



STAGE 1 PRELIMINARY SITE INVESTIGATION (PSI)

**105 COOBY ROAD
LOT 240 DP 828854
TULLIMBAR, NSW, 2527**

Prepared For: **INDESCO**
Project Number: **ENRS1187**
Date: **7th December 2018**

ENRS

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Record of Distribution

Copies	Report No. & File Name	Status	Date	Prepared for:
1 x PDF	ENRS1187_INDESCO_105 Cooby Rd Tullimbar_Stage 1 PSI	Rev.1	10 th Dec. 2018	INDESCO
1 x PDF	ENRS1187_INDESCO_105 Cooby Rd Tullimbar_Stage 1 PSI	Rev.2	19 th Aug. 2019	INDESCO

EXECUTIVE SUMMARY

Environment & Natural Resource Solutions (ENRS Pty Ltd) were commissioned as independent environmental consultants by INDESCO (the client) to conduct a Stage 1 Preliminary Site Investigation (PSI) for a proposed residential sub-division of a rural block located at 105 Cooby Road, Tullimbar, NSW, 2527 (*herein referred to as the Site*).

ENRS understands the proposal includes the sub-division of the current Lot to form the following Lots; three (3) residential areas 300 m² to 600 m²; two (2) environmental living 1000 m² to 4000 m²; rural interface 1-3 acres; and a riparian link. These land uses have been chosen based on the surrounding environment and features at the Site including any vegetated or cleared areas.

Given that the proposal includes a change in land use from rural to residential, this Preliminary Site Investigation (PSI) is required for development application (DA) purposes, to assess the potential for ground contamination and document the Site suitability for the proposed land uses consistent with NSW State Environmental Planning Policy No. 55 (SEPP55).

This report documents the results of a Stage 1 site history review and site inspections in general accordance with the NSW Environment Protection Authority (EPA) Guidelines for Consultants Reporting on Contaminated Sites (OEHS2011), and the National Environment Protection (Assessment of Site Contamination) Amendment Measure 2013 (No. 1).

This assessment aims to document the site history and identify the potential for contaminated land with respect to current or proposed land use. The objectives of this Stage 1 PSI were to;

- Document the available Site history;
- Identify potential on and off-site sources of contamination (past and present);
- Identify potential contamination types;
- Document the Site condition;
- Provide a preliminary assessment of potential Site contamination;
- Assess the need for further investigations, if any; and
- Provide a statement regarding the suitability of the Site for the proposed ongoing residual land use.

The scope of work for the project comprised the following tasks:

- Review available Site history records incorporating previous investigation reports (where available), proposed development plans, and publicly available data (including aerial photographs, geological maps, topographical maps, and registered groundwater bore database) to identify any past or present potentially contaminating activities and or any potential Areas of Environmental Concern (AECs);
- Site inspection to investigate for potential sources of contamination or uncontrolled Fill (6/12/2018); and
- Document investigation results and prepare a PSI report with a statement of Site condition, suitability and recommendations for additional investigation works or ongoing environmental management, if required.

Based on the results of the historical data and a site inspection, the following conclusions and recommendations have been provided:

- This Stage 1 PSI report documents a review of historical land use records and a Site inspection for 105 Cooby Road, NSW, 2527. ENRS understand the Site proposal is for sub-division for mixed residential land use;
- The Site history records document the Site has been used for rural purposes since circa 1949;
- The site history review did not identify any evidence of development or previous contaminating activity to trigger any further ground testing or environmental assessment;
- Review of EPA contaminated land records did not identify any areas of environmental concern in proximity to the Site;
- The Site walkover and inspections conducted on the 6th December 2018 confirmed the Site condition is consistent with the documented history of rural land use. The Site inspection did not identify any potential Areas of Environmental Concern (AECs);
- Based on the historical information provided in this report and observations made during the Site inspection, the Site ***may be considered suitable for the proposed sub-division and residential land use***;
- Should any change in Site conditions or incident occur which causes a potential environmental impact, a suitable environmental professional should be notified to further assess the Site and consider requirements for any additional assessment; and
- This report must be read in conjunction with the attached Statement of Limitations.

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INTRODUCTION

Environment & Natural Resource Solutions (ENRS Pty Ltd) were commissioned as independent environmental consultants by *INDESCO* (the client) to conduct a Stage 1 Preliminary Site Investigation (PSI) for a proposed residential sub-division of a rural block located at 105 Cooby Road, Tullimbar, NSW, 2527 (*herein referred to as the Site*).

ENRS understands the proposal includes the sub-division of the current Lot to form the following Lots; residential areas 300 m² to 600 m²; environmental living 1000 m² to 4000 m² areas; rural interface lots ~1 Ha; and a riparian link. These land uses have been chosen based on the surrounding environment and ecological constraints.

Given that the proposal includes a change in land use from rural to residential, this Preliminary Site Investigation (PSI) is required for development application (DA) purposes, to assess the potential for ground contamination and document the Site suitability for the proposed land uses consistent with NSW State Environmental Planning Policy No. 55 (SEPP55).

This report documents the results of a Stage 1 site history review and site inspections in general accordance with the NSW Environment Protection Authority (EPA) Guidelines for Consultants Reporting on Contaminated Sites (OEHS2011), and the National Environment Protection (Assessment of Site Contamination) Amendment Measure 2013 (No. 1).

1.1 OBJECTIVES

This assessment aims to document the site history and identify the potential for contaminated land with respect to current or proposed land use. The objectives of this Stage 1 PSI were to;

- Document the available Site history;
- Identify potential on and off-site sources of contamination (past and present);
- Identify potential contamination types;
- Document the Site condition;
- Provide a preliminary assessment of potential Site contamination;
- Assess the need for further investigations, if any; and
- Provide a statement regarding the suitability of the Site for the proposed ongoing residual land use.

1.2 SCOPE OF WORK

The scope of work for the project comprised the following tasks:

- Review available Site history records incorporating previous investigation reports (where available), proposed development plans, and publicly available data (including aerial photographs, geological maps, topographical maps, and registered groundwater bore database) to identify any past or present potentially contaminating activities and or any potential Areas of Environmental Concern (AECs);
- Site inspection to investigate for potential sources of contamination or uncontrolled Fill (6/12/2018); and

- Document investigation results and prepare a PSI report with a statement of Site condition, suitability and recommendations for additional investigation works or ongoing environmental management, if required.

SITE DESCRIPTION

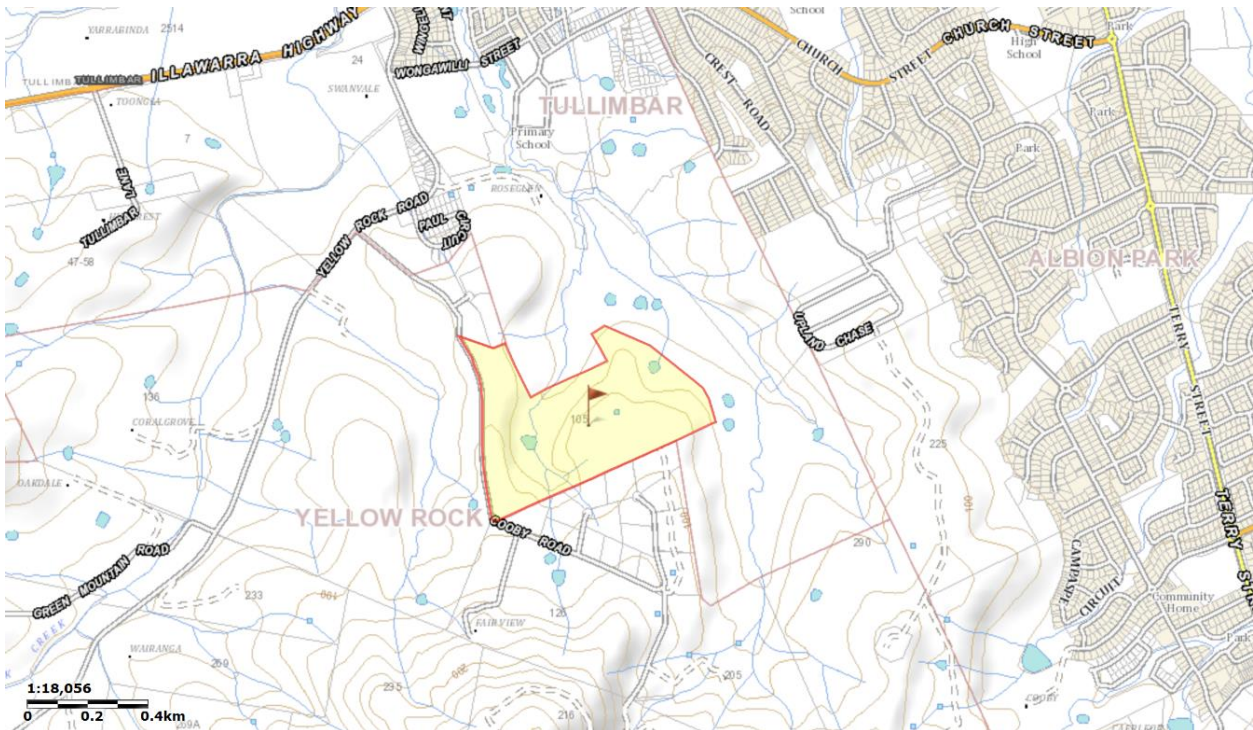
1.3 SITE IDENTIFICATION

The Site is located along Cooby Road, Tullimbar as shown in **Figure 1**. The key features required to identify the Site are summarised in **Table 1**.

Table 1: Site Identification

SITE	DESCRIPTION
Street Address	105 Cooby Road, Tullimbar, NSW, 2527
Lot / Deposited Plan	240 / 828854
Area	Approx. 28.9 ha or 289,000 m ²
Local Government Area	Shellharbour City Council
Current Zoning	(DM) Deferred Matter (2013)
Future Zoning	(R2) Low Density Residential, (E4) Environmental Living

Figure 1 Site Location Map



Source: www.maps.six.nsw.gov.au (cited 5/12/2018)

1.4 SURROUNDING ENVIRONMENT

The Site is situated within an area of environmental residential living and mixed rural land use, refer to **Table 2** for the following adjacent land uses:

Table 2: Surrounding land uses

North:	Adjoining rural land further to residential properties (~200m)
East:	Adjoining rural land and Hazelton Creek (~150m)
South:	Neighbouring Low density residential properties
West:	Cooby Road further to rural land

1.4.1 Nearest Sensitive Receptors

The nearest sensitive receptors include:

- Hazelton Creek ~150m east of the Site;
- Neighbouring residential properties on the southern boundary;
- Drainage lines and dams within the downgradient (north) rural properties; and
- Shallow groundwater aquifers, if any.

1.5 TOPOGRAPHY

A review of the Site topography was conducted with reference to the current series topographic map sheet, refer to **Figure 6**. The following points summarise the key observations:

- In general, the regional gradient gently dips to the north;
- A large relatively level area is located in the middle of the Site surrounded by moderate slopes;
- A small gully and drainage line is located over the western portion of the Site which is expected to capture the majority of surface runoff; and
- No stormwater drainage systems were observed at the Site.

1.6 GEOLOGY

Review of the Site's geological setting was conducted with reference to the Wollongong 1:100,000 geological series sheet. The Site is located near the boundary of the Illawarra Coal (Pi) and Berry Formation (Psb) (Undifferentiated). Both formations are characterised by siltstones, shales and sandstones. The Illawarra Coal Measures also include tuff, chert, coal and torbanite seams. In general, Shales within the Sydney Basin are characterised by low groundwater yields and moderate to high salinity.

Figure 2: Geology Map

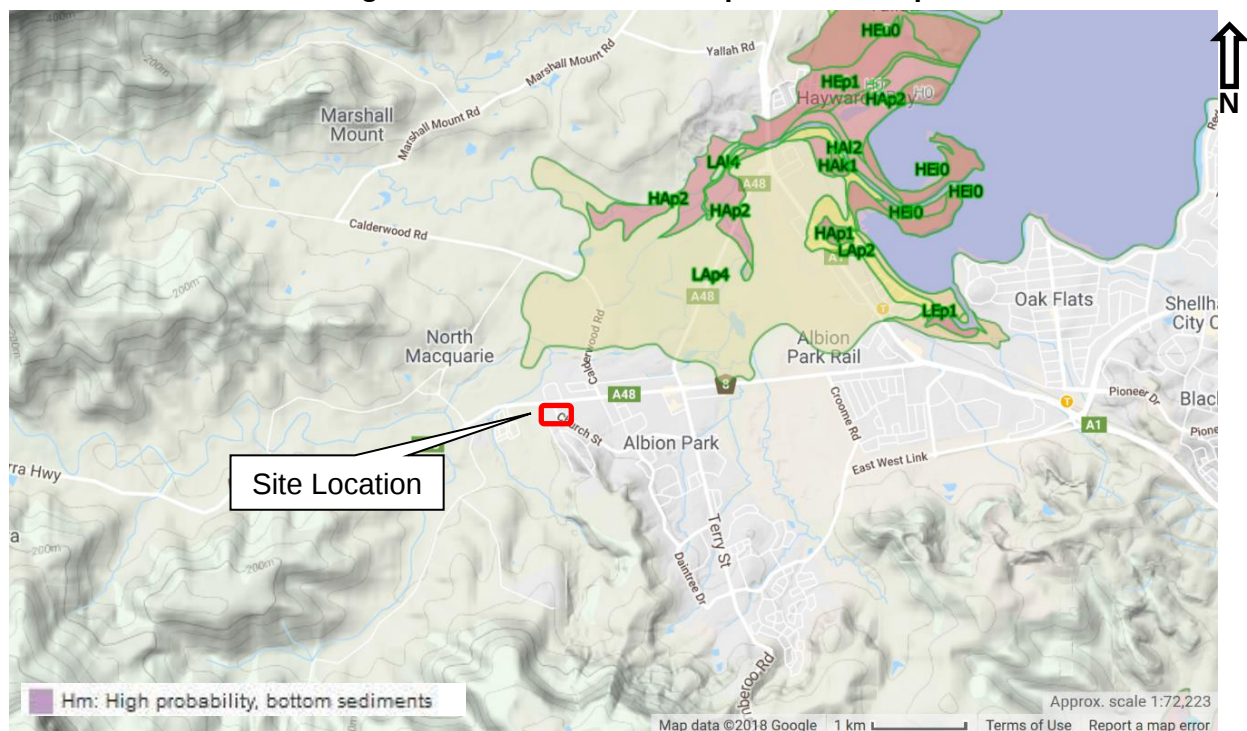


1.6.1 Potential Acid Sulphate Soil Assessment (PASSA)

A desktop assessment was conducted for Potential Acid Sulphate in Soil (PASS) with reference to the eSPADE online Acid Sulphate Soil Risk maps.

The Site is NOT mapped in a PASS area. The nearest mapped PASS as ***HM – High Probability, bottom Sediments*** is located >5 km southeast of the Site associated with alluvial and marine deposits surrounding Lake Illawarra. Hence, no further investigation or soil testing is considered necessary.

Figure 3: Potential Acid Sulphate Soil Map



Source: <https://www.environment.nsw.gov.au/eSpade2Webapp> (cited 5/12/2018)

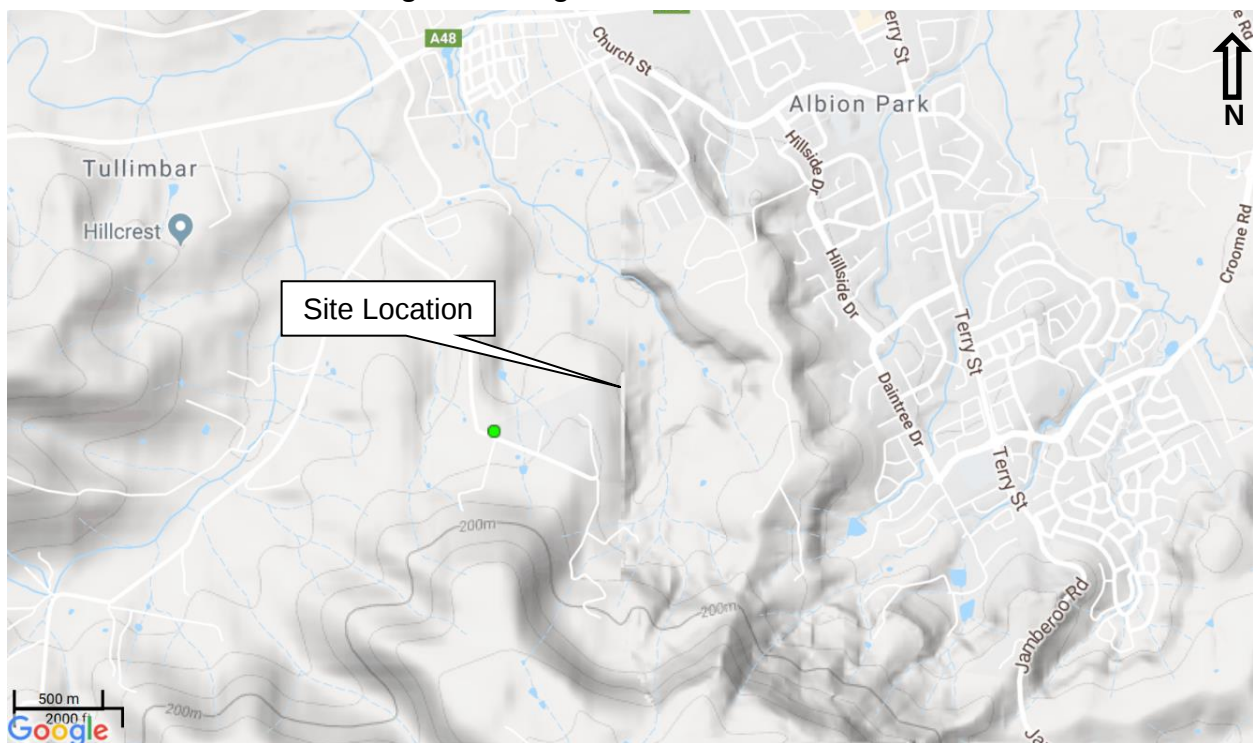
1.7 HYDROGEOLOGY

Based on the Site geology, groundwater in the area is expected to be associated with the following aquifer systems;

- *Shallow unconfined* systems hosted in the unconsolidated soil and clay, often ephemeral associated with rainfall recharge, with elevated salinity, and a shallow groundwater table generally less than 10 metres; and
- *Deep dual porosity aquifer (fractured and porous rock)* systems hosted in the underlying shales, claystone and sandstone with low to moderate yields, elevated salinity and standing water levels generally deeper than 10 metres

Review of the *WaterNSW* online registered bore database did not identify any groundwater bores within 1 km radius of the Site. The registered bore searches results are provided in **Figure 4** below.

Figure 4: Registered Bore Locations



Source: <https://realtimedata.watarnsw.com.au/water.stm> (cited 5/12/2018)

SITE HISTORY

1.8 PREVIOUS REPORTS

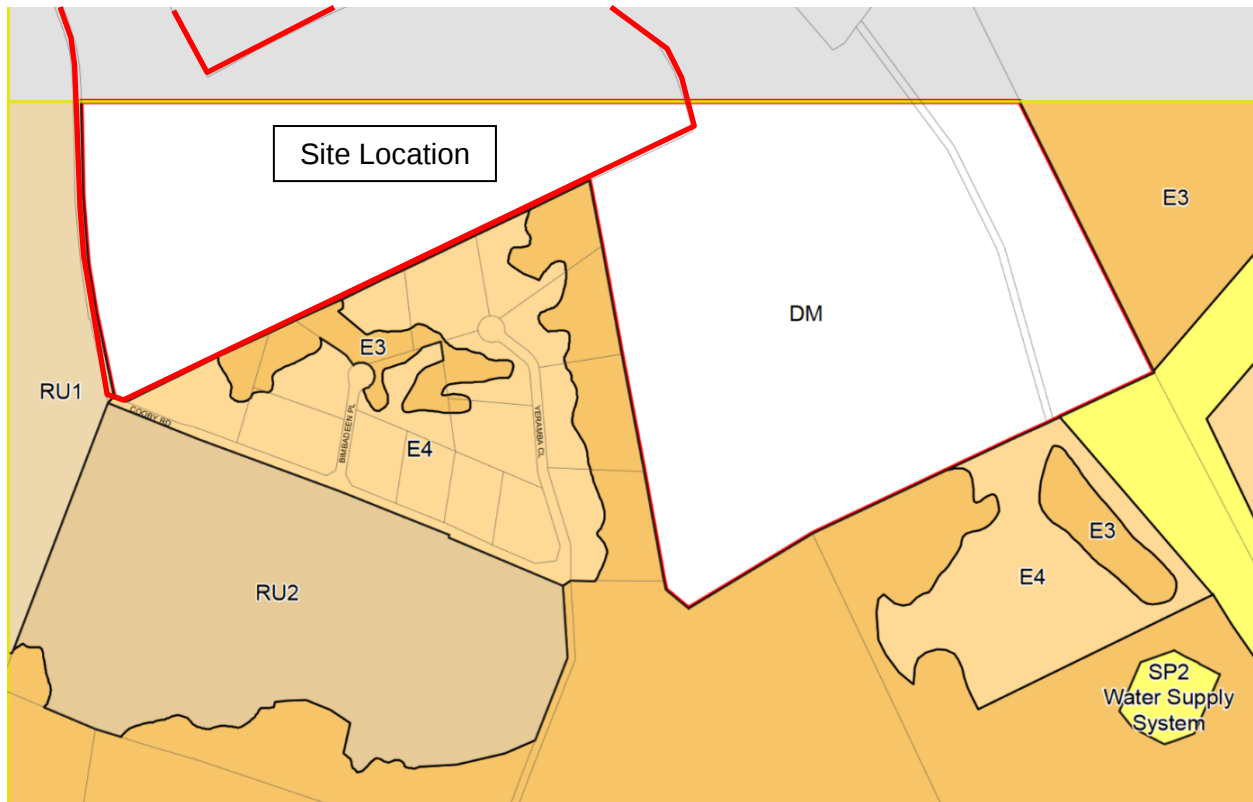
ENRS understands that the Site has not been the subject of any previous environmental assessments. Hence, no reports were available for review at the time of this assessment.

1.9 ZONING AND LAND USE

The Site is current zoning was identified as **DM – Deferred Matter** under the Shellharbour Local Environmental Plan (SLEP) 2013, as shown in **Figure 5**. The DM zoning indicates that the Site

is under review. The surrounding area is currently zoned as; Primary Production (RU1); Rural Landscape (RU2); Environmental Management (E3); and Environmental Living (E4).

Figure 5: Registered Bore Locations



Source: <https://legislation.nsw.gov.au/#/view/EPI/2013/141/maps#LZN> (cited 5/12/2018)

1.10 REVIEW OF COUNCIL RECORDS

A review of council records was not undertaken during this PSI. The review of historical information supported by Site inspections was considered adequate to identify any potential Areas of Environmental Concern (AECs).

1.11 HISTORICAL TITLES

A search of prior and cancelled land titles was undertaken to document the timeline of previous landowners and their occupation, which provides an indication of potential contaminating activities associated with previous land use. A summary of historical titles is provided in **Table 3** with a record of titles attached in **Appendix A**.

The title records indicate the Site has no history of development, or use for agriculture and industry. The historical records do not identify any sources of potential contamination.

Table 3: Summary of Historical Titles

12/03/1993	Folio Created - Edition 1 -
13/01/1997	Mortgage request (buyer not listed) – Edition 2
6/07/1998	Mortgage granted (buyer not listed) – Edition 3
19/05/2011	Mortgage discharge (buyer not listed) – Edition 4

1.12 HISTORICAL AERIAL IMAGERY

Historical aerial photographs of the Site area were reviewed to identify potential contaminating land use and relevant changes in site conditions. Copies of imagery are provided in **Appendix B**. The key observations made from aerial reconnaissance are summarised in the **Table 4**.

Table 4: Summary of Historical Aerial Photography

Year	Description of site condition and surrounding land use
1949	The Site comprised of mix of open paddocks and bushland. The bushland was limited to the sloping areas. No dams are visible over the property. The Site is surrounded by rural land with the closest residential dwelling approximately 400 metres north-west.
1984	No significant change since 1949. The surrounding area to the north showed evidence of further vegetation clearing.
1994	No Significant change since 1984. A single dam was installed within the centre area of the Site.
2014	No Significant change to the Site since 1984. The adjoining blocks to the south and north have been subdivided and developed for residential land use.

1.13 DANGEROUS GOODS RECORDS

A registered search of SafeWork NSW records for licences to keep dangerous goods was not required for the report, as the Site has not been subject to historical commercial/industrial use.

1.14 EPA RECORDS

A search of the NSW EPA Contaminated Land register was conducted to assess the potential for contaminated land in the area. The search did not identify records within the EPA database for Shellharbour LGA.

1.15 UNDERGROUND SERVICE PLANS

The location of underground services can provide conduits and preferential pathways for contaminant migration into or from a Site. Service excavations and trenches may also comprise historical Fill which may require management as waste.

A Dial Before You Dig (DBYD) search was undertaken to compile underground service plans. Given that the Site has never been developed all services were located along the western boundary along Cooby Road. Hence, the services are not considered to impact on the Site.

1.16 INTEGRITY ASSESSMENT

Where available this Site history assessment has utilised formal sources of information issued by local government (Council), SafeWork, NSW EPA, and NSW Land & Property Information. Review of the Site history summary demonstrates a consistent timeline of land use activities and layout with no significant data gaps or inconsistencies to trigger further historical investigations. Hence, the sources and content of this assessment maybe considered to provide a reliable and

satisfactory level of accuracy to support this Site history assessment and the identification of potential sources of environmental contamination.

SITE INSPECTION

A Site inspection was conducted by ENRS Environmental Consultant, Mr Taite Beeston, on the **6th December 2018**. Refer to **Appendix C** for a photographic log of Site conditions and field observations.

The inspection consisted of a Site walk over to confirm the Site boundaries, access, layout, surface conditions, land use, buildings, potential for Above ground Storage Tanks (AST) and Underground Storage Tanks (UST), and a preliminary assessment for uncontrolled Fill and waste.

1.17 SITE LAYOUT

The following points outline the site activities and layout identified at the time of this investigation. A site layout plan is provided in **Figure 6**.

The investigation area comprised of a large rural block comprising of both cleared and vegetated areas. Access to the Site was provided by an unsealed road off Cooby Road on the western boundary of the Site. This road passed through the centre of the Site providing access to the eastern and southern areas. Adjacent to the Site entry, a number of items were stored on the property, including; an old truck, shipping container, concrete drainpipes, two (2x) stockpiles of soil and gravel material, and a former demountable site shed. No hazardous materials or visual or olfactory evidence of contamination was observed within these items and materials. One (1) corrugated iron shed was also observed within this area. No materials were present within the shed which was observed to be no longer in use. No other structures were observed across the Site.

The larger Site area comprised of large open paddock areas and vegetated bushland. The bushland was generally confined to the steep sloped areas. Three (3) dams were noted. A small number of livestock were also observed. In general, the Site observations were consistent with the rural land use. No other evidence of previous development or potentially contaminating activities was observed.

1.18 BUILDINGS

A demountable building and small corrugated iron shed were located adjacent the entry of the Site. Both structures were empty. A preliminary inspection did not identify any hazardous materials.

1.19 SURFACE CONDITIONS

The property comprises of bushland and open paddock areas. The access track through the property was comprised of gravel and soil. No sealed surfaces were present at the Site. No oil or surface stains were noted to indicate a history of spills or chemical contamination.

1.20 LIQUID & SOLID WASTE

The Site inspection did not identify any stored liquid and solid waste.

1.21 ABOVE GROUND STORAGE TANK

No evidence of fill points, mounting or venting infrastructure was observed during the Site inspection. No evidence of AST's or UST's was noted.

1.22 ASBESTOS

The site inspection included visual investigations for asbestos containing materials (ACM). No ACM was identified at the Site.

1.23 LEAD PAINT & HAZARDOUS MATERIALS

Lead within domestic paints was restricted circa 1969 (AS/NZS 4361.2:2017). Given that no permeant buildings or structures were present at the Site, investigations for lead based paints were not conducted.

A visual inspection across the Site and specifically the storage area adjacent the Site entry did not detect any visual or olfactory evidence of contamination including but not limited to asbestos containing materials (ACM) and hydrocarbon products. Two (2) soil/gravel stockpiles approximately ~5 m³ each were observed within the storage area. The inspection did not include any intrusive investigations of the stockpiles. The surface of the stockpiles as observed comprised of soil and gravel material with some cement fragments. No ACM was observed on these stockpiles.

1.24 POTENTIALLY CONTAMINATED SOILS

Given the documented Site history for rural land use and observed Site conditions there is 'low' potential for the presence of significant ground contamination at the Site. No areas of Fill were observed across the Site. The two (2) stockpiles (~5 m³ each) located within the storage area comprised of soil, gravel and minor concrete fragments. No visual or olfactory evidence of contamination was observed on the surface of this material.

SITE CHARACTERISATION

The site history records document the Site has been used for rural purpose for an extended period of time comprising of paddocks and bushland. No former development or current infrastructure was identified at the Site. This preliminary site investigation has NOT identified any potential for significant ground contamination at the Site to trigger any further ground testing or assessment.

Based on the results of the historical searches and site inspections the Site condition is consistent with the documented history of rural land use and it is considered unlikely to pose a significant risk to the surrounding environment and health of future users of the Site. Therefore, the ***Site may be considered suitable for the proposed mixed residential land use.***

CONCLUSIONS AND RECOMMENDATIONS

Based on the results of the historical data and a site inspection, the following conclusions and recommendations have been provided:

- This Stage 1 PSI report documents a review of historical land use records and a Site inspection for 105 Cooby Road, NSW, 2527. ENRS understand the Site proposal is for sub-division for mixed residential land use;
- The Site history records document the Site has been used for rural purposes since circa 1949;
- The site history review did not identify any evidence of development or previous contaminating activity to trigger any further ground testing or environmental assessment;
- Review of EPA contaminated land records did not identify any areas of environmental concern in proximity to the Site;
- The Site walkover and inspections conducted on the 6th December 2018 confirmed the Site condition is consistent with the documented history of rural land use. The Site inspection did not identify any potential Areas of Environmental Concern (AECs);
- Based on the historical information provided in this report and observations made during the Site inspection, the Site ***may be considered suitable for the proposed sub-division and residential land use***;
- Should any change in Site conditions or incident occur which causes a potential environmental impact, a suitable environmental professional should be notified to further assess the Site and consider requirements for any additional assessment; and
- This report must be read in conjunction with the attached Statement of Limitations.

REFERENCES

- Australian Government National Water Commission (2012). Minimum Construction Requirements for Water Bores in Australia (third Edition).
- Australian Government (2011) National Health & Medical Research Council. National Resource Management Ministerial Council. National Water Quality Strategy. Australian Drinking Water Guidelines (v3.3 updated 2016).
- Australian Standard (1999) AS4482.2–1999: Guide to the investigation and sampling of sites with potentially contaminated soil – Volatile substances.
- Australian Standard (2005) AS4482.1–2005: Guide to the investigation and sampling of sites with potentially contaminated soil – Non-volatile and semi-volatile compounds.
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- NSW EPA (2015). Contaminated Land Management: Guidelines on the Duty to Report Contamination under the Contaminated Land Management Act 1997
- NSW EPA (2017). Contaminated Land Management: Guidelines for the NSW Site Auditor Scheme, 3rd ed.
- NSW Office of Environment and Heritage (OEH) (2011) Guidelines for Consultants Reporting on Contaminated sites. ISBN 0 7310 3892 4.
- Safe Work Australia (2016). How to Manage and Control Asbestos in the Workplace Code of Practice (version 3).
- Safe Work Australia (2016). How to Safely Remove Asbestos Code of Practice (version 2).
- WorkCover NSW (2014). Guidelines for Managing Asbestos in or on Soil.

LIMITATIONS

This report and the associated services performed by ENRS are in accordance with the scope of services set out in the contract between ENRS and the Client. The scope of services was defined by the requests of the Client, by the time and budgetary constraints imposed by the Client, and by the availability of access to Site.

ENRS derived the data in this report primarily from visual inspections, and, limited sample collection and analysis made on the dates indicated. In preparing this report, ENRS has relied upon, and presumed accurate, certain information provided by government authorities, the Client and others identified herein. The report has been prepared on the basis that while ENRS believes all the information in it is deemed reliable and accurate at the time of preparing the report, it does not warrant its accuracy or completeness and to the full extent allowed by law excludes liability in contract, tort or otherwise, for any loss or damage sustained by the Client arising from or in connection with the supply or use of the whole or any part of the information in the report through any cause whatsoever.

Limitations also apply to analytical methods used in the identification of substances (or parameters). These limitations may be due to non-homogenous material being sampled (i.e. the sample to be analysed may not be representative), low concentrations, the presence of 'masking' agents and the restrictions of the approved analytical technique. As such, non-statistically significant sampling results can only be interpreted as 'indicative' and not used for quantitative assessments.

The data, findings, observations, conclusions and recommendations in the report are based solely upon the state of Site at the time of the investigation. The passage of time, manifestation of latent conditions or impacts of future events (e.g. changes in legislation, scientific knowledge, land uses, etc) may render the report inaccurate. In those circumstances, ENRS shall not be liable for any loss or damage that may be occasioned directly or indirectly through the use of, or reliance on, the contents of the report.

This report has been prepared on behalf of and for the exclusive use of the Client, and is subject to and issued in connection with the provisions of the agreement between ENRS and the Client. ENRS accepts no liability or responsibility whatsoever and expressly disclaims any responsibility for or in respect of any use of or reliance upon this report by any third party or parties.

It is the responsibility of the Client to accept if the Client so chooses any recommendations contained within and implement them in an appropriate, suitable and timely manner.

FIGURES

Figure 6 Site Plan



ENRS

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Scale: **SB**
Revision: **A**
Source: **SIX Maps**

Status: **1**
Drawn: **TB**
Approved: **TB**

Client: **INDESCO**
Project: **ENRS1187**
Location: **105 Cooby Road, Tullimabr, NSW**

Title: **Site Plan**
Date: **6/12/2018**
Figure: **6**

APPENDICES

Appendix A

Historical Titles

NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH
-----SEARCH DATE

7/12/2018 9:28AM

FOLIO: 240/828854

First Title(s): OLD SYSTEM

Prior Title(s): 24/111195

Recorded -----	Number -----	Type of Instrument -----	C.T. Issue -----
12/3/1993	DP828854	DEPOSITED PLAN	FOLIO CREATED EDITION 1
13/1/1997	2739546	REQUEST	EDITION 2
6/7/1998	5104285	MORTGAGE	EDITION 3
19/5/2011	AG243557	DISCHARGE OF MORTGAGE	EDITION 4

*** END OF SEARCH ***

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Order number: 54569427
Your Reference: ENRS1187
05/12/18 14:32



Prior Title

24/111195

Prior title search for title reference: 240/828854

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NEW SOUTH WALES LAND REGISTRY SERVICES - TITLE SEARCH
-----FOLIO: 240/828854

SEARCH DATE	TIME	EDITION NO	DATE
-----	----	-----	----
7/12/2018	9:51 AM	4	19/5/2011

LAND
-----LOT 240 IN DEPOSITED PLAN 828854
AT ALBION PARK
LOCAL GOVERNMENT AREA SHELLHARBOUR
PARISH OF JAMBEROO COUNTY OF CAMDEN
TITLE DIAGRAM DP828854FIRST SCHEDULE

TONI LYN HULME

SECOND SCHEDULE (1 NOTIFICATION)

1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)

NOTATIONS

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

PRINTED ON 7/12/2018

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Appendix B

Historical Aerial Photography

Historical Aerial Imagery – 105 Cooby Road, Tullimbar, NSW

1949 – Mixed cleared rural land and bushland. No structures on the Site.



1984 – Mixed cleared rural land and bushland. No structures on the Site. No significant changes since 1949.



1994— Mixed rural land and bushland. No structures on the Site. No significant change since 1984.



2014—Mixed rural land and bushland. No structures on the Site. No significant change at the Site since 1994. Residential dwellings were located on the southern and northern boundaries.



Appendix C

Photographic Record of Site Conditions

Photographic Record of Site Conditions 6/12/2018

Photograph 1: Western boundary area adjacent Cooby Road looking south



Photograph 2: Demoubtale site shed



Photograph 3: Corugated iron shed – no longer in use



Photograph 4: 2x Soil Stockpiles – soil, gravel, concrete



Photograph 4: Old Truck filled with plastic sheeting



Photograph 4: Container



Photograph 4: Access road condition



Photograph 4: Dam within maine drainage line/gully



Photograph 4: Access road and general Site conditions



Photograph 4: Dam within the middle of the Site



Photograph 4: General Site conditions



Photograph 4: General Site conditions

