Policy No 33—Hazardous and Offensive Development: Land Application (pub. 13-3-1992)
- State Environmental Planning Policy No 36—Manufactured Home Estates: Land Application (pub. 16-7-1993)

- State Environmental Planning Policy No 50—Canal Estate Development: Land Application (pub. 10-11-1997)
- State Environmental Planning Policy No 55—Remediation of Land: Land Application (pub. 28-8-1998)
- State Environmental Planning Policy No 64—Advertising and Signage: Land Application (pub. 16-3-2001)
- State Environmental Planning Policy No 65—Design Quality of Residential Apartment Development: Land Application (pub. 26-7-2002)
- State Environmental Planning Policy No 70—Affordable Housing (Revised Schemes): Land Application (pub. 31-5-2002)
- Sydney Regional Environmental Plan No 20—Hawkesbury-Nepean River (No 2—1997): Land Application (pub. 7-11-1997)
- Sydney Regional Environmental Plan No 20—Hawkesbury-Nepean River (No 2—1997): Sub Catchment Boundaries (pub. 7-11-1997)

Other matters affecting the property

Information held in the Planning Database about other matters affecting the property appears below. The property may also be affected by additional planning controls not outlined in this report. Please speak to your council for more information

1.5 m Buffer around Classified Roads	Classified Road Adjacent
Bushfire Prone Land	Vegetation Buffer
	Vegetation Category
Local Aboriginal Land Council	DEERUBBIN
Regional Plan Boundary	Greater Sydney

PENRITH CITY COUNCIL

Civic Centre
601 High Street, Penrith

PO Box 60 Penrith NSW 2751

Telephone: 02 4732 7777
Facsimile: 02 4732 7958

Email: pencit@penrithcity.nsw.gov.au

PLANNING CERTIFICATE UNDER SECTION 10.7

Environmental Planning and Assessment Act, 1979

Property No: 403637
Your Reference: 2101072
Contact No:

Issue Date: 25 June 2021
Certificate No: 21/03641

Issued to: Miss T Geo-Logix
Unit 2309/4 Daydream Street
WARRIEWOOD NSW 2102

PRECINCT 2996

DESCRIPTION OF LAND

County: CUMBERLAND **Parish: MELVILLE**

Location: 805-817 Mamre Road KEMPS CREEK NSW 2178
Land Description: Lot 26 DP 258414

- PART 1 PRESCRIBED MATTERS –

In accordance with the provisions of Section 10.7(2) of the Act the following information is furnished in respect of the abovementioned land:

1 NAMES OF RELEVANT PLANNING INSTRUMENTS AND DCPs

1(1) The name of each environmental planning instrument that applies to the carrying out of development on the land:

Penrith Local Environmental Plan No. 255 - Exempt and Complying Development, gazetted 24 March 2000, as amended, applies to land within the City of Penrith. (Note: This plan does not apply to the land to which Sydney Regional Environmental Plan No.30 - St Marys applies, except as provided by clause 43 of SREP No. 30 - St Marys.)

Penrith Local Environmental Plan No. 258 - Consent for Dwelling Houses and Other Development, gazetted 29 June 2001, applies to the land.

Sydney Regional Environmental Plan No.9 - Extractive Industry (No.2), gazetted 15 September 1995, as amended, applies to the local government area of Penrith.

Sydney Regional Environmental Plan No. 20 - Hawkesbury-Nepean River (No. 2 - 1997), gazetted 7 November 1997, as amended, applies to the local government area of Penrith (except land to which State Environmental Planning Policy (Penrith Lakes Scheme) 1989 applies).

The following State environmental planning policies apply to the land (subject to the exclusions noted below):

State Environmental Planning Policy No.19 - Bushland in Urban Areas. (Note: This policy does not apply to certain land referred to in the National Parks and Wildlife Act 1974 and the Forestry Act 1916.)

PLANNING CERTIFICATE UNDER SECTION 10.7

Environmental Planning and Assessment Act, 1979

State Environmental Planning Policy No.21 - Caravan Parks.
State Environmental Planning Policy No.33 - Hazardous and Offensive Development.
State Environmental Planning Policy No.50 - Canal Estate Development. (Note: This policy does not apply to the land to which State Environmental Planning Policy (Penrith Lakes Scheme) 1989 applies.
State Environmental Planning Policy No.55 - Remediation of Land.
State Environmental Planning Policy No.64 - Advertising and Signage.
State Environmental Planning Policy No.65 - Design Quality of Residential Apartment Development.
State Environmental Planning Policy No.70 - Affordable Housing (Revised Schemes).
State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004 (Note: This policy applies to land within New South Wales that is land zoned primarily for urban purposes or land that adjoins land zoned primarily for urban purposes, but only as detailed in clause 4, 4A and 4B of the policy.)
State Environmental Planning Policy (Building Sustainability Index: BASIX) 2004.
State Environmental Planning Policy (State Significant Precincts) 2005.
State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries) 2007.
State Environmental Planning Policy (Infrastructure) 2007.
State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.
State Environmental Planning Policy (Affordable Rental Housing) 2009.
State Environmental Planning Policy (State and Regional Development) 2011.
State Environmental Planning Policy (Vegetation in Non-Rural Areas) 2017.
State Environmental Planning Policy (Educational Establishments and Child Care Centre Facilities) 2017.
State Environmental Planning Policy (Primary Production and Rural Development) 2019.
State Environmental Planning Policy (Western Sydney Aerotropolis) 2020.

State Environmental Planning Policy (Western Sydney Employment Area) 2009 applies to the land. Under the terms of this Policy the land is partly zoned Zone IN1 General Industrial, partly zoned Zone SP2 Infrastructure and partly zoned Zone RE1 Public Recreation.

Zone IN1 General Industrial

1 Objectives of zone

- To facilitate a wide range of employment-generating development including industrial, manufacturing, warehousing, storage and research uses and ancillary office space.
- To encourage employment opportunities along motorway corridors, including the M7 and M4.
- To minimise any adverse effect of industry on other land uses.
- To facilitate road network links to the M7 and M4 Motorways.
- To encourage a high standard of development that does not prejudice the sustainability of other enterprises or the environment.
- To provide for small-scale local services such as commercial, retail and community facilities (including child care facilities) that service or support the needs of employment-generating uses in the zone.

2 Permitted without consent

Nil.

3 Permitted with consent

Building identification signs; Business identification signs; Depots; Environmental facilities; Environmental protection works; Food and drink premises; Freight transport facilities; Garden centres; Hardware and building supplies; Industrial retail outlets; Industrial training facilities; Industries (other than offensive or hazardous industries); Neighbourhood shops; Places of public worship; Recreation areas; Recreation facilities (indoor); Roads; Service stations;

Storage premises; Transport depots; Truck depots; Vehicle body repair workshops; Vehicle repair stations; Warehouse or distribution centres.

4 Prohibited

Any development not specified in item 2 or 3.

Zone SP2 Infrastructure

1 Objectives of zone .

- To provide for infrastructure and related uses.
- To prevent development that is not compatible with or that may detract from the provision of infrastructure.

2 Permitted without consent

Nil

3 Permitted with consent

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

4 Prohibited

Any development not specified in item 2 or 3

Zone RE1 Public Recreation

1 Objectives of zone

- To enable land to be used for public open space or recreational purposes.
- To provide a range of recreational settings and activities and compatible land uses.
- To protect and enhance the natural environment for recreational purposes.
- To provide a transition between industrial development and the Wianamatta-South Creek Precinct.
- To provide land for the development of services and facilities by public authorities for the benefit of the community.

2 Permitted without consent

Nil

3 Permitted with consent

Aquaculture; Car parks; Community facilities; Environmental facilities; Environmental protection works; Flood mitigation works; Function centres; Information and education facilities; Kiosks; Markets; Recreation areas; Recreation facilities (indoor); Recreation facilities (outdoor); Restaurants or cafes; Roads; Water storage facilities

4 Prohibited

Any development not specified in item 2 or 3.

Note 1: Land to which State Environmental Planning Policy (Western Sydney Employment Area) 2009 applies may be subdivided but only with consent. Consent is not required for subdivision detailed in Clause 14(2) of this Policy.

Note 2: Under the terms of Clause 15 of State Environmental Planning Policy (Western Sydney Employment Area) 2009 despite any other provision of this Policy, a person may, with consent, carry out development for the purposes of a child care centre on land to which this Policy applies.

PLANNING CERTIFICATE UNDER SECTION 10.7

Environmental Planning and Assessment Act, 1979

State Environmental Planning Policy (Western Sydney Aerotropolis) 2020 applies to the land. Under the terms of this Policy the land is zoned 'Environment and Recreation Zone'.

Environment and Recreation Zone

1 Objectives of zone

- To protect, manage and restore areas of high ecological, scientific, cultural or aesthetic values.
- To protect the ecological, scenic and recreation values of waterways, including Wianamatta-South Creek and its tributaries.
- To provide a range of recreational settings and activities and compatible land uses.
- To protect and conserve the environment, including threatened and other species of native fauna and flora and their habitats, areas of high biodiversity significance and ecological communities.

2 Permitted without consent

Nil

3 Permitted with consent

Any development not specified in item 2 or 4

4 Prohibited

Air transport facilities; Airstrips; Amusement centres; Backpackers' accommodation; Boat building and repair facilities; Boat launching ramps; Boat sheds; Camping grounds; Caravan parks; Centre-based child care facilities; Charter and tourism boating facilities; Correctional centres; Depots; Educational establishments; Electricity generating works; Entertainment facilities; Exhibition homes; Exhibition villages; Extractive industries; Forestry; Freight transport facilities; Hardware and building supplies; Heavy industrial storage establishments; Helipads; Highway service centres; Hospitals; Hotel or motel accommodation; Industrial retail outlets; Industrial training facilities; Industries; Intensive livestock agriculture; Jetties; Medical centres; Mooring pens; Moorings; Mortuaries; Office premises; Open cut mining; Port facilities; Public administration buildings; Residential accommodation; Respite day care centres; Restricted premises; Rural industries; Service stations; Serviced apartments; Sex services premises; Specialised retail premises; Storage premises; Timber yards; Transport depots; Truck depots; Turf farming; Vehicle body repair workshops; Vehicle repair stations; Vehicle sales or hire premises; Veterinary hospitals; Warehouse or distribution centres; Waste or resource management facilities; Water treatment facilities; Wholesale supplies

1(2) The name of each proposed environmental planning instrument that will apply to the carrying out of development on the land and that is or has been the subject of community consultation or on public exhibition under the Act:

(Information is provided in this section only if a proposed environmental planning instrument that is or has been the subject of community consultation or on public exhibition under the Act will apply to the carrying out of development on the land.)

Draft State Environmental Planning Policy (Environment) applies to the land.

Draft State Environmental Planning Policy (Remediation of Land) applies to the land.

Draft State Environmental Planning Policy (Housing Diversity) 2020 applies to the land.

Draft State Environmental Planning Policy (Cumberland Plain Conservation) applies to the land.

Draft State Environmental Planning Policy (Educational Establishments and Child Care Centre Facilities) 2017 applies to the land.

Draft State Environmental Planning Policy (Design and Place) applies to the land.

Draft State Environmental Planning Policy (Primary Production and Rural Development) 2019 applies to the land.

Draft State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 applies to the land.

Draft State Environmental Planning Policy (Infrastructure) 2007 applies to the land.

1(3) The name of each development control plan that applies to the carrying out of development on the land:

Penrith Development Control Plan 2014 applies to the land.
Western Sydney Aerotropolis Development Control Plan 2020 - Phase 1 applies to the land.

2 ZONING AND LAND USE UNDER RELEVANT LEPs

For each environmental planning instrument or proposed instrument referred to in clause 1 (other than a SEPP or proposed SEPP) that includes the land in any zone (however described):

2(a)-(d) the identity of the zone; the purposes that may be carried out without development consent; the purposes that may not be carried out except with development consent; and the purposes that are prohibited within the zone. Any zone(s) applying to the land is/are listed below and/or in annexures.

(Note: If no zoning appears in this section see section 1(1) for zoning and land use details (under the Sydney Regional Environmental Plan or State Environmental Planning Policy that zones this property).)

Penrith Local Environmental Plan No. 258 - Consent for Dwelling Houses and Other Development
In addition to any controls detailed above Penrith Local Environmental Plan No. 258 - Consent for Dwelling Houses and Other Development sets out further circumstances where development consent will be required for particular development. A copy of this LEP is attached.

2(e) whether any development standards applying to the land fix minimum land dimensions for the erection of a dwelling-house on the land and, if so, the minimum land dimensions so fixed:

(Information is provided in this section only if any development standards applying to the land fix minimum land dimensions for the erection of a dwelling-house on the land and, if so, the minimum land dimensions so fixed.)

PLANNING CERTIFICATE UNDER SECTION 10.7

Environmental Planning and Assessment Act, 1979

2(f) whether the land includes or comprises critical habitat:

(Information is provided in this section only if the land includes or comprises critical habitat.)

2(g) whether the land is in a conservation area (however described):

(Information is provided in this section only if the land is in a conservation area (however described).)

2(h) whether an item of environmental heritage (however described) is situated on the land:

(Information is provided in this section only if an item of environmental heritage (however described) is situated on the land.)

2A ZONING AND LAND USE UNDER STATE ENVIRONMENTAL PLANNING POLICY (SYDNEY REGION GROWTH CENTRES) 2006

(Information is provided in this section only if the land is within any zone under State Environmental Planning Policy (Sydney Region Growth Centres) 2006.)

3 COMPLYING DEVELOPMENT

HOUSING CODE

(The Housing Code only applies if the land is within Zones R1, R2, R3, R4 or RU5 under Penrith Local Environmental Plan 2010 or an equivalent zone in a non standard template planning instrument.)

- The land is affected by a reservation for a public purpose. If the land is within the relevant zones complying development under the Housing Code **may not** be carried out on any part of the land that is reserved for a public purpose by an environmental planning instrument. Complying development **may** be carried out on any part of the land that is not reserved for a public purpose by an environmental planning instrument. For the purposes of this section "public purpose" means any land that is zoned either Zone E1, RE1, SP1 or SP2 under an environmental planning instrument or an equivalent zone in a non standard template planning instrument, or land that is subject to acquisition.

RURAL HOUSING CODE

(The Rural Housing Code only applies if the land is within Zones RU1, RU2, RU3, RU4, RU6 or R5 under Penrith Local Environmental Plan 2010 or an equivalent zone in a non standard template planning instrument.)

- The land is affected by a reservation for a public purpose. If the land is within the relevant zones complying development under the Rural Housing Code **may not** be carried out on any part of the land that is reserved for a public purpose by an environmental planning instrument. Complying development **may** be carried out on any part of the land that is not reserved for a public purpose by an environmental planning instrument. For the purposes of this section "public purpose" means any land that is zoned either Zone E1, RE1, SP1 or SP2 under an

environmental planning instrument or an equivalent zone in a non standard template planning instrument, or land that is subject to acquisition.

- The land is affected by environmentally sensitive land identified by an environmental planning instrument. If the land is within the relevant zones complying development under the Rural Housing Code **may not** be carried out on any part of the land identified by an environmental planning instrument as being environmentally sensitive land. Complying development **may** be carried out on any part of the land that is not identified by an environmental planning instrument as being environmentally sensitive land. For the purposes of this section "environmentally sensitive land" means any land that is identified in Schedule 3 of Sydney Regional Environmental Plan No. 9 - Extractive Industry (No. 2); any land defined as "environmentally sensitive areas" in Sydney Regional Environmental Plan No 20 - Hawkesbury-Nepean River (No 2 - 1997); any land zoned Zone E2 Environmental Conservation under State Environmental Planning Policy (Western Sydney Employment Area) 2009; any Natural Resources Sensitive Land under Penrith Local Environmental Plan 2010; and any land zoned either Zone E1 National Parks and Nature Reserves, Zone E2 Environmental Conservation, Zone W1 Natural Waterways or Zone W2 Recreational Waterways under Penrith Local Environmental Plan 2010.

LOW RISE HOUSING DIVERSITY CODE

(The Low Rise Housing Diversity Code only applies if the land is within Zones R1, R2, R3 or RU5 under Penrith Local Environmental Plan 2010 or an equivalent zone in a non standard template planning instrument.)

- The land is affected by a reservation for a public purpose. If the land is within the relevant zones complying development under the Low Rise Housing Diversity Code **may not** be carried out on any part of the land that is reserved for a public purpose by an environmental planning instrument. Complying development **may** be carried out on any part of the land that is not reserved for a public purpose by an environmental planning instrument. For the purposes of this section "public purpose" means any land that is zoned either Zone E1, RE1, SP1 or SP2 under an environmental planning instrument or an equivalent zone in a non standard template planning instrument, or land that is subject to acquisition.

- The land is affected by environmentally sensitive land identified by an environmental planning instrument. If the land is within the relevant zones complying development under the Low Rise Housing Diversity Code **may not** be carried out on any part of the land identified by an environmental planning instrument as being environmentally sensitive land. Complying development **may** be carried out on any part of the land that is not identified by an environmental planning instrument as being environmentally sensitive land. For the purposes of this section "environmentally sensitive land" means any land that is identified in Schedule 3 of Sydney Regional Environmental Plan No. 9 - Extractive Industry (No. 2); any land defined as "environmentally sensitive areas" in Sydney Regional Environmental Plan No 20 - Hawkesbury-Nepean River (No 2 - 1997); any land zoned Zone E2 Environmental Conservation under State Environmental Planning Policy (Western Sydney Employment Area) 2009; any Natural Resources Sensitive Land under Penrith Local Environmental Plan 2010; and any land zoned either Zone E1 National Parks and Nature Reserves, Zone E2

Environmental Conservation, Zone W1 Natural Waterways or Zone W2 Recreational Waterways under Penrith Local Environmental Plan 2010.

GREENFIELD HOUSING CODE

(The Greenfield Housing Code only applies if the land is within Zones R1, R2, R3, R4 or RU5 under Penrith Local Environmental Plan 2010 or an equivalent zone in a non standard template planning instrument, and if the land is identified as a Greenfield Housing Code Area by the Greenfield Housing Code Area Map.)

- The land is affected by a reservation for a public purpose. If the land is within the relevant zones, and if the land is identified as a Greenfield Housing Code Area by the Greenfield Housing Code Area Map complying development under the Greenfield Housing Code **may not** be carried out on any part of the land that is reserved for a public purpose by an environmental planning instrument. Complying development **may** be carried out on any part of the land that is not reserved for a public purpose by an environmental planning instrument. For the purposes of this section "public purpose" means any land that is zoned either Zone E1, RE1, SP1 or SP2 under an environmental planning instrument or an equivalent zone in a non standard template planning instrument, or land that is subject to acquisition.

- The land is affected by environmentally sensitive land identified by an environmental planning instrument. If the land is within the relevant zones, and if the land is identified as a Greenfield Housing Code Area by the Greenfield Housing Code Area Map complying development under the Greenfield Housing Code **may not** be carried out on any part of the land identified by an environmental planning instrument as being environmentally sensitive land. Complying development **may** be carried out on any part of the land that is not identified by an environmental planning instrument as being environmentally sensitive land. For the purposes of this section "environmentally sensitive land" means any land that is identified in Schedule 3 of Sydney Regional Environmental Plan No. 9 - Extractive Industry (No. 2); any land defined as "environmentally sensitive areas" in Sydney Regional Environmental Plan No 20 - Hawkesbury-Nepean River (No 2 - 1997); any land zoned Zone E2 Environmental Conservation under State Environmental Planning Policy (Western Sydney Employment Area) 2009; any Natural Resources Sensitive Land under Penrith Local Environmental Plan 2010; and any land zoned either Zone E1 National Parks and Nature Reserves, Zone E2 Environmental Conservation, Zone W1 Natural Waterways or Zone W2 Recreational Waterways under Penrith Local Environmental Plan 2010.

HOUSING ALTERATIONS CODE

Complying development under the Housing Alterations Code **may** be carried out on the land.

GENERAL DEVELOPMENT CODE

Complying development under the General Development Code **may** be carried out on the land.

COMMERCIAL AND INDUSTRIAL ALTERATIONS CODE

Complying development under the Commercial and Industrial Alterations Code **may** be carried out on the land.

SUBDIVISIONS CODE

Complying development under the Subdivisions Code **may** be carried out on the land.

DEMOLITION CODE

Complying development under the Demolition Code **may** be carried out on the land.

COMMERCIAL AND INDUSTRIAL (NEW BUILDINGS AND ADDITIONS) CODE

(The Commercial and Industrial (New Buildings and Additions) Code only applies if the land is within Zones B1, B2, B3, B4, B5, B6, B7, B8, IN1, IN2, IN3, IN4 or SP3 under Penrith Local Environmental Plan 2010 or an equivalent zone in a non standard template planning instrument.)

- The land is affected by a reservation for a public purpose. If the land is within the relevant zones complying development under the Commercial and Industrial (New Buildings and Additions) Code **may not** be carried out on any part of the land that is reserved for a public purpose by an environmental planning instrument. Complying development **may** be carried out on any part of the land that is not reserved for a public purpose by an environmental planning instrument. For the purposes of this section "public purpose" means any land that is zoned either Zone E1, RE1, SP1 or SP2 under an environmental planning instrument or an equivalent zone in a non standard template planning instrument, or land that is subject to acquisition.
- The land is affected by environmentally sensitive land identified by an environmental planning instrument. If the land is within the relevant zones complying development under the Commercial and Industrial (New Buildings and Additions) Code **may not** be carried out on any part of the land identified by an environmental planning instrument as being environmentally sensitive land. Complying development **may** be carried out on any part of the land that is not identified by an environmental planning instrument as being environmentally sensitive land. For the purposes of this section "environmentally sensitive land" means any land that is identified in Schedule 3 of Sydney Regional Environmental Plan No. 9 - Extractive Industry (No. 2); any land defined as "environmentally sensitive areas" in Sydney Regional Environmental Plan No 20 - Hawkesbury-Nepean River (No 2 - 1997); any land zoned Zone E2 Environmental Conservation under State Environmental Planning Policy (Western Sydney Employment Area) 2009; any Natural Resources Sensitive Land under Penrith Local Environmental Plan 2010; and any land zoned either Zone E1 National Parks and Nature Reserves, Zone E2 Environmental Conservation, Zone W1 Natural Waterways or Zone W2 Recreational Waterways under Penrith Local Environmental Plan 2010.

FIRE SAFETY CODE

Complying development under the Fire Safety Code **may** be carried out on the land.

(NOTE: (1) Council has relied on Planning and Infrastructure Circulars and Fact Sheets in the preparation of this information. Applicants should seek their own legal advice in relation to this matter with particular reference to State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.

(2) Penrith Local Environmental Plan 2010 (if it applies to the land) contains additional complying development not specified in State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.)

4 COASTAL PROTECTION

The land is not affected by the operation of sections 38 or 39 of the Coastal Protection Act 1979, to the extent that council has been so notified by the Department of Public Works.

5 MINE SUBSIDENCE

The land is not proclaimed to be a mine subsidence district within the meaning of section 15 of the Mine Subsidence Compensation Act 1961.

6 ROAD WIDENING AND ROAD REALIGNMENT

The land is affected by road widening or road realignment under
(a) Division 2 of Part 3 of the Roads Act 1993, or
(b) an environmental planning instrument, or
(c) a resolution of Council.
Note: Additional advice may be available in section 10.7(5) information.

7 COUNCIL AND OTHER PUBLIC AUTHORITY POLICIES ON HAZARD RISK RESTRICTIONS

(a) Council Policies
The land is affected by the Asbestos Policy adopted by Council.
The land is not affected by any other policy adopted by the council that restricts the development of the land because of the likelihood of land slip, bushfire, tidal inundation, subsidence, acid sulphate soils or any other risk (other than flooding).

(b) Other Public Authority Policies
The Bush Fire Co-ordinating Committee has adopted a Bush Fire Risk Management Plan that covers the local government area of Penrith City Council, and includes public, private and Commonwealth lands.
The land is not affected by a policy adopted by any other public authority and notified to the council for the express purpose of its adoption by that authority being referred to in planning certificates issued by the council, that restricts the development of the land because of the likelihood of land slip, tidal inundation, subsidence, acid sulphate soils or any other risk (other than flooding).

7A FLOOD RELATED DEVELOPMENT CONTROLS INFORMATION

(1) Development on the land or part of the land for the purposes of dwelling houses, dual occupancies, multi dwelling housing or residential flat buildings (not including development for the purposes of group homes or seniors housing) (if such uses are permissible on the land) is subject to flood related development controls.

(2) Development on the land or part of the land for industrial or commercial purposes (if such uses are permissible on the land) is subject to flood related development controls.

Development on the land or part of the land for purposes other than industrial or commercial, or for purposes other than those referred to in (1) above, will be considered on a merits based approach and flood related development controls may apply.

Note: The land is subject to Penrith Development Control Plan 2014 Section C3.5 Flood Planning. On application and payment of the prescribed fee Council may be able to provide in writing a range of advice in regard to the extent of flooding affecting the property.

8 LAND RESERVED FOR ACQUISITION

The land is affected by provisions under an environmental planning instrument, a deemed environmental planning instrument or a draft environmental planning instrument applying to the land that provides for acquisition by a public authority, as referred to in section 3.15 of the Act.

9 CONTRIBUTIONS PLANS

The Cultural Facilities Development Contributions Plan applies anywhere residential development is permitted within the City of Penrith.

The Penrith City Local Open Space Development Contributions Plan applies anywhere residential development is permitted within the City of Penrith, excluding industrial areas and the release areas identified in Appendix B of the Plan (Penrith Lakes, Cranebrook, Sydney Regional Environmental Plan No. 30 - St Marys, Waterside, Thornton, the WELL Precinct, Glenmore Park and Erskine Park).

The Penrith City District Open Space Facilities Development Contributions Plan applies anywhere residential development is permitted within the City of Penrith, with the exclusion of industrial lands and the Penrith Lakes development site.

Penrith Citywide Section 7.12 Development Contributions Plan for non-residential development applies to all land in the City of Penrith LGA, with the exception of land within the Lambridge Estate, WELL Precinct and Penrith City Centre that are currently subject to other development contributions plans for non-residential development.

9A BIODIVERSITY CERTIFIED LAND

(Information is provided in this section only if the land is biodiversity certified land under Part 8 of the *Biodiversity Conservation Act 2016*.)

10 BIODIVERSITY STEWARDSHIP SITES

(Information is provided in this section only if Council has been notified by the Chief Executive of the Office of Environment and Heritage that the land is land to which a biobanking stewardship agreement under Part 5 of the *Biodiversity Conservation Act 2016* relates.)

10A NATIVE VEGETATION CLEARING SET ASIDES

(Information is provided in this section only if Council has been notified of the existence of a set aside area by Local Land Services or it is registered in the public register under which section 60ZC of the *Local Land Services Act 2013* relates).

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PLANNING CERTIFICATE UNDER SECTION 10.7

Environmental Planning and Assessment Act, 1979

11 BUSH FIRE PRONE LAND

All of the land is identified as bush fire prone land according to Council records. Guidance as to restrictions that may be placed on the land as a result of the land being bush fire prone can be obtained by contacting Council. Such advice would be subject to further requirements of the NSW Rural Fire Services.

12 PROPERTY VEGETATION PLANS

(Information is provided in this section only if Council has been notified that the land is land to which a property vegetation plan approved under the *Native Vegetation Act 2003* applies and continues in force.)

13 ORDERS UNDER TREES (DISPUTES BETWEEN NEIGHBOURS) ACT 2006

(Information is provided in this section only if Council has been notified that an order has been made under the Trees (Disputes Between Neighbours) Act 2006 to carry out work in relation to a tree on the land.)

14 DIRECTIONS UNDER PART 3A

(Information is provided in this section only if there is a direction by the Minister in force under section 75P(2)(c1) of the Act (repealed on 1st October 2011) that a provision of an environmental planning instrument prohibiting or restricting the carrying out of a project or a stage of a project on the land under Part 4 of the Act does not have effect.)

15 SITE COMPATIBILITY CERTIFICATES AND CONDITIONS AFFECTING SENIORS HOUSING

(Information is provided in this section only if:

(a) there is a current site compatibility certificate (seniors housing), of which the council is aware, issued under State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004 in respect of proposed development on the land; and/or

(b) any terms of a kind referred to in clause 18(2) of State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004 have been imposed as a condition of consent to a development application granted after 11 October 2007 in respect of the land.)

16 SITE COMPATIBILITY CERTIFICATES FOR INFRASTRUCTURE

(Information is provided in this section only if there is a valid site compatibility certificate (infrastructure), of which council is aware, in respect of proposed development on the land.)

17 SITE COMPATIBILITY CERTIFICATES AND CONDITIONS FOR AFFORDABLE RENTAL HOUSING

(Information is provided in this section only if:

(a) there is a current site compatibility certificate (affordable rental housing), of which the council is aware, in respect of proposed development on the land; and/or

(b) any terms of a kind referred to in clause 17(1) or 37(1) of State Environmental Planning Policy (Affordable Rental Housing) 2009 have been imposed as a condition of consent to a development application in respect of the land.)

18 PAPER SUBDIVISION INFORMATION

(Information is provided in this section only if a development plan adopted by a relevant authority applies to the land or is proposed to be subject to a consent ballot, or a subdivision order applies to the land.)

19 SITE VERIFICATION CERTIFICATES

(Information is provided in this section only if there is a current site verification certificate, of which council is aware, in respect of the land.)

NOTE: The following matters are prescribed by section 59(2) of the Contaminated Land Management Act 1997 as additional matters to be specified in a planning certificate

(a) (Information is provided in this section only if, as at the date of this certificate, the land (or part of the land) is significantly contaminated land within the meaning of the Contaminated Land Management Act 1997.)

(b) (Information is provided in this section only if, as at the date of this certificate, the land is subject to a management order within the meaning of the Contaminated Land Management Act 1997.)

(c) (Information is provided in this section only if, as at the date of this certificate, the land is the subject of an approved voluntary management proposal within the meaning of the Contaminated Land Management Act 1997.)

(d) (Information is provided in this section only if, at the date of this certificate, the land subject to an ongoing maintenance order within the meaning of the Contaminated Land Management Act 1997.)

(e) (Information is provided in this section only if the land is the subject of a site audit statement within the meaning of the Contaminated Land Management Act 1997 - a copy of which has been provided to Council.)

Note: Section 10.7(5) information for this property may contain additional information regarding contamination issues.

20 LOOSE FILL ASBESTOS INSULATION

(Information is provided in this section only if there is a residential premises listed on the register of residential premises that contain or have contained loose-fill asbestos insulation (as required by Division 1A of Part 8 of the Home Building Act 1989))

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21 AFFECTED BUILDING NOTICES AND BUILDING PRODUCT RECTIFICATION ORDERS

(Information is provided in this section only if Council is aware of any "affected building notice" and/or a "building product rectification order" in force for the land).

22 STATE ENVIRONMENTAL PLANNING POLICY – WESTERN SYDNEY AEROTROPOLIS 2020

The land may be subject to additional planning considerations under State Environmental Planning Policy (Western Sydney Aerotropolis) 2020):

	Planning Control	Affected?
(a)	Subject to an ANEF or ANEC contour of 20 or greater	No
(b)	Affected by the Lighting Intensity and Wind Shear Map	No
(c)	Affected by the Obstacle Limitation Surface Map	Yes
(d)	Affected by the "public safety area" on the Public Safety Area Map	No
(e)	Within the "3km zone" or the "13km zone" of the Wildlife Buffer Zone Map	Yes

Note: The Environmental Planning and Assessment Amendment Act 2017 commenced operation on the 1 March 2018. As a consequence of this Act the information contained in this certificate needs to be read in conjunction with the provisions of the Environmental Planning and Assessment (Savings, Transitional and Other Provisions) Regulation 2017, and Environmental Planning and Assessment Regulation 2000.

Information is provided only to the extent that Council has been notified by relevant government departments.

10.7(5) Certificate
This Certificate is directed to the following relevant matters affecting the land

When information pursuant to section 10.7(5) is requested the Council is under no obligation to furnish any of the information supplied herein pursuant to that section. Council draws your attention to section 10.7(6) which states that a council shall not incur any liability in respect of any advice provided in good faith pursuant to sub-section (5). The absence of any reference to any matter affecting the land shall not imply that the land is not affected by any matter not referred to in this certificate.

Note:

- Council's 10.7(5) information does not include development consent or easement information. Details of development consents may be obtained by making enquiries with Council's Development Services Department pursuant to section 12 of the Local Government Act 1993 or (for development applications lodged after January 2007) by viewing the Online Services area at www.penrithcity.nsw.gov.au . Details of any easements may be obtained from a Title Search at Land and Property Information New South Wales.
- This certificate does not contain information relating to Complying Development Certificates.
- This certificate may not provide full details of development rights over the land.

* Biodiversity Conservation Act 2016

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PLANNING CERTIFICATE UNDER SECTION 10.7

Environmental Planning and Assessment Act, 1979

When considering any development application Council must have regard to the Biodiversity Conservation Act 2016. Please note that this legislation may have application to any land throughout the city. Interested persons should make their own enquiries in regard to the impact that this legislation could have on this land.

* Preservation of Trees or Vegetation

Clause 32 of State Environmental Planning Policy (Western Sydney Employment Area) 2009 details requirements relating to the preservation of trees or vegetation.

* Agricultural Activities Within Rural Areas

This property is located in a rural area and there may be certain agricultural activities occurring that some people may find offensive (for example noise, dust and odours). This should be considered if you purchase the subject property or build a dwelling thereon.

If you do purchase the subject property or build a dwelling, the potential impact that your activities (for example pets, inadequate fencing, drainage, litter and poor weed control) might have on the agricultural activities in the area should also be considered.

* Preservation of Trees and Vegetation

See Chapter C2 of Penrith Development Control Plan 2014 for specific controls relating to the preservation of trees and vegetation.

* Development Control Plan General Information

Penrith Development Control Plan 2014 which applies to the land, sets out requirements for a range of issues that apply across the Penrith Local Government Area, including:

- Site Planning and Design Principles
- Vegetation Management
- Water Management
- Land Management
- Waste Management
- Landscape Design
- Culture and Heritage
- Public Domain
- Advertising and Signage
- Transport, Access and Parking
- Subdivision
- Noise and Vibration, and
- Infrastructure and Services.

The Development Control Plan also specifies requirements relating to various types of land uses including:

- Rural Land Uses
- Residential Development
- Commercial and Retail Development, and
- Industrial Development

as well as for a number of specific activities, including child care centres; health consulting rooms; educational establishments; parent friendly amenities; places of public worship; vehicle repair stations; cemeteries, crematoria and funeral homes; extractive industries; and telecommunication facilities.

The Development Control Plan also details requirements relating to key precincts within the Penrith Local Government Area, including:

- Caddens
- Claremont Meadows Stage 2
- Cranebrook
- Emu Heights
- Emu Plains
- Erskine Business Park
- Glenmore Park
- Kingswood
- Mulgoa Valley
- Orchard Hills
- Penrith
- Penrith Health and Education Precinct
- Riverlink Precinct
- St Clair,
- St Marys / St Marys North, and
- Sydney Science Park.

Penrith Development Control Plan 2014 may be accessed at https://www.penrithcity.nsw.gov.au/Building-and-Development/Planning-and-Zoning/Planning-Controls/Development-Control-Plans/

* Draft Mamre Road Precinct Development Control Plan applies to the land.

*** Western Sydney Airport**

The land the subject of this certificate is in the vicinity of the proposed Badgery's Creek airport site and is located within the Australian Noise Exposure Forecast (ANEF) shown on the map in Appendix U of the 1985 draft environmental impact statement for the second Sydney Airport.
The land is partially affected by the **20 - 25 ANEF**.
In regard to land affected by the ANEF Clause 7.9 of Penrith Local Environmental Plan No.2010 states:

"**7.9 Development of land in the flight paths of the site reserved for the proposed Second Sydney Airport**

(1) The objective of this clause is to ensure that development in the vicinity of the proposed Badgery's Creek airport site:
  (a) has regard to the use or potential future use of the site as an airport, and
  (b) does not hinder or have any other adverse impact on the development or operation of an airport on that site.

(2) This clause applies to development that:
  (a) is on land that:
    (i) is near the proposed Badgery's Creek airport site, and
    (ii) is in an ANEF contour of 20 or greater, and
  (b) the consent authority considers is likely to be adversely affected by aircraft noise.

(3) Before determining a development application for development to which this clause applies, the consent authority:

(a) must consider whether the development will result in an increase in the number of dwellings or people affected by aircraft noise, and
(b) must consider the location of the development in relation to the criteria set out in Table 2.1 (Building Site Acceptability Based on ANEF Zones) in AS 2021-2000, and
(c) must be satisfied that the development will meet AS 2021-2000 with respect to interior noise levels for the purposes of:
(i) if the development will be in an ANEF contour or 20 or greater - child care centres, educational establishments, entertainment facilities, hospitals, places of public worship, public administration buildings or residential accommodation, and
(ii) if the development will be in an ANEF contour of 25 or greater - commercial premises, hostels or hotel or motel accommodation.

(4) In this clause:

ANEF contour means a noise exposure contour shown as an ANEF contour on the map in Appendix U of the draft environmental impact statement for the Second Sydney Airport, copies of which are deposited in the Office of the Council and of the Commonwealth Department of Infrastructure, Transport, Regional Development and Local Government.

AS 2021-2000 means AS 2021-2000, *Acoustics-Aircraft noise intrusion-Building siting and construction."*

(Note: The Australian Government announced on 15 April 2014 that Badgerys Creek will be the site for a new airport for Western Sydney. On 12 December 2016, the Government announced the approval of the Airport Plan, authorising Stage 1 of the Western Sydney Airport. Stage 1 comprises a single runway and facilities to cater for up to 10 million passengers a year. This approval follows an assessment of the Airport Plan and its Environmental Impact Statement by the Environment Minister. Enquiries regarding the Western Sydney Airport should be made with the Department of Infrastructure and Regional Development. (Website: <http://westernsydneyairport.gov.au>)).

Warwick Winn
General Manager

PER

Please note:
Certain amendments to the Environmental Planning and Assessment Act 1979 No 203 (Act) commenced on 1 March 2018.
The Environmental Planning and Assessment (Amendment) Act 2017 No 60 makes structural changes to the Act and, as a consequence, the Act has been renumbered in a decimal format. For example, Section 149 Planning Certificates have become Section 10.7 Certificates. Some of the information in this certificate may refer to the previous version of the Act.
Council is committed to updating all relevant documents in a timely manner. This will include planning instruments, applications, approvals, orders, certificates, forms and other associated

documents in both printed and electronic versions. Council is required to implement these changes and regrets any inconvenience caused to the local business, industry and the community.

Attachment

Penrith Local Environmental Plan No 258 - Consent for Dwelling Houses and Other Development

1 Name of plan

This plan is *Penrith Local Environmental Plan No 258 - Consent for Dwelling Houses and Other Development.*

2 Aims of plan

This plan aims to:

(a) require development consent for dwelling houses on residentially zoned land within the City of Penrith, and

(b) require development consent for dwelling houses on land within the Non-urban zone under the *Penrith Planning Scheme Ordinance* and on land within the Special Business zone under *Penrith Local Environmental Plan 1997 (Penrith City Centre)*, and

(c) require development consent for dwelling houses attached to and used in conjunction with shops on land within the Neighbourhood Business zone under the *Penrith Planning Scheme Ordinance*, and

(d) require development consent for the following:

(i) the erection of a building or structure ordinarily associated with a dwelling house,
(ii) a change of building use,

Note. At the commencement of this plan, **a change of building use** meant a change of use of a building from a use that the *Building Code of Australia* recognises as appropriate to one class of building to a use that the *Building Code of Australia* recognises as appropriate to a different class of building.

(iii) demolition of a building or structure,
(iv) carrying out structural alterations to a building, internal alterations to a building, or external building work in association with business premises, a bed and breakfast establishment, office premises, commercial premises or take away food shops,
(v) the subdivision of land,

to the extent to which such development does not already require development consent because of another environmental planning instrument in order to be carried out.

3 Land to which plan applies

This plan applies to all land within the City of Penrith.

4 Relationship to other environmental planning instruments

(1) In the event of an inconsistency between this plan and any other local environmental planning instrument or deemed environmental planning instrument, this plan shall prevail to the extent of the inconsistency, subject to section 36 (4) of the Act.

(2) This plan amends:

(a) *Penrith Planning Scheme Ordinance* in the manner set out in Schedule 1,

(b) *Penrith Local Environmental Plan 1997 (Penrith City Centre)* in the manner set out in Schedule 2, and

(c) *Penrith Local Environmental Plan 1998 (Urban Land)* in the manner set out in Schedule 3.

(3) This plan does not affect the application of:

(a) *State Environmental Planning Policy No 3 - Castlereagh Liquid Waste Disposal Depot,*

(b) State Environmental Planning Policy No 27 - Prison Sites,

(c) Sydney Regional Environmental Plan No 9 - Extractive Industry,

(d) Sydney Regional Environmental Plan No. 11 - Penrith Lakes Scheme,

(e) Sydney Regional Environmental Plan No 20 - Hawkesbury-Nepean River (No 2-1997),

(f) Sydney Regional Environmental Plan No 30 - St Marys, or

(g) Penrith Local Environmental Plan No 255 - Exempt and Complying Development,

to land to which this plan applies.

5 Definitions

(1) In this plan:

a building or structure ordinarily associated with a dwelling house means a garage, carport, pergola, swimming pool, and the like, and includes alterations and additions to an existing dwelling house.

change of building use has the same meaning as in the Act.

Note. At the commencement of this plan, a ***change of building use*** meant a change of use of a building from a use that the *Building Code of Australia* recognises as appropriate to one class of building to a use that the *Building Code of Australia* recognises as appropriate to a different class of building.

dwelling means a room or number of rooms occupied or used, or so constructed or adapted as to be capable of being occupied or used, as a separate domicile.

dwelling house means a dwelling which is the only dwelling erected on an allotment of land.

subdivision of land has the same meaning as in the Act.

the Act means the *Environmental Planning and Assessment Act 1979.*

(2) The list of contents and notes in this plan are not part of this plan.

6 Dwelling houses require development consent

(1) The erection of a dwelling house must not be carried out without development consent.

(2) This clause applies to residentially zoned land within the City of Penrith.

(3) This clause applies if the development:

(a) does not require development consent because of another environmental planning instrument, and

(b) is not prohibited by another environmental planning instrument.

7. Miscellaneous development that requires development consent

(1) The following development must not be carried out without development consent:

(a) erection of a building or structure ordinarily associated with a dwelling house, or

(b) development that results in a change of building use, or

(c) demolition of a building or structure, or

(d) structural, internal or external building work in association with business premises, a bed and breakfast establishment, office premises, commercial premises or take away food shops.

(2) This clause applies if the development:

(a) does not require development consent because of another environmental planning instrument, and

(b) is not prohibited by another environmental planning instrument, and

(c) is not identified in *Penrith Local Environmental Plan No 255 - Exempt and Complying Development* as exempt development, and

(d) does not involve Crown building work as defined in section 116G of the Act.

8 Subdivisions require development consent

(1) A subdivision of land must not be carried out without development consent.

(2) This clause applies if the subdivision of land:

(a) does not require development consent because of another environmental planning instrument, and

(b) is not prohibited by another environmental planning instrument, and

(c) is not identified in *Penrith Local Environmental Plan No 255 - Exempt and Complying Development* as exempt development, and

(d) does not involve Crown building work as defined in section 116G of the Act.

Schedule 1 Amendment of Penrith Planning Scheme Ordinance

(Clause 4 (2) (a))

[1] Clause 4 Interpretation
Omit the definition of ***Country dwelling.***

[2] Clause 26 Erection or use of buildings or works
Omit "country dwellings;" from Column III for Zone No 1 of the Table to the clause.

[3] Clause 26, Table
Omit "dwelling-houses other than country dwellings and rural dwellings;" from Column V for Zone No. 1.

[4] Clause 26, Table
Omit "Dwelling-houses other than semi-detached and terrace buildings." from Column III for Zone No 2(a).

[5] Clause 26, Table
Omit "Residential buildings." from Column III for Zone No 2 (b).

[6] Clause 26, Table
Omit "Dwelling-houses other than semi-detached or terrace buildings." from Column III for Zone No 2 (c).

[7] Clause 26, Table
Omit ";dwelling-houses attached to and used in conjunction with shops" from Column III for Zone No 3 (c).

[8] Clause 26, Table
Omit "Purposes" from Column IV for Zone No 3(c).

Insert instead "Buildings or other structures ordinarily associated with dwelling houses; changes of building use (as defined in the *Environmental Planning and Assessment Act 1979)*; dwelling-houses attached to and used in conjunction with shops; demolition of buildings or other structures; land uses and premises".

[9] Clause 26, Table
Insert "; structural or internal alterations to, or external building work in association with, commercial premises or refreshment rooms" after "roads" in Column IV for Zone No 3(c).

[10] Clause 38 Development in residential zones
Omit the clause.

[11] Clause 46 Variation of area required for country dwelling
Omit the clause.

Schedule 2 Amendment of Penrith Local Environmental

Plan 1997 (Penrith City Centre)

(Clause 4 (2) (b))

[1] Clause 9 Zone objectives and development control table

Omit from item (b) (i) **Without development consent** for Zone No 2 (f) in the Development Control Table:

- dwelling-houses

[2] Clause 9, table

Insert in alphabetical order in item (b) (ii) **Only with development consent** for Zone No 2 (f):

- buildings or other structures ordinarily associated with dwelling-houses
- demolition of buildings or other structures
- dwelling-houses

[3] Clause 20 Development of land within Zone No 3 (a)

Insert "where the new use does not involve structural or internal alterations or external buildings works" after the words "or take away food shops".

Schedule 3 Amendment of Penrith Local Environmental Plan 1998 (Urban Land)

(Clause 4 (2) (c))

[1] Clause 9 Zone objectives and development control table

Omit wherever occurring from item (b) (i) **Without development consent** for Zones Nos 2 (a1), 2 (a), 2 (b), 2 (c), 2 (d) and 2 (e) in the Development Control Table:

- dwelling houses

[2] Clause 9, table

Insert in alphabetical order in item (b) (ii) **Only with development consent** for Zones Nos 2 (a1), 2 (a), 2 (b), 2 (c), 2 (d) and 2 (e):

- buildings or other structures ordinarily associated with dwelling houses
- changes of building use (as defined in the Act)
- demolition of buildings or other structures
- dwelling houses
- internal structural work in bed and breakfast establishments

[3] Clause 9, table

Insert in alphabetical order in item b (ii) **Only with development consent** for Zones Nos 2 (r) and 2 (r1);

- buildings or other structures ordinarily associated with dwelling houses
- changes of building use (as defined in the Act)
- demolition of buildings or other structures
- structural or internal alterations to bed and breakfast establishments

[4] Clause 9, table

Insert in alphabetical order in item (b) (ii) **Only with development consent** for Zone No 3 (f):

- changes of building use (as defined in the Act)
- demolition of buildings or other structures
- external building work associated with an existing land use carried out with consent
- structural or internal alterations to a building or other structure erected with consent or building approval

ATTACHMENT B

Plate 1 – View north showing Kemps Creek.

Plate 2 – View south of raised neighbouring property.

Plate 3 – View of north of South Creek.

Plate 4 – View south west of breached dam wall.

Plate 5 – Stratigraphic profile of dam wall made of natural soil materials.

Plate 6 – View south west of former dam.

Plate 7 – View south east of bridge built on neighbouring property.

Plate 8 – View east of onsite grazing lands.

Plate 9 – Former onsite dam location – filled prior to 1975.

Plate 10 – View southeast of 'clean' sewage outlet.

Plate 11 – View of metal clad chicken coop.

Plate 12 – View of hay bale store and cattle shelter.

Plate 1 – View north showing Kemps Creek.

Plate 2 – View south of raised neighbouring property.

Plate 3 – View of north of South Creek.

Plate 4 – View south west of breached dam wall.

Plate 5 – Stratigraphic profile of dam wall made of natural soil materials.

Plate 6 – View south west of former dam.

Plate 7 – View south east of bridge built on neighbouring property.

Plate 8 – View east of onsite grazing lands.

Plate 9 – Former onsite dam location – filled prior to 1975.

Plate 10 – View southeast of 'clean' sewage outlet.

Plate 11 – View of metal clad chicken coop.

Plate 12 – View of hay bale store and cattle shelter.

Plate 13 – View north east grazing area and feeding station.

Plate 14 – View north east of onsite watercourse.

Plate 15 – View south of shed in use by occupants as living space.

Plate 16 – View west of onsite culvert with litter washed down from the stream. Fill surrounding culvert containing asphalt.

ATTACHMENT C

TEST PIT LOG: HD1

Geo-Logix Pty Ltd
Building Q2, Level 3
Unit 2309 / 4 Daydream Street
Warriewood NSW 2102
www.geo-logix.com.au

Project Number:	**2101084**
Hole Depth:	**1.60 m**
Date Started:	**28/07/2021**
Date Completed:	**28/07/2021**

Project Name: **Dam Investigation**
Location / Site: **805-817 Mamre Road, Kemps Creek NSW**
Client: **Gibb Group Developments Pty Ltd**
Contractor: **C & D Camilleri Excavations Pty Ltd**
Method: **Excavator**

Method	Water Level	Depth (mBGL)	Sample Type	HC Odour	Sample ID	Material Type	USCS Symbol	Graphic Log	Material Description	Moisture	Observations / Comments
EX		1	D	Z	HD1/0.0-0.5	Fill			**FILL**- reddish brown / moderate brown (5YR 4/4), 60% clay, 40% sand, low to medium plasticity, soft.	damp	
			D	Z	HD1/0.5-0.8						
		1.30	D	Z	HD1/1.4-1.6	Natural	CL		**CLAY**- very pale brown / greyish orange (10YR 7/4), 80% clay, 10% silt, 10% sand, medium plasticity, soft, some iron induration.	damp	
		2							**Terminated at 1.60 m**		
		3									

Abbreviations

Hydrocarbon Odour
H High
M Medium
L Low
Z Zero

Sample Type
D Disturbed
U Undisturbed
B Bulk
R Representative
C Continuous
J Jar
Asb Asbestos

Strength Testing
SPT Standard Penetration Test
DCP Dynamic Cone Penetrometer
PP Pocket Penetrometer

Water Levels
Encountered Groundwater
Stabilised Groundwater

Additional Comments
Historical Farm Dam Area.

Log Drawn By: Laurie White
Contact: laurie.white@reumad.com.au

Logged By: **Alyson Bannister** Date: **28/07/2021**
Checked By: **Tiffany Mabbott** Date: **20/08/2021**

TEST PIT LOG: HD2

Geo-Logix Pty Ltd
Building Q2, Level 3
Unit 2309 / 4 Daydream Street
Warriewood NSW 2102
www.geo-logix.com.au

Project Number:	**2101084**
Hole Depth:	**1.80 m**
Date Started:	**28/07/2021**
Date Completed:	**28/07/2021**

Project Name: **Dam Investigation**
Location / Site: **805-817 Mamre Road, Kemps Creek NSW**
Client: **Gibb Group Developments Pty Ltd**
Contractor: **C & D Camilleri Excavations Pty Ltd**
Method: **Excavator**

Method	Water Level	Depth (mBGL)	Sample Type	HC Odour	Sample ID	Material Type	USCS Symbol	Graphic Log	Material Description	Moisture	Observations / Comments
EX		0	D	Z	HD2/0.0-0.2	Fill			**FILL**- reddish brown / moderate brown (5YR 4/4), mottled medium light grey (N6), 60% clay, 40% sand, low to medium plasticity, soft.	damp	
			D	Z	HD2/0.5-0.8						
		1.60	D	Z	HD2/1.6-1.8	Natural	CL		**CLAY**- medium light grey (N6), mottled very pale brown / greyish orange (10YR 7/4), 80% clay, 10% silt, 10% sand, medium plasticity, soft, some iron induration.	moist	
		2							**Terminated at 1.80 m**		
		3									

Abbreviations

Hydrocarbon Odour
H High
M Medium
L Low
Z Zero

Sample Type
D Disturbed
U Undisturbed
B Bulk
R Representative
C Continuous
J Jar
Asb Asbestos

Strength Testing
SPT Standard Penetration Test
DCP Dynamic Cone Penetrometer
PP Pocket Penetrometer

Water Levels
Encountered Groundwater
Stabilised Groundwater

Additional Comments
10m East of HD1.

Log Drawn By:	Laurie White	Logged By:	**Alyson Bannister** Date: **28/07/2021**
Contact:	laurie.white@reumad.com.au	Checked By:	**Tiffany Mabbott** Date: **20/08/2021**

TEST PIT LOG: HD3

Geo-Logix Pty Ltd
Building Q2, Level 3
Unit 2309 / 4 Daydream Street
Warriewood NSW 2102
www.geo-logix.com.au

Project Number:	**2101084**
Hole Depth:	**1.20 m**
Date Started:	**28/07/2021**
Date Completed:	**28/07/2021**

Project Name: **Dam Investigation**
Location / Site: **805-817 Mamre Road, Kemps Creek NSW**
Client: **Gibb Group Developments Pty Ltd**
Contractor: **C & D Camilleri Excavations Pty Ltd**
Method: **Excavator**

Method	Water Level	Depth (mBGL)	Sample Type	HC Odour	Sample ID	Material Type	USCS Symbol	Graphic Log	Material Description	Moisture	Observations / Comments
EX		0.70	D	Z	HD3/0.0-0.7	Fill			**FILL**- reddish brown / moderate brown (5YR 4/4), 60% clay, 40% sand, low plasticity, firm.	damp	
		1	D	Z	HD3/0.7-1.2	Natural	CL		**CLAY**- medium light grey (N6), mottled very pale brown / greyish orange (10YR 7/4), 80% clay, 10% sand, 10% gravel, medium plasticity, firm.	damp	
		2							**Terminated at 1.20 m**		
		3									

Abbreviations

Hydrocarbon Odour
H High
M Medium
L Low
Z Zero

Sample Type
D Disturbed
U Undisturbed
B Bulk
R Representative
C Continuous
J Jar
Asb Asbestos

Strength Testing
SPT Standard Penetration Test
DCP Dynamic Cone Penetrometer
PP Pocket Penetrometer

Water Levels
Encountered Groundwater
Stabilised Groundwater

Additional Comments
10m East of HD2.

Log Drawn By:	Laurie White	Logged By:	**Alyson Bannister** Date: **28/07/2021**
Contact:	laurie.white@reumad.com.au	Checked By:	**Tiffany Mabbott** Date: **20/08/2021**

TEST PIT LOG: HD4

Geo-Logix Pty Ltd
Building Q2, Level 3
Unit 2309 / 4 Daydream Street
Warriewood NSW 2102
www.geo-logix.com.au

Project Number:	**2101084**
Hole Depth:	**0.90 m**
Date Started:	**28/07/2021**
Date Completed:	**28/07/2021**

Project Name: **Dam Investigation**
Location / Site: **805-817 Mamre Road, Kemps Creek NSW**
Client: **Gibb Group Developments Pty Ltd**
Contractor: **C & D Camilleri Excavations Pty Ltd**
Method: **Excavator**

Method	Water Level	Depth (mBGL)	Sample Type	HC Odour	Sample ID	Material Type	USCS Symbol	Graphic Log	Material Description	Moisture	Observations / Comments
EX		0.70	D	Z	HD4/0.0-0.7	Fill			**FILL**- reddish brown / moderate brown (5YR 4/4), 60% clay, 10% silt, 30% sand, low plasticity, firm.	damp	Fill / Natural horizon varied 0.4-0.7m.
			D	Z	HD4/0.7-0.8	Natural	CL		**CLAY**- medium light grey (N6), mottled very pale brown / greyish orange (10YR 7/4), 80% clay, 10% silt, 10% sand, medium plasticity, firm.	damp	
		1 2 3							**Terminated at 0.90 m**		

Abbreviations

Hydrocarbon Odour
H High
M Medium
L Low
Z Zero

Sample Type
D Disturbed
U Undisturbed
B Bulk
R Representative
C Continuous
J Jar
Asb Asbestos

Strength Testing
SPT Standard Penetration Test
DCP Dynamic Cone Penetrometer
PP Pocket Penetrometer

Water Levels
Encountered Groundwater
Stabilised Groundwater

Additional Comments

REUMAD

Log Drawn By: Laurie White
Contact: laurie.white@reumad.com.au

Logged By: **Alyson Bannister** Date: **28/07/2021**
Checked By: **Tiffany Mabbott** Date: **20/08/2021**

TEST PIT LOG: HD5

Geo-Logix Pty Ltd
Building Q2, Level 3
Unit 2309 / 4 Daydream Street
Warriewood NSW 2102
www.geo-logix.com.au

Project Number:	**2101084**
Hole Depth:	**0.80 m**
Date Started:	**28/07/2021**
Date Completed:	**28/07/2021**

Project Name: **Dam Investigation**
Location / Site: **805-817 Mamre Road, Kemps Creek NSW**
Client: **Gibb Group Developments Pty Ltd**
Contractor: **C & D Camilleri Excavations Pty Ltd**
Method: **Excavator**

Method	Water Level	Depth (mBGL)	Sample Type	HC Odour	Sample ID	Material Type	USCS Symbol	Graphic Log	Material Description	Moisture	Observations / Comments
EX		0.60	D	Z	HD5/0.0-0.5	Fill			**FILL**- reddish brown / moderate brown (5YR 4/4), 60% clay, 40% sand, low plasticity, firm.	damp	Fill / Natural horizon varied 0.4-0.6m.
			D	Z	HD5/0.5-0.7	Natural	CL		**CLAY**- medium light grey (N6), mottled very pale brown / greyish orange (10YR 7/4), 80% clay, 10% silt, 10% sand, medium plasticity, soft to firm.	damp	
		1							**Terminated at 0.80 m**		
		2									
		3									

Abbreviations

Hydrocarbon Odour
H High
M Medium
L Low
Z Zero

Sample Type
D Disturbed
U Undisturbed
B Bulk
R Representative
C Continuous
J Jar
Asb Asbestos

Strength Testing
SPT Standard Penetration Test
DCP Dynamic Cone Penetrometer
PP Pocket Penetrometer

Water Levels
Encountered Groundwater
Stabilised Groundwater

Additional Comments

Log Drawn By: Laurie White
Contact: laurie.white@reumad.com.au

Logged By: **Alyson Bannister** Date: **28/07/2021**
Checked By: **Tiffany Mabbott** Date: **20/08/2021**

TEST PIT LOG: HD6

Geo-Logix Pty Ltd
Building Q2, Level 3
Unit 2309 / 4 Daydream Street
Warriewood NSW 2102
www.geo-logix.com.au

Project Number:	**2101084**
Hole Depth:	**0.80 m**
Date Started:	**28/07/2021**
Date Completed:	**28/07/2021**

Project Name: **Dam Investigation**
Location / Site: **805-817 Mamre Road, Kemps Creek NSW**
Client: **Gibb Group Developments Pty Ltd**
Contractor: **C & D Camilleri Excavations Pty Ltd**
Method: **Excavator**

Method	Water Level	Depth (mBGL)	Sample Type	HC Odour	Sample ID	Material Type	USCS Symbol	Graphic Log	Material Description	Moisture	Observations / Comments
EX		0.60	D	Z	HD6/0.0-0.5	Fill			**FILL**- reddish brown / moderate brown (5YR 4/4), 60% clay, 40% sand, low plasticity, firm.	moist	Fill / Natural horizon varied 0.5-0.6m.
			D	Z	HD6/0.6-0.8	Natural	CL		**CLAY with Silt**- very pale brown / greyish orange (10YR 7/4), 70% clay, 20% silt, 10% sand, low to medium plasticity, firm.	moist	
		1							**Terminated at 0.80 m**		
		2									
		3									

Abbreviations

Hydrocarbon Odour
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Sample Type
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J Jar
Asb Asbestos

Strength Testing
SPT Standard Penetration Test
DCP Dynamic Cone Penetrometer
PP Pocket Penetrometer

Water Levels
Encountered Groundwater
Stabilised Groundwater

Additional Comments
Opposite fence line in North direction from HD1.

Log Drawn By: Laurie White
Contact: laurie.white@reumad.com.au

Logged By: **Alyson Bannister** Date: **28/07/2021**
Checked By: **Tiffany Mabbott** Date: **20/08/2021**

TEST PIT LOG: HD7

Geo-Logix Pty Ltd
Building Q2, Level 3
Unit 2309 / 4 Daydream Street
Warriewood NSW 2102
www.geo-logix.com.au

Project Number:	**2101084**
Hole Depth:	**0.80 m**
Date Started:	**28/07/2021**
Date Completed:	**28/07/2021**

Project Name: **Dam Investigation**
Location / Site: **805-817 Mamre Road, Kemps Creek NSW**
Client: **Gibb Group Developments Pty Ltd**
Contractor: **C & D Camilleri Excavations Pty Ltd**
Method: **Excavator**

Method	Water Level	Depth (mBGL)	Sample Type	HC Odour	Sample ID	Material Type	USCS Symbol	Graphic Log	Material Description	Moisture	Observations / Comments
EX		0.70	D	Z	HD7/0.0-0.7	Fill			**FILL**- reddish brown / moderate brown (5YR 4/4), 60% clay, 40% sand, low plasticity, firm.	moist	Fill / Natural horizon varied 0.4-0.7m.
			D	Z	HD7/0.7-0.8	Nat.	CL		**CLAY with Silt**- medium light grey (N6), mottled very pale brown / greyish orange (10YR 7/4), 80% clay, 10% silt, 10% sand, medium plasticity, firm.	moist	
									Terminated at 0.80 m		

Abbreviations

Hydrocarbon Odour
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Sample Type
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B Bulk
R Representative
C Continuous
J Jar
Asb Asbestos

Strength Testing
SPT Standard Penetration Test
DCP Dynamic Cone Penetrometer
PP Pocket Penetrometer

Water Levels
Encountered Groundwater
Stabilised Groundwater

Additional Comments

Log Drawn By: Laurie White
Contact: laurie.white@reumad.com.au

Logged By: **Alyson Bannister** Date: **28/07/2021**
Checked By: **Tiffany Mabbott** Date: **20/08/2021**

TEST PIT LOG: HD8

Geo-Logix Pty Ltd
Building Q2, Level 3
Unit 2309 / 4 Daydream Street
Warriewood NSW 2102
www.geo-logix.com.au

Project Number:	**2101084**
Hole Depth:	**0.70 m**
Date Started:	**28/07/2021**
Date Completed:	**28/07/2021**

Project Name: **Dam Investigation**
Location / Site: **805-817 Mamre Road, Kemps Creek NSW**
Client: **Gibb Group Developments Pty Ltd**
Contractor: **C & D Camilleri Excavations Pty Ltd**
Method: **Excavator**

Method	Water Level	Depth (mBGL)	Sample Type	HC Odour	Sample ID	Material Type	USCS Symbol	Graphic Log	Material Description	Moisture	Observations / Comments
EX		0.50	D	Z	HD8/0.0-0.5	Fill			**FILL**- reddish brown / moderate brown (5YR 4/4), 60% clay, 40% sand, low plasticity, firm.	damp	
			D	Z	HD8/0.5-0.7	Natural	CL		**CLAY**- medium light grey (N6), mottled light grey (10YR 7/2), 80% clay, 10% silt, 10% sand, low to medium plasticity, firm.	damp	
		1							**Terminated at 0.70 m**		
		2									
		3									

Abbreviations

Hydrocarbon Odour
H High
M Medium
L Low
Z Zero

Sample Type
D Disturbed
U Undisturbed
B Bulk
R Representative
C Continuous
J Jar
Asb Asbestos

Strength Testing
SPT Standard Penetration Test
DCP Dynamic Cone Penetrometer
PP Pocket Penetrometer

Water Levels
Encountered Groundwater
Stabilised Groundwater

Additional Comments

Log Drawn By: Laurie White
Contact: laurie.white@reumad.com.au

Logged By: **Alyson Bannister** Date: **28/07/2021**
Checked By: **Tiffany Mabbott** Date: **20/08/2021**