Report on Preliminary Environmental Site Investigation with Limited Intrusive Investigation

Proposed Industrial Subdivision 59 - 63 Abbotts Road, Kemps Creek, NSW

Prepared for ESR Australia

Project 92352.00 August 2019



Integrated Practical Solutions



#### **Document History**

#### Document details

Project No.	92352.00	Document No.	R.001.Rev2				
Document title	Report on Preliminary Environmental Site Investigation with Limited						
	Intrusive Investig	Intrusive Investigation					
	Proposed Industrial Subdivision						
Site address	59 - 63 Abbotts Road, Kemps Creek, NSW						
Report prepared for	ESR Australia						
File name	92352.00.R.001.Rev2						

#### Document status and review

Status	Prepared by	Reviewed by	Date issued	Date issued	
Revision 0	Lizbeth Rodriguez	Dean Woods	14 June 2019		
Revision 1	Emily McGinty	Dean Woods	18 July 2019		
Revision 2	Lachlan Clement	Dean Woods	8 August 2019		

#### Distribution of copies

Status	Electronic	Paper	Issued to
Revision 0	1	0	ESR Australia - Mr Paul Jewiss
Revision 1	1	0	ESR Australia - Mr Paul Jewiss
Revision 2	1	0	ESR Australia - Mr Paul Jewiss

The undersigned, on behalf of Douglas Partners Pty Ltd, confirm that this document and all attached drawings, logs and test results have been checked and reviewed for errors, omissions and inaccuracies.

Signature	Date	
Author Cappy of	8 August 2019	
Reviewer pp for DW	8 August 2019	





1.       Introduction       1         2.       Scope of Works       1         3.       Site Background and Regional Mapping       2         3.1       Site Identification       2         3.2       Site Description       2         3.3       Surrounding Land Use       3         3.4       Topography       3         3.5       Regional Geology       3         3.6       Regional Solls       3         3.7       Hydrology and Hydrogeology       4         3.8       Acid Sulfate Soils       5         4.       Review of Site History Information       5         4.1       Review of Aerial Imageries       6         4.2       Regulatory (NSW EPA) Notices Search       8         4.3       Council Records Search       8         4.3.1       Statutory Notices and Licenses       8         4.3.2       Section 10.7 (2) & (5) Planning Certificates       9         5.       Site Walkover       9         5.       Site Walkover       11         5.1       Lot 11       11         5.2       Lot 12       12         6.       Results       13         6.1	Tab	le of Cor	ntents	Page					
3.1       Site Background and Regional Mapping.       22         3.1       Site Description.       22         3.2       Site Description.       2         3.3       Surrounding Land Use.       .3         3.4       Topography.       .3         3.5       Regional Geology.       .3         3.6       Regional Soils.       .3         3.7       Hydrology and Hydrogeology.       .4         3.8       Acid Sulfate Soils.       .5         4.       Review of Site History Information.       .5         4.1       Review of Aerial Imageries       .6         4.2       Regulatory (NSW EPA) Notices Search.       .8         4.2       Regulatory (NSW EPA) Notices and Licenses       .8         4.3.1       Statutory Notices and Licenses       .8         4.3.2       Section 10.7 (2) & (5) Planning Certificates.       .9         4.4       Review of Historical Title Deeds.       .9         5.       Site Walkover.       .11         5.1       Lot 11       .11         5.2       Lot 12       .2         6.       Results.       .3         7.       Analytical Results.       .13         8.1       Pr	1.	Introducti	ion	1					
3.1       Site Background and Regional Mapping       22         3.1       Site Description       2         3.2       Site Description       2         3.3       Surrounding Land Use       .3         3.4       Topography.       .3         3.5       Regional Geology       .3         3.6       Regional Soils       .3         3.7       Hydrology and Hydrogeology       .4         3.8       Acid Sulfate Soils       .5         4.       Review of Site History Information       .5         4.1       Review of Aerial Imageries       .6         4.2       Regulatory (NSW EPA) Notices Search       .8         4.2       Regulatory (NSW EPA) Notices and Licenses       .8         4.3.1       Statutory Notices and Licenses       .8         4.3.2       Section 10.7 (2) & (5) Planning Certificates       .9         4.4       Review of Historical Title Deeds       .9         5.       Site Walkover       .11         5.1       Lot 11       .11         5.2       Lot 12       .2         6.       Results       .13         6.1       Field Work Observations       .13         7.       Analytical R	2.		Scope of Works						
3.1       Site Identification.       22         3.2       Site Description.       23         3.3       Surrounding Land Use.       3         3.4       Topography.       3         3.5       Regional Soils.       3         3.6       Regional Soils.       3         3.7       Hydrology and Hydrogeology.       4         3.8       Acid Sulfate Soils.       5         4       Review of Site History Information.       5         4.1       Review of Aerial Imageries.       6         4.2       Regulatory (NSW EPA) Notices Search.       8         4.3       Council Records Search.       8         4.3       Council Records Search.       8         4.3.1       Statutory Notices and Licenses.       8         4.3.2       Section 10.7 (2) & (5) Planning Certificates.       9         5. Site Walkover.       11         5.1       Lot 11       11         5.2       Lot 12       12         6       Results.       13         6.1       Field Work Observations.       13         7.       Analytical Results.       14         7.1       Quality Assurance and Quality Control.       14	3.	Site Back	2						
3.3       Surrounding Land Use       .3         3.4       Topography       .3         3.5       Regional Geology       .3         3.6       Regional Soils       .3         3.7       Hydrology and Hydrogeology       .4         4.8       Acid Sulfate Soils       .5         4.       Review of Site History Information       .5         4.1       Review of Aerial Imageries       .6         4.2       Regulatory (NSW EPA) Notices Search       .8         4.3       Council Records Search       .8         4.3.1       Statutory Notices and Licenses       .8         4.3.2       Section 10.7 (2) & (5) Planning Certificates       .9         5.       Site Walkover       .9         5.       Site Walkover       .9         5.       Site Walkover       .9         6.       Results       .9         6.1       Field Work Observations       .1         7.       Analytical Results       .1         6.1       Field Work Observations       .13         7.       Analytical Results       .14         8.1       Preliminary Conceptual Site Model       .15         8.2       Potential Pathways									
3.4 Topography 3.5 Regional Geology 3.6 Regional Soils 3.7 Hydrology and Hydrogeology 4.8 Acid Sulfate Soils 5.7 Hydrology and Hydrogeology 4.9 Acid Sulfate Soils 5.7 Hydrology and Hydrogeology 5. Acid Sulfate Soils 6. 4.1 Review of Site History Information 6. 4.2 Regulatory (NSW EPA) Notices Search 7.		3.2 Sit	e Description	2					
3.5       Regional Geology       .3         3.6       Regional Soils       .3         3.7       Hydrology and Hydrogeology       .4         3.8       Acid Sulfate Soils       .5         4.       Review of Site History Information       .5         4.1       Review of Aerial Imageries       .6         4.2       Regulatory (NSW EPA) Notices Search       .8         4.3       Council Records Search       .8         4.3.1       Statutory Notices and Licenses       .8         4.3.2       Section 10.7 (2) & (5) Planning Certificates       .9         4.4       Review of Historical Title Deeds       .9         5.       Site Walkover       .11         5.1       Lot 11       .11         5.2       Lot 12       .12         6.       Results       .13         6.1       Field Work Observations       .13         7.       Analytical Results       .13         7.1       Quality Assurance and Quality Control       .14         8.1       Preliminary Conceptual Site Model       .14         8.1       Preliminary Conceptual Site Model       .14         8.2       Potential Areas / Sources of Environmental Concern       .15		3.3 Su	ırrounding Land Use	3					
3.6 Regional Soils		3.4 To	pography	3					
3.7 Hydrology and Hydrogeology 3.8 Acid Sulfate Soils. 5.4 Review of Site History Information		3.5 Re	egional Geology	3					
3.8       Acid Sulfate Soils       5.5         4.       Review of Site History Information       5.5         4.1       Review of Aerial Imageries       6.6         4.2       Regulatory (NSW EPA) Notices Search       8.8         4.3       Council Records Search       8.8         4.3.1       Statutory Notices and Licenses       8.8         4.3.2       Section 10.7 (2) & (5) Planning Certificates       9.9         4.4       Review of Historical Title Deeds       9.9         5.       Site Walkover       11         5.1       Lot 11       11         5.2       Lot 12       12         6.       Results       13         6.1       Field Work Observations       13         7.       Analytical Results       14         7.1       Quality Assurance and Quality Control       14         8.       Discussion       14         8.1       Preliminary Conceptual Site Model       15         8.2       Potential Areas / Sources of Environmental Concern       15         8.3       Potential Areas / Sources of Environmental Concern       15         8.4       Potential Pathways       17         8.5       Summary of Potential Complete Pathway		3.6 Re	egional Soils	3					
4.1       Review of Site History Information       .5         4.1       Review of Aerial Imageries       .6         4.2       Regulatory (NSW EPA) Notices Search       .8         4.3       Council Records Search       .8         4.3.1       Statutory Notices and Licenses       .8         4.3.2       Section 10.7 (2) & (5) Planning Certificates       .9         4.4       Review of Historical Title Deeds       .9         5.       Site Walkover       .11         5.1       Lot 11       .11         5.2       Lot 12       .12         6.       Results       .13         6.1       Field Work Observations       .13         7.       Analytical Results       .14         7.1       Quality Assurance and Quality Control       .14         8.1       Preliminary Conceptual Site Model       .15         8.2       Potential Areas / Sources of Environmental Concern       .15         8.3       Potential Pathways       .17         8.4       Potential Pathways       .17         9.       Conclusions and Recommendations       .18         10.       Limitations       .18         Appendix B:       Groundwater Bore Search		3.7 Hy	drology and Hydrogeology	4					
4.1       Review of Aerial Imageries       .6         4.2       Regulatory (NSW EPA) Notices Search       .8         4.3       Council Records Search       .8         4.3.1       Statutory Notices and Licenses       .8         4.3.2       Section 10.7 (2) & (5) Planning Certificates       .9         4.4       Review of Historical Title Deeds       .9         5.       Site Walkover       .11         5.1       Lot 11       .11         5.2       Lot 12       .12         6.       Results       .13         6.1       Field Work Observations       .13         7.       Analytical Results       .13         7.1       Quality Assurance and Quality Control       .14         8.       Discussion       .14         8.1       Preliminary Conceptual Site Model       .15         8.2       Potential Areas / Sources of Environmental Concern       .15         8.3       Potential Peceptors       .16         8.4       Potential Pathways       .17         8.5       Summary of Potential Complete Pathways       .17         9.       Conclusions and Recommendations       .18         10.       Limitations       .19		3.8 Ac	id Sulfate Soils	5					
4.2       Regulatory (NSW EPA) Notices Search       8         4.3       Council Records Search       8         4.3.1       Statutory Notices and Licenses       8         4.3.2       Section 10.7 (2) & (5) Planning Certificates       9         4.4       Review of Historical Title Deeds       9         5.       Site Walkover       11         5.1       Lot 11       11         5.2       Lot 12       12         6.       Results       13         6.1       Field Work Observations       13         7.       Analytical Results       14         7.1       Quality Assurance and Quality Control       14         8.       Discussion       14         8.1       Preliminary Conceptual Site Model       15         8.2       Potential Areas / Sources of Environmental Concern       15         8.3       Potential Receptors       16         8.4       Potential Receptors       16         8.4       Potential Pathways       17         9.       Conclusions and Recommendations       18         10.       Limitations       19         Appendix B:       Groundwater Bore Search         Appendix B:       Counc	4.	Review o	of Site History Information	5					
4.3.1       Statutory Notices and Licenses       8         4.3.1.2       Section 10.7 (2) & (5) Planning Certificates       9         4.4.4       Review of Historical Title Deeds       9         5.       Site Walkover       11         5.1       Lot 11       11         5.2       Lot 12       12         6. Results       13         6.1       Field Work Observations       13         7.       Analytical Results       14         7.1       Quality Assurance and Quality Control       14         8.       Discussion       14         8.1       Preliminary Conceptual Site Model       15         8.2       Potential Areas / Sources of Environmental Concern       15         8.3       Potential Receptors       16         8.4       Potential Pathways       17         8.5       Summary of Potential Complete Pathways       17         9.       Conclusions and Recommendations       18         10.       Limitations       19         Appendix A:       Drawings 1 to 3         Appendix B:       Groundwater Bore Search         Appendix B:       Groundwater Bore Search         Appendix F:       Title Deeds <tr< td=""><td></td><td>4.1 Re</td><td>eview of Aerial Imageries</td><td>6</td></tr<>		4.1 Re	eview of Aerial Imageries	6					
4.3.1       Statutory Notices and Licenses       8         4.3.2       Section 10.7 (2) & (5) Planning Certificates       9         4.4       Review of Historical Title Deeds       9         5.       Sitte Walkover       11         5.1       Lot 11       11         5.2       Lot 12       12         6.       Results       13         6.1       Field Work Observations       13         7.       Analytical Results       13         7.       Analytical Results       13         7.1       Quality Assurance and Quality Control       14         8.       Discussion       14         8.1       Preliminary Conceptual Site Model       15         8.2       Potential Areas / Sources of Environmental Concern       15         8.3       Potential Receptors       16         8.4       Potential Pathways       17         8.5       Summary of Potential Complete Pathways       17         9.       Conclusions and Recommendations       18         10.       Limitations       19         Appendix A:       Drawings 1 to 3         Appendix B:       Groundwater Bore Search         Appendix B:       Council Records Se		4.2 Re	egulatory (NSW EPA) Notices Search	8					
4.3.2 Section 10.7 (2) & (5) Planning Certificates       9         4.4 Review of Historical Title Deeds       9         5. Site Walkover       11         5.1 Lot 11       11         5.2 Lot 12       12         6. Results       13         6.1 Field Work Observations       13         7. Analytical Results       14         7.1 Quality Assurance and Quality Control       14         8. Discussion       14         8.1 Preliminary Conceptual Site Model       15         8.2 Potential Areas / Sources of Environmental Concern       15         8.3 Potential Receptors       16         8.4 Potential Pathways       17         9. Conclusions and Recommendations       17         10. Limitations       18         10. Limitations       19         Appendix A: Drawings 1 to 3         Appendix B: Groundwater Bore Search         Appendix B: Groundwater Bore Search         Appendix C: Historical Aerial Photographs         Appendix F: Title Deeds         Appendix F: Title Deeds         Appendix G: Photographic Plates         Appendix H: Soil Logs         Appendix I: Summary Tables         Appendix S: DQO and QA/QC		4.3 Co	ouncil Records Search	8					
4.4       Review of Historical Title Deeds       9         5.       Site Walkover       11         5.1       Lot 11       11         5.2       Lot 12       12         6.       Results       13         6.1       Field Work Observations       13         7.       Analytical Results       14         7.1       Quality Assurance and Quality Control       14         8.       Discussion       14         8.1       Preliminary Conceptual Site Model       15         8.2       Potential Areas / Sources of Environmental Concern       15         8.3       Potential Receptors       16         8.4       Potential Pathways       17         8.5       Summary of Potential Complete Pathways       17         9.       Conclusions and Recommendations       18         10.       Limitations       18         Appendix A:       Drawings 1 to 3         Appendix B:       Groundwater Bore Search         Appendix C:       Historical Aerial Photographs         Appendix E:       Council Records Search         Appendix G:       Photographic Plates         Appendix H:       Soil Logs         Appendix I:       S		4.3	3.1 Statutory Notices and Licenses	8					
5. Site Walkover       11         5.1 Lot 11       11         5.2 Lot 12       12         6. Results       13         6.1 Field Work Observations       13         7. Analytical Results       14         7.1 Quality Assurance and Quality Control       14         8. Discussion       14         8.1 Preliminary Conceptual Site Model       15         8.2 Potential Areas / Sources of Environmental Concern       15         8.3 Potential Receptors       16         8.4 Potential Pathways       17         8.5 Summary of Potential Complete Pathways       17         9. Conclusions and Recommendations       18         10. Limitations       18         Appendix A: Drawings 1 to 3       Appendix B: Groundwater Bore Search         Appendix C: Historical Aerial Photographs       Appendix C: Historical Aerial Photographs         Appendix E: Council Records Search       Appendix E: Council Records Search         Appendix G: Photographic Plates       Appendix F: Title Deeds         Appendix H: Soil Logs       Appendix I: Summary Tables         Appendix J: Laboratory Analytical Report       Appendix K: DQO and QA/QC		4.3	3.2 Section 10.7 (2) & (5) Planning Certificates	9					
5.1       Lot 11		4.4 Re	eview of Historical Title Deeds	9					
5.2       Lot 12       12         6.       Results       13         6.1       Field Work Observations       13         7.       Analytical Results       14         7.1       Quality Assurance and Quality Control       14         8.       Discussion       14         8.1       Preliminary Conceptual Site Model       15         8.2       Potential Areas / Sources of Environmental Concern       15         8.3       Potential Receptors       16         8.4       Potential Pathways       17         8.5       Summary of Potential Complete Pathways       17         9.       Conclusions and Recommendations       18         10.       Limitations       19         Appendix A:       Drawings 1 to 3         Appendix B:       Groundwater Bore Search         Appendix C:       Historical Aerial Photographs         Appendix D:       NSW EPA Searches         Appendix E:       Council Records Search         Appendix G:       Photographic Plates         Appendix H:       Soil Logs         Appendix J:       Laboratory Analytical Report         Appendix K:       DQO and QA/QC	5.	Site Walk	kover	11					
6. Results       13         6.1 Field Work Observations       13         7. Analytical Results       14         7.1 Quality Assurance and Quality Control       14         8. Discussion       14         8.1 Preliminary Conceptual Site Model       15         8.2 Potential Areas / Sources of Environmental Concern       15         8.3 Potential Receptors       16         8.4 Potential Pathways       17         8.5 Summary of Potential Complete Pathways       17         9. Conclusions and Recommendations       18         10. Limitations       18         10. Limitations       19         Appendix A: Drawings 1 to 3       Appendix B: Groundwater Bore Search         Appendix C: Historical Aerial Photographs       Appendix C: Historical Aerial Photographs         Appendix E: Council Records Search       Appendix E: Council Records Search         Appendix F: Title Deeds       Appendix G: Photographic Plates         Appendix H: Soil Logs       Appendix I: Summary Tables         Appendix J: Laboratory Analytical Report       Appendix K: DQO and QA/QC		5.1 Lo	t 11	11					
6.1 Field Work Observations		5.2 Lo	t 12	12					
7. Analytical Results	6.	Results		13					
7.1 Quality Assurance and Quality Control		6.1 Fie	eld Work Observations	13					
8. Discussion	7.	Analytica	ll Results	14					
8.1 Preliminary Conceptual Site Model		7.1 Qu	uality Assurance and Quality Control	14					
8.2 Potential Areas / Sources of Environmental Concern 15 8.3 Potential Receptors 16 8.4 Potential Pathways 17 8.5 Summary of Potential Complete Pathways 17 9. Conclusions and Recommendations 18 10. Limitations 19  Appendix A: Drawings 1 to 3 Appendix B: Groundwater Bore Search Appendix C: Historical Aerial Photographs Appendix D: NSW EPA Searches Appendix E: Council Records Search Appendix F: Title Deeds Appendix G: Photographic Plates Appendix H: Soil Logs Appendix I: Summary Tables Appendix J: Laboratory Analytical Report Appendix K: DQO and QA/QC	8.	Discussion	on	14					
8.3 Potential Receptors									
8.4 Potential Pathways									
8.5 Summary of Potential Complete Pathways		8.3 Po	tential Receptors	16					
9. Conclusions and Recommendations		8.4 Po	tential Pathways	17					
Appendix A: Drawings 1 to 3 Appendix B: Groundwater Bore Search Appendix C: Historical Aerial Photographs Appendix D: NSW EPA Searches Appendix E: Council Records Search Appendix F: Title Deeds Appendix G: Photographic Plates Appendix H: Soil Logs Appendix I: Summary Tables Appendix J: Laboratory Analytical Report Appendix K: DQO and QA/QC			· · · · · · · · · · · · · · · · · · ·						
Appendix A: Drawings 1 to 3  Appendix B: Groundwater Bore Search  Appendix C: Historical Aerial Photographs  Appendix D: NSW EPA Searches  Appendix E: Council Records Search  Appendix F: Title Deeds  Appendix G: Photographic Plates  Appendix H: Soil Logs  Appendix I: Summary Tables  Appendix J: Laboratory Analytical Report  Appendix K: DQO and QA/QC	9.	Conclusion	ons and Recommendations	18					
Appendix B: Groundwater Bore Search Appendix C: Historical Aerial Photographs Appendix D: NSW EPA Searches Appendix E: Council Records Search Appendix F: Title Deeds Appendix G: Photographic Plates Appendix H: Soil Logs Appendix I: Summary Tables Appendix J: Laboratory Analytical Report Appendix K: DQO and QA/QC	10.	Limitation	าร	19					
Appendix B: Groundwater Bore Search Appendix C: Historical Aerial Photographs Appendix D: NSW EPA Searches Appendix E: Council Records Search Appendix F: Title Deeds Appendix G: Photographic Plates Appendix H: Soil Logs Appendix I: Summary Tables Appendix J: Laboratory Analytical Report Appendix K: DQO and QA/QC	A	م مطائد ۸ د	Drawin and 4 to 2						
Appendix C: Historical Aerial Photographs Appendix D: NSW EPA Searches Appendix E: Council Records Search Appendix F: Title Deeds Appendix G: Photographic Plates Appendix H: Soil Logs Appendix I: Summary Tables Appendix J: Laboratory Analytical Report Appendix K: DQO and QA/QC			-						
Appendix D: NSW EPA Searches  Appendix E: Council Records Search  Appendix F: Title Deeds  Appendix G: Photographic Plates  Appendix H: Soil Logs  Appendix I: Summary Tables  Appendix J: Laboratory Analytical Report  Appendix K: DQO and QA/QC									
Appendix E: Council Records Search Appendix F: Title Deeds Appendix G: Photographic Plates Appendix H: Soil Logs Appendix I: Summary Tables Appendix J: Laboratory Analytical Report Appendix K: DQO and QA/QC									
Appendix F: Title Deeds  Appendix G: Photographic Plates  Appendix H: Soil Logs  Appendix I: Summary Tables  Appendix J: Laboratory Analytical Report  Appendix K: DQO and QA/QC									
Appendix G: Photographic Plates  Appendix H: Soil Logs  Appendix I: Summary Tables  Appendix J: Laboratory Analytical Report  Appendix K: DQO and QA/QC	App	endix E:							
Appendix H: Soil Logs Appendix I: Summary Tables Appendix J: Laboratory Analytical Report Appendix K: DQO and QA/QC	App	endix F:	Title Deeds						
Appendix I: Summary Tables  Appendix J: Laboratory Analytical Report  Appendix K: DQO and QA/QC	App	endix G:	Photographic Plates						
Appendix J: Laboratory Analytical Report  Appendix K: DQO and QA/QC	App	endix H:	Soil Logs						
Appendix J: Laboratory Analytical Report  Appendix K: DQO and QA/QC	App	endix I:	Summary Tables						
Appendix K: DQO and QA/QC									
••									
			About this Report						



# Report on Preliminary Environmental Site Investigation with Limited Intrusive Investigation

#### **Proposed Industrial Subdivision**

59 - 63 Abbotts Road, Kemps Creek, NSW

#### 1. Introduction

Douglas Partners Pty Ltd (DP) was commissioned by ESR CIP Constructions (NSW) Pty Ltd to prepare a Preliminary Environmental Site Investigation (PSI) with limited intrusive investigation for the proposed industrial subdivision at 59 – 63 Abbotts Road, Kemps Creek, NSW (the site) located within the Local Government Area of Penrith City Council ('Council'). The scope of the investigation comprised a site walkover and desktop assessment of potential site contamination and was carried out in accordance with Douglas Partners' proposal MAC190137, dated 20 May 2019. The location of the site is shown on Drawing 1, Appendix A.

The objectives of the PSI were to review available current and historical site information to identify key past or present potentially contaminating activities and to provide a preliminary assessment of the contamination status of the site with respect to the proposed development. DP is not aware of any previous contamination investigation undertaken at the site.

This PSI has been prepared with reference to NSW EPA guidelines under the *Contaminated Land Management (CLM) Act* 1997, NSW *State Environmental Planning Policy No. 55 - Remediation of Land* (SEPP 55) and NSW EPA endorsed guidelines, in particular the National Environment Protection Council National *Environment Protection (Assessment of Site Contamination) Measure*, 1999, as amended 2013 (NEPC, 2013).

#### 2. Scope of Works

The following scope of work was carried out:

- Review of local topographic, soil, geological, salinity and acid sulfate soils mapping;
- Search of the NSW EPA Land Information records for any statutory notices or licences current on any parts of the site or nearby surrounds under the Contaminated Land Management Act 1997 and the Protection of the Environment Operations Act 1997 of relevance to the site;
- Search for groundwater bores on or adjacent to the site registered with the NSW Office of Water;
- Review of historical aerial photographs and Nearmap Aerial Imagery to identify past/present land uses and potential areas of environmental concern (PAEC);
- Review of current title deeds;
- Review of available Council Records;
- Undertake a site walkover and mapping of PAEC;



- Sampling of 21 test pits targeting PAEC and the general site area. Two surface samples adjacent
  to power poles were also collected, using hand tools. Two bore holes were also completed as part
  of the geotechnical investigation and reported under separate cover. Select soil samples were
  analyses for a range of potential contaminants and assessed against relevant NEPC (2013)
  quideline values;
- Preparation of a preliminary conceptual site model (CSM); and
- Preparation of this PSI report outlining the methodology and findings of the investigation, and an assessment of potential contamination at the site.

#### 3. Site Background and Regional Mapping

#### 3.1 Site Identification

The site comprises two land parcels as described in Table 1 below.

**Table 1: Study Area Identification** 

Lot / Deposited Plan	Address Current Land Use		Approx. Area (ha)	
11 / 253503 (southern lot)	63 Abbotts Road		10.99	
12 / 253503 (northern lot)	59 – 62 Abbotts Road	Rural Residential/Agricultural		
	Total Approximate Area		22.15	

The site layout and lot boundaries are shown on Drawing 1, Appendix A.

#### 3.2 Site Description

The following site description is based on review of Nearmap Imagery and a site inspection completed by a DP Environmental Scientist on 11 June 2019.

The site comprises a roughly triangular shaped area with maximum north-south and east-west dimensions of approximately 570 m and 602 m respectively. The site comprises rural residential and agricultural land uses (pastoral and market gardens).

Approximately two thirds of the site was occupied with fields; the majority of fields on Lot 11 were used for the growing of various crops (see Section 5) whilst Lot 12 appeared to be largely used for pastoral purposes. Small structures comprising a pump shed and two storage sheds were located next to the fields on Lot 11. Three residencies and associated structures and seven farm dams were located within the site.



#### 3.3 Surrounding Land Use

The site inspection and a review of Nearmap imagery identified the following land uses surrounding the site:

- North: Rural residential properties and agricultural land use market gardens;
- East: Undeveloped pastoral land, farm dams and a rural residential property beyond;
- South: Undeveloped pastoral land; and
- West: Undeveloped pastoral land, large fabric greenhouses and a rural residential property beyond.

It should be noted that no interviews with land owners were completed as part of this investigation.

#### 3.4 Topography

The general topography of the site is hilly and slopes towards the west with an overall relief change of 40 m and an average gradient of approximately 6% (0.06°). The NSW Department of Lands, Topographic Map of NSW with 2 m elevation contours dated April 2009 indicates that the highest elevations within the site are located in the east where topography ranges from approximately 78 to 92 m AHD¹ and the lowest in the east (approximately 52 m AHD). Refer to Drawing 1, Appendix A.

#### 3.5 Regional Geology

Reference to the *Penrith 1:100 000 Geological Series Sheet* indicated that the entire site is underlain by Bringelly Shale (geological code "Rwb") of the Wianamatta Group of Middle Triassic Period. Bringelly Shale formation typically comprising shale, carbonaceous claystone, laminite, fine to medium grained lithic sandstone and some coal bands and tuff.

#### 3.6 Regional Soils

Reference to *The Penrith 1:100,000 Soil Landscape Series Sheet* indicates that the site is predominantly underlain by Luddenham soils (mapping unit lu) and potentially Blacktown (mapping unit bt) in the northwest portion of the site (refer to Figure 1 below for additional detail).

The Luddenham Soil Landscape is an erosional soil group characterised by undulating to rolling low hills on Wianamatta Group shales and often associated with Minchinbury Sandstone. Local relief is between 50 - 80 m and slopes from 5 - 20%. Typical landscape features include narrow ridges, hillcrests and valleys. The unit comprises three soil horizons that range from shallow dark podzolic soils to massive earthy clays on crests and moderately deep red podzolic soils on upper slopes. These soils are typically moderately reactive, with a high soil erosion hazard, and localised impermeable highly plastic subsoil.

\_

<sup>&</sup>lt;sup>1</sup> Relative to Australian Height Datum (AHD).



The Blacktown Soil Landscape is a residual soil group associated with the gently undulating slopes and broad rounded crests and ridges on the Wianamatta Group in the eastern part of the site. The unit comprises up to four soil horizons that range from shallow red-brown hard-setting sandy clay soils on crests and upper slopes to deep brown to yellow sand and clay soils overlying grey plastic mottled clay on mid to lower slopes. These soils are typically of low fertility, are moderately reactive and have a generally low wet bearing strength.

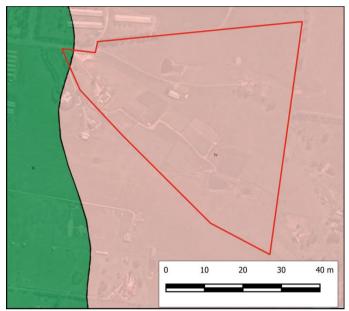


Figure 1: Regional Soil (Green - Blacktown Soil Landscape, Pink - Luddenham Soil Landscape)

#### 3.7 Hydrology and Hydrogeology

The site is traversed east to west by three small creeks which flow into an unknown perennial tributary of Kemps Creek which is located approximately 1.15 km west of the site and flows towards the north.

Groundwater investigations undertaken by DP in the region and for nearby sites underlain by the Wianamatta Group indicate that:

- The shales have a very low intrinsic permeability, hence groundwater flow is likely to be dominated by fracture flow with resultant low yields (typically <1 L/s) in bores; and
- The groundwater in the Wianamatta Group is typically brackish to saline with total dissolved solids (TDS) in the range 4000 - 5000 mg/L (but with cases of TDS up to 31,750 mg/L being reported). The dominant ions are typically sodium and chloride and the water being generally unsuitable for livestock or irrigation.

Groundwater is expected to flow towards the west, consistent with the general topography of the site and the surface flow regime (towards Kemps Creek). General features of the hydrogeology of western Sydney which are relevant to this site are described in the following and summarised further below:

 Old (1942) The Wianamatta Shale Waters of the Sydney District, NSW Agricultural Gazette, pp 215 - 221;



- Wooley (1991) 'Groundwater' in Jones DC and Clark NR (editors) Geology of the Penrith 1:100,000 sheet, pp 119 - 121. NSW Geological Survey, Sydney, 202p;
- McNally (2004) Shale, Salinity and Groundwater in Western Sydney, Australian Geomechanics 39(3), pp 109 123;
- McNally (2009) Soil and Groundwater Salinity in the Shales of Western Sydney, Groundwater in the Sydney Basin Symposium, International Association of Hydrogeologists, pp 228 - 235; and
- Russell G, McKibbin D, Williams J and G A Gates (2009) Groundwater Resource Assessment of the Triassic rocks of the Sydney Basin, Groundwater in the Sydney Basin Symposium, International Association of Hydrogeologists, pp 312 - 328.

The shale terrain of much of western Sydney is known for saline groundwater, resulting either from the release of connate salt in shales of marine origin or from the accumulation of windblown sea salt. Seasonal groundwater level changes of 1.0 m to 2.0 m can occur in a shallow regolith aquifer or a deeper shale aquifer due to natural influences.

A search of the NSW Department of Primary Industries (DPI) groundwater bore database confirms that no registered groundwater bores are located within 0.5 km of the site boundary. The nearest groundwater bores (GW 114294, GW 110569, GW 114295, GW 110570, GW 114296 and GW 110571) are located approximately 1.2 km southwest of the site, and are registered for monitoring purposes for a Caltex service station site located at that point. Groundwater data reports indicated that standing water levels (where available) were approximately 4.4 m below ground surface. Summary information from each bore is provided in Appendix B

#### 3.8 Acid Sulfate Soils

Review of NSW Government Office of Environment and Heritage Acid Sulfate Soils Risk mapping indicates that the site is classified as having 'no known occurrence of acid sulfate soil'.

#### 4. Review of Site History Information

A desktop review of site history information has been undertaken to identify PAEC and related contaminants of potential concern (COPC) which may arise from previous and current land uses. The desktop investigation was limited to the following:

- A review of current and historical aerial photographs;
- Section 10.7 planning certificates;
- Title deeds search;
- NSW EPA data base searches; and
- Review of available Council Records.

The following sections detail the methodology and findings of the desktop investigation.



#### 4.1 Review of Aerial Imageries

A review of historical aerial imageries from 1955, 1970, 1982, 1991 and 2002 (supplied by NSW Spatial Services), and Nearmap images from 2010 and 2019 have been completed to identify PAEC at the site. Aerial photographs are provided in Drawings C1 to C7 respectively (Appendix C). A summary of the review of historical aerial photography is detailed in Table 2.

Table 2: Summary of Review of Historical Aerial Photographs

Year	Site / Surrounds	Description
	Site	The site comprises vacant land, cleared of most trees; one dam was present covering an area approximately 0.31 ha; and no buildings.
1955	Surrounds	The surrounding area comprises pastoral and vacant land, three rural buildings are erected to the north and few dams are present.  An access road (Mamre Road - unsealed) runs north/south to the west of the site.
1970	Site	Two additional small dams have been constructed within the site, one along a drainage line in the northwest covering an area approximately 0.023 ha, and another one in the southeast of the site covering an area approximately 0.086 ha.
1970	Surrounds	The surrounding area shows little changes since the previous aerial photograph with the exception of the construction of two electricity transmission towers west of the site and four rural properties to the east of the site.
	Site	Two rural properties, access tracks and one shed has been built within the site.
		Fencing divides portions of the site into two separate lots.
1982		The transmission towers previously visible in the west have been removed.
	Surrounds	A house has been constructed to the immediate west of the site.
		Surrounding land use changes include the construction of Abbotts Road (unsealed), and a number of houses and dams.



Year	Site / Surrounds	Description
	Site	A swimming pool and a tennis court have been constructed adjacent to one of the dwellings in the northeast portion of the site.  Twelve power poles are identified adjacent to the houses within the residential dwellings. It is uncertain when the power poles were erected given the low resolution of the previous photographs.
1991		Three small farm dams are within the site, one along a drainage line in the northeast covering an area approximately 0.028 ha, a second one nearby to the tennis court covering an area approximately 0.01 ha; and a third one located in between of two properties covering an area approximately 0.057 ha.
	Surrounds	Market gardens have been established adjacent to the northwest outside the boundary.  Abbotts Road and Mamre Road have been sealed, agricultural land use is evident in the surrounds, no other noticeable changes are observed.
	Site	An additional dam has been constructed adjacent to another one already built in the south covering an area approximately 0.30 ha.  Agricultural land use is observed in lot 11 within the site.
2002	Surrounds	Additional green houses have been built adjacent to the northwest outside the boundary.  No other significant changes were observed on land surrounding the site.
	Site	Additional sheds have been placed adjacent to the dam in the northwest and an additional shed along the south western boundary.
2010	Surrounds	The establishment of commercial gardens to the northwest of the site and rural properties on the site surrounds continue to increase in density.
		No other significant changes were observed.  A temporary site compound has been created in the northwestern portion of the site.
April 2019	Site	Two stockpiles (likely soil) have been placed within the site. One adjacent to the compound located in the northwest corner of the compound, and the second one placed adjacent to the dam close to the compound.
	Surrounds	No additional changes were observed to the site and surrounds from the 2010 photograph.



#### 4.2 Regulatory (NSW EPA) Notices Search

A search of NSW EPA's contaminated site register, maintained under Section 58 of Contaminated Land Management (CLM) Act 1997, and a database of licenses, applications, notices and enforceable undertakings, maintained under Section 308 of the Protection of Environment Operation (POEO) Act 1997, was undertaken on 4 April 2019 (refer to Appendix D). A review of search results indicated the following:

- The site (or immediately adjacent properties) is not recorded on the list of NSW contaminated sites reported to the EPA. No notices or orders to investigate or remediate the site (or immediately adjacent properties) have been issued under the CLM Act, 1997. It is noted that this includes the Caltex site located to the south west of the site which is referenced in Section 3.7; and
- No environmental protection licences or notices/orders have been issued for the site or immediately adjacent sites) under the POEO Act, 1997.

It is to be noted that a number of commercial/industrial premises within Kemps Creek are listed in the POEO database. The listed premises are located more than 2 km northeast and south of the site (and therefore are not considered relevant for the site contamination assessment).

Search results are presented in Appendix D.

#### 4.3 Council Records Search

#### 4.3.1 Statutory Notices and Licenses

An informal request was also made on 28 May 2019 to Penrith City Council under the *Government Information (Public Access) Act 2009* for information relating to site history, development applications and potential contamination at the property. A review of information provided by the Council indicates the following:

• Extracts of permit approvals were provided and included the following:

#### Lot 11, D.P. 253503

- o A building permit (E/1478/80) dated 27 November 1980 to erect a garage;
- o A building permit (E/365/77) dated 30 May 1977 to erect a dwelling; and
- A building permit (E/377/76) dated 19 November 1976 to erect a dwelling.

#### Lot 12, D.P. 253503

- An approval (8633608) dated 29 March 2019 to renew the operation of an on-site sewage management system;
- o A notice to amend a building permit (E/1509/83) dated 15 September 1988 not approved for a modification of a garage/storeroom;
- o A building permit (E/595/84) dated 9 May 1984 to a construct a tennis court;
- o A building permit (E/1509/83) dated 15 November 1983 to erect a garage;



- o A building permit (E/820/79) dated 15 August 1979 to erect a dwelling;
- o A building permit (E/511/78) dated 22 June 1978 to construct a farm shed; and
- o A building permit (E/376/76) dated 19 November 1976 to erect a dwelling.

Council was unable to provide any other information regarding asbestos, site contamination or chemicals stored on the properties.

Documents provided by Council are presented in Appendix E.

#### 4.3.2 Section 10.7 (2) & (5) Planning Certificates

Section 10.7 (2) and (5) planning certificates issued by Penrith City Council on 29 May 2019 (refer to Appendix E) were reviewed and key findings are as follows:

• The site is zoned RU2 Rural Landscape under Penrith Local Environmental Plan (LEP) 2010.

With respect to Section 59(2) of the CLM Act, the Planning Certificates indicates that:

- The land <u>is not</u> significantly contaminated within the meaning of the CLM Act 1997;
- The land is not subject to a management order within the meaning of the CLM Act 1997;
- The land <u>is not</u> subject to an approved voluntary management proposal within the meaning of the CLM Act 1997;
- The land <u>is not</u> subject to an ongoing maintenance order within the meaning of the CLM Act 1997; and
- The land <u>is not</u> subject to a site audit statement within the meaning of the CLM Act 1997.

Furthermore, no building erected on this land has been identified in the loose-fill asbestos insulation register as containing loose-fill asbestos ceiling insulation. However, DP notes the site not being listed in the Loose-Fill Asbestos Insulation Register does not preclude the potential that loose fill asbestos may be present the site. Furthermore, it is noted in the planning certificates that the site is affected by the Asbestos Policy adopted by Council, which should be consulted in the management of asbestos at the site (e.g. removal of asbestos from structures or removal of any asbestos impacted soil, if relevant).

#### 4.4 Review of Historical Title Deeds

An historical title deeds search was used to obtain ownership and occupancy information including company names and the occupations of individuals for each lot. The ownership of both lots was shared between 1913 and 1977, after which ownership was separate.

A search of registered business names was undertaken to identify business types (where possible) and the search results have been incorporated into Tables 3 and 4 below, however available information was limited.



Table 3: Title Deeds as Regards Lot 11 D.P. 253503

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale	
25.08.1913	Sarah Thompson (Widow)	Daal: 4007 No 705	
(1913 to 1944)	(& her deceased estate)	Book 1007 No 765	
30.06.1944	Flotabor 9 Digitatt Dranvistan, Limitad (nassible gracer, foods cumplier)	Deals 40.40 No. 07.4	
(1944 to 1949)	Fletcher & Pickett Proprietary Limited (possible grocery foods supplier)	Book 1946 No 974	
17.03.1949 (1949 to 1960)	Littleham Proprietary Limited	Book 2080 No 255	
16.05.1960 (1960 to 1960)	Stockwell Holdings Proprietary Limited	Book 2531 No 203	
16.09.1960 (1960 to 1971)	Mainline Enterprises Proprietary Limited (now L.C. O'Neil Enterprises Pty. Limited)	Book 2545 No 99	
(1960 to 1971) 06.05.1971	(now E.C. O Neil Enterprises Fty. Limited)	Book 3009 No 357	
(1971 to 1973)	Unit Constructions Pty. Limited	Now: Vol 11968 Fol 173	
09.11.1973		Vol 11968 Fol 173	
(1973 to 1977)	Number One Fleurs Pty. Limited	Now Vol 13277 Fol 9	
18.07.1977	Vukosav Sekulic (Labourer)	Vol 13277 Fol 9	
(1977 to 1995)	(& ger deceased estate)	Now 11/253503	
20.01.1995	(& ger deceased estate)	NOW 11/255505	
(1995 to 2004)	Antanios Pty Ltd	11/253503	
21.09.2004	Said Antanios	11/253503	
(2004 to 2013)	Juliette Antanios	11/20000	
22.03.2013	# Gregory Clark		
(2013 to date)	# Cubicon Pty Ltd	11/253503	
(2013 to date)	(Transfer Under Power of Sale not investigated)		
25.08.1913	Sarah Thompson (Widow)	Book 1007 No 765	
(1913 to 1944)	(& her deceased estate)	BOOK 1007 NO 700	
30.06.1944	Fletcher & Pickett Proprietary Limited	Book 1946 No 974	
(1944 to 1949)	Trickerior at Token't Toprictary Elithica	BOOK 1040 140 074	
17.03.1949 (1949 to 1960)	Littleham Proprietary Limited	Book 2080 No 255	
16.05.1960 (1960 to 1960)	Stockwell Holdings Proprietary Limited	Book 2531 No 203	
16.09.1960	Mainline Enterprises Proprietary Limited	D1-054511 00	
(1960 to 1971)	(now L.C. O'Neil Enterprises Pty. Limited)	Book 2545 No 99	
06.05.1971	Heit Constructions Day Limited	Book 3009 No 357	
(1971 to 1973)	Unit Constructions Pty. Limited	Now Vol 11968 Fol 173	
09.11.1973	Number One Floure Pty Limited	Vol 11968 Fol 173	
(1973 to 1977)	Number One Fleurs Pty. Limited	Now Vol 13277 Fol 10	
26.09.1977	Robert Carl Guernier (Tyre Retailer)	Val 12277 Fal 10	
(1977 to 1980)	Jean Guernier (Married Woman)	Vol 13277 Fol 10	
10.09.1980	# John Gilbert Ciardi	Vol 13277 Fol 10	
(1980 to date)	# Margaret Catherine Ciardi	Now 12/253503	

<sup>#</sup> Denotes Current Registered Proprietor

A full copy of the search results are provided in Appendix F.



#### 5. Site Walkover

A site walkover was completed by DP on 11 June 2019. Key observations made during the walkover are outlined below and presented on Drawing 2 (Appendix A). Photographs taken during the walkover are provided in Appendix G.

#### 5.1 Lot 11

- Fly tipping of household rubbish (including white goods and furniture) was noted on the road reserve to the front (west) of lot 11 (Photograph 1);
- A site compound was observed in the western portion of the lot. Various materials were stored including three shipping containers (inside not inspected), treated timber, construction and demolition materials, scaffold/staging structures and wooden pallets. The site compound also contained a timber power pole with a main switchboard/meter box located in between two shipping containers. The soil in the compound seems to be a mixture of road base, gravel, sand and black asphalt (Photographs 2 to 4);
- A stockpile of soil containing some anthropogenic material (including concrete and treated timber) and organic material (stumps and other debris from logging) was noted to the east of the compound, adjacent to the dam (Photograph 5);
- The driveway from Abbots Road to the residence on Lot 11 comprised a mixture of road base, concrete, bricks and gravel (Photographs 6 to 7). The house was constructed of brick, concrete slaps and potentially asbestos-containing materials [ACM]) in the external eaves (Photograph 8). The shed to the immediate south west of the house appeared to be built with corrugated metal, treated timber and suspected panels of ACM in the walls and roofing (Photographs 9 to 10);
- Various materials were stored near to the house, including the following:
  - A large number of blue plastic drums labelled "Almond Base" were stored to the northwest and southeast of the house (Photographs 11 to 13). Where possible, the drums were inspected and all that were inspected appeared to be empty;
  - o A small boat and four motor vehicles were observed (Photograph 14);
  - o Five shipping containers were noted, three located to the northeast side of the house and two northwest (Photographs 14 to 15). The shipping containers appear to have been used to store construction materials and other inert materials:
  - o Three Intermediate Bulk Containers (IBC) and an industrial drum container of Propylene Glycol UPS Grade were observed adjacent to the shipping containers located northwest of the house on unconsolidated ground (Photographs 16 to 17);
  - o A septic tank was present adjacent to the east of the house (Photograph 18);
  - Numerous stockpiles and surface debris of various materials were noted including paper, treated timber, timber waste, glass, concrete, metal, tyres, concrete and demolition waste and white goods. Notable stockpiles are noted below (Photographs 19 to 25);
- To the west of the property (adjacent to the boundary) DP observed a cylindrical tank stored above ground. No labels were observed and it is not known what substance the tank was used for. An abandoned farm irrigation system was also observed (Photographs 26 to 27);



- More than half of the market gardens did not have produce at the time of the walkover, however chilli crops were observed. The irrigation system for the market gardens appear to be using dam water pumped from one of the sheds located to the southeast of the site;
- Three sheds were present in the western part of the site adjacent to the market gardens. Sheds were constructed of corrugated metal, fiberglass, metal sheeting and cement roof covering. ACM were observed in the construction materials for one of the sheds (Photograph 28). Two sheds were being utilised for general storage and packing, a toilet and a small generator were noted (Photographs 29 to 30). The shed located to the south of the site, adjacent to the big dam was being utilised as a water pump shed. Inside the shed were two generators, chemical and fuel containers including (YaraLiva Calcinit nitrogen and calcium fertilizer; Multi-K GG Greenhouse grade potassium nitrate; Mono-Ammonium Phosphate (MAP) and Granular urea). Adjacent to the shed, an IBC container with water was observed (Photographs 31 to 34);
- Three abandoned cars were observed next to the market gardens (Photographs 35 to 36);
- Occasional inert surficial waste (plastic crates, wooden crates, drip/irrigation pipes, metal, cardboard and polystyrene) was observed surrounding the sheds (Photographs 37 to 40); and
- To the northwest of the lot, a small cattle shed and a dam with what it seems to be loose asbestos pipe (PACM) were noted however the pipe could not be closely inspected to further assess the pipe contents (Photographs 41 to 42).

#### 5.2 Lot 12

- An area of potential filling was noted to the west of a dam located in the northwest portion
  of the site. Anthropogenic materials were scattered throughout this area, including construction
  and demolition materials, tyres, household waste and broken glass (Photographs 43 to 44);
- Brick and concrete was noted in the centre of the lot, to the east of the dam. Occasional scattered treated timber, tyres, concrete and bricks were also observed in this area (Photographs 45 and 46);
- A house and garages located at the eastern portion of the lot was abandoned at the time of the walkover. The structures appeared to be constructed of brick, and concrete slabs with suspected ACM eaves (Photographs 47 to 48);
- A septic tank was observed to the north of the house. Occasional brick and domestic rubbish was observed in the area (Photograph 49);
- A drainage pipe located below the main access road in the centre of the site was constructed with brick and concrete (Photograph 50);
- The house located near to the centre of the lot was occupied at the time of the walkover.
   The house and shed appeared to be primarily constructed of corrugated steel, bricks and possibly corrugated ACM panels (Photographs 51 to 52); and
- Thirteen timber power poles were observed within the lots 11 and 12 and two out of the thirteen power poles have a main switchboard/meter box (see Drawing 2, Appendix A for their locations).



#### 6. Results

Field work was carried out by a DP environmental scientist between 2 and 4 July 2019. Test pit and bore hole logs are included in Appendix H, together with notes defining classification methods and descriptive terms. A total of 21 test pits and two bore holes were sampled; and a total of 21 soil samples were tested, including one surface sample from next to a power pole located on the site. Soil investigation locations are shown on Drawing 3, Appendix A.

#### 6.1 Field Work Observations

The test pits encountered somewhat variable conditions underlying the site, however, the observed conditions were consistent with available regional mapping (see Sections 4.2 and 4.3). The succession of strata at the site is broadly summarised as follows:

- TOPSOIL: Topsoil comprising silty clay and rootlets was present in all test pits and boreholes with the exception of TP16, TP16DW and TP19 where filling was present;
- FILLING: Filling comprising silty clay was located in TP1, TP2, TP3, TP5, TP16, TP16DW and TP19 to depths of up to 2.3 m (TP1), i.e. in portions of the site near the western residence and along the northernmost creek line. Anthropogenic material was observed in some of these locations including:
  - o plastic, porcelain and construction and demolition rubble (TP1);
  - o bricks (TP2), charcoal (TP3);
  - o building rubble, asbestos containing material (ACM), ceramic tiles and brick (TP16); and
  - o brick, terracotta, plastic, metal and ACM (TP19).

#### REGOLITH:

- o SILTY CLAY: Stiff brown silty clay/clay with medium high plasticity was observed below topsoil and/or fill to depths of more than 2.5 m in most test pits excluding TP1, TP16DW and TP19 where test pits were terminated in fill; and
- o SANDY CLAY: Sandy clay was observed below silty clay to depths of 3 m + in TP9 TP11 and TP15, i.e. in the south east and east portions of the site.

#### BEDROCK:

- o SHALE / SILTSTONE: Low/very low strength weathered shale and siltstone was observed below silty clay between 0.7 and greater than 10.2 m in locations BH1, BH2, BH2A, BH3, BH4, BH5 and BH5A; and
- o SANDSTONE: very low strength sandstone was observed below silty clay between 0.8 and greater than 1.1 m in BH1 only, i.e. in the north east of the site.

Perched groundwater was observed in TP1 at 2.2 m depth and contained a nutrient 'sewage' like odour. With the exception of TP1, no free groundwater was observed in the pits or boreholes during excavation for the short time that they were left open. It is noted, however, that the pits and boreholes were immediately backfilled following excavation which precluded longer term assessment of any groundwater levels that might be present. Groundwater levels are affected by factors such as soil permeability and weather conditions and will vary with time.



#### 7. Analytical Results

The analytical results for the soil samples collected during the investigation are summarised in Appendix I, together with the adopted SAC<sup>2</sup>. Laboratory certificates of analysis are provided in Appendix J.

A total of 21 soil samples were analysed for a combination of heavy metals, TPH, BTEX, PAH, OCP, OPP, PCB, phenols and asbestos. One intra-laboratory replicate was analysed for heavy metals. Soil analytical results were below the laboratory practical quantitation limit (PQL) and/or the relevant criteria with the exception of the following:

- zinc in surface fill from TP16 (950 mg/kg) which exceeded the corresponding ecological criteria (440 mg/kg); and
- asbestos in surface filling from TP16 (detected).

#### 7.1 Quality Assurance and Quality Control

A review of the adopted QA/QC procedures and results (Appendix K) indicates that the Data Quality Indicators (DQIs) have generally been met. On this basis, the sampling and laboratory methods used during the investigation were found to meet Data Quality Objectives (DQOs) for this project.

#### 8. Discussion

The scope of the current investigation included a site walkover, a desktop study including site history records and a limited intrusive investigation to assess the potential for contamination to be present at the site and the associated potential contamination risk.

The desktop study, site walkover and review of history records identified possible areas of environmental concern including the following general types:

- Stockpiles;
- Filling;
- Timber power poles; and
- Hazardous building materials.

The above are generally consistent with the findings of previous contamination investigations for the current site and nearby sites of a similar history in the general South West Growth Centre region.

-

<sup>&</sup>lt;sup>2</sup> Developed based on NEPC (2013) guidelines for a commercial / industrial land use and using site specific soil conditions including soil matrix (clay), percentage clay content (average 40%), cation exchange capacity (assumed 5) and measured pH (7.2 average) from the geotechnical investigation carried out by DP.



The soil analytical results did not record impact above guideline values in soils next to one timber power pole tested as part of this investigation. Filling impacted with metals (zinc) and asbestos was identified in the westernmost portion of the site to the front of the residence located here. Review of recent Nearmap aerial photographs identifies that this portion of the site was subject to filling during and around 2009. Filling impacted with construction and demolition waste including asbestos was also identified in the gully connecting two dams located in Lot 12.

#### 8.1 Preliminary Conceptual Site Model

#### 8.2 Potential Areas / Sources of Environmental Concern

Based on the findings of the desktop searches undertaken as part of this report, the following PAEC were identified:

#### Hazardous Building Materials (PAEC1 - Source 1)

A review of historical aerial photographs identified that a number of houses and sheds (current and previous) had been constructed at the site.

Given that at least some of the structures were constructed during the late 1970s and early 1980s, there is potential for hazardous building materials to have been used in the construction and (in turn) there is potential for surface soils in the vicinity of the former structures to be impacted by hazardous building material. Principal related COPC include:

- Asbestos:
- Polychlorinated biphenyls (PCBs);
- Synthetic mineral fibre (SMF); and
- Heavy metals.

#### Chemical and Fuel Storage (PAEC2 – Source 2)

The former and current sheds identified in the review of historical aerial photographs, have been used for chemical and fuel storage. There is potential for contamination of surface soils in the vicinity of sheds as the result of spillages and storage malpractice. COPC associated with chemical and fuel storage includes:

- Total Recoverable Hydrocarbons (TRH);
- Benzene, toluene, ethylbenzene and xylenes (BTEX);
- Polycyclic aromatic hydrocarbons (PAHs);
- Phenols;
- PCBs;
- Heavy metals;
- Organochlorine pesticides (OCPs); and
- Organophosphate pesticides (OPPs).



#### Areas of Fill (PAEC 3 - Source 3)

Review of aerial photographs has identified areas where stockpiling of soils and suspected filling has occurred including:

 A stockpile of soil was placed to the northwest of the site (identified in the 2019 photograph and the site walkover), the stockpile includes some anthropogenic material (including concrete and treated timber) and organic material (stumps and other debris from logging).

There is potential for soil impact at the site from filling and demolition waste related COPC including:

- TRH;
- BTEX;
- PAHs;
- PCBs:
- Heavy metals (As, Cd, Cr, Cu, Pb, Hg, Ni and Zn);
- OCPs:
- OPPs; and
- Asbestos.

Filling impacted with asbestos and metals was identified in the westernmost portion of the site, to the west of the residence located here (Lot 11). Filling impacted with asbestos was also recorded in the gully connecting two dams on Lot 12.

#### Agricultural land use (PAEC4 - Source 4)

Nearmap photographs identified current agricultural land use at the site. There is the potential for contamination of surface soils in the locations of market gardens to be impacted with pesticide related COPC including:

- OCPs;
- · OPPs; and
- Metals.

Historical and Nearmap aerial photographs identified twelve power poles located on the site. Surface soils surrounding one power pole were sampled and analysed as part of the current investigation. Whilst no exceedances were recorded, further sampling should be carried out as part of a future DSI.

#### 8.3 Potential Receptors

The following potential human receptors (R) have been identified for the site:

- R1 Current site users (residents and farm labourers);
- R2 Construction and maintenance workers (during site redevelopment);
- R3 Future site users following development of the site (commercial); and
- R4 Land users in adjacent areas (residential and commercial).



The following potential ecological receptors (R) have been identified for the site:

- R5 Local groundwater, and receiving water bodies;
- R6 Surface water bodies (on-site and off-site dams and creeks); and
- R7 Local terrestrial ecosystems. DP notes that potential terrestrial ecosystem receptors are
  usually associated with the upper 2 m (root zone and habitation zone for many species) of the
  soil profile.

#### 8.4 Potential Pathways

Potential pathways for contamination include the following:

- P1 Ingestion and dermal contact;
- P2 Inhalation of fibres and/or dust and/or vapours;
- P3 Leaching of contaminants and vertical migration into groundwater;
- P4 Surface water run-off;
- P5 Lateral migration of groundwater providing base flow to watercourses; and
- P6 Direct contact with terrestrial ecosystem receptors.

#### 8.5 Summary of Potential Complete Pathways

A 'source - pathway - receptor' approach has been used to assess the potential risks of harm being caused to human or ecological receptors from contamination sources on or in the vicinity of the site, via exposure pathways. The possible pathways between the above sources (S1 to S5) and receptors (R1 to R7) are provided in Table 4 below. Assessment of the preliminary CSM was used to determine data gaps and the requirement for sampling and analysis to assess the suitability of the site for the proposed commercial/industrial use.

Table 4: Preliminary Conceptual Site Model

Potential Source	Exposure Pathway	Receptor	Requirement for Additional Data and/or Management
S1: Hazardous building materials	P1 – Ingestion and dermal contact; P2 – Inhalation of fibres	R1 – Current site users (residents and farm workers)	Given the identified potential contaminant sources, the initial fate
S2: Potential chemical storage	Potential chemical and/or dust and/or		(lay down mechanism) of most of the potential contaminants is likely to be expressed firstly in
S3: Filling S4: Power poles	contaminants and vertical migration into groundwater.	R3 – Future site users following development of the site.	surface soils.  An intrusive investigation is therefore required to
S5: Agricultural land use	P4 – Surface water run- off.	R4 – Land users in adjacent areas.	quantify and assess potential contamination impact to surface soils.



Potential Source	Exposure Pathway	Receptor	Requirement for Additional Data and/or Management
	P5 – Lateral migration of groundwater providing baseflow to watercourses.	undwater providing bodies.	(A further assessment of deeper soils and groundwater may be deemed necessary should significant
	P6 – Direct contact of contaminated ground with ecological receptors.		contamination be identified in surface soils).

#### 9. Conclusions and Recommendations

Localised filling impacted with metals and asbestos was recorded in the western portion of Lot 11 and filling impacted with asbestos in a gully on Lot 12 which will require further investigation and/or remediation prior to bulk earthworks. Notwithstanding the observed localised impact, based on the findings of this PSI, DP concludes that the potential for the presence of significant contamination constraints at the site with respect to the proposed industrial subdivision is considered to be generally low.

DP recommends that an intrusive investigation in the form of a Detailed Site Investigation (DSI) including delineation of metal and asbestos impact observed in this investigation is undertaken prior to bulk earthworks to ascertain whether or not each identified PAEC require further management and/or remediation prior to commencement of the development.

A hazardous building materials survey should be conducted for structures at the site prior to demolition. Demolition of structures containing hazardous building materials should be carried out by a licenced asbestos removal contractor (if required). After removal of existing structures, an inspection of the footprint should be conducted and (if considered to be required based on inspection) targeted soil sampling and analysis conducted to confirm the contamination status of the footprint.

Inert materials observed during the walkover associated with fly tipping are assumed to be surficial and therefore can be removed by earthworks contractors prior to the commencement of bulk earthworks.

A Remediation Action Plan (RAP) should be prepared by a suitably qualified environmental consultant to document how remediation and validation works will be carried out. If remediation is required, subsequent remediation and validation of any identified contamination (if any) should be carried out with reference to the RAP and the findings documented in a Validation Report. It is considered that the site could be rendered suitable for the proposed industrial subdivision, subject to further investigation and remediation, as required.



#### 10. Limitations

Douglas Partners Pty Ltd (DP) has prepared this report (or services) for this project at 59 - 63 Abbotts Road, Kemps Creek, NSW in accordance with DP's proposal MAC190137, dated 20 May 2019 and acceptance received from Paul Jewiss on behalf of ESR Australia (NSW) Pty Ltd dated 27 May 2019. The work was carried out under DP's Conditions of Engagement. This report is provided for the exclusive use of ESR Australia (NSW) Pty Ltd for this project only and for the purposes as described in the report. It should not be used by or relied upon for other projects or purposes on the same or other site or by a third party. Any party so relying upon this report beyond its exclusive use and purpose as stated above, and without the express written consent of DP, does so entirely at its own risk and without recourse to DP for any loss or damage. In preparing this report DP has necessarily relied upon information provided by the client and/or their agents.

The results provided in the report are indicative of the subsurface conditions on the site only at the specific sampling and/or testing locations, and then only to the depths investigated and at the time the work was carried out. Subsurface conditions can change abruptly due to variable geological processes and also as a result of human influences. Such changes may occur after DP's field testing has been completed.

DP's advice is based upon the conditions encountered during this investigation. The accuracy of the advice provided by DP in this report may be affected by undetected variations in ground conditions across the site between and beyond the sampling and/or testing locations. The advice may also be limited by budget constraints imposed by others or by site accessibility.

This report must be read in conjunction with all of the attached and should be kept in its entirety without separation of individual pages or sections. DP cannot be held responsible for interpretations or conclusions made by others unless they are supported by an expressed statement, interpretation, outcome or conclusion stated in this report.

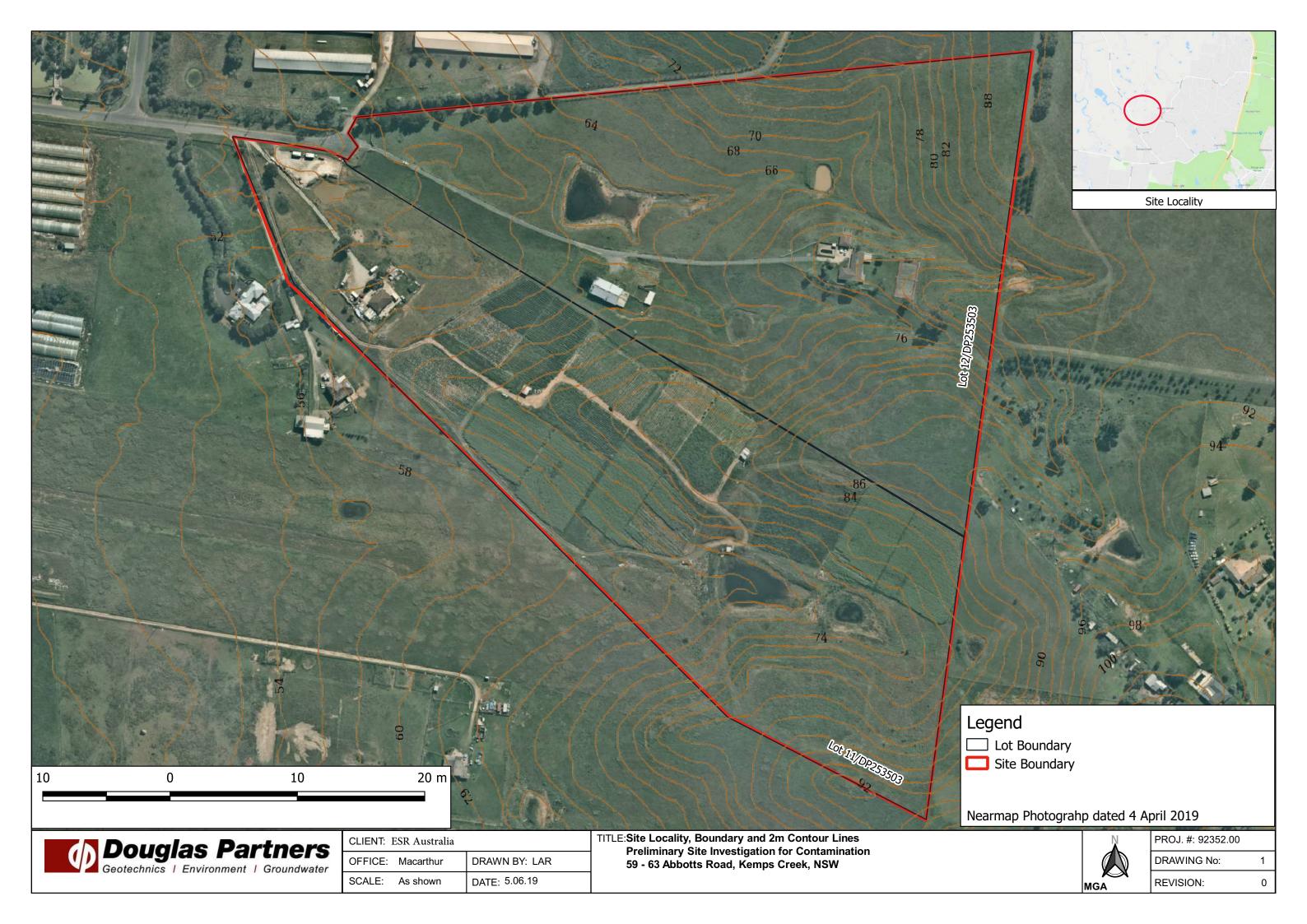
This report, or sections from this report, should not be used as part of a specification for a project, without review and agreement by DP. This is because this report has been written as advice and opinion rather than instructions for construction.

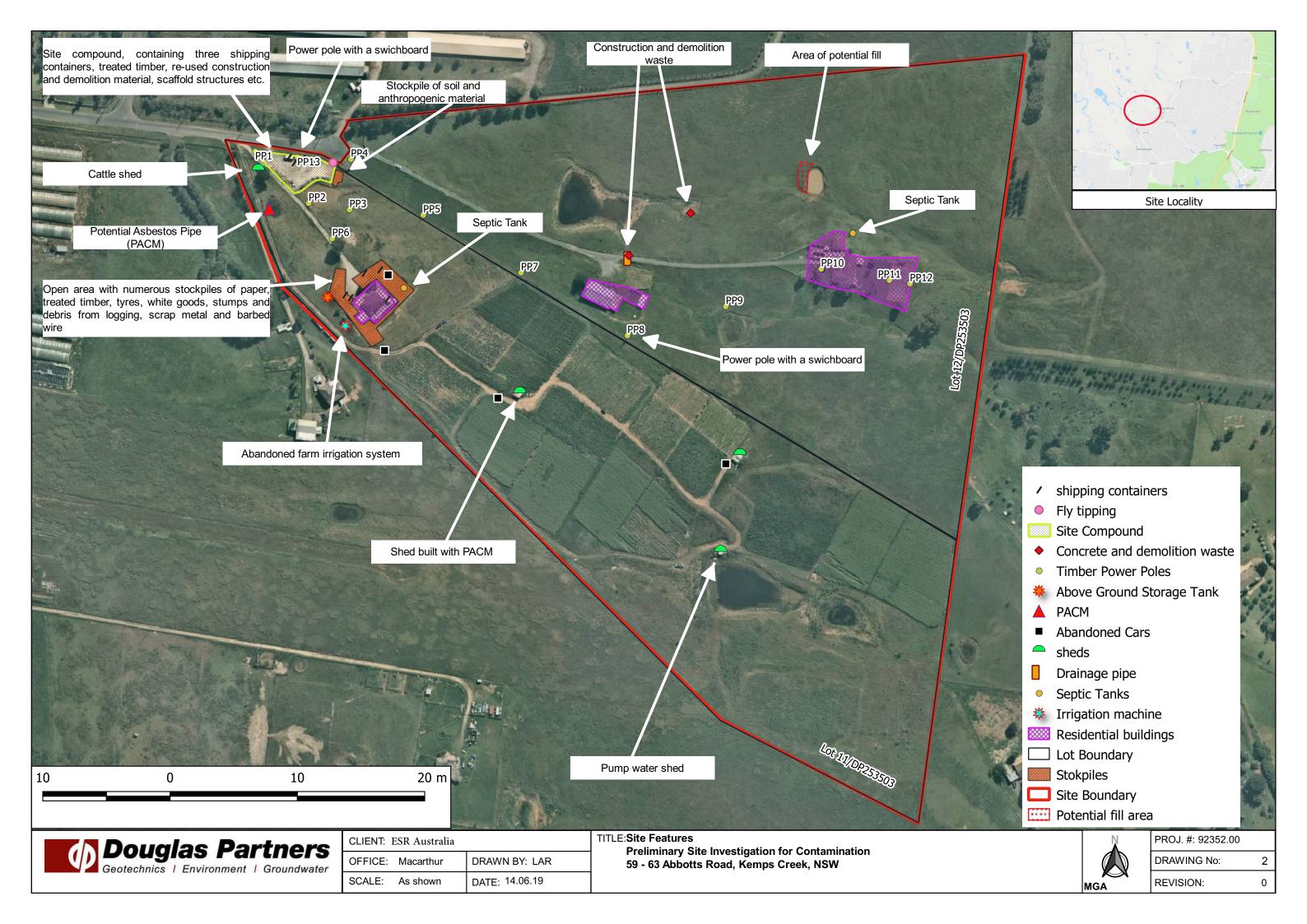
The contents of this report do not constitute formal design components such as are required, by the Health and Safety Legislation and Regulations, to be included in a Safety Report specifying the hazards likely to be encountered during construction and the controls required to mitigate risk. This design process requires risk assessment to be undertaken, with such assessment being dependent upon factors relating to likelihood of occurrence and consequences of damage to property and to life. This, in turn, requires project data and analysis presently beyond the knowledge and project role respectively of DP. DP may be able, however, to assist the client in carrying out a risk assessment of potential hazards contained in the Comments section of this report, as an extension to the current scope of works, if so requested, and provided that suitable additional information is made available to DP. Any such risk assessment would, however, be necessarily restricted to the environmental components set out in this report and to their application by the project designers to project design, construction, maintenance and demolition.

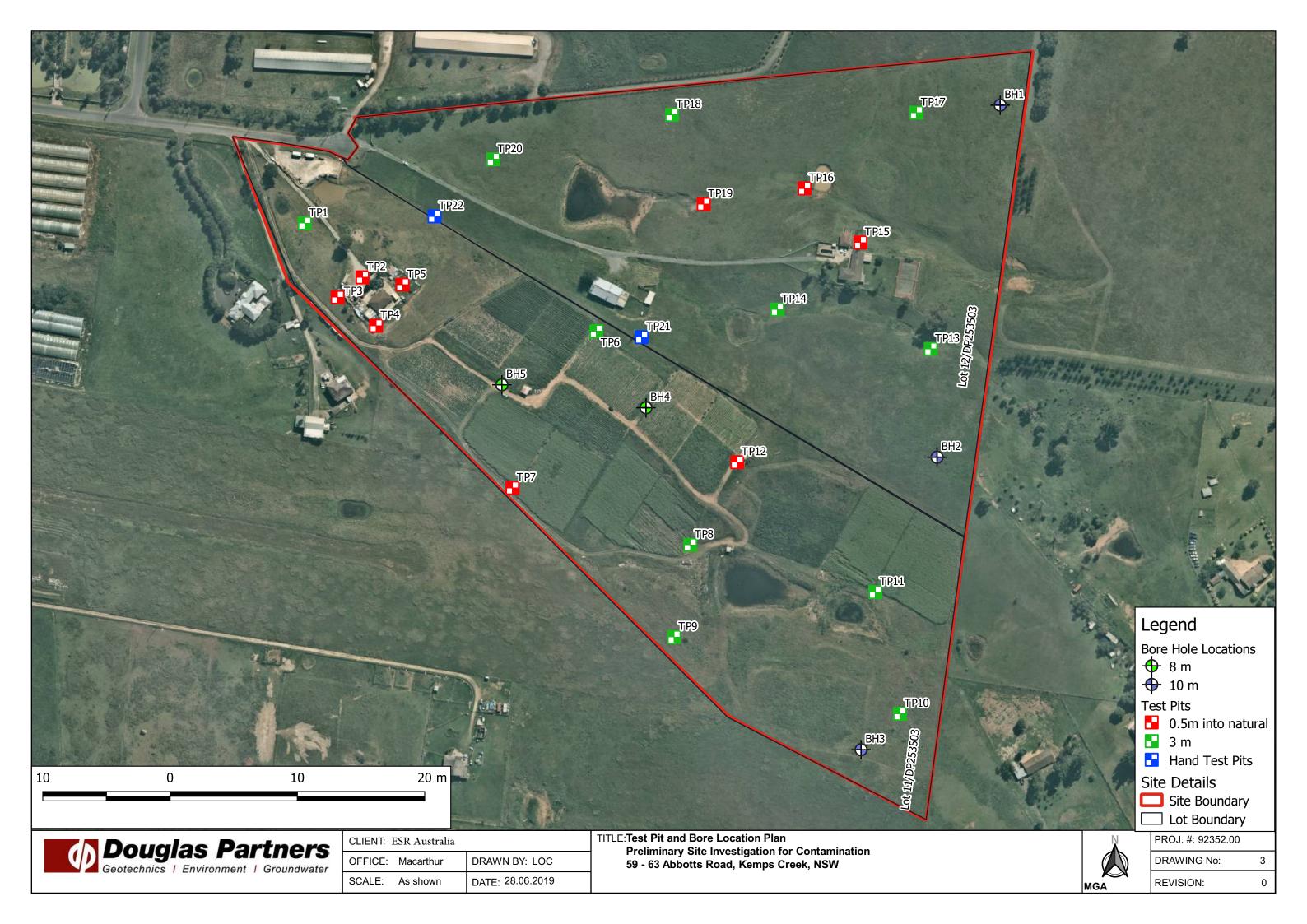
#### **Douglas Partners Pty Ltd**

## Appendix A

Drawings 1 to 3







# Appendix B

Groundwater Bore Search

# WaterNSW Work Summary

#### GW110569

Licence: 10BL603558 Licence Status: ACTIVE

Authorised Purpose MONITORING BORE

(s):

Intended Purpose(s): MONITORING BORE

Work Type: Bore Work Status:

Construct.Method: Auger - Solid

Owner Type: Private

Commenced Date: Final Depth: 6.00 m
Completion Date: 25/08/2009 Drilled Depth: 12.00 m

Contractor Name: (None)

**Driller:** Yoon Fook Chin **Assistant Driller:** Tony Cocca

Property: KARASMANIS 1163 Mamre Rd

Standing Water Level 4.400 (m):

KEMPS CREEK 2178 NSW

Salinity Description: Yield (L/s):

GWMA: -GW Zone: -

#### Site Details

Site Chosen By:

County Parish Cadastre
Form A: CUMBERLAND MELVILLE 10//30265
Licensed: CUMBERLAND MELVILLE Whole Lot
10//30265

Region: 10 - Sydney South Coast CMA Map:

River Basin: - Unknown Grid Zone: Scale:

Area/District:

 Elevation:
 0.00 m (A.H.D.)
 Northing:
 6250103.000
 Latitude:
 33°52'11.1"S

 Elevation:
 Unknown
 Easting:
 296228.000
 Longitude:
 150°47'49.2"E

Source:

GS Map: - MGA Zone: 56 Coordinate Unknown

Source:

#### Construction

Negative depths indicate Above Ground Level; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity; PL-Placement

of Gravel Pack; PC-Pressure Cemented; S-Sump; CE-Centralisers

Hole	Pipe	Component	Туре	From				Interval	Details
				(m)	(m)	Diameter (mm)	Diameter (mm)		
1		Hole	Hole	0.00	12.00	125			Auger - Solid Flight
1		Annulus	Waterworn/Rounded	3.00	6.00				Graded
1	1	Casing	Pvc Class 18	0.00	3.00	50	46		Driven into Hole, Screwed
1	1	Opening	Slots - Horizontal	3.00	6.00	50			Casing - Machine Slotted, PVC Class 18, Screwed

**Water Bearing Zones** 

From	То	Thickness	WBZ Type	S.W.L.	D.D.L.	Yield	Duration	Salinity
(m)	(m)	(m)		(m)	(m)	(L/s)	(hr)	(mg/L)
1								

						Hole Depth (m)		
4.00	6.00	2.00	Unknown	4.40				ı

#### **Drillers Log**

From	 	Drillers Description	Geological Material	Comments
(m) 0.00	 (m) 1 00	FILL. SILTY CLAY BROWN	Fill	
1.00		CLAY SILTY, BROWN	Silty Clay	

#### \*\*\* End of GW110569 \*\*\*

Warning To Clients: This raw data has been supplied to the NSW Office of Water by drillers, licensees and other sources. The NOW does not verify the accuracy of this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.

## **WaterNSW Work Summary**

#### GW110570

Licence Status: Licence:

**Authorised Purpose** 

Intended Purpose(s): MONITORING BORE

Work Type: Bore Work Status:

Construct.Method: Auger - Solid

Owner Type: Private

**Commenced Date:** Final Depth: 12.00 m Drilled Depth: 6.00 m Completion Date: 25/08/2009

Contractor Name: (None)

Driller: Yoon Fook Chin Assistant Driller: Tony Cocca

> Property: Standing Water Level 4.400

> > (m):

GWMA: **Salinity Description: GW Zone:** Yield (L/s):

#### Site Details

Site Chosen By:

County Parish Cadastre Form A: CUMBERLAND MELVILLE 10//30265

Licensed:

Region: 10 - Sydney South Coast

CMA Map:

River Basin: - Unknown Area/District:

Grid Zone: Scale:

Elevation: 0.00 m (A.H.D.) Northing: 6250107.000 **Elevation** Unknown **Easting:** 296204.000

Latitude: 33°52'10.9"S Longitude: 150°47'48.2"E

Source:

GS Map: -MGA Zone: 56 Coordinate Unknown

Source:

#### Construction

Negative depths indicate Above Ground Level; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity; PL-Placement of Gravel Pack; PC-Pressure Cemented; S-Sump; CE-Centralisers

I	Hole	Pipe	Component	Туре	From (m)			Inside Diameter	Interval	Details
					(,	(,	(mm)	(mm)		
ľ	1		Hole	Hole	0.00	12.00	125			Auger - Solid Flight
	1		Annulus	Waterworn/Rounded	3.00	6.00				Graded
	1	1	Casing	Pvc Class 18	0.00	3.00	50	46		Driven into Hole, Screwed
ſ	1	1	Opening	Slots - Horizontal	3.00	6.00	50			Casing - Machine Slotted, PVC Class 18. Screwed

**Water Bearing Zones** 

From	То	Thickness	WBZ Type	S.W.L.	D.D.L.	Yield	Hole	Duration	Salinity
(m)	(m)	(m)		(m)	(m)	(L/s)	Depth	(hr)	(mg/L)
ľ. <i>′</i>	. ,				` '	· ′	(m)		
	ĺ	ĺ				ĺ			ĺ

i	4.00	6.00	2.00	Unknown	<b>l</b> 4.40	l I	l	I	I	I	ı
- 1		0.00									1

### **Drillers Log**

From (m)		Thickness (m)	Drillers Description	Geological Material	Comments
0.00			FILL,SILTY CLAY,BROWN	Fill	
1.00	6.00	5.00	CLAY SILTY,BROWN	Clay Loam	

#### \*\*\* End of GW110570 \*\*\*

Warning To Clients: This raw data has been supplied to the NSW Office of Water by drillers, licensees and other sources. The NOW does not verify the accuracy of this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.

# WaterNSW Work Summary

#### GW110571

Licence: Licence Status:

**Authorised Purpose** 

(s):

Intended Purpose(s): MONITORING BORE

Work Type: Bore Work Status:

Construct.Method: Auger - Solid

Owner Type: Private

Commenced Date: Final Depth: 12.00 m
Completion Date: 25/08/2009 Drilled Depth: 6.00 m

Contractor Name: (None)

**Driller:** Yoon Fook Chin **Assistant Driller:** Tony Cocca

Property: Standing Water Level 4.400

(m):

GWMA: Salinity Description: GW Zone: Yield (L/s):

#### Site Details

Site Chosen By:

County Parish Cadastre
Form A: CUMBERLAND MELVILLE 10//30265

Licensed:

Region: 10 - Sydney South Coast CMA Map:

River Basin: - Unknown Grid Zone: Scale:

Area/District:

 Elevation:
 0.00 m (A.H.D.)
 Northing:
 6250065.000
 Latitude:
 33°52'12.3"S

 Elevation
 Unknown
 Easting:
 296179.000
 Longitude:
 150°47'47.2"E

Source:

GS Map: - MGA Zone: 56 Coordinate Unknown

Source:

#### Construction

Negative depths indicate Above Ground Level; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity; PL-Placement of Gravel Pack; PC-Pressure Cemented; S-Sump; CE-Centralisers

I	Hole	Pipe	Component	Туре	From (m)			Inside Diameter	Interval	Details
					(,	(,	(mm)	(mm)		
ľ	1		Hole	Hole	0.00	12.00	125			Auger - Solid Flight
	1		Annulus	Waterworn/Rounded	3.00	6.00				Graded
	1	1	Casing	Pvc Class 18	0.00	3.00	50	46		Driven into Hole, Screwed
ſ	1	1	Opening	Slots - Horizontal	3.00	6.00	50			Casing - Machine Slotted, PVC Class 18. Screwed

**Water Bearing Zones** 

From (m)	To (m)	Thickness (m)	71.	S.W.L. (m)			Duration (hr)	Salinity (mg/L)
						(,		

i	4.00	6.00	2.00	Unknown	<b>l</b> 4.40	l I	l	I	I	I	ı
- 1		0.00									1

#### **Drillers Log**

From	То	Thickness	Drillers Description	Geological Material	Comments
(m)	(m)	(m)	-	_	
0.00	1.00	1.00	FILL,SILTY CLAY,BROWN	Fill	
1.00	6.00	5.00	CLAY SILTY,BROWN	Clay Loam	

#### \*\*\* End of GW110571 \*\*\*

Warning To Clients: This raw data has been supplied to the NSW Office of Water by drillers, licensees and other sources. The NOW does not verify the accuracy of this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.

## **WaterNSW Work Summary**

#### GW114294

Licence: 10BL604605 Licence Status: ACTIVE

Authorised Purpose MONITORING BORE

(s):

Intended Purpose(s): MONITORING BORE

Work Type: Bore Work Status: Equipped

Construct.Method:

Owner Type: Private

Commenced Date: Final Depth: 6.00 m Completion Date: 28/04/2011 Drilled Depth: 6.00 m

Contractor Name: soilcheck pty ltd

**Driller:** Tony Cocca

Assistant Driller:

Property: ZABDECK PTY LTD 1163-1167 **Standing Water Level** Mamre Rd KEMPS CREEK

(m):

2178 NSW

GWMA: -**Salinity Description:** GW Zone: -Yield (L/s):

#### **Site Details**

Site Chosen By:

County Parish Cadastre Form A: CUMBERLAND MELVILLE 10//30265 Licensed: CUMBERLAND **MELVILLE** Whole Lot

10//30265

Region: 10 - Sydney South Coast CMA Map:

River Basin: - Unknown

Area/District:

**Grid Zone:** 

Scale:

Northing: 6250108.000 Elevation: 0.00 m (A.H.D.) **Elevation** Unknown **Easting:** 296225.000

Latitude: 33°52'10.9"S Longitude: 150°47'49.1"E

Source:

GS Map: -

MGA Zone: 56

Coordinate Unknown

Source:

#### Remarks

04/08/2014: Nat Carling, 4-Aug-2014; Added status, drill method & depth.

\*\*\* End of GW114294 \*\*\*

Warning To Clients: This raw data has been supplied to the NSW Office of Water by drillers, licensees and other sources. The NOW does not verify the accuracy of this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.

# WaterNSW Work Summary

#### GW114295

Licence: Licence Status:

**Authorised Purpose** 

· (s):

Intended Purpose(s): MONITORING BORE

Work Type: Bore
Work Status: Equipped

Construct.Method:

Owner Type: Private

Commenced Date: Final Depth: 6.00 m
Completion Date: 28/04/2011 Drilled Depth: 6.00 m

Contractor Name: soilcheck pty ltd

**Driller:** Tony Cocca

**Assistant Driller:** 

Property: Standing Water Level (m):
GWMA: Salinity Description:

GWMA: Salinity Description: GW Zone: Yield (L/s):

#### Site Details

Site Chosen By:

County Parish Cadastre
Form A: CUMBERLAND MELVILLE 10//30265

Licensed:

Region: 10 - Sydney South Coast CMA Map:

River Basin: - Unknown Grid Zone: Scale:

Area/District:

 Elevation:
 0.00 m (A.H.D.)
 Northing:
 6250108.000
 Latitude:
 33°52'10.9"S

 Elevation
 Unknown
 Easting:
 296204.000
 Longitude:
 150°47'48.2"E

Source:

GS Map: - MGA Zone: 56 Coordinate Unknown

Source:

#### Remarks

04/08/2014: Nat Carling, 4-Aug-2014; Added status, drill method & depth.

\*\*\* End of GW114295 \*\*\*

Warning To Clients: This raw data has been supplied to the NSW Office of Water by drillers, licensees and other sources. The NOW does not verify the accuracy of

this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.

## WaterNSW Work Summary

### GW114296

Licence: Licence Status:

Authorised Purpose

(s)

Intended Purpose(s): MONITORING BORE

Work Type: Bore
Work Status: Equipped

Construct.Method:

Owner Type: Private

Commenced Date: Final Depth: 6.00 m
Completion Date: 28/04/2011 Drilled Depth: 6.00 m

Contractor Name: soilcheck pty ltd

**Driller:** Tony Cocca

**Assistant Driller:** 

Property: Standing Water Level (m):
GWMA: Salinity Description:

GW Zone: Saimity Description: Saimity Description:

#### Site Details

Site Chosen By:

CountyParishCadastreForm A: CUMBERLANDMELVILLE10//30265

Licensed:

Region: 10 - Sydney South Coast CMA Map:

River Basin: - Unknown Grid Zone: Scale:

Area/District:

 Elevation:
 0.00 m (A.H.D.)
 Northing:
 6250076.000
 Latitude:
 33°52'11.9"S

 Elevation
 Unknown
 Easting:
 296182.000
 Longitude:
 150°47'47.4"E

Source:

GS Map: - MGA Zone: 56 Coordinate Unknown

Source:

### Remarks

04/08/2014: Nat Carling, 4-Aug-2014; Added status, drill method & depth.

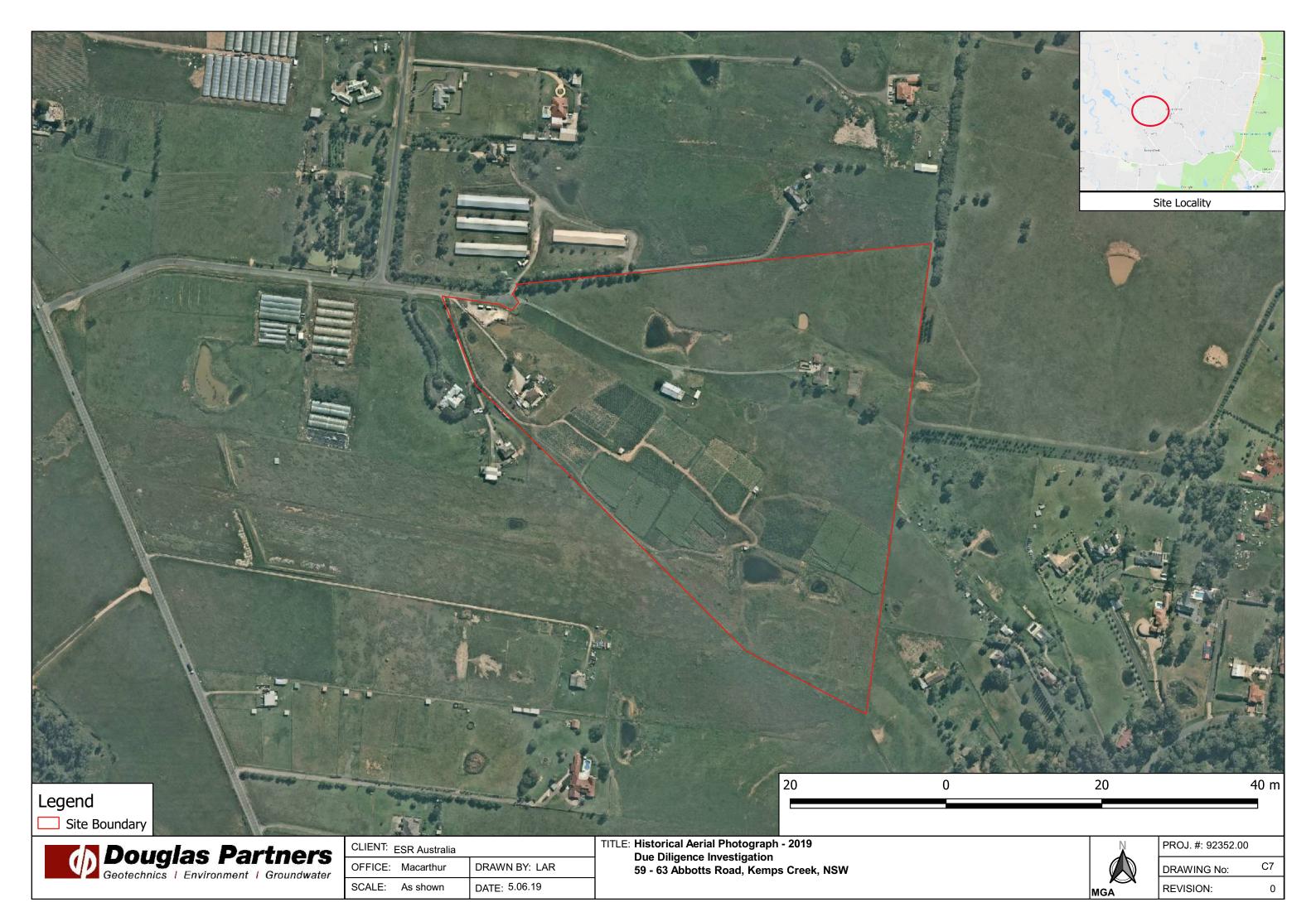
\*\*\* End of GW114296 \*\*\*

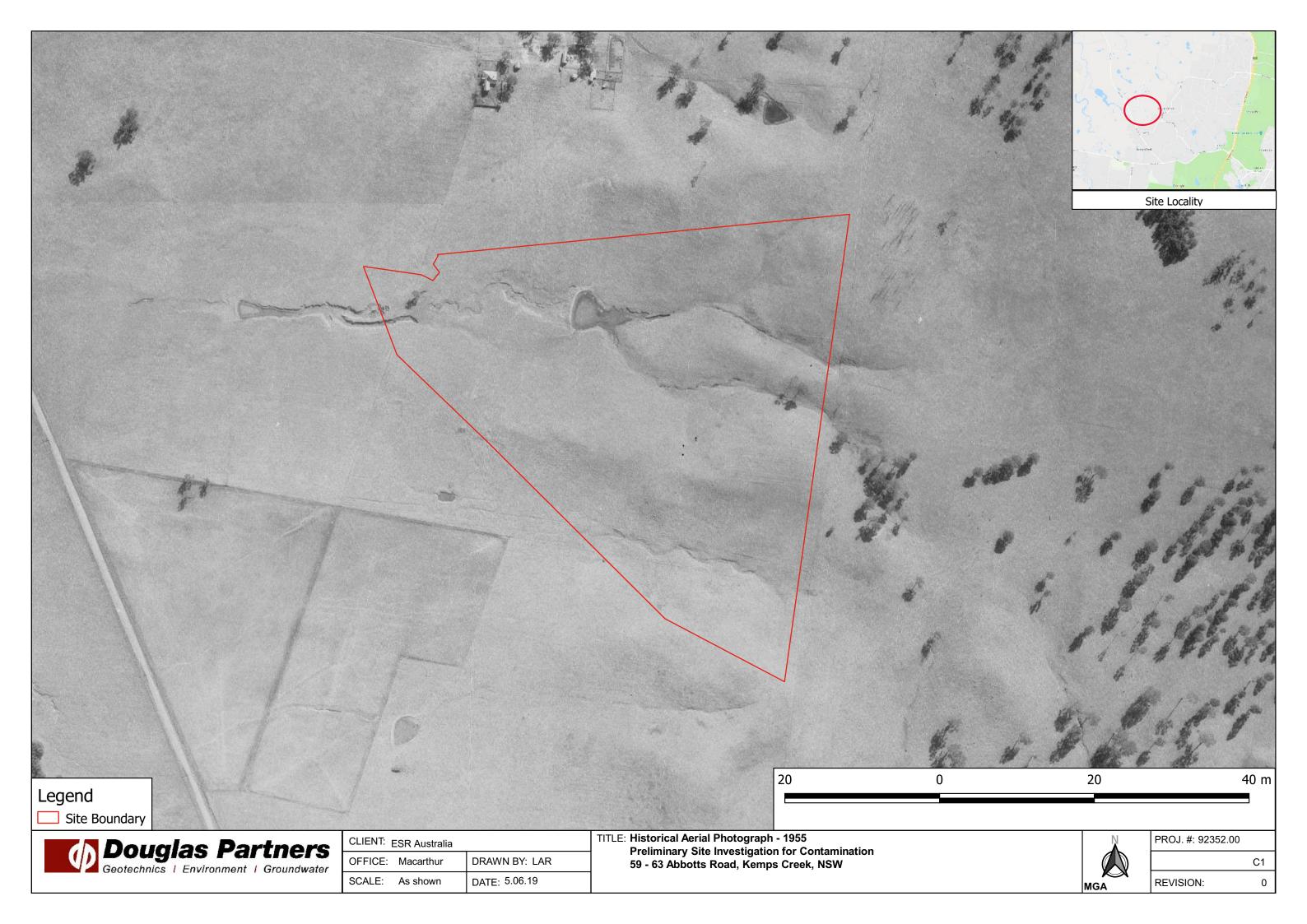
Warning To Clients: This raw data has been supplied to the NSW Office of Water by drillers, licensees and other sources. The NOW does not verify the accuracy of

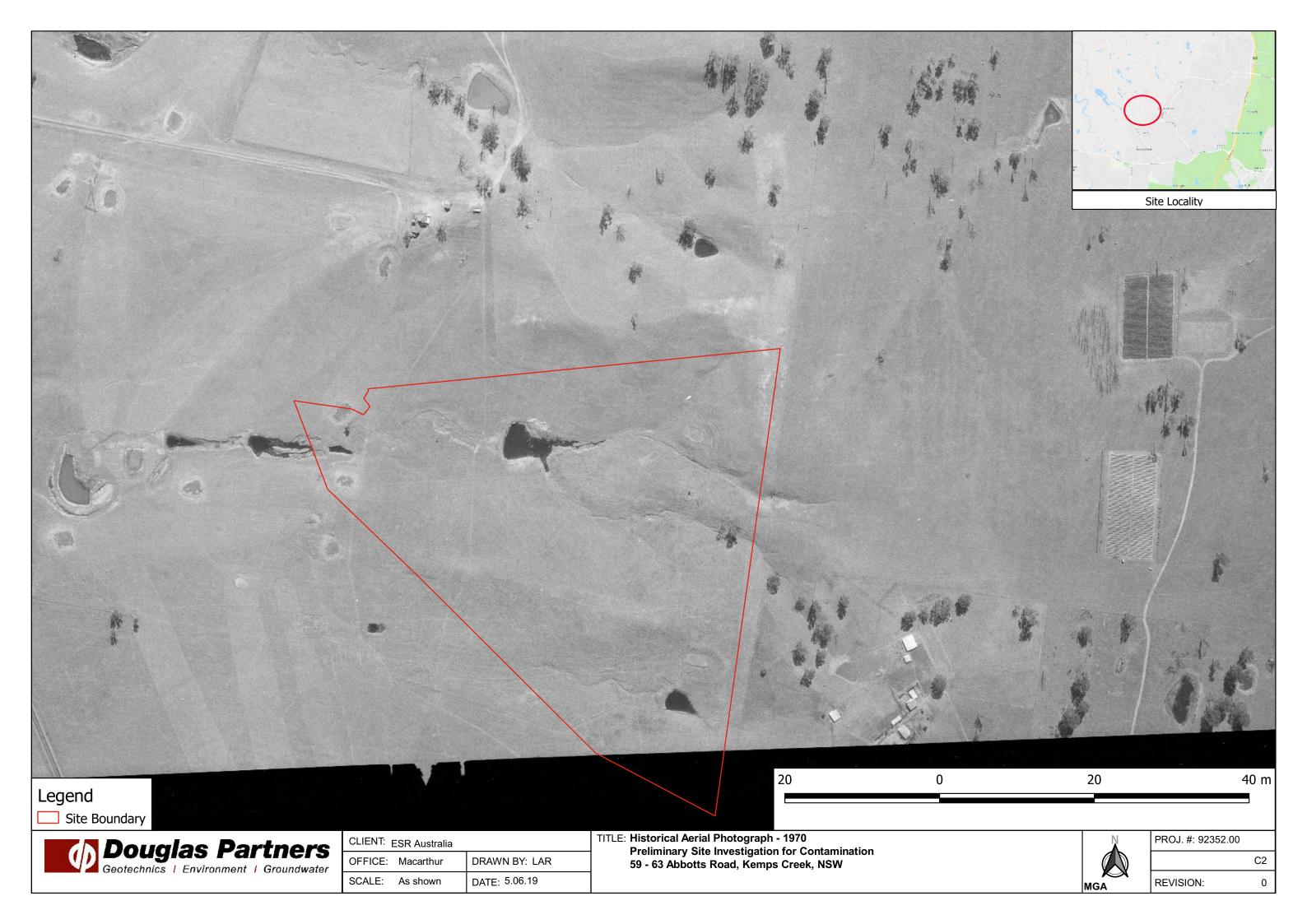
this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.

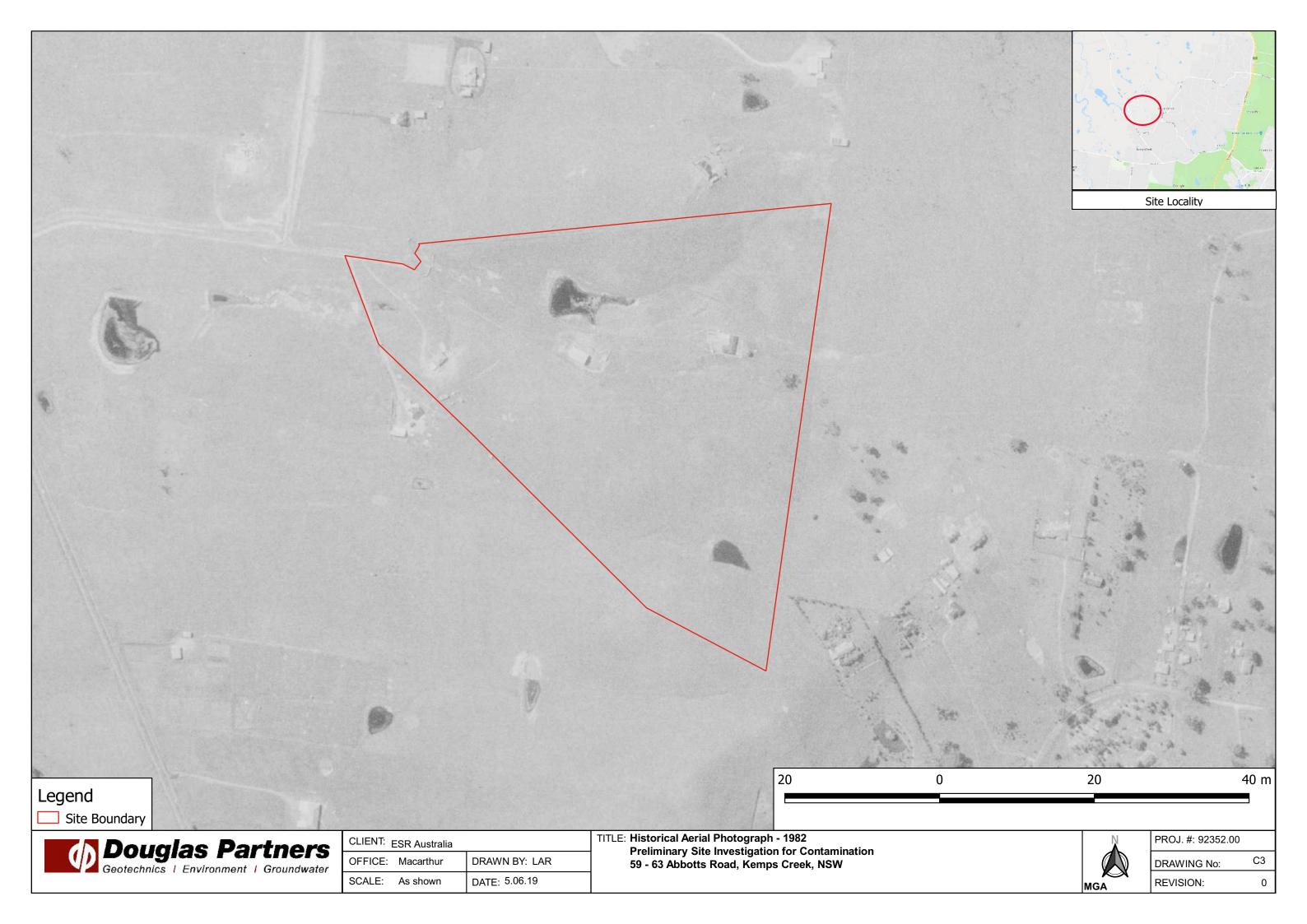
# Appendix C

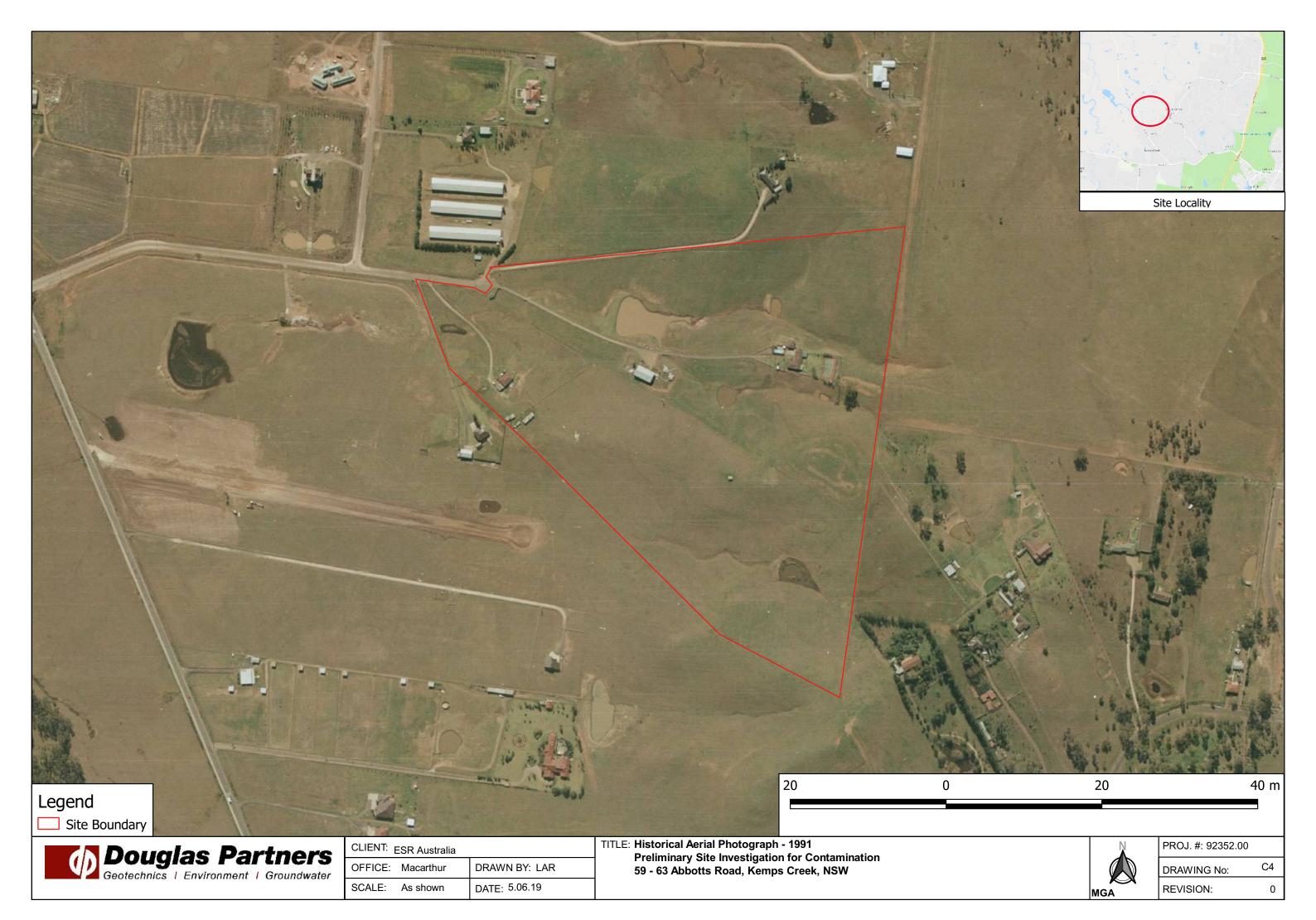
Historical Aerial Photographs

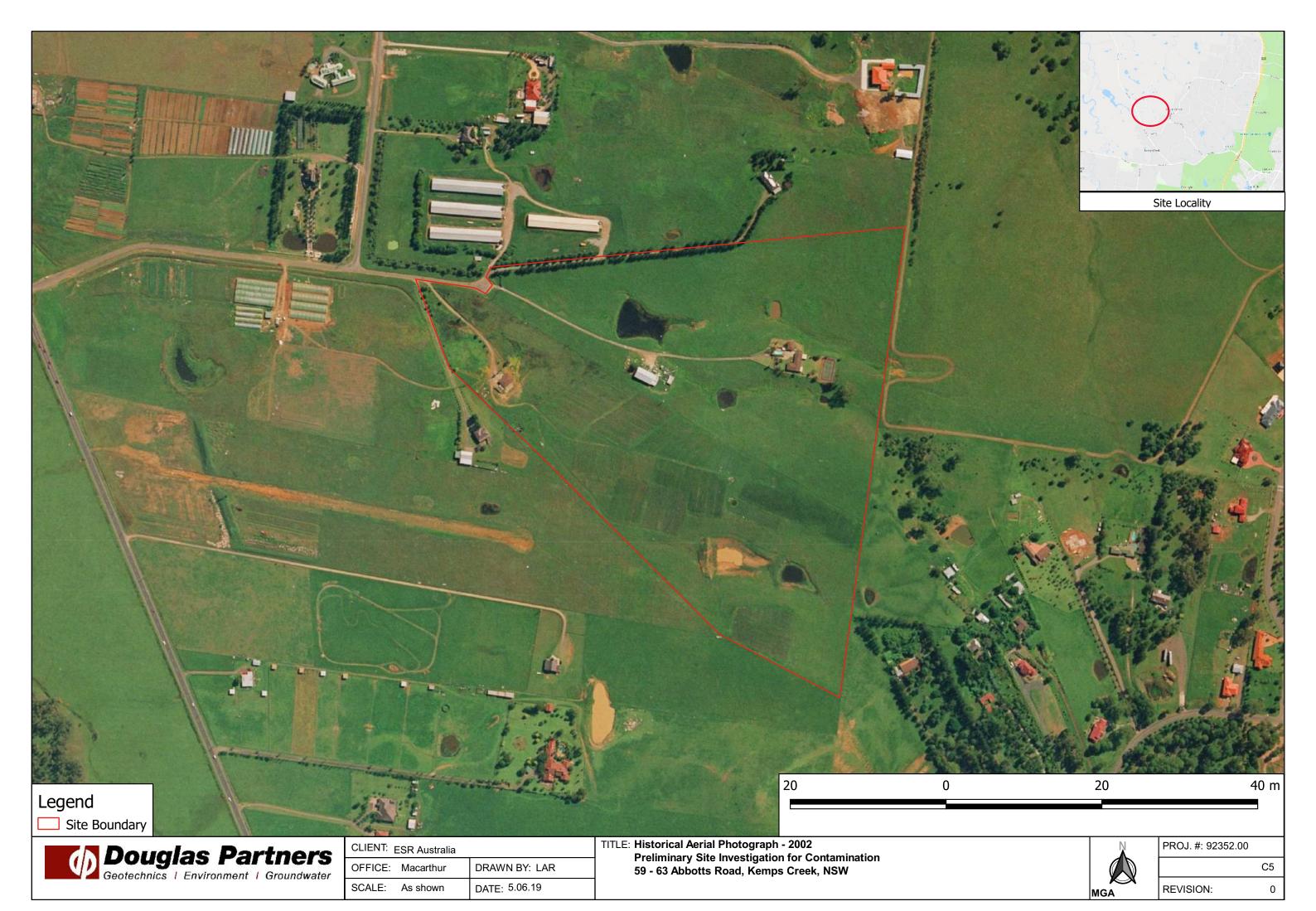


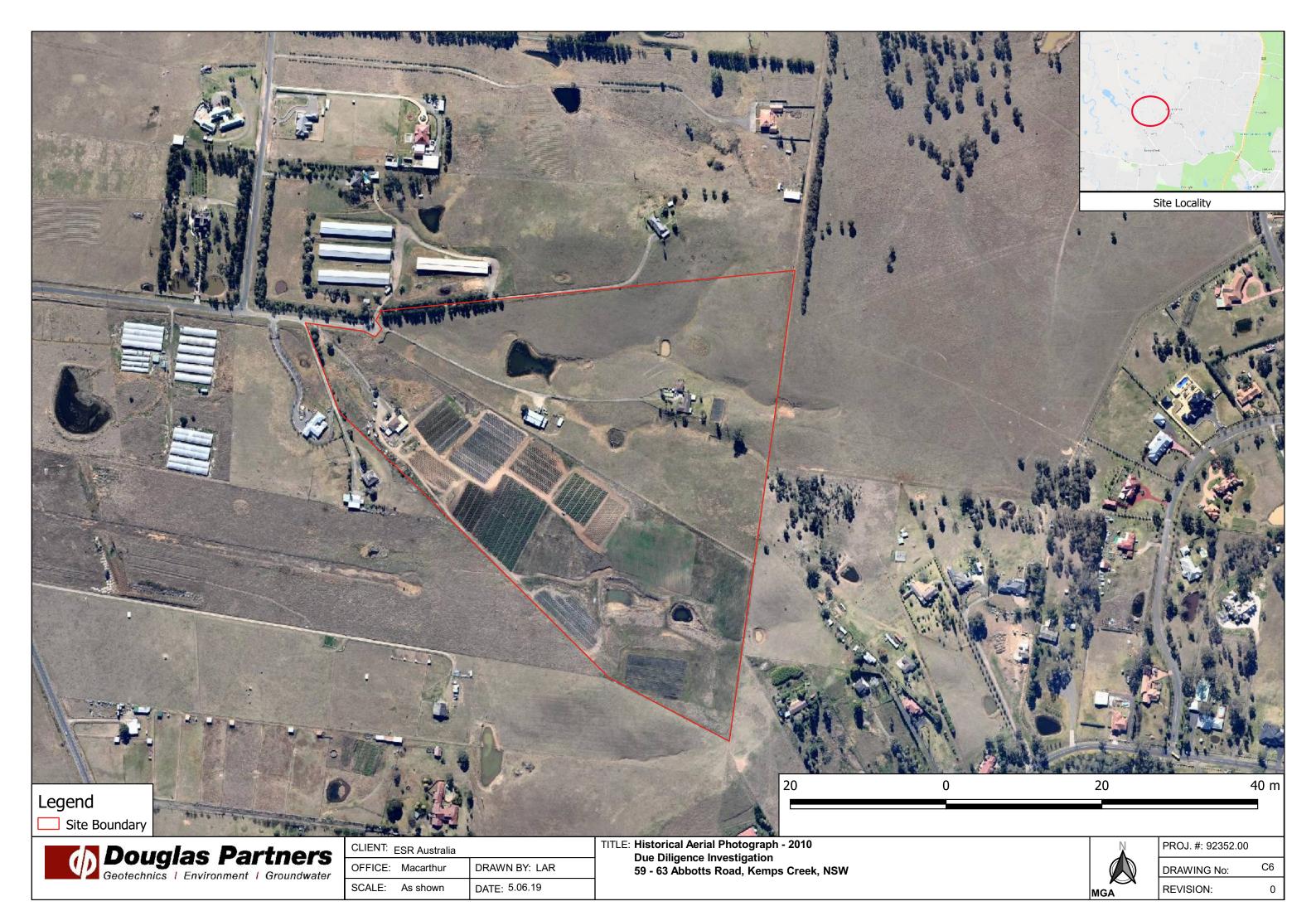












# Appendix D

**NSW EPA Search** 

Home Contaminated land Record of notices

### Search results

Your search for: Suburb: KEMPS CREEK

#### did not find any records in our database.

If a site does not appear on the record it may still be affected by contamination. For example:

- Contamination may be present but the site has not been regulated by the EPA under the Contaminated Land Management Act 1997 or the Environmentally Hazardous Chemicals Act 1985.
- The EPA may be regulating contamination at the site through a licence or notice under the Protection of the Environment Operations Act 1997 (POEO Act).
- Contamination at the site may be being managed under the planning process

Search Again Refine Search

### Search TIP

To search for a specific site, search by LGA (local government area) and carefully eview all sites listed.

.. more search tips

More information about particular sites may be available from:

- The POEO public register
- The appropriate planning authority: for example, on a planning certificate issued by the local council under section 149 of the Environmental Planning and Assessment Act.

See What's in the record and What's not in the record.

If you want to know whether a specific site has been the subject of notices issued by the EPA under the CLM Act, we suggest that you search by Local Government Area only and carefully review the sites that are listed.

This public record provides information about sites regulated by the EPA under the Contaminated Land Management Act 1997, including sites currently and previously regulated under the Environmentally Hazardous Chemicals Act 1985. Your inquiry using the above search criteria has not matched any record of current or former regulation. You should consider searching again using different criteria. The fact that a site does not appear on the record does not necessarily mean that it is not affected by contamination. The site may have been notified to the EPA but not yet assessed, or contamination may be present but the site is not yet being regulated by the EPA. Further information about particular sites may be available from the appropriate planning authority, for example, on a planning certificate issued by the local council under section 149 of the Environmental Planning and Assessment Act. In addition the EPA may be regulating contamination at the site through a licence under the Protection of the Environment Operations Act 1997. You may wish to search the POEO public register. POEO public register

For business and industry

4 June 2019

For local government

Contact us

131 555 (tel:131555)

info@epa.nsw.gov.au (mailto:info@epa.nsw.gov.au)

EPA Office Locations (https://www.epa.nsw.gov.au/about-us/contact-us/locations)

Accessibility (https://www.epa.nsw.gov.au/about-us/contact-us/website-service-standards/help-index) Disclaimer (https://www.epa.nsw.gov.au/about-us/contact-us/website-service-standards/disclaimer) Privacy (https://www.epa.nsw.gov.au/about-us/contact-us/website-service-standards/privacy) Copyright (https://www.epa.nsw.gov.au/about-us/contact-us/website-service-standards/copyright)

(https://au.linkedin. environmentprotectionauthority-(https://dawi)titettps:///www.sy.vy

Find us on

Sı	uburb	SiteName	Address	Contamination Activity Type	ManagementClass	Latitude	Longitude
					Regulation under CLM Act not		
KI	EMPS CREEK	Caltex-branded Service Station	1163 Mamre ROAD	Service Station	required	-33.86972102	150.7966074

Cultural	Cita Nama	Address	Comboundary Author Toma	ManagamantClass	I addada	Laurituda
Suburb	SiteName	Address	Contamination Activity Type	ManagementClass	Latitude	Longitude
CARDIFF	7-Eleven Service Station	399 Main ROAD	Service Station	Regulation under CLM Act not required	-32.93391137	151.6562111
				Regulation under CLM Act not		
CARDIFF	Former Caltex Service Station	367 Main ROAD	Service Station	required	-32.93761223	151.6577781
				Regulation under CLM Act not		
CARDIFF	Maneela Oval	Main ROAD	Other Industry	required	-32.93018443	151.6435559
				Regulation under CLM Act not		
CARDIFF	Former Mobil Depot	7 Ranton STREET	Other Petroleum	required	-32.94516764	151.6470387
0400155	BP Service Station (Reliance			Regulation under CLM Act not	22.22.22.22	454 6560005
CARDIFF	Petroleum)	Corner Sturt and Main ROADS	Service Station	required	-32.93792229	151.6569905
CARDIEE	Woolworths (former Mobil)	43 Massussia BOAD	Comice Station	Regulation under CLM Act not	22.04119246	151 (570105
CARDIFF	Cardiff Service Station	43 Macquarie ROAD	Service Station	required	-32.94118246	151.6578195
CARINGBAH	Adjacent to Spirent Australia	101-103 Cawarra ROAD	Other Industry	Contamination formerly regulated under the CLM Act	-34.03360747	151 1345577
CARINGBAR	· ·	101-103 Cawarra ROAD	Other industry		-54.05360747	151.1245577
CARINGBAH	Former Consumer Health Products Manufacturer	32-40 Cawarra ROAD	Other Industry	Regulation under CLM Act not required	-34.03024369	151.1277755
CARINGDAIT	Froducts Mandiacturer	32-40 Cawaiia NOAD	Other muustry	Regulation under CLM Act not	-34.03024303	151.1277755
CARINGBAH	Caltex Lilli Pilli Service Station	477-481 Port Hacking ROAD	Service Station	required	-34.05243807	151.1216353
C IIIII C D III	Careex Ellin 1 lin Service Station	477 4011 OTT HACKING NOVE	Service Station	Regulation under CLM Act not	34.03243007	131.1210333
CARINGBAH	7-Eleven Service Station	367 The KINGSWAY	Service Station	required	-34.03948677	151.1203268
C HAIT CEST HT	7 Eleven Service Station	307 THE KINGSWAT	Service Station	Contamination formerly	34.03340077	131.1203200
CARINGBAH	Spirent Australia	105 Cawarra ROAD	Other Industry	regulated under the CLM Act	-34.03425343	151.1245092
CARINGBAH	BP Caringbah	54 Captain Cook DRIVE	Service Station	Under assessment	-34.032652	151.125487
				Regulation under CLM Act not		
CARLINGFORD	Caltex Service Station Carlingford	131 Pennant Hills ROAD	Service Station	required	-33.78762398	151.0279422
				Regulation under CLM Act not		
CARLINGFORD	Caltex Service Station	797 Pennant Hills ROAD	Service Station	required	-33.7757819	151.0516532
	Shell Coles Express Service			Regulation under CLM Act not		
CARLTON	Station	277 Princes HIGHWAY	Service Station	required	-33.9748579	151.1272732
	Commercial Metals Company			Regulation under CLM Act not		
CARRINGTON	(CMC) Australia Pty Ltd	117-121 Bourke STREET	Other Industry	required	-32.9148832	151.7677193
				Regulation under CLM Act not		
CARRINGTON	Carrington redevelopment site	11 Howden STREET	Other Industry	required	-32.91309509	151.7625341
64 BB W 67 64	5 5 1			Regulation under CLM Act not	22 2227444	151 761016
CARRINGTON	Forgacs Dockyard	81 Denison STREET	Other Industry	required	-32.9207441	151.764816
CARRINGTON	NAT vacant land	Bourke STREET	Unclassified	Regulation under CLM Act not required	-32.91276029	151.7685894
CARRINGTON	INAT Vacant land	BOUIRE STREET	Officiassified	'	-32.912/6029	151.7685894
CARRINGTON	Dyke Point Containment Cell	Dyke ROAD	Other Industry	Regulation under CLM Act not required	-32.91763422	151.7727101
CAMMINUTON	Dyke Form Containment Cell	Dyke NOAD	Other muustry	Regulation under CLM Act not	-32.71/03422	131.7727101
CARRINGTON	Carrington Coal Tar Pavements	Bourke Street to Dyke ROAD	Other Industry	required	-32.91441348	151.770271
	Carrington Coar fair avenients	Dyke Berth 2 (off Bourke Street)	Care madely	Regulation under CLM Act not	32.31441340	131.770271
CARRINGTON	Pasminco Ship Loader	OTHER	Metal Industry	required	-32.9148698	151.7716837

List current as of 4 June 2019 14 of 80

Suburb	SiteName	Address	Contamination Activity Type	ManagementClass	Latitude	Longitude
				Regulation under CLM Act not		
CARSS PARK	Vacant Property	334 Princes HIGHWAY	Other Industry	required	-33.98628486	151.1133908
	Cement Australia Carwell Creek			Regulation under CLM Act not		
CARWELL	Quarries	Quarry ROAD	Other Industry	required	-32.85413742	149.923172
CACINO	Caltex Service Station and Depot	20 9 22 D. weeks CTDEET	Comice Station	Regulation under CLM Act not	20.0540056	152.044900
CASINO	Casino	28 & 32 Dyraaba STREET	Service Station	required	-28.85488567	153.044806
CASINO	Caltex Service Station	96 Centre STREET	Service Station	Regulation under CLM Act not required	-28.86539567	153.0450654
CASINO	Cartex Service Station	30 Centre STREET	Service Station	Regulation under CLM Act not	-28.80339307	155.0450054
CASINO	Former Gasworks	134-136 North STREET	Gasworks	required	-28.86080712	153.0526043
0.10.110	Woolworths Service Station	13 : 130 : 101: 111: 111: 111: 111: 111:	Casironia	Regulation under CLM Act not	20.0000712	133,03200 13
CASINO	Casino	130 Canterbury STREET	Service Station	required	-28.86231341	153.0464642
		,		Regulation under CLM Act not		
CASINO	18 Beith Street, Casino	18 Beith STREET	Unclassified	required	-28.84951426	153.0446585
				Regulation under CLM Act not		
CASINO	Corner Store	30 Barker STREET	Service Station	required	-28.86316792	153.0389124
CASINO	Casino Roadhouse	86 Johnston STREET	Service Station	Under assessment	-28.85960698	153.0562429
				Regulation under CLM Act not		
CASULA	Caltex Casula Service Station	646 Hume HIGHWAY	Service Station	required	-33.95641262	150.8934783
	Catherine Hill Bay Coal Handling			Regulation under CLM Act not		
CATHERINE HILL BAY	and Preparation Plant	1A Keene STREET	Other Industry	required	-33.16120556	151.6302456
05001001		103-105 Wollombi (Cnr James		Regulation under CLM Act not	22 2222524	454.040000
CESSNOCK	Caltex Cessnock Service Station	Street) ROAD	Service Station	required	-32.83936243	151.3430078
CESSNOCK	Former Mobil Service Station	102 Wollombi ROAD	Service Station	Regulation under CLM Act not required	-32.83844074	151.3436022
CESSINOCK	Former Woodi Service Station	102 Wolldfilbi ROAD	Service Station	required	-32.03044074	131.3430022
CESSNOCK	Former Service Station	2-4 Allandale ROAD	Service Station	Under assessment	-32.83118911	151.3560677
				Regulation under CLM Act not		
CHARBON	Charbon Colliery	Charbon ROAD	Other Industry	required	-32.92390131	149.9839098
01148155701441		272.01 1	6 6		22.0500555	454 6007004
CHARLESTOWN	7-Eleven Charlestown	273 Charlestown ROAD	Service Station	Under assessment	-32.95802555	151.6897931
CHARLESTOWN	Caltex Service Station	81 Pacific HIGHWAY	Service Station	Contamination currently	-32.96708479	151.6955919
CHARLESTOWN	Cartex Service Station	81 Pacific HIGHWAY	Service Station	regulated under CLM Act	-32.96708479	151.6955919
CHARLESTOWN	Caltex Woolworths (Former BP)	91-93 Pacific HIGHWAY	Service Station	Contamination formerly regulated under the CLM Act	-32.96633569	151.6959051
CHARLESTOWN	Cartex Woolworths (Former Br)	31 33 Facilie Filority AT	Service Station	Regulation under CLM Act not	32.90033303	131.0335031
CHARLESTOWN	Ausgrid Powell Street Depot	8 Powell STREET	Other Industry	required	-32.95912375	151.6944136
	Caltex Charmhaven Service		•	Regulation under CLM Act not		
CHARMHAVEN	Station	13-15 Pacific HIGHWAY	Service Station	required	-33.21655768	151.5091452
	Former Caltex Chatswood Service			Contamination formerly		
CHATSWOOD	Station	607 Pacific HIGHWAY	Service Station	regulated under the CLM Act	-33.80396472	151.1795766
				Regulation under CLM Act not		
CHATSWOOD	Woolworths Chatswood	364-366 Eastern Valley WAY	Service Station	required	-33.78667419	151.2010828

List current as of 4 June 2019 15 of 80

Suburb	SiteName	Address	Contamination Activity Type	ManagementClass	Latitude	Longitude
				Regulation under CLM Act not		
CHATSWOOD	Caltex Service Station Chatswood	572 Pacific HIGHWAY	Service Station	required	-33.80381271	151.1789656
CHATCHIOOD	Auto Bonoine	2 Dayward in STREET	Coming Chatiers	Regulation under CLM Act not	22 0045 402	454 4050622
CHATSWOOD	Auto Repairs	2 Devonshire STREET	Service Station	required	-33.8015482	151.1859632
CHATSWOOD	Coles Express Service Station Chatswood	877-879 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.79182176	151.1804867
CHATSWOOD	Chatswood	877-879 Pacific HighWAY	Service Station	Contamination formerly	-55.79182176	151.1804807
CHATSWOOD WEST	Chatswood Toyota	728 Pacific HIGHWAY	Service Station	regulated under the CLM Act	-33.79654247	151.1776136
CHATTOWN OF WEST	chaswood royota	720 Facility Highway	Service Station	Regulation under CLM Act not	33.73034247	131.1770130
CHERRYBROOK	Caltex Service Station	67 Shepherds DRIVE	Service Station	required	-33.72069183	151.0451415
				Contamination formerly		
CHESTER HILL	Former Orica, Chester Hill	127 Orchard ROAD	Chemical Industry	regulated under the CLM Act	-33.8869823	150.9952873
CHIPPENDALE	Frasers Development	Wellington STREET	Chemical Industry	Under assessment	-33.88669108	151.2015805
	Former Solchem (Mobil) Depot			Regulation under CLM Act not		
CHIPPING NORTON	Chipping Norton	49-51 Riverside ROAD	Other Petroleum	required	-33.91621314	150.9696948
				Contamination currently		
CHIPPING NORTON	Former ACR	85-107 Alfred STREET	Chemical Industry	regulated under CLM Act	-33.92226795	150.9586496
	Former Sydney Wiremills (BHP)			Regulation under CLM Act not		
CHISWICK	site	Blackwall Point ROAD	Other Industry	required	-33.85131849	151.1369131
CHITTANA/AV DAV	Farman Calkau Chittauran Baint	100 Chittanian BOAD	Camilaa Chabian	Regulation under CLM Act not	22 22707555	151 4202540
CHITTAWAY BAY	Former Caltex Chittaway Point	100 Chittaway ROAD	Service Station	required	-33.32707555	151.4293546
CHULLORA	Chullora Railway Workshops	Worth STREET	Other Industry	Regulation under CLM Act not required	-33.88639388	151.0598201
CHOLLONA	Citaliora Kaliway Workshops	WORLTSTREET	Other maastry	Regulation under CLM Act not	-55.88059388	131.0398201
CLARENCE	Clarence Colliery	Chifley ROAD	Other Industry	required	-33.46450217	150.2522729
02/11/21/02	Coles Express Clarendon Service	ee, nerts	other madetry	Regulation under CLM Act not	33.10.130217	130.2322723
CLARENDON	Station	244 Hawkesbury Valley WAY	Service Station	required	-33.6083729	150.7890956
				Regulation under CLM Act not		
CLEARFIELD	Former Pamplings Dip Site	Off Clearfield ROAD	Cattle Dip	required	-29.16287185	152.882974
				Regulation under CLM Act not		
CLYBUCCA	BP Service Station	2171 Pacific HIGHWAY	Service Station	required	-30.93845014	152.9422791
		3 Parramatta (Cnr Harbord Street)		Regulation under CLM Act not		
CLYDE	7-Eleven Clyde	ROAD	Service Station	required	-33.83494433	151.0222628
	Former Caltex (Bogas) Service			Regulation under CLM Act not		
COBAR	Station Cobar	56-58 Marshall STREET	Service Station	required	-31.49793339	145.8346684
CODAD	Maliana Gald Miss	Calvar BOAD	Madal Industry	Regulation under CLM Act not	24 70470755	145 600
COBAR	Mckinnons Gold Mine	Cobar ROAD	Metal Industry	required	-31.78179755	145.693
COBAR	Caltex Service Station Cobar	Highway and Bathurst Street) STREET	Service Station	Regulation under CLM Act not required	-31.49631924	145.8275727
CODAN	Cartex Service Station Condr	SINCEL	Sei vice Station	'	-51.45031924	143.62/5/2/
COBAR	Caltex Service Station	Lot 10 Railway PARADE	Service Station	Regulation under CLM Act not required	-31.49350124	145.8442372
COD/111	Cartex Service Station	Lot 10 Hallway I ANADL	Service Station	Contamination formerly	31.49330124	143.0442372
COFFS HARBOUR	BP Service Station	134-136 Pacific HIGHWAY	Service Station	regulated under the CLM Act	-30.29187037	153.1182106

List current as of 4 June 2019 16 of 80

Suburb	SiteName	Address	Contamination Activity Type	ManagementClass	Latitude	Longitude
				Regulation under CLM Act not		
COFFS HARBOUR	Dan Murphy's Coffs Harbour	10 Elbow STREET	Service Station	required	-30.29439262	153.115069
		244 246 11   220 15		Contamination formerly	20.005.000	
COFFS HARBOUR	Mobil Service Station	314-316 Harbour DRIVE	Service Station	regulated under the CLM Act	-30.3056983	153.131966
COFFS HARBOUR	Mobil Coffs Harbour Airport	Aviation DRIVE	Other Petroleum	Contamination formerly regulated under the CLM Act	-30.313385	153.1175018
COFFS HARBOOK	Mobil Colls Harbour Airport	AVIATION DRIVE	Other retroleum	Regulation under CLM Act not	-50.515363	133.1173016
COFFS HARBOUR	Woolworths Petrol	Park Beach Plaza, Arthur STREET	Service Station	required	-30.28101154	153.132027
COTTOTIVINE	Woodworths rector	Tank Beden Flaza, Altinai STREET	Service Station	Regulation under CLM Act not	30.2010113	155.152027
COFFS HARBOUR	Caltex Service Station	157 Orlando STREET	Service Station	required	-30.28975334	153.1306354
				- 1		
COFFS HARBOUR	Coffs Harbour Slipway	38 Marina DRIVE	Other Industry	Under assessment	-30.30325637	153.1441437
				Contamination formerly		
COFFS HARBOUR	Aussitel Backpackers Hostel	312 Harbour DRIVE	Service Station	regulated under the CLM Act	-30.3057	153.132
				Regulation under CLM Act not		
COLEAMBALLY	Former Mobil Coleambally Depot	19 Bencubbin AVENUE	Other Petroleum	required	-34.80279552	145.8945239
		Corner Narran Street and Queen		Regulation under CLM Act not		
COLLARENEBRI	Former Shell Depot	STREET	Other Petroleum	required	-29.54114772	148.5789365
				Regulation under CLM Act not		
COLONGRA	Munmorah Colliery	Scenic DRIVE	Other Industry	required	-33.21297737	151.5416882
	5 1 0 111			Regulation under CLM Act not	00.0400==0	
COLONGRA	Endeavour Colliery	Scenic DRIVE	Other Industry	required	-33.21297737	151.5416882
COLVTON	Amnal Canica Station	99 Croot Wostorn HICHWAY	Consider Station	Contamination currently	22 7754	150.7954
COLYTON	Ampol Service Station	88 Great Western HIGHWAY	Service Station	regulated under CLM Act	-33.7754	150.7954
CONCORD	Caltex Service Station	89 Parramatta ROAD	Service Station	Regulation under CLM Act not required	-33.86785624	151.0993769
CONCORD	Cartex Service Station	83 Farramatta NOAD	Service Station	Regulation under CLM Act not	-33.80783024	131.0993709
CONCORD WEST	Caltex Service Station	369-375 Concord ROAD	Service Station	required	-33.84113835	151.0888843
		38 Denison Street, corner Molong		Regulation under CLM Act not		
CONDOBOLIN	BP-Branded Service Station	STREET	Service Station	required	-33.08520378	147.1524976
				Contamination currently		
CONDOBOLIN	Former Mobil Depot	6 Burnett STREET	Other Petroleum	regulated under CLM Act	-33.08010515	147.1642972
		Cnr Parkes Road and Goobang		Regulation under CLM Act not		
CONDOBOLIN	Former Ampol Depot	STREET	Service Station	required	-33.08034753	147.1642436
				Regulation under CLM Act not		
CONDOBOLIN	Former Caltex Depot	Parkes ROAD	Service Station	required	-33.08255593	147.1585922
	Mobil Condobolin Depot Railway	Railway Siding behind 6 Burnett		Regulation under CLM Act not		
CONDOBOLIN	Siding	STREET	Other Petroleum	required	-33.08058612	147.164225
				Regulation under CLM Act not		
CONSTITUTION HILL	Sydney Water Land	Caloola ROAD	Unclassified	required	-33.79776636	150.9697715
COOCEE	Calhau Canana Samina Station	146-148 Coogee Bay (Cnr Mount	Comice Station	Regulation under CLM Act not	22.04000222	151 3517454
COOGEE	Caltex Coogee Service Station	St) ROAD	Service Station	required	-33.91989232	2 151.2517454
COOKS HILL	Former Council Depot Cooks Hill	152 Bruce Street and 115 Corlette STREET	Other Industry	Regulation under CLM Act not required	-32.93525537	151.7641074
COOKS HILL	Former Council Depot Cooks Hill	SINEEL	Other maustry	required	-32.93525537	151./6410/4

List current as of 4 June 2019 17 of 80

Suburb	SiteName	Address	Contamination Activity Type	ManagementClass	Latitude	Longitude
		Corner Hume Highway and		Regulation under CLM Act not		
COOLAC	Coolac Service Station	Coleman STREET	Service Station	required	-34.95435052	148.1595525
		72 (formerly 17-23) Cunningham		Regulation under CLM Act not		
COOLAH	BP Depot (Reliance Petroleum)	STREET	Other Petroleum	required	-31.82275896	149.7243171
COOLONGOLOOK	Calhau Causiaa Chatian	D S- LUCUNAY	Comitoe Chation	Regulation under CLM Act not	22.24.640225	452 222042
COOLONGOLOOK	Caltex Service Station	Pacific HIGHWAY	Service Station	required SIAA Astront	-32.21648325	152.322813
COOMA	Caltex Cooma Service Station	44 Sharp (Cnr Baron St) STREET	Service Station	Regulation under CLM Act not required	-36.23323489	149.1304134
COOMA	Cartex Coorna Service Station	44 Sharp (Chr Baron St) STREET	Service Station	<u>'</u>	-50.25525465	149.1304134
СООМА	Former Mobil Cooma Depot	2 Commissioner STREET	Other Petroleum	Regulation under CLM Act not required	-36.23267537	149.1346338
COOIVIA	Torrier Woon cooma Depot	2 COMMISSIONET STREET	Other retroleum	Regulation under CLM Act not	30.23207337	143.1340330
СООМА	Former Caltex Cooma Depot	2 Short STREET	Service Station	required	-36.2338672	149.1348862
	and Service Station (Former BP			Regulation under CLM Act not		
COOMA	Reliance Petroleum)	2-4 Sharp STREET	Other Petroleum	required	-36.22862603	149.1356483
	Woolworths Caltex Cooma	Bombala Street Cnr Massie		Regulation under CLM Act not		
COOMA	Service Station	STREET	Service Station	required	-36.23364626	149.1267469
				Regulation under CLM Act not		
СООМА	Former Shell Depot	48-50 Bradley STREET	Other Petroleum	required	-36.23448955	149.1347987
				Contamination formerly		
COOMA	Former Shell Service Station	48-52 Sharp STREET	Service Station	regulated under the CLM Act	-36.23350402	149.1299514
				Regulation under CLM Act not		
COONABARABRAN	Former Mobil Depot	49 Cowper STREET	Other Petroleum	required	-31.27096226	149.2818461
	Shell Coles Express Service			Regulation under CLM Act not		
COONABARABRAN	Station	2-6 John STREET	Service Station	required	-31.27706775	149.27836
	Former Shell Coonabarabran	Corner Cowper St and Dawson St,		Regulation under CLM Act not		
COONABARABRAN	CVRO	formerly 51 Cowper STREET	Other Petroleum	required	-31.27003745	149.281788
		Cnr Dawson & Drummond		Regulation under CLM Act not	24 2522424	440,00400
COONABARABRAN	Caltex Service Station	STREET	Service Station	required	-31.26994941	149.28183
COONADADADAAN	Caltan Camina Station	05 07 John CTD55T	Comice Station	Regulation under CLM Act not	24 27224245	140 2771207
COONABARABRAN	Caltex Service Station	85-87 John STREET	Service Station	required CIAA Astront	-31.27231215	149.2771297
COONAMBLE	Former Shell Coonamble Depot	Corner Aberford Street and Quambone ROAD	Other Petroleum	Regulation under CLM Act not required	-30.95349182	148.3793432
COONAIVIBLE	Torrier Shell Coorlamble Depot	Qualifione NOAD	Other retroleum	Regulation under CLM Act not	-30.93349182	140.3733432
COONAMBLE	Caltex Service Station	Quambone ROAD	Service Station	required	-30.95410067	148.3792167
0001111111111111	Former Poultry Farm - 91 Alton	Qualification (G)	Service Station	Regulation under CLM Act not	30.53 11000	110.0732107
COORANBONG	Road, Cooranbong	64 - 98 Alton ROAD	Unclassified	required	-33.06860138	151.4512156
	,			- 4		
COORANBONG	Avondale Auto Centre	677 Freemans DRIVE	Service Station	Under assessment	-33.06968809	151.4636293
				Regulation under CLM Act not		
COOTAMUNDRA	Former BP Depot	1-5 Murray STREET	Other Petroleum	required	-34.62915841	148.0306962
				Regulation under CLM Act not		
COOTAMUNDRA	Caltex Service Station	26-34 Hovell STREET	Service Station	required	-34.63624703	148.0347479
				Regulation under CLM Act not		
COOTAMUNDRA	Former Caltex Depot	219 Sutton STREET	Other Petroleum	required	-34.65126548	148.0145283

List current as of 4 June 2019 18 of 80

Suburb	SiteName	Address	Contamination Activity Type	ManagementClass	Latitude	Longitude
				Regulation under CLM Act not		
COOTAMUNDRA	Former Ampol Service Station	72 Parker STREET	Service Station	required	-34.63471008	148.0296112
				Contamination currently	0.4.545700.46	4.0.00550.0
COOTAMUNDRA	Cootamundra Gasworks	140-146 Hovell STREET	Gasworks	regulated under CLM Act	-34.64572841	148.0255049
COOTAMUNDRA	Former Amoco Depot	68-72 Hovell STREET	Other Petroleum	Contamination currently regulated under CLM Act	-34.63871124	148.0321134
COOTAMONDRA	Former Ampol Cootamundra Rail	08-72 HOVEII STREET	Other retroleum	regulated under CLIVI ACT	-34.036/1124	146.0321134
COOTAMUNDRA	Siding	Back Brawlin ROAD	Other Petroleum	Under assessment	-34.65326425	148.0143068
COCITATION	Julia	End of Martin Street and adjacent		manage residual contamination	34.03320423	140.0145000
CORAMBA	Martin Street	car park OTHER	Service Station	(CLM Act)	-30.22125208	153.0156997
	Corowa Shire Council Works	p		Regulation under CLM Act not		
COROWA	Depot	24 Poseidon ROAD	Other Petroleum	required	-35.98807923	146.3652266
				Regulation under CLM Act not		
COROWA	Former Ampol Corowa	10 Bow STREET	Service Station	required	-35.99364786	146.3901259
COROWA	Cignall Corowa	280 Hume STREET	Service Station	Under assessment	-36.00996015	146.3760437
CORRIMAL	Woolworths Petrol - Corrimal	275-277 Princes HIGHWAY	Service Station	Under assessment	-34.37527426	150.8962637
				Regulation under CLM Act not		
CORRIMAL	7-Eleven Corrimal	138-146 Princes HIGHWAY	Service Station	required	-34.36986923	150.8978271
COMPA	Landmark Fertiliser Storage	Corner Young Road & Waratah	Chaminal Industry	Regulation under CLM Act not	22.04224022	140 (722570
COWRA	Facility	STREET	Chemical Industry	required	-33.84321832	148.6722578
COWRA	Lowes Petroleum (former BP Cowra Depot)	12 Campbell STREET	Other Petroleum	Regulation under CLM Act not required	-33.83803706	148.6977873
COWINA	сомта Берогу	12 Campbell STREET	Other retroleum	Contamination currently	-33.83803700	148.0377873
COWRA	Former Gasworks	30 Brougham STREET	Gasworks	regulated under CLM Act	-33.8389659	148.6963482
	Torrier Gastrerns	Se Breagnam Grinzz	damonia	Contamination formerly	35.036363	1 10.0303 102
COWRA	Shell Depot	34 Brougham STREET	Other Petroleum	regulated under the CLM Act	-33.83932421	148.6976295
	·			Contamination currently		
CRANGAN BAY	Big T Road House.	555 and 565 Pacific HIGHWAY	Service Station	regulated under CLM Act	-33.17326538	151.6083864
	Shell Coles Express Service			Regulation under CLM Act not		
CREMORNE	Station	225 Military ROAD	Service Station	required	-33.83063306	151.226223
		36 Kendall (Cnr Stephens Rd)		Regulation under CLM Act not		
CRESTWOOD	Former Caltex Depot Queanbeyan	AVENUE	Other Petroleum	required	-35.34615546	149.207807
				Regulation under CLM Act not		
CRESTWOOD	Former BP Queanbeyan	64 Uriarra ROAD	Service Station	required	-35.34646177	149.2246263
				Regulation under CLM Act not		
CRONULLA	Breen Holdings	Bate Bay ROAD	Other Industry	required	-34.03861737	151.1614114
CDOM/C NECT	Caltay Sandaa Station	111 121 Falcon CTREET	Carries Station	Regulation under CLM Act not required	-33.82868236	151 2000247
CROWS NEST	Caltex Service Station	111-121 Falcon STREET	Service Station	'	-33.82868236	151.2060317
CROYDON	Caltex Service Station	404-410 Liverpool ROAD	Service Station	Regulation under CLM Act not required	-33.88853994	151.115879
CNOTDON	Cartex Service Station	TOT TO LIVE POUL NOAD	Jei vice Jialion	Regulation under CLM Act not	-33.00033394	131.1130/9
CROYDON	BP Ashfield	584 Parramatta ROAD	Service Station	required	-33.87399409	151.1267296

List current as of 4 June 2019

Suburb	SiteName	Address	Contamination Activity Type	ManagementClass	Latitude	Longitude
	Siterianie	radicos	contamination Activity Type	Regulation under CLM Act not	Latitude	Longitude
CROYDON PARK	Mobil Service Station	334 Georges River ROAD	Service Station	required	-33.89771626	151.0999194
				Regulation under CLM Act not		
CULCAIRN	Caltex Service Station	2883 Olympic HIGHWAY	Service Station	required	-35.67441635	147.0356845
				Regulation under CLM Act not		
CULLEN BULLEN	Baal Bone Colliery	Castlereagh HIGHWAY	Other Industry	required	-33.27193875	150.0587194
	Caltex Service Station (1 Manning			Regulation under CLM Act not		
CUNDLETOWN	River Drive)	Old Pacific HIGHWAY	Service Station	required	-31.89329598	152.5068225
0.10.0.10.		Corner Harbord and Abbott		Regulation under CLM Act not	22.752525	454 2700 450
CURL CURL	John Fisher Park	ROADS	Landfill	required	-33.76352692	151.2798462
DACEYVILLE	Astrolabe Park	Cook AVENUE	Landfill	Regulation under CLM Act not required	-33.92963704	151.221773
DACETVILLE	AStrolabe Fark	(Rear of property) 12-14	Lanum	<u>'</u>	-33.92903704	131.221773
DAPTO	RailCorp Dapto	Hamilton STREET	Other Industry	Regulation under CLM Act not required	-34.50045405	150.787353
DALTO	Naireorp Bapto	TIGHTHON STREET	Other maastry	required	34.30043403	130.707353
DAPTO	Nicheinvest Pty Ltd	133-139 Lakelands DRIVE	Service Station	Under assessment	-34.50335	150.803144
-	, ,			Regulation under CLM Act not		
DARLINGHURST	Proposed Retail Unit	139-155 Palmer STREET	Unclassified	required	-33.87504688	151.2168106
				Contamination was addressed via		
DARLINGHURST	Cross City Tunnel	Riley Street and William STREET	Service Station	the planning process (EP&A Act)	-33.87424636	151.2158305
				Regulation under CLM Act not		
DARLINGHURST	18-28 Neild Avenue, Darlinghurst	18-28 Neild AVENUE	Landfill	required	-33.87876581	151.2276546
				Contamination currently		
DEE WHY	United Dee Why	1 The Strand STREET	Service Station	regulated under POEO Act	-33.75569207	151.2959451
				Regulation under CLM Act not		
DEE WHY	Caltex Service Station	793-797 Pittwater ROAD	Service Station	required	-33.74566596	151.2920719
DEE WHY	Dee Why Town Centre	Pittwater ROAD	Other Industry	Regulation under CLM Act not required	-33.753169	151.2875805
DEE WHY	Dee Wily Town Centre	Pittwater ROAD	Other industry	•	-33./33109	151.26/5605
DEE WHY	Roche Products Dee Why Facility	Inman ROAD	Other Industry	Contamination currently regulated under CLM Act	-33.73834964	151.2876392
DEL WITH	Service Station and Caravan Park	Illinoi NOAD	Other maastry	regulated under CENTACE	33.73034304	131.2070332
DENHAM COURT	Denham Court	505 Campbelltown ROAD	Service Station	Under assessment	-33.98208395	150.8459471
	Shell Coles Express Service	·		Contamination formerly		
DENILIQUIN	Station	336 Victoria STREET	Service Station	regulated under the CLM Act	-35.52373613	144.9807345
		365, 369 and 329-331 George and				
DENILIQUIN	Former Deniliquin Gasworks	380 and 386 Charlotte STREET	Gasworks	Under assessment	-35.52663588	144.9634994
	Landmark Fertiliser Storage			Regulation under CLM Act not		
DENILIQUIN	Facility	99-101 Davidson STREET	Chemical Industry	required	-35.52534735	144.975142
		116-118 Hardinge (Cnr Wood St)		Regulation under CLM Act not		
DENILIQUIN	Former Deniliquin Caltex Depot	STREET	Service Station	required	-35.53196985	144.9544597
				Regulation under CLM Act not		
DENILIQUIN	BP Depot (Reliance Petroleum)	125 - 127 Hardinge STREET	Service Station	required	-35.53222124	144.9517397
DENILIOLUM	Former Shell Danet	142 147 Nanior STREET	Other Petroleum	Regulation under CLM Act not	25 5242255	144.0524.00
DENILIQUIN	Former Shell Depot	143-147 Napier STREET	Other Petroleum	required	-35.5342355	144.953169

List current as of 4 June 2019 20 of 80

Suburb	SiteName	Address	Contamination Activity Type	ManagementClass	Latitude	Longitude
				Regulation under CLM Act not		
DENMAN	Former Industrial Site	10 Fontana WAY	Metal Industry	required	-32.37945456	150.6868239
				Regulation under CLM Act not		
DENMAN	Former Industrial Site	9 Fontana WAY	Metal Industry	required	-32.37911159	150.6869866
DORA CREEK	Former Service Station	4 Doree PLACE	Service Station	Under assessment	-33.08452746	151.502415
DOINT CHEEK	Torrier Service Station	T DOTCE TELEE	Service Station	Regulation under CLM Act not	33.00432740	131.302-13
DOYALSON	Part Lot 3 DP 259306	Off David STREET	Other Industry	required	-33.20436131	151.5232558
		(Central Coast Highway) Scenic	,	Regulation under CLM Act not		
DOYALSON	Munmorah Power Station	DRIVE	Unclassified	required	-33.20678347	151.540795
	Mannering Colliery (formerly			Regulation under CLM Act not		
DOYALSON	Wyee)	Rutleys ROAD	Other Industry	required	-33.17179576	151.5419248
				Regulation under CLM Act not		
DOYALSON NORTH	Caltex Service Station	235 Pacific HIGHWAY	Service Station	required	-33.18501024	151.5526114
	Shell Coles Express Service			Regulation under CLM Act not		
DOYALSON NORTH	Station	260-270 Pacific HIGHWAY	Service Station	required	-33.18636608	151.5482399
	Coles Express Service Station			Regulation under CLM Act not		
DRUMMOYNE	Drummoyne (Eastbound)	36-46 Victoria ROAD	Service Station	required	-33.85576628	151.1593519
DDI IN AN AOVANE	Farmer Day Classes	225 Michaela BOAD	Character Handwater	Regulation under CLM Act not	22.0507452	454 4527442
DRUMMOYNE	Former Dry Cleaners	225 Victoria ROAD	Chemical Industry	required	-33.8507152	151.1537113
DRUMMOYNE	Coles Express Service Station Drummoyne South (Westbound)	39-45 Victoria ROAD	Service Station	Regulation under CLM Act not required	-33.85606575	151.1589061
DROWINGTIVE	Brunnoyne South (Westbound)	35-43 VICTORIA NOAD	Service Station	Regulation under CLM Act not	-53.83000373	131.1389001
DRUMMOYNE	Caltex Service Station	191-195 Lyons ROAD	Service Station	required	-33.85699216	151.1460356
DROWNOTHE	BP Reliance Petroleum Service	131 133 LYONS NOVE	Service Station	Regulation under CLM Act not	33.03033210	131.1400330
DUBBO	Station (Former Mobil Depot)	107 Erskine STREET	Other Petroleum	required	-32.24441287	148.6111704
	, , , , , , , , , , , , , , , , , , , ,			Regulation under CLM Act not		
DUBBO	Dubbo Police Station	143 Brisbane STREET	Other Petroleum	required	-32.24652288	148.6034702
	Shell Coles Express Service			Regulation under CLM Act not		
DUBBO	Station	131-133 Cobra STREET	Service Station	required	-32.25511317	148.6126147
	Shell Coles Express Service			Regulation under CLM Act not		
DUBBO	Station	45-49 Whylandra STREET	Service Station	required	-32.2474598	148.5932769
				Regulation under CLM Act not		
DUBBO	Former Mobil depot	40-44 Morgan STREET	Other Petroleum	required	-32.23912277	148.6182711
				Regulation under CLM Act not		
DUBBO	Caltex Service Station, Dubbo	60 Windsor PARADE	Service Station	required	-32.25459322	148.6318
DUBBO	BP-Branded Service Station	E1 62 Whylandra STREET	Service Station	Regulation under CLM Act not required	-32.24827657	148.5927084
טפטט	Dubbo West Lowes Petroleum (BP-Branded)	51-63 Whylandra STREET	Service Station	Regulation under CLM Act not	-52.2462/05/	140.392/084
DUBBO	Depot, Dubbo	105 Erskine STREET	Service Station	required	-32.24423247	148.6101676
20000	Inland Petroleum (Former Shell)	100 LISKING STREET	Jet vice Station	Regulation under CLM Act not	52.24425247	140.0101070
DUBBO	Depot	109 Erskine STREET	Other Petroleum	required	-32.24470512	148.6124108
-	-1			Regulation under CLM Act not	52.2 / 6522	
DUBBO	Former Caltex Depot	Phillip (corner Fitzroy) STREET	Service Station	required	-32.24534863	148.6150144

List current as of 4 June 2019 21 of 80

Suburb	SiteName	Address	Contamination Activity Type	ManagementClass	Latitude	Longitude
				Regulation under CLM Act not		
DUBBO	Caltex Service Station	119 Bourke STREET	Service Station	required	-32.24336464	148.6091931
5,155				Contamination formerly	22.2425255	
DUBBO	Former Ambulance Station	165 Brisbane STREET	Other Petroleum	regulated under the CLM Act	-32.24850755	148.6031749
DUBBO	United (former Volume Plus) Service Station	219-223 Cobra STREET	Service Station	Regulation under CLM Act not required	-32.2565155	148.6228586
ровьо	Service Station	Cnr Brisbane Street and Cobra	Service Station	Contamination currently	-32.2303133	148.0228380
DUBBO	Caltex Service Station, Dubbo	STREET	Service Station	regulated under CLM Act	-32.25322183	148.603164
D0000	Curex Service Station, Bubbo	JIKEL	Service Station	Regulation under CLM Act not	32.23322103	140.003104
DULWICH HILL	Former Tyre Recapping	115-117 Constitution ROAD	Other Industry	required	-33.90300876	151.1387724
	7		,	Regulation under CLM Act not		
DULWICH HILL	Denison Road Playground	194 Denison ROAD	Landfill	required	-33.90121956	151.1404637
				Regulation under CLM Act not		
DUNEDOO	Former Shell Depot Dunedoo	Cnr Bolaro and Redbank STREET	Other Petroleum	required	-32.01565761	149.3922418
				Regulation under CLM Act not		
DUNGOG	Lot 54 Common Rd	54 Common ROAD	Unclassified	required	-32.39490989	151.739821
	Former HWC Maintenance Depot			Regulation under CLM Act not		
DUNGOG	for Civil Engineering Works	86 Abelard STREET	Other Industry	required	-32.40429396	151.7514073
				Regulation under CLM Act not		
DUNMORE	Equestrian Centre	71 Fig Hill LANE	Unclassified	required	-34.62313393	150.8421544
DUDAI	Caltan Dural Camina Station	017 022 Old North are DOAD	Camina Station	Regulation under CLM Act not	22 (0212075	151 0387510
DURAL	Caltex Dural Service Station	917-923 Old Northern ROAD	Service Station	required	-33.68312075	151.0287519
DURAL	BP Dural Service Station	580 Old Northern ROAD	Service Station	Regulation under CLM Act not required	-33.69569985	151.0283357
DONAL	Br Durai Service Station	380 Old NOTTHETH NOAD	Service Station	Regulation under CLM Act not	-33.09309983	131.0283337
DURAL	Caltex Service Station	530 Old Northern ROAD	Service Station	required	-33.69348472	151.0202716
	Current Service Station	SSS SIG NOTCHELL NO.12	Service Station	Regulation under CLM Act not	33.633.617	131.0202710
DURAL	Woolworths Service Station	532 Old Northern ROAD	Service Station	required	-33.69348472	151.0202716
		Corner Eagle Vale Drive and		Regulation under CLM Act not		
EAGLE VALE	BP Service Station	Gould ROAD	Service Station	required	-34.03128043	150.816363
				Contamination currently		
EARLWOOD	RTA Land	3 Jackson PLACE	Unclassified	regulated under CLM Act	-33.9272087	151.1432854
				Regulation under CLM Act not		
EARLWOOD	Wolli Creek Aqueduct	Unwin STREET	Unclassified	required	-33.92788788	151.1480807
				l		
EARLWOOD	2, 4 & 6 Unwin Street	2, 4 & 6 Unwin STREET	Landfill	Under assessment	-33.926815	151.149503
EAST BALLINA	Caltex East Ballina Service Station	24 Links AVENUE	Service Station	Regulation under CLM Act not required	-28.85009113	153.5829246
EAST BALLINA	Cartex East Bailina Service Station	34 LIIIKS AVENUE	Service Station	Regulation under CLM Act not	-28.83009113	133.3829240
EAST GOSFORD	Presbyterian Aged Care Facility	8-18 Enid CRESCENT	Landfill	required	-33.4376675	151.3577947
27.01 3031 0110	r respyterial Aged care racility	O TO LING CILECTIVI	Lanami	Contamination formerly	33.4370073	131.3377947
EAST GOSFORD	Mobil Service Station	44 Victoria STREET	Service Station	regulated under the CLM Act	-33.43804781	151.353303
				3	5555065	
EAST GOSFORD	Hylton Moore Park	Althrop STREET	Landfill	Under assessment	-33.43521607	151.3600229

List current as of 4 June 2019 22 of 80

Suburb	SiteName	Address	Contamination Activity Type	ManagementClass	Latitude	Longitude
345415	United Service Station East	164 (also known as 250)	Contamination Activity Type	Regulation under CLM Act not	Latitude	Longitude
EAST MAITLAND	Maitland	Newcastle STREET	Service Station	required	-32.75248998	151.5869338
EAST MAITLAND	Woolworths Caltex Green Hills	14 Mitchell DRIVE	Service Station	Under assessment	-32.7616	151.59321
		Corner Melbourne Street and		Regulation under CLM Act not		
EAST MAITLAND	Former Gasworks Site	Brisbane STREET	Gasworks	required	-32.74939199	151.5788783
	Caltex East Maitland Service	Newcastle Road, Corner William		Regulation under CLM Act not		
EAST MAITLAND	Station	STREET	Service Station	required	-32.74883712	151.5829296
				Regulation under CLM Act not		
EAST TAMWORTH	Caltex Service Station	350-362 Armidale ROAD	Service Station	required	-31.11401974	150.9613327
EACTEDNI CDEEK	Caltay Sandaa Station	M4 (Eastbound) MOTORWAY	Service Station	Regulation under CLM Act not required	-33.801607	150 9957090
EASTERN CREEK	Caltex Service Station	Wi4 (Eastbourid) WOTORWAY	Service Station	'	-33.801007	150.8857989
EASTERN CREEK	Caltex Service Station M4 Motorway Westbound	M4 (Westbound) MOTORWAY	Service Station	Regulation under CLM Act not required	-33.80255701	150.8829211
EASTERN CREEK	Fulton Hogan Industries (formerly	Westbouria) WoTokwat	Service Station	Regulation under CLM Act not	-53.80253701	130.8829211
EASTERN CREEK	Pioneer Road Services)	Honeycomb DRIVE	Other Industry	required	-33.80231274	150.8288299
EN STERNY GIVEEN	130-150 Bunnerong Road	nencycomic branc	Jener maaser,	Regulation under CLM Act not	33.0023127	150.0200255
EASTGARDENS	Eastgardens	130 - 150 Bunnerong ROAD	Other Industry	required	-33.94230414	151.2248138
	Former Shell Rosebery service		,	Contamination formerly		
EASTLAKES	station and adjacent land	275-279 Gardeners ROAD	Service Station	regulated under the CLM Act	-33.92470279	151.2100722
	j			Contamination formerly		
EASTLAKES	Eastlakes Reserve	Evans AVENUE	Service Station	regulated under the CLM Act	-33.92497291	151.2102725
				Contamination formerly		
EASTLAKES	Budget Petroleum Eastlakes	102 Maloney STREET	Service Station	regulated under the CLM Act	-33.93096702	151.2056606
				Contamination formerly		
EASTLAKES	Budget Petroleum Eastlakes	102 Maloney STREET	Service Station	regulated under the CLM Act	-33.93120382	151.2054267
				Regulation under CLM Act not		
EASTLAKES	73 Gardeners Road	73 Gardeners ROAD	Unclassified	required	-33.92541594	151.2182856
	Former Mobil Service Station	3-5 Trelawney (Cnr Rutledge St)		Regulation under CLM Act not		
EASTWOOD	Eastwood	STREET	Service Station	required	-33.79273381	151.079584
				Regulation under CLM Act not		
EDEN	Caltex Service Station	159 Imlay STREET	Service Station	required	-37.06324099	149.9044022
EDEN	Former Caltey Eden Denet	90 92 Imlay STREET	Consider Station	Contamination currently	-37.0570984	149.9038538
EDEIN	Former Caltex Eden Depot	80-82 Imlay STREET	Service Station	regulated under CLM Act	-37.0370984	149.9038338
EDENSOR PARK	Caltex Bonnyrigg Service Station, Edensor Park	549 Elizabeth DRIVE	Service Station	Regulation under CLM Act not required	-33.88840816	150.8822609
LDENSON FAIR	7-Eleven (former Mobil) Service	615-621 Cowpasture Road (Cnr	Service Station	Regulation under CLM Act not	-55.08040810	150.8822009
EDENSOR PARK	Station	Elizabeth) DRIVE	Service Station	required	-33.88326139	150.865591
	BP-branded (former Coles			Regulation under CLM Act not	55.55520155	155.655551
EDGECLIFF	Express) Service Station	73-85A New South Head ROAD	Service Station	required	-33.8769602	151.2311617
	, , , , , , , , , , , , , , , , , , , ,			Regulation under CLM Act not		
EDGEWORTH	Caltex Service Station	662 Main ROAD	Service Station	required	-32.92566329	151.6278888
EDGEWORTH	Woolworths Edgeworth	738-742 Main ROAD	Service Station	Under assessment	-32.92455492	151.6202897

List current as of 4 June 2019 23 of 80

Suburb	SiteName	Address	Contamination Activity Type	ManagementClass	Latitude	Longitude
	Shell Coles Express Woolgoolga			Regulation under CLM Act not		
EMERALD BEACH	Service Station	1850 Pacific HIGHWAY	Service Station	required	-30.16450856	153.1826673
				Regulation under CLM Act not		
EMERTON	7-Eleven Emerton	135-137 Popondetta ROAD	Service Station	required	-33.74463908	150.8102251
5. 4 5. O <del>T</del> O	<b>7</b> - 1	425 01 12 11 1 20 20		Regulation under CLM Act not	22 7 420000	450 65 47000
EMU HEIGHTS	7-Eleven Service Station	126 Old Bathurst ROAD	Service Station	required	-33.74299098	150.6547098
EMU HEIGHTS	Machinerths Comiss Station	133 Old Bathwest BOAD	Service Station	Regulation under CLM Act not	-33.7429739	150 6550655
EIVIO REIGRIS	Woolworths Service Station	132 Old Bathurst ROAD	Service Station	required SIAA Astront	-33.7429739	150.6559655
EMU PLAINS	Woolworths Service Station	283 Great Western HIGHWAY	Service Station	Regulation under CLM Act not required	-33.75371349	150.6530165
LIVIO F LAINS	Woolworth's Service Station	283 Great Western Highwar	Service Station	Regulation under CLM Act not	-55.75571549	130.0330103
ENGADINE	Former Caltex Service Station	995 Old Princes HIGHWAY	Service Station	required	-34.06413459	151.0155734
ENGABINE	Torrier careex service station	333 Gla i illices illicitiviti	Service Station	Contamination currently	34.00413433	131.0133734
ENGADINE	BP Service Station	1234 Princes HIGHWAY	Service Station	regulated under CLM Act	-34.07735416	151.01121
				Contamination currently		
ENGADINE	BP Branded Service Station	963 Old Princes HIGHWAY	Service Station	regulated under CLM Act	-34.06428454	151.0167121
	7-Eleven (former Mobil) Service			Regulation under CLM Act not	_	
EPPING	Station	246 Beecroft ROAD	Service Station	required	-33.77073552	151.080581
	Coles Express Service Station			Regulation under CLM Act not		
ERINA	Erina	211 The Entrance ROAD	Service Station	required	-33.43547804	151.3850522
				Regulation under CLM Act not		
ERINA	7-Eleven Erina	214 The Entrance ROAD	Service Station	required	-33.43494257	151.3879511
				Regulation under CLM Act not		
ERINA	7-Eleven Service Station	96 The Entrance ROAD	Service Station	required	-33.43786868	151.3729331
	Former Frozen Food Distribution			Contamination currently		
ERINA	Depot	1 Aston ROAD	Other Petroleum	regulated under CLM Act	-33.434878	151.3845431
				Regulation under CLM Act not		
ERINA	Caltex Service Station	155 The Entrance ROAD	Service Station	required	-33.43824871	151.3801096
				Regulation under CLM Act not		
ERMINGTON	Blue Star Ermington	700 Victoria ROAD	Service Station	required	-33.808595	151.066004
FDMINICTON	Caltan Camina Station	FC2 Vieterie BOAD	Comice Station	Regulation under CLM Act not	22.04.20.204.4	151.0547543
ERMINGTON	Caltex Service Station	562 Victoria ROAD	Service Station	required SIAA Astront	-33.81392814	151.0547543
ERSKINE PARK	Western Sydney Service Centre	25-55 Templar ROAD	Other Industry	Regulation under CLM Act not required	-33.81897822	150.7937394
ENJKINE PANK		23-33 Tellipiai NOAD	Other industry	· ·	-53.0103/022	130.7937394
ERSKINEVILLE	Redevelopment Site (Former Industrial Park) Erskineville	36/1A Coulson STREET	Other Industry	Regulation under CLM Act not required	-33.90325501	151.1855668
ENSKINE VILLE	industrial Farky Erskinevine	30/ IA COUISON STREET	Other madstry	Regulation under CLM Act not	33.30323301	151.1055000
ERSKINEVILLE	Department of Housing	52 John STREET	Other Industry	required	-33.8982925	151.1840284
			,	Regulation under CLM Act not		
ERSKINEVILLE	RailCorp land	Coulson STREET	Other Industry	required	-33.90279502	151.1846827
	22 12 2	-	,			
ERSKINEVILLE	Lot 4/1A Coulson Street	Coulson STREET	Other Industry	Under assessment	-33.90316549	151.1867963
	Area B - Public Domain / The			Regulation under CLM Act not		
ERSKINEVILLE	Roadway	1A Coulson STREET	Other Petroleum	required	-33.90479634	151.1871194

List current as of 4 June 2019 24 of 80

Suburb	SiteName	Address	Contamination Activity Type	ManagementClass	Latitude	Longitude
Suburb		Address	Contamination Activity Type	Regulation under CLM Act not	Latitude	Longitude
EUABALONG WEST	BP Euabalong West Depot (Reliance Petroleum)	12 Illewong STREET	Other Petroleum	required	-33.05720426	146.3946386
20/10/120110 17201	(nemanice real one ann)	22	other retroicum	Regulation under CLM Act not	33103720120	1 10.03 10300
EVANS HEAD	Evans Head Aerodrome	Memorial Airport DRIVE	Other Industry	required	-29.10389976	153.4216791
		·	,	Regulation under CLM Act not		
EVANS HEAD	Bundjalung National Park	The Gap ROAD	Unclassified	required	-29.24433977	153.3626472
	Evans Head Residential	Woodburn, Carrabeen Streets		Regulation under CLM Act not		
EVANS HEAD	subdivision	and Tuckeroo CRESCENT	Unclassified	required	-29.1080969	153.4243577
				via the planning process (EP&A		
EVELEIGH	Macdonaldtown Triangle	Burren STREET	Gasworks	Act)	-33.89803492	151.186059
				Regulation under CLM Act not		
EVELEIGH	Australian Technology Park	Henderson ROAD	Other Industry	required	-33.89634136	151.1944915
1	Endeavour Energy Fairfield Zone			Regulation under CLM Act not		
FAIRFIELD	Substation	22 Hedges STREET	Other Industry	required	-33.86133019	150.9555899
	Speedway-Branded Service			Regulation under CLM Act not		
FAIRFIELD EAST	Station Fairfield	251 The Horsley DRIVE	Service Station	required	-33.8711661	150.9630077
EAIDEIEI D LIEICUTC	7 Flavor Fairfield Heimbre	234 Hamilton (Cnr The	Comice Station	Regulation under CLM Act not	22.07200474	150 0272124
FAIRFIELD HEIGHTS	7-Eleven Fairfield Heights	Boulevarde) ROAD	Service Station	required	-33.87208474	150.9373134
FAIRY MEADOW	Woolworths Petrol Service Station	47 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-34.39399705	150.8925369
FAIRT WEADOW		47 Princes Highway	Service Station	'	-34.39399703	150.8925509
FAIRY MEADOW	Caltex Fuel Depot and adjoining land	46 Montague STREET	Service Station	Contamination formerly regulated under the CLM Act	-34.40050499	150.8953125
TAIRT WEADOW	land	40 Worklague STREET	Service Station	Regulation under CLM Act not	34.40030433	130.0333123
FAIRY MEADOW	Deynal (Seeman)	51-59 Princes HIGHWAY	Service Station	required	-34.39437085	150.8924666
	Farley Wastewater Treatment	32 33 1 1111003 111011111111	Service Station	Regulation under CLM Act not	3 1133 137 333	130,032,000
FARLEY	Works	Owlpen LANE	Other Industry	required	-32.74431314	151.5194217
		·	,	Regulation under CLM Act not		
FASSIFERN	Newstan Colliery	Fassifern ROAD	Other Industry	required	-32.97942521	151.5660046
				Regulation under CLM Act not		
FASSIFERN	Former Arsenic Smelter	Fassifern ROAD	Other Industry	required	-32.99649819	151.5618283
				Contamination formerly		
FEDERAL	Federal General Store	3-6 Federal DRIVE	Service Station	regulated under the CLM Act	-28.65190728	153.4552976
		37 Fullerton (1006 Nelson Bay		Regulation under CLM Act not		
FERN BAY	Former service station	Road) STREET	Service Station	required	-32.87245004	151.7939904
	7-Eleven Five Dock Service			Regulation under CLM Act not		
FIVE DOCK	Station	231-235 Great North ROAD	Service Station	required	-33.86488376	151.130002
EU / E D 0 0 / /		47 Ramsay Road, corner Fairlight		Regulation under CLM Act not		454 4004005
FIVE DOCK	Caltex Five Dock Service Station	STREET	Service Station	required	-33.87002804	151.1301835
FORREC	DD (Former Mahil) Donat Forbas	2 45 Union CTREET	Oth or Botrolous	Regulation under CLM Act not	22 27754077	149.0101422
FORBES	BP (Former Mobil) Depot Forbes	3-15 Union STREET	Other Petroleum	required	-33.37751977	148.0101422
FORBES	Former Gasworks	24-26 Union STREET	Gasworks	Contamination currently regulated under CLM Act	-33.37752036	148.0090064
IONDES	Woolworths (Former Save on	27 20 OHIOH STREET	Gusworks	Regulation under CLM Act not	-33.37732030	148.0090004
FORBES	Fuel) Service Station	26 Dowling STREET	Service Station	required	-33.38148764	148.0109845
TOTOLS	i dell service station	20 DOWNING STREET	Service Station	J. C. Gan. Cu	33.36146704	140.0103843

List current as of 4 June 2019 25 of 80

Suburb	SiteName	Address	Contamination Activity Type	ManagementClass	Latitude	Longitude
				Regulation under CLM Act not		
FORBES	BP Service Station Forbes	29 Dowling STREET	Other Petroleum	required	-33.38121776	148.0100351
				Regulation under CLM Act not		
FORBES	Former Shell Depot	Stephen STREET	Other Petroleum	required	-33.37704755	148.0103001
FORBES	Caltan Camina Station Fanhan	Dayles DOAD	Coming Station	Regulation under CLM Act not	22 2622274	140,0222727
FORBES	Caltex Service Station Forbes	Parkes ROAD	Service Station	required	-33.36333714	148.0223727
FORESTVILLE	BP Service Station	632 Warringah ROAD	Service Station	Contamination currently regulated under CLM Act	-33.75997969	151.2142944
TORESTVILLE	Dr Service Station	032 Waltingali NOAD	Service Station	Contamination currently	-33.73997903	131.2142344
FORESTVILLE	Shell Service Station	667 Warringah ROAD	Service Station	regulated under CLM Act	-33.76035336	151.2184929
		The Entrance Rd Cnr Bellevue		Regulation under CLM Act not		
FORRESTERS BEACH	Caltex Service Station	ROAD	Service Station	required	-33.40057818	151.4687631
				Regulation under CLM Act not		
FORSTER	Caltex Service Station	16-18 Lake STREET	Service Station	required	-32.18306967	152.5162492
				Regulation under CLM Act not		
FORSTER	Shell (Kneebone's) Service Station	2-6 The Lakes WAY	Service Station	required	-32.1946108	152.5145662
	Enhance (Former Mobil) Service			Regulation under CLM Act not		
FORSTER	Station	86-88 Macintosh STREET	Service Station	required	-32.19079468	152.5154847
				Regulation under CLM Act not		
FREDERICKTON	Former Service station	2-4 Great North ROAD	Service Station	required	-31.03513998	152.8794105
				Regulation under CLM Act not		
FRENCHS FOREST	Former BP Service Station	Russell AVENUE	Service Station	required	-33.75018093	151.2245005
EDENICUE FORECT	Hill Service Station, Frenchs	212 Wassingsh BOAD	Coming Station	Regulation under CLM Act not	22.75120645	151 2460656
FRENCHS FOREST	Forest	312 Warringah ROAD	Service Station	required	-33.75129647	151.2469656
FRESHWATER	Prime Service Station Freshwater	117 Harbord ROAD	Service Station	Regulation under CLM Act not required	-33.77286748	151.2794354
TRESTIWATER	Trime Service Station Treshwater	TIT Harbord NOAD	Service Station	Regulation under CLM Act not	33.77200740	131.2734334
GEORGETOWN	Former Caltex Service Station	4 Georgetown ROAD	Service Station	required	-32.91121105	151.7319693
		3 - 1 - 2		Regulation under CLM Act not		
GERRINGONG	Gerringong Cooperative	18 Belinda STREET	Other Petroleum	required	-34.74518835	150.8181054
	United (Former Mobil) Service			Regulation under CLM Act not		
GILGANDRA	Station	13 Castlereagh STREET	Service Station	required	-31.71715641	148.6581574
				Regulation under CLM Act not		
GILGANDRA	Former Mobil Depot	2 Federation STREET	Other Petroleum	required	-31.70937362	148.6522102
				Regulation under CLM Act not		
GILGANDRA	Former Mobil Depot	20 Federation STREET	Other Petroleum	required	-31.70771744	148.6514198
				Regulation under CLM Act not		
GILGANDRA	Caltex Service Station Gilgandra	6425 Newell HIGHWAY	Service Station	required	-31.72545524	148.65281
CHIENDALI	Caltex (Former Mobil) Narrandera	16331 16335 Novell HIGHWAY	Complete Charlier	Regulation under CLM Act not	24.76424246	146 5200604
GILLENBAH	Service Station	16321 - 16335 Newell HIGHWAY	Service Station	required	-34.76124219	146.5398604
GIRRAWEEN	Industrial Galvanizers site	20-22 Amax AVENUE	Metal Industry	Contamination currently regulated under POEO Act	-33.80500693	150.9396743
OINNAWEEN	Caltex Pendle Hill Service Station	20-22 AIIIdX AVENUE	iviciai illuusti y	Regulation under CLM Act not	-55.80500093	130.9596743
GIRRAWEEN	Girraween	602 Great Western HIGHWAY	Service Station	required	-33.80827518	150.9421511

List current as of 4 June 2019 26 of 80

Suburb	SiteName	Address	Contamination Activity Type	ManagementClass	Latitude	Longitude
				Regulation under CLM Act not		
GLADESVILLE	Caltex Service Station	287-295 Victoria ROAD	Service Station	required	-33.8285374	151.1268639
				Regulation under CLM Act not		
GLADESVILLE	Road Reserve	Pittwater ROAD	Other Industry	required	-33.81603924	151.1355085
GLADESVILLE	Caltay Carries Station	116 Victoria ROAD	Service Station	Regulation under CLM Act not required	22 92575246	151.1277863
GLADESVILLE	Caltex Service Station	116 VICTORIA ROAD	Service Station	required	-33.83575319	151.1277805
GLADESVILLE	Glade View Business Park	436-484 Victoria ROAD	Other Industry	Under assessment	-33.82382382	151.1223941
				Regulation under CLM Act not		
GLEBE	The Hill and Jubilee Embankment	12 Maxwell ROAD	Other Industry	required	-33.87573032	151.1776027
				Regulation under CLM Act not		
GLEN INNES	Ambulance Station	106 Bourke STREET	Unclassified	required	-29.73805854	151.7313138
				Regulation under CLM Act not		
GLEN INNES	Telstra Depot Glen Innes	126 Lambeth STREET	Unclassified	required	-29.73565341	151.7278271
		Meade Street, corner Church		Regulation under CLM Act not		
GLEN INNES	Caltex Glen Innes Service Station	STREET	Service Station	required	-29.73699014	151.7379335
GLEN INNES	Former Shell Depot	Lambeth STREET	Other Petroleum	Regulation under CLM Act not required	-29.7376309	151.7276309
GLEIN ININES	Former Silen Depot	Lambeth STREET	Other Petroleum		-29.7376305	151.7276309
GLEN INNES	Former Caltex Depot, Glen Innes	Lot 1 DP785636 Lambeth STREET	Other Petroleum	Regulation under CLM Act not required	-29.73525485	151.7279167
OLEN HAVES	Torrier editex Depot, dien miles	LOCAL DI 703030 LUMBERT STREET	other retroleum	Regulation under CLM Act not	23.73323403	131.72,3107
GLEN INNES	Council-owned Laneway	Lot 2 Lang STREET	Gasworks	required	-29.74385432	151.7323049
		Cnr Taylor Street & Church		Regulation under CLM Act not		
GLEN INNES	Caltex Service Station	STREET	Service Station	required	-29.73289036	151.739653
				Regulation under CLM Act not		
GLEN INNES	Caltex Glen Innes Paddock	9979 New England HIGHWAY	Service Station	required	-29.75608853	151.7344106
				Regulation under CLM Act not		
GLENBROOK	Caltex Service Station Glenbrook	78 Great Western HIGHWAY	Service Station	required	-33.76545234	150.6215447
				Regulation under CLM Act not		
GLENDALE	Coles Express Glendale	593 Main ROAD	Service Station	required	-32.92709242	151.637946
GLENDALE	Settlement Pond	65 Glendale DRIVE	Unclassified	Under assessment	-32.93411399	151.6483695
				Regulation under CLM Act not		
GLENDALE	Former Service Station	334-342 Lake ROAD	Unclassified	required	-32.92775076	151.6433463
				Regulation under CLM Act not		
GLENDALE	Woolworths Service Station	Stockland DRIVE	Service Station	required	-32.93250548	151.6404097
	7-Eleven Plumpton Service	1 Dublin Street, corner Richmond		Regulation under CLM Act not		
GLENDENNING	Station Glendenning	ROAD	Service Station	required	-33.73988232	150.8603323
				Regulation under CLM Act not		
GLENORIE	Caltex Glenorie Service Station	912 Old Northern ROAD	Service Station	required	-33.60550946	5 151.0126731
CLENTHODA'S	Called Tarris Co. 1. Ct. 11	Manada a Disaa DON 75	Carrier Chatter	Regulation under CLM Act not	24 244:	4-0 4-0
GLENTHORNE	Caltex Taree Service Station	Manning River DRIVE	Service Station	required	-31.94415251	152.4703511
GLOUCESTER	Caltex Service Station	141 Church STREET	Service Station	Regulation under CLM Act not required	-32.01222514	151.9579521
GLOUCESTER	Cartex Service Station	141 CHUICH STREET	Jei vice Station	required	-32.01222514	151.95/9521

List current as of 4 June 2019 27 of 80

Suburb	SiteName	Address	Contamination Activity Type	ManagementClass	Latitude	Longitude
				Regulation under CLM Act not		
GOOLMANGAR	Goolmangar General Store	851 Nimbin ROAD	Service Station	required	-28.74694441	153.225401
	Former Invercauld Road Cattle	110010	a will be	Contamination currently	20.000011	450,000000
GOONELLABAH	Dip	161 Invercauld ROAD	Cattle Dip	regulated under CLM Act	-28.8308417	153.3098878
GOSFORD	United (former Mobil) Denet	Corner Merinee Road and Bowen CRESCENT	Other Detroloum	Regulation under CLM Act not required	-33.41523225	151 2257060
GOSFORD	United (former Mobil) Depot	CRESCENT	Other Petroleum	·	-33.41323223	151.3257069
GOULBURN	Former Goulburn Gasworks	1 Blackshaw ROAD	Gasworks	Contamination currently regulated under CLM Act	-34.75237525	149.725507
GOOLBOIN	Torrier Godibarri Gasworks	I blackshaw ROAD	Gasworks	Regulation under CLM Act not	-34.73237323	149.723307
GOULBURN	Goulburn Tannery	13 Gibson STREET	Other Industry	required	-34.73756525	149.72059
GOOLDONN	Godiburn runnery	13 GIBSON STREET	Other maastry	Regulation under CLM Act not	34.73730323	143.72033
GOULBURN	Caltex Depot	13 Sloane STREET	Other Petroleum	required	-34.77423152	149.7088626
				Regulation under CLM Act not		
GOULBURN	Metro Goulburn Depot	23 Braidwood ROAD	Other Petroleum	required	-34.76217302	149.7170897
				Regulation under CLM Act not		
GOULBURN	Caltex Service Station	72-74 Clinton STREET	Service Station	required	-34.75728157	149.7135824
				Regulation under CLM Act not		
GOULBURN	Caltex Service Station	68 Goldsmith STREET	Service Station	required	-34.75054432	149.7192098
	Former Shell Autoport Service	Corner Bruce Street and Lagoon		Regulation under CLM Act not		
GOULBURN	Station	STREET	Service Station	required	-34.74807885	149.7266246
		90 Cowper (Corner Clinton Street)		Regulation under CLM Act not		
GOULBURN	Coles Express Service Station	STREET	Service Station	required	-34.75566648	149.7107831
				Contamination formerly		
GOULBURN	Mobil Service Station	129 Lagoon STREET	Service Station	regulated under the CLM Act	-34.74618793	149.7330484
		315 Auburn, corner Bradley		Regulation under CLM Act not		
GOULBURN	Caltex Service Station	STREET	Service Station	required	-34.74942293	149.7232692
	Former Mobil Service Station			Regulation under CLM Act not		
GOULBURN	Goulburn	422-426 Auburn STREET	Service Station	required	-34.74869879	149.7229392
	Former General Store and Service			Regulation under CLM Act not		
GRAFTON	Station Grafton	161 Turf STREET	Service Station	required	-29.67412811	152.9336609
CDAFTON	Lowes Petroleum (BP-Branded)	12 One of CTREET	Other Detroles	Regulation under CLM Act not	20.6704.6424	452.0404.64
GRAFTON	Depot, Grafton	13 Orara STREET	Other Petroleum	required	-29.67016421	152.918161
CDAFTON	Former Shell Denot	2 Milton STREET	Other Petroleum	Regulation under CLM Act not	-29.67723019	152.9205374
GRAFTON	Former Shell Depot	2 Millon STREET	Other Petroleum	required CIAA Astron	-29.07/23019	132.9203374
GRAFTON	Grafton Works Depot	26-28 Bruce STREET	Other Petroleum	Regulation under CLM Act not required	-29.67975507	152.9249357
GRAFION	'	20-28 Bluce STREET	Other retroleum	'	-29.07973307	132.9249337
GRAFTON	Former BP Service Station (Reliance Petroleum)	202 Queen STREET	Service Station	Regulation under CLM Act not required	-29.67645469	152.9423977
OTAL TON	(Renarice Fetroleum)	75 - 77 Fitzroy Street Cnr of Duke	Service Station	Regulation under CLM Act not	25.07045405	132.5423577
GRAFTON	Woolworths Petrol	STREET	Service Station	required	-29.69221713	152.9343562
		Corner Villiers St and Fitzroy		Regulation under CLM Act not	23.03221713	102.50 .5502
GRAFTON	Caltex Service Station	STREET	Service Station	required	-29.69296308	152.9366431
	BP Service Station (Reliance			Regulation under CLM Act not		
GRAFTON	Petroleum)	14 Villiers (Cnr Fitzroy) STREET	Service Station	required	-29.69345456	152.9373123

List current as of 4 June 2019 28 of 80

Suburb	SiteName	Address	Contamination Activity Type	ManagementClass	Latitude	Longitude
				Regulation under CLM Act not		
GRAFTON	Former Mobil Depot Grafton	2-16 Bruce STREET	Other Petroleum	required	-29.68093591	152.9231289
00.4570.1		470 D : CTD557		Regulation under CLM Act not	20 5050011	450,0074,000
GRAFTON	Caltex Service Station	179 Prince STREET	Service Station	required	-29.68600117	152.9371093
GRANVILLE	Caltex Service Station	144 Parramatta ROAD	Service Station	Regulation under CLM Act not required	-33.83039605	151.0109216
GRANVILLE	Cartex Service Station	144 Farramatta NOAD	Service Station	via the planning process (EP&A	-55.65059003	131.0109210
GRANVILLE	Australand	15-17 Berry STREET	Other Industry	Act)	-33.83600073	151.0211988
0.0.0.00	Woolworths Service Station	15 17 5611 7 511121	outer maddery	Regulation under CLM Act not	55.0500007.5	151/0211300
GRANVILLE	Granville	158 Clyde STREET	Service Station	required	-33.84623338	151.0124885
		,		manage residual contamination		
GRANVILLE	Commercial Property	2B Factory STREET	Other Industry	(CLM Act)	-33.84173556	151.0165687
				Regulation under CLM Act not		
GRANVILLE	Old Granville Depot	23 Elizabeth STREET	Unclassified	required	-33.83765925	151.008528
				Regulation under CLM Act not		
GRANVILLE	7-Eleven Service Station	154-160 Parramatta ROAD	Service Station	required	-33.83022685	151.0101322
GRANVILLE	A'Becketts Creek	Albert STREET	Unclassified	Under assessment	-33.82735397	151.0113643
				Regulation under CLM Act not		
GREENACRE	Former Plating Works	12 Claremont STREET	Unclassified	required	-33.89992254	151.0386128
GREENACRE	7-Eleven (former Mobil) Service	301-305 Hume HIGHWAY	Service Station	Regulation under CLM Act not	-33.90524488	3 151.0419971
GREENACKE	Station	301-303 nullie nignWAf	Service Station	required  Regulation under CLM Act not	-33.90324488	151.0419971
GREENACRE	Caltex Service Station	87 - 91 Roberts ROAD	Service Station	required	-33.90461089	151.0648581
GREENACKE	Gore Creek Reserve - Drainage	or stroberts road	Service Station	Regulation under CLM Act not	33.30401003	151:0040561
GREENWICH	Line	St Vincents ROAD	Other Industry	required	-33.82888693	151.1819101
				Regulation under CLM Act not		
GRENFELL	Former SRA Fuel Depot	Grafton STREET	Other Petroleum	required	-33.89351237	148.1560188
		Corner Gooloogong Road &		Regulation under CLM Act not		
GRENFELL	Grenfell Gasworks	Bourke STREET	Gasworks	required	-33.89006016	148.1615443
				Regulation under CLM Act not		
GRETA	Coles Express Greta	122 New England HIGHWAY	Service Station	required	-32.67656357	151.3872818
				Regulation under CLM Act not		
GRETA	redevelopment site	112-114 High STREET	Other Industry	required	-32.67706709	151.3876682
00574	- 1 100		. 16:11	Regulation under CLM Act not	22.6570720	
GRETA	Former landfill	Hollingshed ROAD	Landfill	required	-32.66705287	151.3923474
GREYSTANES	Metro Branded (former Mobil)	72 Ettalong POAD	Service Station	Regulation under CLM Act not required	-33.81822648	150.9513946
GRETSTAINES	Service Station Liberty Depot (former Shell	73 Ettalong ROAD	SELVICE STATION	Regulation under CLM Act not	-55.01022048	130.3313946
GRIFFITH	CVRO) Griffith	6-10 Mackay AVENUE	Other Petroleum	required	-34.2910045	146.063824
G.M.T.IIII	Former Murrumbidgee Irrigation	O TO WIGGRAY AVENUE	Other redoledill	Regulation under CLM Act not	-34.2310043	, 140.003624
GRIFFITH	Depot	55-77 Banna AVENUE	Other Industry	required	-34.28858242	146.0567509
	- F		/	Regulation under CLM Act not	5	_ :::::::::::::::::::::::::::::::::::::
GRIFFITH	Mobil Depot - Griffith Airport	Off Rememberance DRIVE	Other Petroleum	required	-34.25618872	146.0620449

List current as of 4 June 2019 29 of 80

Suburb	SiteName	Address	Contamination Activity Type	ManagementClass	Latitude	Longitude
				Regulation under CLM Act not		
GRIFFITH	Former Ampol Depot	32-34 Mackay AVENUE	Other Petroleum	required	-34.2933331	146.0679503
				Regulation under CLM Act not		
GRIFFITH	Caltex Service Station and Depot	2-4 Mackay AVENUE	Service Station	required	-34.2908766	146.0630815
	Former Landmark Fertiliser			Regulation under CLM Act not		
GRIFFITH	Storage Facility	2-8 Jensen ROAD	Chemical Industry	required	-34.29365599	146.0536413
001551711	Belford Petroleum (former Mobil)			Regulation under CLM Act not		
GRIFFITH	Depot	30 Banna AVENUE	Service Station	required	-34.29042827	146.0595497
CDIFFITH	Former BP Service Station	O1 Danie AVENUE	Coming Station	Regulation under CLM Act not	24 20051251	146.0540045
GRIFFITH	(Reliance Petroleum)	81 Banna AVENUE	Service Station	required	-34.28851251	. 146.0540815
GUILDFORD	7-Eleven Service Station Guildford West	176 Fowler ROAD	Service Station	Regulation under CLM Act not required	-33.85149493	150.9722491
GOILDFORD	Lowes Petroleum (former BP)	170 FOWIEI ROAD	Service Station	<u> </u>	-53.63145453	130.9722491
GULGONG	Depot Gulgong	6 Railway STREET	Other Petroleum	Regulation under CLM Act not required	-32.35950625	149.5461499
doldond	Depot duigorig	O Kanway STREET	Other Fetroleum	Regulation under CLM Act not	-32.33330023	143.5401439
GULGONG	The Oval Site	Queen STREET	Unclassified	required	-32.36169815	149.531075
GOLGONG	The Ovar Site	Queen STREET	Officiassifica	Regulation under CLM Act not	32.30103013	143.331073
GULMARRAD	BP Service Station Maclean	3976 Pacific HIGHWAY	Service Station	required	-29.48537407	153.2004311
COLIVITATIONE	Bi Service Station Macient	33701 delite 111 <b>0</b> 11 <b>V</b> 7X1	Service Station	Regulation under CLM Act not	23.40337407	155.2504511
GUMLY GUMLY	Caltex Service Station	3723 Sturt HIGHWAY	Service Station	required	-35.13590309	147.4424551
0011121 0011121	Gartes del vice diadion	3723 31411 (1113111111111111111111111111111	Service Station	Regulation under CLM Act not	53.15535555	1111121331
GUMLY GUMLY	Brick Kiln Reserve	Eunony Bridge ROAD	Landfill	required	-35.12098411	147.4196309
		, , , ,		Regulation under CLM Act not		
GUNDAGAI	Former Mobil Depot	98 Mount STREET	Other Petroleum	required	-35.08206783	148.096221
				Regulation under CLM Act not		
GUNNEDAH	Caltex Service Station	21 Abbott STREET	Service Station	required	-30.98021001	150.2561856
				Regulation under CLM Act not		
GUNNEDAH	Former Shell Depot Gunnedah	85-89 Barber STREET	Other Petroleum	required	-30.97949284	150.2507401
				Regulation under CLM Act not		
GUNNEDAH	Mobil Gunnedah Depot	16-24 Wentworth STREET	Other Petroleum	required	-30.98428725	150.260609
	BP Depot and Retail Fuel Outlet					
GUNNEDAH	Gunnedah	103 Mathias ROAD	Other Petroleum	Under assessment	-30.96665001	150.2326526
		Corner Conadilly Street & Henry		Contamination formerly		
GUNNEDAH	BP Service Station	STREET	Service Station	regulated under the CLM Act	-30.98116266	150.2583066
				Contamination formerly		
GUNNEDAH	Mobil Service Station	341 Conadilly STREET	Service Station	regulated under the CLM Act	-30.9807394	150.2578428
				Regulation under CLM Act not		
GUNNEDAH	Property NSW Site	35-37 Abbott STREET	Other Petroleum	required	-30.9789841	150.25737
				Regulation under CLM Act not		
GUNNEDAH	Former Telstra Line Depot	81 Barber STREET	Other Petroleum	required	-30.97933809	150.2503121
		Intersection of Henry Street and		Contamination formerly		
GUNNEDAH	Adjacent to Service Station	Conadilly STREET	Service Station	regulated under the CLM Act	-30.98072588	150.2582802
				Contamination formerly		
GUNNEDAH	Former Caltex Depot	61 Railway AVENUE	Other Petroleum	regulated under the CLM Act	-30.97953242	150.2494457

List current as of 4 June 2019 30 of 80

Suburb	SiteName	Address	Contamination Activity Type	ManagementClass	Latitude	Longitude
				Regulation under CLM Act not		
GUNNING	Gunning Motors	56 Yass STREET	Service Station	required	-34.78159326	149.2684791
0111/04		07.00 D. II. CTD557		Regulation under CLM Act not		
GUYRA	Guyra Fourways Service Centre	87-89 Bradley STREET	Service Station	required	-30.24580085	151.6701156
GUYRA	Caltex-branded Service Station	4352 New England HIGHWAY	Service Station	Regulation under CLM Act not required	-30.20601937	151.6757291
GUTKA	Cartex-branded Service Station	4332 New Eligiand HighWAY	Service Station	Regulation under CLM Act not	-50.20601937	151.6757291
GUYRA	StateRail land leased to Incitec	Starr ROAD	Other Industry	required	-30.23157011	151.6707135
001101	Metro Petroleum Gwandalan	Starr NONE	Other madsary	Regulation under CLM Act not	30.23137011	131.0707133
GWANDALAN	(Formerly Gwandalan Auto Care)	47 Orana ROAD	Service Station	required	-33.13632941	151.5813396
				Regulation under CLM Act not		
GWANDALAN	Former Gwandalan Landfill	Kanangra DRIVE	Landfill	required	-33.17497722	151.5917107
	7-Eleven (former Mobil) Gymea			Regulation under CLM Act not		
GYMEA	Service Station	110 Gymea Bay ROAD	Service Station	required	-34.03745848	151.0848547
		470 Princes (Cnr The Boulevarde)		Contamination currently		
GYMEA	Coles Express Kirrawee	HIGHWAY	Service Station	regulated under CLM Act	-34.02735302	151.0845079
	Former Shell Service Station			Regulation under CLM Act not		
GYMEA	Gymea	Gymea Bay ROAD	Service Station	required	-34.04129676	151.0841328
				Contamination currently		
HABERFIELD	7-Eleven Haberfield	25-35 Parramatta ROAD	Service Station	regulated under CLM Act	-33.887956	151.142868
LIALEKIII ANII	Farmer Halaluden: Landfill	Marian, DRIVE	الاعماداا	Regulation under CLM Act not	22 24 44 6201	151 5527625
HALEKULANI	Former Halekulani Landfill	Macleay DRIVE	Landfill	required	-33.21446301	. 151.5527625
HAMILTON	SRA Land	10 Maitland ROAD	Unclassified	Regulation under CLM Act not required	-32.91994358	151.7512417
HAMILTON	SIA Lanu	10 Waltiand NOAD	Officiassified	Contamination formerly	-32.91994336	131.7312417
HAMILTON	Taxi Services	116 Tudor STREET	Service Station	regulated under the CLM Act	-32.92351606	151.7454742
	Turni del Vides	110 1000. 011121	oc. rise station	Regulation under CLM Act not	32.3233133	1917/1917/12
HAMILTON	Caltex Hamilton	59-63 Tudor STREET	Service Station	required	-32.92498593	151.7509313
				Regulation under CLM Act not		
HAMILTON	Newcastle Toyota	65 Tudor STREET	Other Petroleum	required	-32.925171	151.7504048
		Cnr Denison Street and Gordon		Regulation under CLM Act not		
HAMILTON	Hamilton Bus Depot	AVENUE	Other Petroleum	required	-32.92542648	151.7512512
				Contamination currently		
HAMILTON NORTH	Shell Newcastle Terminal	5 Chatham STREET	Other Petroleum	regulated under CLM Act	-32.91630469	151.7408712
				Contamination currently		
HAMILTON NORTH	Former Black and Decker Site	56 Clyde STREET	Metal Industry	regulated under CLM Act	-32.91080413	151.7358236
				Contamination currently	22.0425274	454 5406044
HAMILTON NORTH	Hamilton Gasworks	1 Chatham ROAD	Gasworks	regulated under CLM Act	-32.91362741	151.7406241
HAMILTON NORTH	Former ELMA Site	54 Clyde STREET	Other Industry	Contamination currently regulated under CLM Act	-32.91145768	151.7367691
HAWILION NORTH	FOITHER ELIVIA SILE	J4 CIYUE STREET	Other muustry		-52.91145/68	151./50/091
HARBORD	Former Dry Cleaners	121 Wyndora AVENUE	Other Industry	Regulation under CLM Act not required	-33.77425321	151.2821553
TIT INDONE	romer bry deaners	TET WYNDOIG AVENUE	other madding	Regulation under CLM Act not	-55.77423521	131.2021333
HARDEN	SRA Site	31 Aurvill ROAD	Unclassified	required	-34.54998656	148.3689577

List current as of 4 June 2019 31 of 80

Suburb	SiteName	Address	Contamination Activity Type	ManagementClass	Latitude	Longitude
				Contamination formerly		
HARDEN	SRA Site	51 Whitton LANE	Unclassified	regulated under the CLM Act	-34.55396035	148.3713349
				Regulation under CLM Act not		
HARDEN	South West Fuel Harden	294 Albury STREET	Service Station	required	-34.550176	148.351276
				Regulation under CLM Act not		
HARRIS PARK	Dalley Street Reserve	2A Dalley STREET	Other Industry	required	-33.82749118	151.0097545
				Contamination currently		
HARTLEY VALE	Former Shale Oil Refinery	Lot 52 Hartley Vale ROAD	Unclassified	regulated under CLM Act	-33.52925119	150.24216
LLACTINICS DOINT	Calas Formana Hastings Baint	20 Toward Count DOAD	Camina Chakina	Regulation under CLM Act not	20 2004 4402	452 5725676
HASTINGS POINT	Coles Express Hastings Point	99 Tweed Coast ROAD	Service Station	required	-28.36914103	153.5725676
HAV	SRA Land	429, 431, 435, 437 & 439 Murray STREET	Other Industry	Regulation under CLM Act not	-34.49965611	144.840976
HAY	SKA Land	STREET	Other Industry	required	-34.49965611	144.840976
HAY	SRA Land	443 Murray STREET	Other Industry	Contamination formerly regulated under the CLM Act	-34.49966753	144.8410778
nar	SKA Latiu	443 Murray STREET	Other industry		-34.49900753	144.8410778
HAY	Former Shell Hay Depot	391 Murray STREET	Other Petroleum	Regulation under CLM Act not required	-34.50028195	144.8463999
IIAI	Torrier Shell Hay Depot	331 Mullay STREET	Other retroleum	Regulation under CLM Act not	-54.50028193	144.8403333
HAY	Former Mobil Depot Hay	397-399 Murray STREET	Other Petroleum	required	-34.50019184	144.8456578
10.00	Torrier Mobil Beporting	337 333 Marray STREET	other retroicum	Regulation under CLM Act not	34.30013104	144.0430370
HAY SOUTH	Caltex Service Station	429-431 Moama STREET	Service Station	required	-34.52001427	144.8380121
10/11/30/01/11	Cartex Service Station	425 431 Modifie STREET	Service Station	Regulation under CLM Act not	34.32001427	144.0300121
HAZELBROOK	Caltex Service Station Hazelbrook	198 Great Western HIGHWAY	Service Station	required	-33.72106175	150.4520976
				Regulation under CLM Act not		
НЕАТНСОТЕ	Caltex Service Station	1344 Princes HIGHWAY	Service Station	required	-34.08841066	151.0072048
				Regulation under CLM Act not		
HEATHCOTE	Caltex Service Station	1403 Princes HIGHWAY	Service Station	required	-34.09059834	151.003752
	Shell Coles Express Service			Regulation under CLM Act not		
HEATHCOTE	Station	1355 Princes HIGHWAY	Service Station	required	-34.08780042	151.0069741
	Bogas (Former Caltex) Service			Regulation under CLM Act not		
HEATHERBRAE	Station	3 Speedy Lock LANE	Service Station	required	-32.78057822	151.7372135
	Shell Coles Express Motto Farm			Regulation under CLM Act not		
HEATHERBRAE	Service Station	2137 Pacific HIGHWAY	Service Station	required	-32.79835449	151.7176284
				Regulation under CLM Act not		
HEXHAM	QR National - Hexham Precinct	179 & 3/67 Maitland ROAD	Other Industry	required	-32.83474038	151.6821895
				Regulation under CLM Act not		
HEXHAM	Caltex Diesel Stop	360 Maitland ROAD	Service Station	required	-32.82844873	151.6851063
	Cummins Newcastle Facility			Regulation under CLM Act not		
HEXHAM	Hexham	21 Galleghan STREET	Other Industry	required	-32.83186739	151.686709
	BP Service Station (Reliance	Corner Pacific Highway and Old		Regulation under CLM Act not		
HEXHAM	Petroleum)	Maitland ROAD	Service Station	required	-32.82756403	151.6846929
				Contamination currently		
HEXHAM	Former Forgacs Site	21 Sparke STREET	Chemical Industry	regulated under CLM Act	-32.85464558	151.6988053
				Regulation under CLM Act not		
HEXHAM	Caltex-Bogas Warehouse	239 Old Maitland ROAD	Service Station	required	-32.82899942	151.6861849

List current as of 4 June 2019 32 of 80

Suburb	SiteName	Address	Contamination Activity Type	ManagementClass	Latitude	Longitude
				Contamination currently		
HEXHAM	Industrial Galvanizers	312 Pacific HIGHWAY	Metal Industry	regulated under POEO Act	-32.83457186	151.6884941
				Regulation under CLM Act not		
HILLSTON	Former BP Depot Hillston	141-143 Cowper STREET	Other Petroleum	required	-33.48823546	145.5381623
HOLBROOK	Coltan Truslator	Hume HIGHWAY	Service Station	Regulation under CLM Act not required	-35.71332625	147.3207237
HOLBROOK	Caltex Truckstop	nulle highwaf	Service Station	Regulation under CLM Act not	-33./1332023	147.3207237
HOMEBUSH	Ausgrid Mason Park Substation	1 Underwood ROAD	Other Industry	required	-33.85674677	151.0747044
HOWEDOSH	(WRC) and Cleanaway Liquid	Corner Pondage Link and Hill	Other industry	Regulation under CLM Act not	-33.83074077	131.0747044
HOMEBUSH BAY	Waste Treatment Plant (LWTP)	ROAD	Landfill	required	-33.84359299	151.0593656
	Caltex Service Station Homebush	1.07.12	201101111	Regulation under CLM Act not	33.0.333233	131.0335030
HOMEBUSH WEST	West	334-336 Parramatta ROAD	Service Station	required	-33.8581543	151.0681261
				Under preliminary investigation		
HOMEBUSH WEST	Former Ford Landfill	22 Mandemar AVENUE	Landfill	order	-33.86180526	151.0635664
				Regulation under CLM Act not		
HORNSBY	Midas Car Care Centre Hornsby	2A Linda STREET	Unclassified	required	-33.70052215	151.1004786
				Contamination currently		
HORNSBY	Coles Express Hornsby	194- 206 Pacific HIGHWAY	Service Station	regulated under CLM Act	-33.7071993	151.0991452
	Hornsby Train Maintenance			Regulation under CLM Act not		
HORNSBY	Centre	1B Stephen STREET	Other Industry	required	-33.69342449	151.1035295
				Regulation under CLM Act not		
HOXTON PARK	Endeavour Energy Hoxton Park	490 Hoxton Park ROAD	Other Industry	required	-33.92766437	150.8689069
IIIINTEDC IIIII	Color Frances Humbers Hill	4 Duda DOAD	Camilaa Ctatiaa	Regulation under CLM Act not	22 024 7005	151 141655
HUNTERS HILL	Coles Express Hunters Hill	4 Ryde ROAD	Service Station	required	-33.8317985	151.141655
HUNTERS HILL	Foreshore Land	Rear of 7, 9 & 11 Nelson PARADE	Other Industry	Contamination currently regulated under CLM Act	-33.84248362	151.1649249
HOWIERSTHEE	7, 9 and 11 Nelson Parade	incui oi 7,5 & 11 Neison i ANADE	Other madstry	Regulation under CLM Act not	33.04240302	131.1043243
HUNTERS HILL	Hunters Hill	7, 9 and 11 Nelson PARADE	Other Industry	required	-33.84218911	151.164968
			,	Regulation under CLM Act not		
HURLSTONE PARK	Former Telstra Depot	82 Canterbury ROAD	Service Station	required	-33.90803171	151.1258121
	Former Speedway Petroleum	,		Contamination formerly		
HURLSTONE PARK	Service Station	610 - 618 New Canterbury ROAD	Service Station	regulated under the CLM Act	-33.90541228	151.1322009
				Regulation under CLM Act not		
HURLSTONE PARK	7-Eleven Hurlstone Park	670 New Canterbury ROAD	Service Station	required	-33.90510388	151.1299825
				Contamination currently		
HURSTVILLE GROVE	Moore Reserve	Morshead DRIVE	Landfill	regulated under CLM Act	-33.97920603	151.0873578
		63 Oxford St (Cnr Cumberland St)				
INGLEBURN	7-Eleven Ingleburn	STREET	Service Station	Under assessment	-33.9999965	150.8680085
				Regulation under CLM Act not		
INVERELL	Former Shell Depot	25 Edward STREET	Other Petroleum	required	-29.76151684	151.1182033
INVERELL	Former Service Station	20 Oliver STREET	Service Station	Regulation under CLM Act not required	-29.77229743	151.1152692
HAAFUETT	FOITHER SERVICE STATION	20 Oliver STREET	Jei vice Station	· ·	-29.77229743	151.1152092
INVERELL	Former Caltex Depot Inverell	4 Edward STREET	Service Station	Regulation under CLM Act not required	-29.76123104	151.1147983

List current as of 4 June 2019 33 of 80

Suburb	SiteName	Address	Contamination Activity Type	ManagementClass	Latitude	Longitude
				Regulation under CLM Act not		
INVERELL	Former Mobil Inverell Depot	29-33 Edward STREET	Other Petroleum	required	-29.76135322	151.1171412
				Regulation under CLM Act not		
INVERELL	Caltex Service Station	55-59 Ring STREET	Service Station	required	-29.76204512	151.1141737
IND/FDF11	Farmer Mahill Coming Chatier	Corner Otho Street and	Canada Chatian	Regulation under CLM Act not	20 770000	454 44 40004
INVERELL	Former Mobil Service Station	Henderson STREET	Service Station	required	-29.7786926	5 151.1149921
INVERELL	Former Caltex Service Station	141 Otho STREET	Service Station	Regulation under CLM Act not required	-29.77819403	151.1145699
IIIVERELL	Former Cartex Service Station	141 Otilo STREET	Service Station	Regulation under CLM Act not	-29.77619403	131.1143099
ISLINGTON	Caltex Service Station	240 Maitland ROAD	Service Station	required	-32.91138644	151.7457701
ISENTO TOTA	Shell Pipeline Easement (vacant	2-10 Martiana Novib	Service Station	Regulation under CLM Act not	32.3113004	131.7437701
ISLINGTON	land)	24 Fern STREET	Other Petroleum	required	-32.91706254	151.7473809
	,			Regulation under CLM Act not		
JAMISONTOWN	BP Service Station Jamisontown	124 - 128 Mulgoa ROAD	Service Station	required	-33.76978323	150.6764977
		_		Regulation under CLM Act not		
JAMISONTOWN	Former Caltex Jamisontown	229-231 Mulgoa ROAD	Service Station	required	-33.76661447	150.6784735
				Contamination currently		
JAMISONTOWN	7-Eleven Service Station	92 Mulgoa ROAD	Service Station	regulated under CLM Act	-33.7667231	150.6796488
				Regulation under CLM Act not		
JANNALI	Former Mobil Service Station	121 Georges River ROAD	Service Station	required	-34.01614613	151.0681921
				Regulation under CLM Act not		
JANNALI	Former IGA	541 Box ROAD	Other Industry	required	-34.01602134	151.0660384
	Jennings Former Arsenic Poison	Duke Street, Manor Street, and		Contamination currently	20.000000	454 0004550
JENNINGS	Factory	Ballandean STREET	Chemical Industry	regulated under CLM Act	-28.92833023	151.9301552
JESMOND	Caltex Service Station	27 Bluegum ROAD	Service Station	Regulation under CLM Act not required	-32.9029287	151.691164
JESIVIOND	BP Service Station (Reliance	27 Bideguill NOAD	Service Station	Regulation under CLM Act not	-32.9029287	131.091104
JINDABYNE	Petroleum)	8 Kosciuszko ROAD	Service Station	required	-36.41478692	148.6178882
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	. careteamy	o nosciuszno no no	oc. Nee station	Regulation under CLM Act not	301.12173032	110.017.0002
JINDABYNE	Caltex Service Station	50 Kosciuszko ROAD	Service Station	required	-36.41395847	148.6225113
				·		
JINGELLIC	Former Jingellic School	3179 River ROAD	Other Industry	Under assessment	-35.926501	147.701011
				Regulation under CLM Act not		
JUNEE	Subdivision Proposal	5858 Gundagai ROAD	Unclassified	required	-34.87783587	147.6067578
KANAHOOKA	Former Smelter Site	Kanahooka ROAD	Metal Industry	Under assessment	-34.49406369	150.8227583
	Cement Australia Kandos Cement			Regulation under CLM Act not		
KANDOS	Works	1 Jamison STREET	Other Industry	required	-32.86399912	149.9779259
IZABINAZA I	Kanwal General Store and Fuel	CO	Carrier Chatier	Contamination currently	22.2222	
KANWAL	Supplies and Adjacent Land	68 and part of 70 Craigie AVENUE	Service Station	regulated under CLM Act	-33.263026	151.482125
KANWAL	Former Bus and Truck Rental Yard	645-647 Pacific Highway	Other Petroleum	Regulation under CLM Act not required	-33.26233802	151 4935460
NANVVAL	rottilet bus allu Truck Keittäl Yaru	INGHWAT	Other retroleuill	•	-55.20253802	151.4825469
KARIONG	Coles Express Kariong	6 Central Coast HIGHWAY	Service Station	Regulation under CLM Act not required	-33.43443192	151.2963401

List current as of 4 June 2019 34 of 80

Suburb	SiteName	Address	Contamination Activity Type	ManagementClass	Latitude	Longitude
Jubuib	Sitervaine	Audress	contamination Activity Type	Regulation under CLM Act not	Latitude	Longitude
KARIONG	Caltex Service Station	Lot 2 Langford DRIVE	Service Station	required	-33.43934827	151.2935447
				Regulation under CLM Act not		
KARUAH	BP Roadhouse Karuah	403 Tarean ROAD	Service Station	required	-32.65371781	151.9629963
				Regulation under CLM Act not		
KATOOMBA	Aldi Stores	201 Katoomba STREET	Service Station	required	-33.71756625	150.3101649
	Former Katoomba/Leura			Contamination currently		
KATOOMBA	Gasworks	Megalong STREET	Gasworks	regulated under CLM Act	-33.71318559	150.3187284
IZELLAN ZILLE	Calkan Camina Station	2 F Window BOAD	Camina Chakina	Regulation under CLM Act not	22 74 42 64 25	150 0003175
KELLYVILLE	Caltex Service Station	3-5 Windsor ROAD	Service Station	required	-33.71436125	150.9602175
KELLYVILLE	BP Service Station Kellyville	19-23 Windsor ROAD	Service Station	Regulation under CLM Act not required	-33.71280997	150.9590756
KEELI VILLE	Bi Scrvice Station Kenyvine	19 25 WINGSOF NOAD	Service Station	Regulation under CLM Act not	33.71200337	130.3330730
KELSO	Caltex Service Station Kelso	19 Sydney ROAD	Service Station	required	-33.41904247	149.6023985
	BP Service Station (Reliance			Regulation under CLM Act not		
KELSO	Petroleum)	63 Sydney ROAD	Service Station	required	-33.41925328	149.6076677
				Regulation under CLM Act not		
KEMBLA GRANGE	ShawCor Australia	66 West Dapto ROAD	Other Petroleum	required	-34.46875328	150.8106326
				Regulation under CLM Act not		
KEMBLAWARRA	Griffins Bay, Lake Illawarra	Shellharbour ROAD	Landfill	required	-34.49653984	150.8943776
				Regulation under CLM Act not		
KEMPS CREEK	Caltex-branded Service Station	1163 Mamre ROAD	Service Station	required	-33.86972102	150.7966074
WENADCEN.	Kanana Chanana d	40.C CTDEET	Usedassified	via the planning process (EP&A	24.07224026	453 0300705
KEMPSEY	Kempsey Showground	19 Sea STREET	Unclassified	Act)	-31.07334836	152.8308795
KEMPSEY	Former Shell Depot	43-51 Gladstone STREET	Other Petroleum	Regulation under CLM Act not required	-31.07500944	152.8346699
KLIVIFJLI	Torrier Shell Depot	43-31 Glaustoffe STREET	Other retroleum	Regulation under CLM Act not	-31.07300944	132.8340099
KEMPSEY	Former Mobil Depot	14 Hopetoun STREET	Other Petroleum	required	-31.07603107	152.8350132
-	Shell Coles Express Service			Regulation under CLM Act not		
KEMPSEY	Station Kempsey	165 Smith STREET	Service Station	required	-31.07036743	152.8461571
				Regulation under CLM Act not		
KEMPSEY	Mobil Depot	154 Belgrave STREET	Service Station	required	-31.07965043	152.8326303
	Liberty (Former Mobil) Service			Regulation under CLM Act not		
KEMPSEY	Station	108-112 Smith STREET	Service Station	required	-31.07492508	152.8431945
				Regulation under CLM Act not		
KENSINGTON	7-Eleven Kensington	135 Anzac PARADE	Service Station	required	-33.91035885	151.2228537
KENCINCTON	Samuel Camina Station	7C 02 A DADADE	Coming Chating	Regulation under CLM Act not	22.0050246	454 2242004
KENSINGTON	Former Ampol Service Station	76-82 Anzac PARADE	Service Station	required	-33.9059246	151.2242891
KENSINGTON	Footpath adjacent to 10-20 Anzac Parade	10-20 Anzac PARADE	Service Station	Regulation under CLM Act not required	-33.9032124	151.2237836
KENSINGTON	raiauc	10 20 ATIZGU FARADE	Service Station	Regulation under CLM Act not	-55.5052124	131.223/030
KENSINGTON	Caltex Service Station	211-213 Anzac PARADE	Service Station	required	-33.91460752	151.2251266
	- 2000 - 200			Regulation under CLM Act not	55:52100752	
KENTHURST	Vacant Land	259 McCylmonts ROAD	Unclassified	required	-33.61283529	150.9425303

List current as of 4 June 2019 35 of 80

Suburb	SiteName	Address	Contamination Activity Type	ManagementClass	Latitude	Longitude
				Regulation under CLM Act not		
KHANCOBAN	Khancoban Tip	Alpine WAY	Landfill	required	-36.21994191	148.1542718
		105 to 109 and 113 Shoalhaven		Regulation under CLM Act not	0.4.57.4.500	450 05044.0
KIAMA	Former Gasworks	STREET	Gasworks	required	-34.67416881	150.8504143
KIAMA HEIGHTS	Former Mobil Service Station Kiama	7-9 South Kiama DRIVE	Service Station	Regulation under CLM Act not required	-34.69553931	150.8437977
NIAIVIA NEIGNIS	7-Eleven Service Station (Former	7-9 South Riallia DRIVE	Service Station	Contamination currently	-54.09553951	130.8437977
KILLARA	Mobil)	496 Pacific HIGHWAY	Service Station	regulated under CLM Act	-33.77146554	151.1606903
NILLANA	IVIOSII)	450 Facilie FildTiWAT	Service Station	Contamination formerly	33.77140354	151:1000505
KILLARA	Former Caltex Service Station	692B-694 Pacific HIGHWAY	Service Station	regulated under the CLM Act	-33.76306802	151.1550109
				Regulation under CLM Act not		
KILLARA	Killara Garage	544 Pacific HIGHWAY	Service Station	required	-33.76974164	151.1599696
	Former BP Service Station			Contamination currently		
KILLARA	Lindfield	478 Pacific HIGHWAY	Service Station	regulated under CLM Act	-33.7719298	151.1613874
	Land Adjacent to Former Service	684-684a, 690, 692 and 696		Contamination formerly		
KILLARA	Station Site	Pacific HIGHWAY	Service Station	regulated under the CLM Act	-33.76312226	151.1549237
KINCUMBER	Frost Reserve	Avoca DRIVE	Landfill	Under assessment	-33.47065695	151.3909044
KINGS PARK	Multi-Fill	14 Garling ROAD	Unclassified	Regulation being finalised	-33.74478046	150.9111964
KINICC DADK	Farmer Day Coming Factory	24 Tettorroll BOAD	Chaminal Industry	Regulation under CLM Act not	22.7501265	150.0120477
KINGS PARK	Former Dow Corning Factory	21 Tattersall ROAD	Chemical Industry	required	-33.75012653	150.9138477
KINGSFORD	Caltex Service Station	603-611 Anzac PARADE	Service Station	Regulation under CLM Act not required	-33.93435787	7 151.2371198
KINGSLOND	Coles Express Service Station	003-011 Alizac FARADE	Service Station	Regulation under CLM Act not	-33.33433767	131.2371198
KINGSFORD	Kingsford	58 Gardeners ROAD	Service Station	required	-33.9250054	151.2257601
	Shell Coles Express Service	Se caracileis iteris	Service Station	Regulation under CLM Act not	33.323333	15112257661
KINGSGROVE	Station	137 Kingsgrove ROAD	Service Station	required	-33.93276948	151.099026
				Regulation under CLM Act not		
KINGSGROVE	Caltex Kingsgrove	351-357 Stoney Creek ROAD	Service Station	required	-33.95132175	151.0926872
				Regulation under CLM Act not		
KINGSGROVE	State Transit Authority Depot	17-23 Richland STREET	Other Petroleum	required	-33.93646086	151.0973617
				Regulation under CLM Act not		
KIRRAWEE	Ingal Civil Products	127-141 Bath ROAD	Metal Industry	required	-34.03029516	151.0754469
	7-Eleven (former Mobil) Service			Regulation under CLM Act not		
KIRRAWEE	Station	542-546 Princes HIGHWAY	Service Station	required	-34.03238179	151.0758071
KIRRAWEE	Caltex-branded Kirrawee Service Station	(1-3 Waratah Street) 487 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-34.02915971	151.0808279
KIKKAWEE	Station	HIGHWAT	Service Station	required	-34.02313371	131.0808279
KOGARAH	Scarborough Park South	184R Production AVENUE	Landfill	Regulation being finalised	-33.97922253	151.140276
	Star borough Funk South	25 Oddelloll / WEITOE	20.10	Regulation under CLM Act not	33.37322233	131.140270
KOGARAH	Caltex Service Station	29 President AVENUE	Service Station	required	-33.96516866	151.141145
				Regulation under CLM Act not		
KOGARAH	7-Eleven Service Station	736 Princes HIGHWAY	Service Station	required	-33.96406472	151.1376011

List current as of 4 June 2019 36 of 80

Suburb	SiteName	Address	Contamination Activity Type	ManagementClass	Latitude	Longitude
	Woolworths Petrol Service			Regulation under CLM Act not		
KOGARAH	Station	69 Princes HIGHWAY	Service Station	required	-33.96330397	151.1371182
				Regulation under CLM Act not		
KOOLKHAN	Former Koolkhan Power Station	Summerland WAY	Other Industry	required	-29.61688704	152.9300645
KOORAGANG	NPC, berths 2 and 3	Heron ROAD	Metal Industry	Regulation being finalised	-32.89260063	151.7742527
				Contamination currently		
KOORAGANG	Kooragang Island Waste Facility	Off Cormorant ROAD	Metal Industry	regulated under POEO Act	-32.88250732	151.7466125
				Contamination currently		
KOORAGANG	Orica Kooragang Island	15 Greenleaf ROAD	Chemical Industry	regulated under CLM Act	-32.89654619	151.7771372
	Former Boral Timber Export			Regulation under CLM Act not		
KOORAGANG	Facility	16 Heron ROAD	Other Industry	required	-32.89710295	151.7739966
				Regulation under CLM Act not		
KOORAGANG	Cleanaway Technical Services	19 Egret STREET	Unclassified	required	-32.8634857	151.7414904
KOORAGANG	Industrial Facility	39 Heron ROAD	Chemical Industry	Under assessment	-32.89106439	151.7784064
	·	Raven Street and Cormorant	,	Regulation under CLM Act not		
KOORAGANG	Vacant Land	ROAD	Unclassified	required	-32.88410199	151.7701334
				Regulation under CLM Act not		
KOORAGANG	Linx Logistics	240 Cormorant ROAD	Other Industry	required	-32.87480951	151.7757352
				Regulation under CLM Act not		
KOORINGAL	Former Shell Wagga Depot	11-15 Lake Albert ROAD	Other Petroleum	required	-35.12273113	147.3786005
				Regulation under CLM Act not		
KOORINGAL	Caltex Service Station	265-267 Lake Albert ROAD	Service Station	required	-35.14078443	147.3755442
	Caltex-branded (former Mobil)			Regulation under CLM Act not		
KOORINGAL	Service Station	24 Lake Albert ROAD	Service Station	required	-35.12239591	147.3769936
W0000000000	Smiggin Holes Snow Clearing			Regulation under CLM Act not	25.2222214	440,400,400
KOSCIUSZKO	Shed	Link ROAD	Landfill	required	-36.39098211	. 148.4304981
KOSCIUSZKO	Khancoban Spoil Dump	Alpine WAY	Landfill	Regulation under CLM Act not required	-36.21982803	148.1527401
KOJCIOJZKO	Kilancoban Spon Bump	13km from Jindabyne, off	Lanum	Regulation under CLM Act not	-30.21382803	146.1327401
KOSCIUSZKO	Sawpit Creek landfill	Kosciuszko ROAD	Landfill	required	-36.34858097	148.5673374
				Contamination formerly		
KURMOND	BP Service Station	501 Bells Line of road ROAD	Service Station	regulated under the CLM Act	-33.55096662	150.6911676
	Former Phillips Imperial			Regulation under CLM Act not		
KURNELL	Chemicals site	260 Captain Cook DRIVE	Chemical Industry	required	-34.02493837	151.1952149
				Contamination formerly		
KURNELL	Abbott Australasia	Captain Cook DRIVE	Chemical Industry	regulated under the CLM Act	-34.02339937	151.19921
	Former Caltex Kurnell Service	Corner Captain Cook Drive and		Regulation under CLM Act not		
KURNELL	Station	Solander STREET	Service Station	required	-34.01269846	151.2094347
				Contamination currently		
KURRI KURRI	Caltex Service Station Kurri Kurri	279-281 Lang STREET	Service Station	regulated under CLM Act	-32.82047175	151.477646
KLIDDI KLIDDI	Kumi Kumi Corelter	Hart DOAD	Natal Indicator	Regulation under CLM Act not	22 707225	454 4030007
KURRI KURRI	Kurri Kurri Smelter	Hart ROAD	Metal Industry	required	-32.7873063	151.4828827

List current as of 4 June 2019 37 of 80

Suburb	SiteName	Address	Contamination Activity Type	ManagementClass	Latitude	Longitude
				Regulation under CLM Act not		
KYOGLE	Caltex Service Station	22-24 Summerland WAY	Service Station	required	-28.61806766	153.003862
LAKE HAVEN	Caltau Camina Station	Goobarabah Ave Cnr Gorokan	Coming Chabina	Regulation under CLM Act not	22 2422777	151 5055335
LAKE HAVEN	Caltex Service Station	DRIVE	Service Station	required	-33.24337276	151.5065335
LAKEMBA	Former Lakemba Police Station	59 Quigg STREET	Unclassified	Regulation under CLM Act not required	-33.92199239	151.079412
LAKLIVIDA	Caltex Service Station - Corner	33 Quigg STREET	Officiassified	Regulation under CLM Act not	-33.92199233	131.079412
LAKEMBA	Punchbowl Rd and Wangee Rd	81 Wangee ROAD	Service Station	required	-33.91153044	151.073306
				Regulation under CLM Act not		
LAKEMBA	Caltex Service Station	961-967 Canterbury ROAD	Service Station	required	-33.92671102	151.0814905
				Regulation under CLM Act not		
LAMBTON	Caltex Service Station	422 Newcastle ROAD	Service Station	required	-32.9095592	151.7109684
				Regulation under CLM Act not		
LANE COVE	7-Eleven Service Station	203 Burns Bay ROAD	Service Station	required	-33.81458334	151.1543844
				Regulation under CLM Act not		
LANE COVE	BP-branded Jasbe Service Station	62-70 Epping ROAD	Service Station	required	-33.81108427	151.1641531
				manage residual contamination		
LANE COVE	Pacific Power	Sirius ROAD	Landfill	(CLM Act)	-33.80701776	5 151.1449658
	Coles Express Service Station			Regulation under CLM Act not	22.0474024	
LANE COVE	Burns Bay	254 Burns Bay ROAD	Service Station	required	-33.81719214	151.1518774
LANE COVE NORTH	Former Caltex Service Station	428-432 Mowbray ROAD	Service Station	Regulation under CLM Act not required	-33.80804563	151.1721538
LANE COVE NORTH	BP Artarmon Service Station, Lane	•	Service Station	Contamination currently	-33.80804303	131.1721338
LANE COVE NORTH	Cove North	432 Pacific HIGHWAY	Service Station	regulated under CLM Act	-33.8112038	151.175547
2 1112 00 12 110 11111	es ve ve ve	is 2 r doine rine rine.	SCI VISC STATION	Regulation under CLM Act not	35.0112030	10111700 17
LANE COVE WEST	Caltex Lane Cove West	235-245 Burns Bay ROAD	Service Station	required	-33.81719214	151.1518774
		·		Regulation under CLM Act not		
LANE COVE WEST	Ventemans Reach Bushland	Off Mars ROAD	Unclassified	required	-33.80615015	151.1451474
				Contamination formerly		
LANSVALE	Mobil Service Station	161 Hume HIGHWAY	Service Station	regulated under the CLM Act	-33.89442261	150.9571507
				Regulation under CLM Act not		
LANSVALE	Mobil Service Station	44 Hume HIGHWAY	Service Station	required	-33.89172416	150.9656537
	Centre (Former Caltex Service			Regulation under CLM Act not		
LAURIETON	Station)	461 Ocean DRIVE	Service Station	required	-31.64367775	152.7977735
				Regulation under CLM Act not	22.0455052	454 2020440
LAVENDER BAY	SRA Land	French STREET	Unclassified	required	-33.84560621	151.2030148
LAVINGTON	Former Caltex Service Station	373-375 Wagga ROAD	Service Station	Regulation under CLM Act not required	-36.04797551	146.9385325
LAVINGTON	Torrier Caltex Service Station	436 Wagga (corner Dick Road)	Service Station	Regulation under CLM Act not	-30.04797331	140.9363323
LAVINGTON	Caltex Service Station	ROAD	Service Station	required	-36.04500034	146.9444932
	Former ERS liquid waste		Service Station	Regulation under CLM Act not	33.34300034	140.5444552
LAVINGTON	treatment and storage facility	819 Knights ROAD	Other Industry	required	-36.06763885	146.942143
	5 7			Regulation under CLM Act not		
LEETON	Former Mobil Depot	108 Calrose STREET	Other Petroleum	required	-34.55813326	146.3921296

List current as of 4 June 2019 38 of 80

Suburb	SiteName	Address	Contamination Activity Type	ManagementClass	Latitude	Longitude
				Regulation under CLM Act not		
LEETON	Caltex Service Station	1 Belah STREET	Service Station	required	-34.55421752	146.3998431
LESTON	Yenda Producers (formerly	1 2 Carrel CTREET	Other Bataslaum	Regulation under CLM Act not	24 55404504	146 2062572
LEETON	Incitec) Leeton	1 - 2 Canal STREET	Other Petroleum	required	-34.55184684	146.3862573
LEETON	Former Firel Depart Leater	1.2 Chart CTDEET	Other Betweless	Regulation under CLM Act not	24 5525222	146 2064507
LEETON	Former Fuel Depot, Leeton	1-3 Short STREET	Other Petroleum	required	-34.55253237	146.3864507
LEICHHARDT	SRA Land	10-11 Balmain ROAD	Other Industry	Contamination formerly regulated under the CLM Act	-33.87774852	151.1590952
LEICHHARDI	SKA Laliu	10-11 Bailliaill ROAD	Other industry		-55.67774852	151.1590952
LEICHHARDT	Former Kolotex site	22 George STREET	Other Industry	Contamination currently regulated under CLM Act	-33.888	151.148
LEICHHARDT	Former Rolotex Site	22 George STREET	Other industry	Contamination currently	-53.000	131.146
LEICHHARDT	Former Labelcraft Site	30-40 George STREET	Chemical Industry	regulated under CLM Act	-33.887795	151.148486
LLICITIAND	Torrier Educierare Site	240 Balmain Road, corner City	Chemical madstry	Regulation under CLM Act not	33.567735	131:140400
LEICHHARDT	Leichhardt Bus Depot Area E	West LINK	Other Industry	required	-33.87589727	151.1598073
LLICITIAND	Ecicimarde Bus Depot Area E	West Elivic	Other madstry	Regulation under CLM Act not	33.07303727	131.1330073
LEICHHARDT	RailCorp Leichhardt	7 Darley ROAD	Other Industry	required	-33.87520846	151.1539012
LEIGHBARD	rancorp Ectermarae	, buriey none	Cities industry	Regulation under CLM Act not	33.07320040	151.1555012
LENNOX HEAD	Former Caltex Lennox Head	Byron STREET	Service Station	required	-28.79189328	153.5883225
	r ormer careex germox read	5,	Service station	Contamination formerly	20.73103020	155.5565225
LENNOX HEAD	Spoors Dip	13 Fig Tree Hill DRIVE	Cattle Dip	regulated under the CLM Act	-28.78258175	153.5752527
				Regulation under CLM Act not		
LEPPINGTON	Coles Express Leppington	1443 Camden Valley WAY	Service Station	required	-33.96631609	150.8154793
	p to the grade	,		Regulation under CLM Act not		
LEUMEAH	Caltex Service Station	6 Rudd ROAD	Service Station	required	-34.05398325	150.8299209
-				Regulation under CLM Act not		
LEURA	Former Leura Garage	126-128 Leura MALL	Service Station	required	-33.7125311	150.3315386
				Contamination currently		
LIDCOMBE	Metro Lidcombe (former Liberty)	134 John STREET	Service Station	regulated under POEO Act	-33.854665	151.046744
				Regulation under CLM Act not		
LIDDELL	Liddell Power Station	New England HIGHWAY	Other Industry	required	-32.37393962	150.9756283
				Regulation under CLM Act not		
LIDSDALE	Angus Place Colliery	Wolgan ROAD	Other Industry	required	-33.35274573	150.0996773
				Regulation under CLM Act not		
LIDSDALE	Kerosene Vale Colliery	Wolgan ROAD	Other Industry	required	-33.38145755	150.0940097
				Regulation under CLM Act not		
LIGHTNING RIDGE	Former Ambulance Station	18 - 42 Pandora STREET	Other Industry	required	-29.43133877	147.9812981
		Onyx Street, corner Morilla		Regulation under CLM Act not		
LIGHTNING RIDGE	Caltex Service Station	STREET	Service Station	required	-29.42922885	147.9747954
	Former 'Peters Dip' Cattle Tick			Regulation under CLM Act not		
LILLIAN ROCK	Dip Site	427 Lillian Rock ROAD	Cattle Dip	required	-28.5314327	153.1556392
	7-Eleven (former Mobil) Service			Regulation under CLM Act not		
LINDFIELD	Station	238 Pacific HIGHWAY	Service Station	required	-33.7788603	151.1689594
				Regulation under CLM Act not		
LISAROW	OneSteel Recycling	902A Pacific HIGHWAY	Metal Industry	required	-33.38420179	151.3655856

List current as of 4 June 2019 39 of 80

Suburb	SiteName	Address	Contamination Activity Type	ManagementClass	Latitude	Longitude
				Regulation under CLM Act not		
LISMORE	Caltex Lismore Service Station	136 Woodlark STREET	Service Station	required	-28.80807597	153.2807591
	Shell Coles Express Service			Regulation under CLM Act not		450 0000 450
LISMORE	Station	100 Dawson STREET	Service Station	required	-28.81140865	153.2800472
LISMORE	Former Shell Depot	116 Wilson STREET	Other Petroleum	Regulation under CLM Act not required	-28.81070081	153.2621577
LISIVIORE	Former Shell Depot	110 WIISON STREET	Other retroleum	Regulation under CLM Act not	-28.81070081	133.2021377
LISMORE	Caltex Service Station	73-75 Dawson STREET	Service Station	required	-28.80894415	153.2809619
LISIVIONE	Cartex Service Station	73 73 Bawson STREET	Service Station	manage residual contamination	20.00034413	155.2505015
LISMORE	Lismore Gasworks	Cnr John Street & Keen STREET	Gasworks	(CLM Act)	-28.81764489	153.2710196
				Regulation under CLM Act not		
LISMORE	SRA Land	Norco LANE	Unclassified	required	-28.810742	153.2702306
				Contamination currently		
LISMORE HEIGHTS	Coles Express Lismore Heights	426 Ballina ROAD	Service Station	regulated under CLM Act	-28.81068067	153.3053065
LISMORE HEIGHTS	Beardow Street Landslip Project	22 New Ballina ROAD	Unclassified	Under assessment	-28.804051	153.291801
		77 Bridge Street and 6 Gas Works		Regulation under CLM Act not		
LITHGOW	Former Shell CVRO and Depot	LANE	Other Petroleum	required	-33.47995091	150.162216
				Contamination formerly		
LITHGOW	Lithgow Thales	4 Martini PARADE	Metal Industry	regulated under the CLM Act	-33.49012248	150.1415389
				Regulation under CLM Act not	22.40225466	450 400004
LITHGOW	Former Mobil Depot	353 Main STREET	Other Petroleum	required	-33.48235166	150.1383012
LITHGOW	Former Gasworks	Mort STREET	Gasworks	Regulation under CLM Act not required	-33.47995167	150.1635401
LITHGOW		MOIT STREET	Gasworks	- 1	-33.47995107	150.1635401
LITHGOW	Jasbe BP-branded Service Station (Former Reliance Petroleum)	1106 Great Western HIGHWAY	Service Station	Regulation under CLM Act not required	-33.48426647	150.134992
	(Former Renance Federally)	Adjacent to 1131 Great Western	Service Station	Regulation under CLM Act not	33.40420047	130.134332
LITHGOW	Caltex Lithgow (Quota Park)	HIGHWAY	Unclassified	required	-33.47927554	150.1366238
		20 Shepherd Street and 6A & 6B		Regulation under CLM Act not		
LIVERPOOL	AC McGrath (Wholesale) Pty Ltd	Atkinson STREET	Other Industry	required	-33.9320192	150.9236862
				Regulation under CLM Act not		
LIVERPOOL	Former Car Park	4 - 6 Rose STREET	Unclassified	required	-33.93258955	150.9157936
				Regulation under CLM Act not		
LIVERPOOL	Woolworths Service Station	59-67 Orange Grove ROAD	Service Station	required	-33.90711248	150.9178855
LIVERPOOL	68 Speed Street, Liverpool NSW	68 Speed STREET	Gasworks	Under assessment	-33.929889	150.92243
	BP Freedom Fuel Service Station	6		Regulation under CLM Act not		
LOFTUS	Loftus	127 Loftus AVENUE	Service Station	required	-34.04570765	151.0508004
LONG IETTY	Lange Latte Campa	226 The Future of BOAR	Coming Chatiers	Harden and the second	22.2500725	454 4047700
LONG JETTY	Long Jetty Servo	326 The Entrance ROAD	Service Station	Under assessment	-33.35897356	5 151.4847709
LONG JETTY	Caltex Service Station	431 The Entrance ROAD	Service Station	Regulation under CLM Act not required	-33.36022468	151.4826553
LONG JETTT	Westside Petroleum Service	431 THE EHRIGING NOAD	Service Station	<u> </u>	-55.50022400	131.4620333
LONG JETTY	Station	290-294 The Entrance ROAD	Service Station	Contamination currently regulated under CLM Act	-33.35688982	151.4862246

List current as of 4 June 2019 40 of 80

Suburb	SiteName	Address	Contamination Activity Type	ManagementClass	Latitude	Longitude
	7-Eleven (former Mobil) Service			Regulation under CLM Act not		
LONG JETTY	Station	184-186 The Entrance ROAD	Service Station	required	-33.35089363	151.4924904
				Regulation under CLM Act not		
LONGUEVILLE	Caltex Service Station	5-7 Northwood ROAD	Service Station	required	-33.82452775	151.1725758
LUCAC LIFICUTO	Hamilantana Osama		1 1011	Contamination currently	24.02555245	450.0754026
LUCAS HEIGHTS	Harringtons Quarry	access from Little Forest ROAD	Landfill	regulated under CLM Act	-34.03555347	150.9751826
LUCAS HEICHTS	IMC landfill	Little Forest BOAD	Landfill	Contamination currently	-34.03214889	150.9753474
LUCAS HEIGHTS	IWC landfill	Little Forest ROAD	Lanum	regulated under CLM Act	-54.03214865	150.9753474
LUDDENHAM	Caltex Service Station	3019-3035 The Northern ROAD	Service Station	Regulation under CLM Act not required	-33.87536093	150.6888872
LODDLINIAIVI	Cartex Service Station	Pacific (22-24 Cooper Street)	Service Station	Regulation under CLM Act not	-33.87330093	130.088872
MACKSVILLE	Caltex Service Station	HIGHWAY	Service Station	required	-30.70977455	152.9198448
THE TOTAL PROPERTY.	Current Service Station		Service Station	Regulation under CLM Act not	30.703.77.133	132.32301.0
MACLEAN	MacLean Outdoors	255 River STREET	Service Station	required	-29.45782683	153.1970725
				Regulation under CLM Act not		
MACQUARIE FIELDS	Caltex Service Station	68 Harold STREET	Service Station	required	-33.98557276	150.8933681
-				Regulation under CLM Act not		
MACQUARIE PARK	Caltex North Ryde Service Station	41-43 Epping ROAD	Service Station	required	-33.79138236	151.1312248
	1-7 Waterloo Road, Macquarie			Regulation under CLM Act not		
MACQUARIE PARK	Park	1-7 Waterloo ROAD	Other Petroleum	required	-33.78806877	151.1332148
	Porters Creek Depot - Proposed			Regulation under CLM Act not		
MACQUARIE PARK	Operations Centre Site	160 Wicks ROAD	Landfill	required	-33.785348	151.13663
	De Burghs Cycleway - Lane Cove			Regulation under CLM Act not		
MACQUARIE PARK	National Park	Riverside DRIVE	Other Petroleum	required	-33.77802854	151.1367529
				Contamination currently		
MAITLAND	Maitland Gasworks	Charles STREET	Gasworks	regulated under CLM Act	-32.73603658	151.5578926
				Regulation under CLM Act not		
MAITLAND	Hannan and High Street	Hannan Street and High STREET	Service Station	required	-32.72731682	151.5515673
				Regulation under CLM Act not		
MAITLAND	Coles Express Service Station	235 High STREET	Service Station	required	-32.73923807	151.5620399
MALABAR	ANZAC Difle Dange former landfill	Franklin CTREET	Landfill	Regulation heing finalised	22.05702671	151 2566272
IVIALABAK	ANZAC Rifle Range former landfill	FIGURIUI STREET	Landini	Regulation being finalised	-33.95792671	. 151.2566373
MANDALONG	Mandalong Mine	Mandalong ROAD	Other Industry	Regulation under CLM Act not required	-33.11725583	151.4616452
MANDALONG	Widifulling Willie	INITION TO AD	Other madstry	Regulation under CLM Act not	33.11723303	131.4010432
MANGROVE MOUNTAIN	Poultry Litter Containment Pit site	258 Waratah ROAD	Unclassified	required	-33.28917277	151.167235
WANTE WICE WITH THE	Tamworth Regional Council	236 Wardtan No.	Oncidosined	Regulation under CLM Act not	33.20317277	131.107.233
MANILLA	Works Depot - Manilla	73 River STREET	Other Petroleum	required	-30.746085	150.725363
	·			Regulation under CLM Act not		
MANLY	Caltex Service Station	86 Pittwater ROAD	Service Station	required	-33.79306889	151.2858638
	Former Little Manly Point			Regulation under CLM Act not		
MANLY	Gasworks	End of Stuart STREET	Gasworks	required	-33.80842005	151.2877784
				Regulation under CLM Act not		
MANLY	St Patrick's Estate	151 Darley ROAD	Unclassified	required	-33.8044568	151.2938595

List current as of 4 June 2019 41 of 80

Suburb	SiteName	Address	Contamination Activity Type	ManagementClass	Latitude	Longitude
				Contamination formerly		
MANLY	Little Manly Point	Stuart STREET	Gasworks	regulated under the CLM Act	-33.80814626	151.2876245
				Regulation under CLM Act not		
MANLY VALE	Caltex Service Station Manly Vale	236-238 Condamine STREET	Service Station	required	-33.78508231	151.2674386
				Contamination currently		
MANLY VALE	Former Landfill Addiscombe Road	Addiscombe ROAD	Landfill	regulated under CLM Act	-33.78307439	151.2747846
	Parkview General Store (a former			Regulation under CLM Act not	20.4475224	
MANNERING PARK	service station)	2 Vales ROAD	Service Station	required	-33.14753814	151.5387832
MANNERING PARK	Mannering Park Mini Mart	70 Vales ROAD	Service Station	Regulation under CLM Act not required	-33.15236501	151.5371767
IVIAININERIING PARK	·	70 Vales ROAD	Service Station	<u>'</u>	-55.15250501	151.53/1/6/
MARAYONG	Blacktown West) Service Station Marayong	173 Richmond ROAD	Service Station	Regulation under CLM Act not required	-33.75472796	150.8913605
MAKATONG	Woolworths Petrol Service	Corner Vardys Road and Turbo	Jervice Station	Regulation under CLM Act not	33.73472730	150.0515005
MARAYONG	Station Marayong	ROAD	Service Station	required	-33.7452356	150.9041601
W II W II O I O I	Station Marayong	None	Service Station	Regulation under CLM Act not	33.7432330	150.5041001
MARDI	Former Mardi Landfill	70-90 McPherson ROAD	Landfill	required	-33.29273289	151.4100941
	Former Mobil Service Station			Contamination formerly		
MARKS POINT	(now 7-Eleven)	770-772 Pacific HIGHWAY	Service Station	regulated under the CLM Act	-33.05646268	151.6533795
	Former Mobil Aviation Depot			Regulation under CLM Act not		
MARKS POINT	Belmont Airport	864 Pacific HIGHWAY	Other Petroleum	required	-33.06657244	151.6497674
	Coles Express Pagewood Service			Regulation under CLM Act not		
MAROUBRA	Station, Maroubra	299 Bunnerong PARADE	Service Station	required	-33.94071282	151.2285063
	United (Former Mobil) Service			Regulation under CLM Act not		
MARRANGAROO	Station Marrangaroo	394-398 Great Western HIGHWAY	Service Station	required	-33.45253322	150.1181023
				Regulation under CLM Act not		
MARRICKVILLE	Former Mobil Service Station	384 Illawarra ROAD	Service Station	required	-33.91534969	151.1506717
				Contamination formerly		
MARRICKVILLE	TRW Steering and Suspension	22-28 Carrington ROAD	Other Industry	regulated under the CLM Act	-33.92012667	151.1566181
	Woolworths Petrol Service			Regulation under CLM Act not		
MARRICKVILLE	Station Marrickville	490 Illawarra ROAD	Service Station	required	-33.91845177	151.1459951
	- "-			Regulation under CLM Act not		
MARRICKVILLE	RailCorp	361 Victoria ROAD	Other Industry	required	-33.91404835	151.1557132
MADDICKVIII I E	Mackey Park	Cnr Richardsons Crescent and	Landfill	Regulation under CLM Act not	22 0220262	151 1547003
MARRICKVILLE	Mackey Park	Carrington ROAD	Landfill	required	-33.9220263	151.1547903
MARRICKVILLE	Cooks River Aqueduct	Thornley STREET	Unclassified	Contamination formerly regulated under the CLM Act	-33.92204604	151.1480332
IVIARRICKVILLE	Cooks River Aqueduct	Thorney STREET	Unclassified		-33.92204604	151.1460552
MARRICKVILLE	2 Carrington Road	2 Carrington ROAD	Unclassified	Regulation under CLM Act not required	-33.91596071	151.1597199
	Former Dry Cleaners and Loading	- carrington none		Contamination currently	33.31390071	131.133/139
MARRICKVILLE	,	Smidmore STREET	Other Industry	regulated under CLM Act	-33.90707592	151.171701
	2000 (00)00000 200 1 20 012331)	J	2	Regulation under CLM Act not	33.30707332	131.17.17.01
MARSDEN PARK	226 Grange Avenue	226 Grange AVENUE	Unclassified	required	-33.70259609	150.83825
	Coles Express Service Station	<u> </u>		Regulation under CLM Act not		
MARSFIELD	Marsfield	189 Epping ROAD	Service Station	required	-33.77519246	151.1053691

List current as of 4 June 2019 42 of 80

Suburb	SiteName	Address	Contamination Activity Type	ManagementClass	Latitude	Longitude
Subuib	BP Express Marulan	Address	Contamination Activity Type	Regulation under CLM Act not	Latitude	Longitude
MARULAN	(Northbound)	(Northbound) Hume HIGHWAY	Service Station	required	-34.7188332	149.9949547
-				Regulation under CLM Act not		
MARULAN	BP Service Station	(Southbound) Hume HIGHWAY	Service Station	required	-34.71932066	150.0014827
				Contamination currently		
MARYVILLE	7-Eleven Service Station	184-188 Hannell STREET	Service Station	regulated under CLM Act	-32.91336028	151.7579315
	Former Zinc Smelter and Paint			Regulation under CLM Act not		
MASCOT	Manufacturing Facility	163 O'Riordan STREET	Metal Industry	required	-33.92526513	151.1892582
				Regulation under CLM Act not		
MASCOT	Caltex Service Station	125 O'Riordan STREET	Service Station	required	-33.92309169	151.1911539
				Contamination currently		
MASCOT	Mascot Pioneer Plating	25-29 Ricketty STREET	Metal Industry	regulated under CLM Act	-33.92075288	151.1824801
				Regulation under CLM Act not		454 4046556
MASCOT	Heritage Business Centre	5-9 Ricketty STREET	Unclassified	required	-33.92029202	151.1816656
MASCOT	Toletra Evehanga	004 022 Retany BOAD	Other Industry	Regulation under CLM Act not	22 0202166	151 1042777
MASCUT	Telstra Exchange	904-922 Botany ROAD	Other Industry	required	-33.9293166	151.1942777
MASCOT	Former Shell Service Station  Mascot	746 Botany ROAD	Service Station	Contamination currently regulated under CLM Act	-33.92352295	151.1955852
WASCOT	Ing Industrial Fund (unoccupied	740 Botany NOAD	Service Station	Regulation under CLM Act not	-33.92332293	131.1333832
MASCOT	Land and General Parking)	19-33 Kent ROAD	Landfill	required	-33.922765	151.185262
WASCOT	Earla and General Farking)	15 35 KCHE NOAD	Landini	Contamination currently	33.322703	131.103202
MASCOT	Former Mascot Galvanising	336-348 King STREET	Metal Industry	regulated under CLM Act	-33.92902126	151.185874
			,	Regulation under CLM Act not		
MASCOT	Sokol Corporation	50-56 Robey STREET	Other Industry	required	-33.93162265	151.1904955
	·	,	,	Regulation under CLM Act not		
MASCOT	Linear Park	Off O'Riordan STREET	Landfill	required	-33.92278693	151.1904751
				Regulation under CLM Act not		
MATRAVILLE	Port Botany Bus Depot	7 Bumborah Point ROAD	Other Petroleum	required	-33.96880413	151.2255889
	Former Golden Fleece Terminal			Contamination formerly		
MATRAVILLE	No2	151 Beauchamp ROAD	Other Petroleum	regulated under the CLM Act	-33.95719404	151.2259884
				via the planning process (EP&A		
MATRAVILLE	Former Rieco Incinerator	Kain AVENUE	Other Industry	Act)	-33.95980534	151.2423679
	7-Eleven Service Station			Contamination currently		
MATRAVILLE	Matraville	515 Bunnerong ROAD	Service Station	regulated under CLM Act	-33.95943536	151.2317598
A A A T D A V (I I I E	Former Golden Fleece Terminal	133 140 Beeveleens BOAD	Other Betwelling	Contamination formerly	22.0577666	454 2240540
MATRAVILLE	No1	133 -149 Beauchamp ROAD	Other Petroleum	regulated under the CLM Act	-33.95776666	151.2248518
MATRAVILLE	Vacant Lot	3 Wilkes AVENUE	Other Industry	Regulation under CLM Act not required	-33.96006406	151.2431087
IVIATRAVILLE	Vacant Lot	3 WIKES AVENUE	Other maustry	required	-33.9000400	131.2431087
MATRAVILLE	Eastern Suburbs Memorial Park	12 Military ROAD	Chemical Industry	Under assessment	-33.9719906	151.2274386
IVII AT IVA VILLE	7-Eleven (Former Mobil) Service	12 Military NOAD	Chemical maastly	Regulation under CLM Act not	-33.3713300	131.22/4300
MAYFIELD	Station	412-416 Maitland ROAD	Service Station	required	-32.89292005	151.7300948
	Shell Coles Express Service			Regulation under CLM Act not	32.33232003	151.7500540
MAYFIELD	Station	63-69 Maud STREET	Service Station	required	-32.89358962	151.7221298

List current as of 4 June 2019 43 of 80

Suburb	SiteName	Address	Contamination Activity Type	ManagementClass	Latitude	Longitude
	BHP Closure Site (Hunter River	adjacent to Lot 221 DP1013964		Contamination formerly		
MAYFIELD	Sediments)	RIVER	Metal Industry	regulated under the CLM Act	-32.89203741	151.7646702
	Australian Tube Mills Newcastle					
MAYFIELD	Site	Industrial DRIVE	Metal Industry	Under assessment	-32.88835767	151.7450751
		directly adjacent to the Hunter		Contamination currently		
MAYFIELD	BHP Steel River	River; near the Tourle Street	Metal Industry	regulated under CLM Act	-32.8773556	151.7252427
***VEIELD	nunn c	Lot 223 South and West -		Contamination currently	22 22 22 22	454 7000400
MAYFIELD	BHPB Supply site	Industrial DRIVE	Metal Industry	regulated under CLM Act	-32.88583041	151.7388423
MANUELELD	Maratak Staal Mill	22 Faith CERFEE	B 4 a t a L l l a di cat m .	Regulation under CLM Act not	22.80426502	151 7257420
MAYFIELD	Waratah Steel Mill	23 Frith STREET	Metal Industry	required	-32.89426592	151.7257429
MAYFIELD	OneSteel (BHP)	Industrial DRIVE	Metal Industry	Contamination currently regulated under CLM Act	-32.88366987	151.7449491
WATTILLD	OneSteel - Newcastle Market	Industrial BRIVE	Wetai muusti y	regulated under CLIVI ACC	-32.88300387	131.7449491
MAYFIELD NORTH	Mills	141 & 151 Ingall STREET	Metal Industry	Under assessment	-32.89008485	151.752949
WATTELD NORTH	IVIIIS	141 Q 131 mgan 31NEE1	Wictai maasti y	Regulation under CLM Act not	32.03000403	131.732343
MAYFIELD WEST	Stevenson Park landfill	2/559 Maitland ROAD	Landfill	required	-32.88472556	151.7224791
		East of Woodstock Street and		Contamination currently	3	
MAYFIELD WEST	Koppers Coal Tar	Tourle STREET	Other Industry	regulated under CLM Act	-32.88554791	151.7368545
			,	Regulation under CLM Act not		
MAYFIELD WEST	Tourle Street Bridge Project	Tourle STREET	Landfill	required	-32.88075518	151.7330073
	,			Regulation under CLM Act not		
MCDOUGALLS HILL	Caltex Service Station	4949 New England HIGHWAY	Service Station	required	-32.54484714	151.1490757
				Regulation under CLM Act not		
MEADOWBANK	Former Council Works Depot	2 Parsonage STREET	Unclassified	required	-33.82191421	151.0951974
	7-Eleven (Former Mobil) Service			Regulation under CLM Act not		
MENAI	Station Menai	289 Menai ROAD	Service Station	required	-34.01579095	151.0131737
				Regulation under CLM Act not		
MENAI	Caltex Service Station Menai	1 Carter Road ROAD	Service Station	required	-34.01654043	151.0124133
				Regulation under CLM Act not		
MEREWETHER	Merewether Childcare Centre	2/23 Caldwell STREET	Unclassified	required	-32.94249653	151.7504279
				Regulation under CLM Act not		
MERIMBULA	Caltex Service Station	19-25 Merimbula DRIVE	Service Station	required	-36.88757881	149.9089159
A A E DIA A DI II A	Farman Markil Comiton Chatian	27 Marylan STREET	Comitoe Chation	Regulation under CLM Act not	25,000,44,502	440.0402405
MERIMBULA	Former Mobil Service Station	27 Market STREET	Service Station	required	-36.88941693	149.9103485
MEDDYLANDC	Former Timber Yard and	11 10 Contonon, BOAD	Oth on Detucions	Regulation under CLM Act not	22 02002025	150,000015
MERRYLANDS	Hardware	11-19 Centenary ROAD	Other Petroleum	required	-33.83083025	150.9698915
MERRYLANDS	Caltex Service Station	229 Woodville ROAD	Service Station	Regulation under CLM Act not required	-33.84547463	150.9983413
IVILINITLAINUS	Cartex Service Station	223 WOOUVIIIE NOAD	Service Station	Regulation under CLM Act not	-55.64547403	130.9983413
MERRYLANDS	Caltex Service Station Merrylands	148 Woodville ROAD	Service Station	required	-33.83818499	150.9997199
INICIANI ENIVOJ	Cartex Service Station Menylanus	175 WOODWING NOAD	Service Station	Regulation under CLM Act not	-55.65016453	130.3331133
MERRYLANDS	Stockland Merrylands Court	249-259 Merrylands ROAD	Service Station	required	-33.83560037	150.9869735
	7-Eleven Merrylands Service	295-297 Merrylands (Cnr Windsor		Regulation under CLM Act not	55.53500037	133,3003733
MERRYLANDS	Station	Rd) ROAD	Service Station	required	-33.83533205	150.9851801

List current as of 4 June 2019 44 of 80

	at. 11					
Suburb	SiteName	Address	Contamination Activity Type	ManagementClass	Latitude	Longitude
MERRYLANDS	Former Stockfeed Manufacturing Site	1-7 & 9-11 Neil STREET	Other Petroleum	Regulation under CLM Act not required	-33.83390257	150.9947449
				Regulation under CLM Act not		
MERRYLANDS WEST	Former Mobil Service Station	3 Centenary ROAD	Service Station	required	-33.83214226	150.9698958
		,		Regulation under CLM Act not		
MILLER	Caltex Service Station	86 Cartwright AVENUE	Service Station	required	-33.91878146	150.8827514
				Contamination currently		
MILLERS FOREST	Chichester Trunk Gravity Main	water pipeline	Other Industry	regulated under POEO Act	-32.772877	151.6826841
				Regulation under CLM Act not		
MILLERS POINT	Former AGL Gasworks	30 - 34 Hickson ROAD	Gasworks	required	-33.86179594	151.2031726
				Regulation under CLM Act not		
MILLERS POINT	Moores Wharf UPSS	4 Towns PLACE	Other Petroleum	required	-33.85581123	151.2024759
		38 Hickson and road reserve		via the planning process (EP&A		
MILLERS POINT	Former AGL Gasworks	ROAD	Gasworks	Act)	-33.86280104	151.2032452
AULEDS DOUNT	5 4010	demolished) and part Hickson		Contamination currently	22.000000	454 2045020
MILLERS POINT	Former AGL Gasworks	ROAD	Gasworks	regulated under CLM Act	-33.86053571	151.2015022
MILLEDS DOINT	Former ACI Casworks	Road reserve fronting 30-38 Hickson ROAD	Casucarks	Contamination currently	-33.86241531	151 2024624
MILLERS POINT	Former AGL Gasworks	INCKSOII KOAD	Gasworks	regulated under CLM Act	-55.60241551	151.2024634
MILLERS POINT	Former AGL Gasworks 36 Hickson Road	36 Hickson ROAD	Gasworks	Contamination formerly regulated under the CLM Act	-33.86243824	151.2032514
WILLERS POINT	Noau	30 HICKSOII NOAD	Gasworks		-55.00245024	131.2032314
MILPERRA	Heatcraft Australia Pty Ltd	286 Horsley ROAD	Other Industry	Regulation under CLM Act not required	-33.94031556	150.9958606
WILL LING	Treaterare Australia 1 ty Eta	200 Horsicy NOAD	Other madstry	Regulation under CLM Act not	33.54031330	130.9338000
MILPERRA	United Group Rail Pty Limited	373 Horsley ROAD	Landfill	required	-33.93286283	150.9934071
	omica oroap nam rey ammed	ord Horsie, Horis		Regulation under CLM Act not	55135265265	130,333,1071
MILPERRA	Caltex Service Station	264 Milperra ROAD	Service Station	required	-33.93018101	150.9910964
		'		Regulation under CLM Act not		
MILPERRA	Former Landfill	479 Henry Lawson DRIVE	Landfill	required	-33.933968	150.977629
				Regulation under CLM Act not		
MILTON	Former Sanitary Depot	Slaughterhouse ROAD	Other Industry	required	-35.33819825	150.4471917
	Caltex Milton Service Station and			Regulation under CLM Act not		
MILTON	Depot	331 Princes HIGHWAY	Service Station	required	-35.33154474	150.4492852
	7-Eleven (former Mobil) Service			Regulation under CLM Act not		
MINCHINBURY	Station	815 Great Western HIGHWAY	Service Station	required	-33.78812909	150.8495992
		1055 Great Western Highway		Regulation under CLM Act not		
MINCHINBURY	BP Service Station	corner Archbold ROAD	Service Station	required	-33.78211857	150.8244185
	Land adjacent to Former Shell			Regulation under CLM Act not		
MINTO	depot	Airds Road and Essex STREET	Other Petroleum	required	-34.02140447	150.8415134
MAINTO	Shell Coles Express Service	72 Dombroko CTREET	Carries Station	Regulation under CLM Act not	24.0224.6454	450.0503440
MINTO	Station	73 Pembroke STREET	Service Station	required	-34.02316454	150.8503118
MINTO	Former Endeavour Energy Depot	Pembroke ROAD	Other Petroleum	Regulation under CLM Act not required	-34.0408973	150.8451837
IVIII VIO	Logistics Hub - Culverston Road,	I CHIDIORE NOAD	Other retroleum	Regulation under CLM Act not	-54.0408973	150.8451837
MINTO	Minto	Culverston ROAD	Other Petroleum	required	-34.0421711	150.833825
	[Hillico	Ca. Caracon No. ID	Care recoleum	J. cyanica	34.0421711	150.055025

List current as of 4 June 2019 45 of 80

Suburb	SiteName	Address	Contamination Activity Type	ManagementClass	Latitude	Longitude
				Contamination currently		
MIRANDA	Woolworth's Service Station	455 Kingsway OTHER	Service Station	regulated under CLM Act	-34.03492814	151.1124681
MITTACONIC	Enhance (former Coles Express)	224 Old House HIGHWAY	Carrier Chatier	Regulation under CLM Act not	24.44746446	450 4226402
MITTAGONG	Service Station	224 Old Hume HIGHWAY	Service Station	required	-34.44746118	150.4326183
MITTAGONG	Lots 1 and 2 Alfred St.	Alfred STREET	Other Petroleum	Contamination formerly regulated under the CLM Act	-34.44738105	150.4565159
WIITTAGONG	Lots I and 2 Amed St.	Allieu STREET	Other retroleum	Regulation under CLM Act not	-34.44738103	130.4303139
MITTAGONG	Caltex Mittagong Service Station	65 Bowral ROAD	Service Station	required	-34.45245915	150.4381291
	caree metagong service station	73 Meninya (Cnr Regent St)	Service Station	Regulation under CLM Act not	5 11 102 103 10	150. 1501231
MOAMA	Caltex Moama Service Station	STREET	Service Station	required	-36.10815134	144.752849
				Contamination currently		
MOLONG	Cabonne BP Service Station	2 Gidley STREET	Service Station	regulated under CLM Act	-33.09026307	148.8695809
				Contamination currently		
MOLONG	Former Gasworks	HIII STREET	Gasworks	regulated under CLM Act	-33.09074595	148.8703262
				Contamination currently		
MONA VALE	Mona Vale Bus Depot	58 Darley STREET	Other Petroleum	regulated under CLM Act	-33.67452414	151.3074246
	Former Caltex service station and	Avenue, 6 Polo Avenue, 45		Contamination formerly		
MONA VALE	adjacent properties	Bassett STREET	Service Station	regulated under the CLM Act	-33.6743659	151.3096932
	7-Eleven (former Mobil) Service			Regulation under CLM Act not		
MONA VALE	Station	24 Barrenjoey ROAD	Service Station	required	-33.676909	151.3082515
	BP Peninsula Express Service	Corner Barrenjoey Road and		Regulation under CLM Act not		
MONA VALE	Station	Darley Street East STREET	Service Station	required	-33.67670799	151.3090068
MONA VALE	DD Comics Station Many Male	4724 Pitt POAP	Carrier Chatier	Regulation under CLM Act not	22 50042442	454 2022552
MONA VALE	BP Service Station Mona Vale	1721 Pittwater ROAD	Service Station	required	-33.68043443	151.3023553
MONA VALE	Caltex Investigation Area	Polo Ave, Perak STREET	Service Station	Contamination formerly regulated under the CLM Act	-33.67431333	151.3091148
IVIONA VALE	Cartex investigation Area	POID AVE, PETAK STREET	Service Station	Regulation under CLM Act not	-53.07431333	131.3091148
MOOBALL	Mooball General Store	5913 Tweed Valley WAY	Service Station	required	-28.44204594	153.4887648
	meddan deneral deore	5515 Tireca valley Tiril	Service Station	Regulation under CLM Act not	20.1.120.03	1551.16676.16
MOONBI	Caltex Moonbi Service Station	New England HIGHWAY	Service Station	required	-31.02264369	151.069094
				Regulation under CLM Act not		
MOORE PARK	Area 2, Moore Park	Driver AVENUE	Unclassified	required	-33.89426868	151.2226839
				Regulation under CLM Act not		
MOOREBANK	Caltex Service Station	216 Newbridge ROAD	Service Station	required	-33.92930835	150.9551469
				Regulation under CLM Act not		
MOOREBANK	Joyce Foam Products	5-9 Bridges ROAD	Chemical Industry	required	-33.92596302	150.9335273
				manage residual contamination		
MOOREBANK	ABB Australia Pty Ltd	(a) 1 Bapaume ROAD	Other Industry	(CLM Act)	-33.94143741	150.9208754
				Regulation under CLM Act not		
MOOREBANK	Caltex Service Station Moorebank	2 Bridges ROAD	Service Station	required	-33.92839682	150.9327012
MOODEDANK	Former Landfill Site	Nowbridge BOAD	Landfill	Under accessment	22 0200720	150,005,4435
MOOREBANK	Former Landfill Site	Newbridge ROAD	Landfill	Under assessment	-33.93907207	150.9654125
MOOREBANK	property, Newbridge Road, Moorebank	Newbridge ROAD	Landfill	Under assessment	-33.938825	150.965169

List current as of 4 June 2019 46 of 80

Suburb	SiteName	Address	Contamination Activity Type	ManagementClass	Latitude	Longitude
				Regulation under CLM Act not		
MOORLAND	Caltex Service Station	99 Jericho ROAD	Service Station	required	-31.79436622	152.6514849
	Former Freedom Service Station			Contamination currently		
MOREE	Site Moree	1 Dover STREET	Service Station	regulated under CLM Act	-29.4715814	149.8440279
		101.0		Regulation under CLM Act not	20.4750050	
MOREE	Caltex Depot	101 Gosport STREET	Other Petroleum	required	-29.47603684	149.8476728
MODEE	Farmer Calder Flance Bases	Constant STREET	Other Betwelesses	Contamination formerly	20 47600245	440.0477400
MOREE	Former Golden Fleece Depot	Gosport STREET	Other Petroleum	regulated under the CLM Act	-29.47698315	149.8477108
MOREE	Former Mobil Depot	Gosport STREET	Other Petroleum	Contamination formerly regulated under the CLM Act	-29.47771921	149.8478438
IVIOREE	Former Mobil Depot	GOSPOIT STREET	Other Petroleum		-29.47771921	149.6476436
MOREE	Moree Airport Evaporation Pond	Newell HIGHWAY	Unclassified	Regulation under CLM Act not required	-29.50289837	149.8411301
WORLE	Worke Airport Evaporation Forta	Newcii Iligiiwai	Officiassifica	Contamination currently	25.50205057	143.0411301
MOREE	Caltex Service Station	54 Alice STREET	Service Station	regulated under CLM Act	-29.47158492	149.8433182
MONEL	Cartex Service Station	34 Alice STREET	Service Station	Contamination formerly	25.47150452	145.0435102
MOREE	Former Shell Depot	Adelaide STREET	Other Petroleum	regulated under the CLM Act	-29.47655335	149.8465698
	Shell Coles Express Service	ridelalde 9 mez.	other retroited.	Regulation under CLM Act not	231.7655555	11310103050
MOREE	Station	Corner Gwydir and Balo STREET	Service Station	required	-29.46081826	149.8419975
		Newell Highway - 423 Frome		Regulation under CLM Act not		
MOREE	BP Truckstop and Depot Moree	STREET	Service Station	required	-29.48223274	149.8463679
-	-			Regulation under CLM Act not		
MOREE	Sunnyside Road	Sunnyside ROAD	Unclassified	required	-29.456633	149.8225
				Regulation under CLM Act not		
MORISSET	Railcorp Station Masters Cottage	24 Dora STREET	Unclassified	required	-33.10849681	151.4880317
	Telstra Cable Installation and RTA			Regulation under CLM Act not		
MORPETH	Bridge work	Northumberland STREET	Other Petroleum	required	-32.72489729	151.6266795
				Regulation under CLM Act not		
MORPETH	Former Service Station	Swan STREET	Service Station	required	-32.72477413	151.6250642
				Regulation under CLM Act not		
MORTLAKE	Former Petroleum Storage Site	108-116 Tennyson ROAD	Other Petroleum	required	-33.83979033	151.1064889
				Contamination currently		
MORTLAKE	Kendall Bay Sediments	Kendall BAY	Gasworks	regulated under CLM Act	-33.83905999	151.1120458
				Contamination formerly		
MORTLAKE	Former AGL site	Tennyson ROAD	Gasworks	regulated under the CLM Act	-33.84287407	151.1109313
				Regulation under CLM Act not		
MORTLAKE	Majors Bay Redevelopment	14-22 Hilly STREET	Other Industry	required	-33.839553	151.105554
				Regulation under CLM Act not		
MORUYA	Former Fuel Depot Moruya	11 to 13 Ford STREET	Other Petroleum	required	-35.9112243	150.0826475
				Regulation under CLM Act not		
MORUYA	Caltex Service Station Moruya	80-84 Campbell STREET	Service Station	required	-35.91195596	150.0824213
MODUNA	Callan Camilas Station	26 Committee III STREET	Complete Charles	Regulation under CLM Act not	25 242422	150.074.440
MORUYA	Caltex Service Station	26 Campbell STREET	Service Station	required	-35.9104985	150.0711419
NAOCNAANI	7 Floven Mesman	162A Spit Road Corner Mitchell	Consider Station	Regulation under CLM Act not	22 04747046	151 2422622
MOSMAN	7-Eleven Mosman	ROAD	Service Station	required	-33.81747016	151.2433633

List current as of 4 June 2019 47 of 80

Suburb	SiteName	Address	Contamination Activity Type	ManagementClass	Latitude	Longitude
				Regulation under CLM Act not		
MOSMAN	BP Service Station	175 Ourimbah ROAD	Service Station	required	-33.82106757	151.233291
		45.6 H 2042		Regulation under CLM Act not	22 2222274	454 040550
MOSMAN		45 Spit ROAD	Service Station	required	-33.82302718	151.2435627
MOCCIVALE	Woolworths Service Station Moss	600 Argulo STREET	Sandisa Station	Regulation under CLM Act not	24 55400411	150 3600707
MOSS VALE	Vale	609 Argyle STREET	Service Station	required SIAA Astront	-34.55409411	150.3609797
MOSS VALE	Coles Express Service Station	579 Argyle STREET	Service Station	Regulation under CLM Act not required	-34.55313422	150.364684
WO33 VALL	Coles Express Service Station	379 Aigyle 3TREET	Service Station	<u>'</u>	-34.33313422	150.504084
MOSS VALE	Moss Vale Refuelling Facility	Lackey ROAD	Other Petroleum	Regulation under CLM Act not required	-34.54662421	150.3721525
WO33 VALL	Woss vale Nerdening Facility	157 Narellan (Corner Smeaton	Other retroleum	required	34.34002421	150.5721325
MOUNT ANNAN	Woolworths Caltex Mount Annan	Grange Road) ROAD	Service Station	Under assessment	-34.046954	150.760354
	Great Southern Railways	Grange nead, north	gernee station	Regulation under CLM Act not	3	1507 0055 .
MOUNT ANNAN	Aqueduct	Off Narellan ROAD	Unclassified	required	-34.07308479	150.7707436
	Caltex Service Station Mount			Regulation under CLM Act not		
MOUNT COLAH	Colah	603 Pacific HIGHWAY	Service Station	required	-33.67034662	151.1151861
				·		
MOUNT COLAH	Foxglove Oval	Mount Colah ROAD	Landfill	Under assessment	-33.65829855	151.1229638
	Caltex (former Mobil) Service			Regulation under CLM Act not		
MOUNT DRUITT	Station	17 Mount STREET	Service Station	required	-33.76567994	150.8244544
				Regulation under CLM Act not		
MOUNT HUTTON	Woolworths Service Station	46 Wilsons ROAD	Service Station	required	-32.9836378	151.67309
				Regulation under CLM Act not		
MOUNT PRITCHARD	7-Eleven Service Station	352 Elizabeth DRIVE	Service Station	required	-33.90260656	150.8963326
				Regulation under CLM Act not		
MOUNT THORLEY	Bulga Surface Operations	Broke ROAD	Other Industry	required	-32.68325751	151.1206158
	Lowes Petroleum (Former BP)			Regulation under CLM Act not		
MOUNT THORLEY	Depot Mount Thorley	74 Mount Thorley ROAD	Other Petroleum	required	-32.62443074	151.1025122
				Regulation under CLM Act not		
MOUNT VICTORIA	Former Mobil Service Station	81 Great Western HIGHWAY	Service Station	required	-33.5889727	150.2511783
				Regulation under CLM Act not		
MOUNT VICTORIA	Caltex Service Station	36a Great Western HIGHWAY	Service Station	required	-33.58436517	150.2465528
MUDGEE	Caltau Camina Station	114 116 Church CTDEET	Samina Station	Regulation under CLM Act not	22 50428026	140 5076100
MUDGEE	Caltex Service Station	114-116 Church STREET	Service Station	required	-32.59428029	149.5876199
MUDGEE	Shell Coles Express Service Station	47 Church STREET	Service Station	Regulation under CLM Act not required	-32.59347493	149.5884623
MODGEE	Station	47 CHUICH STREET	Service Station	<u>'</u>	-32.59347493	149.3864023
MUDGEE	BP Service Station Mudgee	77 Church STREET	Service Station	Regulation under CLM Act not required	-32.59545872	149.588123
III O D O L L	Di Scrvice Station Mudgee	,, charcity incel	Jet vice Judioil	Contamination currently	-32.39343672	143.300123
MUDGEE	Mobil Depot	47 Douro STREET	Other Petroleum	regulated under CLM Act	-32.60023979	149.5823448
	son bepot	Mortimer Street and Court	Gale. I caroleani	Regulation under CLM Act not	32.00023373	143.3023440
MUDGEE	Mudgee Gasworks	STREET	Gasworks	required	-32.59168859	149.5817705
				Regulation under CLM Act not	32.33200033	1.5.5617705
MUDGEE	Former Essential Energy Depot	27-31 Inglis STREET	Other Industry	required	-32.60073	149.585658

List current as of 4 June 2019 48 of 80

Suburb	SiteName	Address	Contamination Activity Type	ManagementClass	Latitude	Longitude
		cnr Nicholson Street & Atkinson		Regulation under CLM Act not		
MUDGEE	Former Caltex Depot Mudgee	STREET	Other Petroleum	required	-32.60125298	149.5851398
	7-Eleven (former Mobil) Service	Corner Windsor Road and		Regulation under CLM Act not		
MULGRAVE	Station	Mulgrave ROAD	Service Station	required	-33.61687781	150.8341809
MULWALA	Mulwala ADI Explosives Factory	Bayly STREET	Other Industry	Regulation being finalised	-35.97572689	145.9809786
	Puma Murwillumbah (formerly			Contamination currently		
MURWILLUMBAH	Matilda )	182 Tweed Valley WAY	Service Station	regulated under CLM Act	-28.3263681	153.4103824
				Regulation under CLM Act not		
MURWILLUMBAH	Murwillumbah Ambulance Depot	27 Queen STREET	Other Petroleum	required	-28.32552576	153.4000182
	Former Norco Butter Factory			Regulation under CLM Act not		
MURWILLUMBAH SOUTH	(Eastern Portion)	230 Tweed Valley WAY	Other Petroleum	required	-28.32791359	153.4073052
				Regulation under CLM Act not		
MUSWELLBROOK	Former Caltex Depot	1 Lower William STREET	Other Petroleum	required	-32.26614257	150.8865136
				Regulation under CLM Act not	22.252.552	450,0070404
MUSWELLBROOK	Vacant Rail Land	27 Brook STREET	Unclassified	required	-32.26346086	150.8873181
MUSWELLBROOK	United Branded (Former Mobil) Service Station Muswellbrook	49-51 Maitland STREET	Service Station	Regulation under CLM Act not required	-32.27218162	150.8900206
IVIOSVVELLBROOK		49-31 Maitialia 31KEE1	Service Station	· ·	-32.27218102	130.8900200
MUSWELLBROOK	Former Mobil Depot Muswellbrook	43-51 Ford STREET	Other Petroleum	Regulation under CLM Act not required	-32.2599725	150.887573
WOSWELLDROOK	IVIU3WEIIDI OOK	43 31 TOTA STREET	other retroleum	Regulation under CLM Act not	32.2333723	150.007575
MUSWELLBROOK	Woolworths Petrol	72 Brook STREET	Service Station	required	-32.26325377	150.8905966
	Caltex Muswellbrook Service			Regulation under CLM Act not		
MUSWELLBROOK	Station	84-86 Maitland STREET	Service Station	required	-32.27793094	150.8980938
				Regulation under CLM Act not		
MUSWELLBROOK	Former Gasworks	Cnr Carl St and Foley STREET	Gasworks	required	-32.26672337	150.8935982
				Regulation under CLM Act not		
MUSWELLBROOK	Bayswater Power Station	New England HIGHWAY	Other Industry	required	-32.3954046	150.9502683
				Regulation under CLM Act not		
MUSWELLBROOK	Former Industrial Site	Lot 89 Rathmore STREET	Other Industry	required	-32.30544071	150.8823657
				Regulation under CLM Act not		
MUSWELLBROOK	Caltex Service Station	12-16 Sydney STREET	Service Station	required	-32.26785559	150.8879601
MALICIA/ELLIDDOOK	Farmer Caltan Denat	47 FO Victoria STREET	Comice Station	Regulation under CLM Act not	22.2670002	150 0020500
MUSWELLBROOK	Former Caltex Depot	47-50 Victoria STREET	Service Station	required	-32.26788823	150.8930609
NABIAC	Caltex Service Station Nabiac	3964 Wallanbah (Cnr Wallanbah Rd and Pacific Hwy) ROAD	Service Station	Regulation under CLM Act not required	-32.09864883	152.3754346
IVADIAC	Cartex Service Station Nablac	Ru and Pacific Hwy) ROAD	Service Station	Regulation under CLM Act not	-32.09604663	132.3734340
NAMBUCCA HEADS	Former Mobil Service Station	6 Bowra STREET	Service Station	required	-30.64282127	153.0035884
	Torrice meanings need station	o boma o mez.	Service Station	Regulation under CLM Act not	30.0 .202127	135,003300
NARELLAN	Caltex Service Station Narellan	1 George Hunter DRIVE	Service Station	required	-34.03963992	150.7432386
				Regulation under CLM Act not		
NARELLAN	Former Landfill	1 Elyard STREET	Landfill	required	-34.043474	150.7393256
				Regulation under CLM Act not		
NAROOMA	Narooma Service Station	60 Princes HIGHWAY	Service Station	required	-36.21617955	150.126261

List current as of 4 June 2019 49 of 80

Suburb	SiteName	Address	Contamination Activity Type	ManagementClass	Latitude	Longitude
Suburb	Sitename	Address	Contamination Activity Type	Contamination formerly	Latitude	Longitude
NAROOMA	Former Caltex - Narooma	82 Princes HIGHWAY	Service Station	regulated under the CLM Act	-36.21711766	150.1279305
				Regulation under CLM Act not		
NARRABEEN	Caltex Service Station	1509-1511 Pittwater ROAD	Service Station	required	-33.70455756	151.2969352
	Shell Coles Express Service			Regulation under CLM Act not		
NARRABEEN	Station	1418 Pittwater ROAD	Service Station	required	-33.70013931	151.3002782
	Narrabeen Shotgun Range Sydney			manage residual contamination		
NARRABEEN	Academy of Sport	Wakehurst PARKWAY	Unclassified	(CLM Act)	-33.72138423	151.2642798
				Regulation under CLM Act not		
NARRABEEN	7-Eleven Service Station	1234 Pittwater ROAD	Service Station	required	-33.71958892	151.298272
		100 1 070557		Regulation under CLM Act not	20.22242	4 40 70 40070
NARRABRI	Caltex Service Station	13 Doyle STREET	Service Station	required	-30.3239182	149.7843052
NADDADDI	Lowes Petroleum (Former Mobil)	3 Old Cunnodah BOAD	Other Detroloum	Regulation under CLM Act not	20.22472596	140 790597
NARRABRI	Narrabri Depot	3 Old Gunnedah ROAD	Other Petroleum	required	-30.33473586	149.789587
NARRABRI	Caltex Service Station	31-35 Cooma ROAD	Service Station	Regulation under CLM Act not required	-30.33968576	149.7657241
NAMADM	Curtex Service Station	31 Dangar (Cnr Anne and Dangar)	Service Station	Regulation under CLM Act not	30.33300370	145.7657241
NARRABRI	Caltex Narrabri Service Station	STREET	Service Station	required	-30.32989667	149.7756598
				Regulation under CLM Act not		
NARRABRI	Caltex Service Station	12 Reid STREET	Other Petroleum	required	-30.32282764	149.7901182
				Contamination formerly		
NARRABRI	Cargill Soapstock Disposal Site	Westport ROAD	Unclassified	regulated under the CLM Act	-30.4698458	149.6981931
				Regulation under CLM Act not		
NARRABRI	Caltex Service Station	7-13 James STREET	Service Station	required	-30.33016168	149.7940732
				Regulation under CLM Act not		
NARRANDERA	Former Mobil Narrandera Depot	24 Whitton STREET	Other Petroleum	required	-34.7410523	146.5620667
	Former Mobil Emoleum			Regulation under CLM Act not		
NARRANDERA	Narrandera Depot	5-7 Margaret STREET	Other Petroleum	required	-34.74105391	146.5628144
NIA DDOMAINIE	Narromine Fuel (Former Caltex)	Cnr Burraway Street and Algalah	Coming Chatiers	Regulation under CLM Act not	22 22555224	440.2454250
NARROMINE	Service Station	STREET	Service Station	required	-32.23565321	148.2454259
NELLIGEN	Former Clay Target Shooting Range	adjoining land on Old Bolaro Mountain ROAD	Unclassified	Contamination currently regulated under CLM Act	-35.64392469	150.0955224
INCLLIGEN	Kange	Woultain NOAD	Officiassified	Contamination formerly	-33.04392409	130.0933224
NELLIGEN	Lot 2 Old Bolaro Road	Old Bolaro ROAD	Unclassified	regulated under the CLM Act	-35.64485609	150.0937341
-	Shell Coles Express Service			Regulation under CLM Act not		
NELSON BAY	Station	25 Stockton STREET	Service Station	required	-32.72265762	152.1437317
	Former Caltex Service Station			Regulation under CLM Act not		
NELSON BAY	Nelson Bay	38 Stockton STREET	Service Station	required	-32.72335662	152.1429384
_	Caltex Service Station and Depot	428 Armidale (previously 16 New		Regulation under CLM Act not		
NEMINGHA	Nemingha	England Highway) ROAD	Service Station	required	-31.12425169	150.9909054
NEUTRAL BAY	Caltex Service Station	16-38 Military ROAD	Service Station	Under assessment	-33.82907162	151.2163342
	Shell Coles Express Service			Regulation under CLM Act not		
NEUTRAL BAY	Station	200-204 Ben Boyd ROAD	Service Station	required	-33.82915781	151.219437

List current as of 4 June 2019 50 of 80

Suburb	SiteName	Address	Contamination Activity Type	ManagementClass	Latitude	Longitude
	Caltex Service Station New			Regulation under CLM Act not		
NEW LAMBTON	Lambton	144 Bridges ROAD	Service Station	required	-32.93283668	151.7141748
				Regulation under CLM Act not		
NEW LAMBTON	BP Service Station	105 St James ROAD	Service Station	required	-32.92910325	151.7155801
NIEW LANADTON	7-Eleven (former Mobil) Service	204 Turkey BOAD	Comitoe Station	Regulation under CLM Act not	22.04.77206	454 7242000
NEW LAMBTON	Station	291 Turton ROAD	Service Station	required	-32.91773864	151.7243096
NEWCASTLE	Reclaimed Land	26-28 Honeysuckle DRIVE	Unclassified	Contamination formerly regulated under the CLM Act	-32.92604705	151.7649508
INEWCASTLE	Recialified Lafid	26-28 Holleysuckie DRIVE	Officiassified		-32.92604703	151.7649508
NEWCASTLE	Wharf Road Newcastle Car Park	313-317 Wharf ROAD	Unclassified	Regulation under CLM Act not required	-32.92570385	151.7744076
NEWCASTEE	Wildir Road Newcastle Car Fark	313-317 WHAIT ROAD	Officiassified	Regulation under CLM Act not	-32.92370383	131.7744070
NEWCASTLE	Newcastle Foreshore	40 Stevenson Place STREET	Other Industry	required	-32.92556503	151.7876742
1454407075155	New castle 1 of estione	Bound by Hunter River, Selwyn	Cities madsity	manage residual contamination	32.32330303	131.7070742
NEWCASTLE	BHP Steelworks (Closure site)	Street & Industrial DRIVE	Metal Industry	(CLM Act)	-32.89436064	151.7590762
			,	Regulation under CLM Act not		
NEWCASTLE	SRA Land	Scott STREET	Gasworks	required	-32.92641425	151.7837817
				Regulation under CLM Act not		
NEWCASTLE WEST	Former Mobil Service Station	113 Parry STREET	Service Station	required	-32.92560628	151.7558542
	7-Eleven (former Mobil) Service			Regulation under CLM Act not		
NEWPORT	Station	307 Barrenjoey ROAD	Service Station	required	-33.65632902	151.3182089
	Former Caltex Service Station			Regulation under CLM Act not		
NEWPORT	Newport	316-324 Barrenjoey ROAD	Service Station	required	-33.65634516	151.3191571
				Regulation under CLM Act not		
NEWTOWN	Caltex Service Station Newtown	26 - 36 Enmore ROAD	Service Station	required	-33.89851331	151.17714
				Contamination formerly		
NEWTOWN	Former Service Station	81 Wilson STREET	Service Station	regulated under the CLM Act	-33.89626791	151.1827556
				Contamination was addressed via		
NEWTOWN	Aluminium Enterprises	66 Brocks LANE	Metal Industry	the planning process (EP&A Act)	-33.89467126	151.1847528
	Adjacent to Former Service			Contamination formerly		
NEWTOWN	Station	79 Wilson STREET	Service Station	regulated under the CLM Act	-33.89630155	151.1826567
				Regulation under CLM Act not		
NORAVILLE	Former Toukley Landfill	Wilfred Barrett DRIVE	Landfill	required	-33.27734185	151.5537784
MODTH ALDHOV	Caltex Service Station and Diesel	70 Union BOAD	Comice Station	Regulation under CLM Act not	26.05406712	146 0407625
NORTH ALBURY	Stop	79 Union ROAD	Service Station	required	-36.05496713	146.9487635
NORTH BOAMBEE VALLEY	Caltex Service Station	Cnr Pacific Hwy & Halls ROAD	Service Station	Regulation under CLM Act not required	-30.30639482	153.1007996
NORTH BOAIVIBLE VALLET		CHI Pacific nwy & nails ROAD	Service Station	<u>'</u>	-30.30039462	153.1007996
NORTH BONDI	Caltex Service Station North Bondi	321 Old South Head ROAD	Service Station	Regulation under CLM Act not required	-33.88463526	151.268551
NORTH BOND!	Bondi	321 Old South Field ROAD	Service Station	Regulation under CLM Act not	33.00403320	131.200331
NORTH NARRABEEN	7-Eleven Service Station	1501-1503 Pittwater ROAD	Service Station	required	-33.70749859	151.296351
	. Election del title station		23.1100 31411011	Regulation under CLM Act not	33.70743033	151.250551
NORTH RICHMOND	Caltex Service Station	50 Bells Line Of ROAD	Service Station	required	-33.57991338	150.7202346
	7-Eleven Service Station North			Regulation under CLM Act not		
NORTH ROCKS	Rocks	340 North Rocks ROAD	Service Station	required	-33.76895144	151.0305952

List current as of 4 June 2019 51 of 80

Suburb	SiteName	Address	Contamination Activity Type	ManagementClass	Latitude	Longitude
				Regulation under CLM Act not		
NORTH ST MARYS	BP Service Station	76 Glossop STREET	Service Station	required	-33.76020183	150.7818149
NODELL CED ATLIEUS D				Regulation under CLM Act not	22.050.450.40	454 0007050
NORTH STRATHFIELD	Budget Service Station	143 Concord ROAD	Service Station	required	-33.85945248	151.0927853
NORTH STRATHFIELD	Former Caltex Service Station	92a Concord ROAD	Service Station	Regulation under CLM Act not required	-33.86244297	151.0932434
NORTH STRATHFIELD	Former Cartex Service Station	32a CONCOLO ROAD	Service Station	Regulation under CLM Act not	-53.60244257	131.0932434
NORTH SYDNEY	Iora Complex	1 Kiara PLACE	Gasworks	required	-33.843145	151.2161142
HORITSTBILL	lora complex	Adjacent to HMAS Platypus, 118	Gusworks	Contamination formerly	33.343143	131.2101142
NORTH SYDNEY	Neutral Bay Sediments	High STREET	Gasworks	regulated under the CLM Act	-33.842724	151.2174523
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			Contamination currently		
NORTH SYDNEY	HMAS Platypus Neutral Bay	High STREET	Gasworks	regulated under CLM Act	-33.84325935	151.2170347
				Regulation under CLM Act not		
NORTH WOLLONGONG	Former Mobil Depot	122-126 Montague STREET	Other Petroleum	required	-34.40988259	150.8939374
				Regulation under CLM Act not		
NORTHMEAD	Former Prestige Plastics	1C Redbank ROAD	Other Industry	required	-33.79716925	150.989926
	Coles Express Service Station			Regulation under CLM Act not		
NORTHMEAD	Northmead	197 Windsor ROAD	Service Station	required	-33.77741733	151.0001719
				Regulation under CLM Act not		
NORTHMEAD	Sydney Water Land	51c Hammers ROAD	Landfill	required	-33.7887535	150.9858088
NORTHAGAR		00 400 117 1 00 40		Regulation under CLM Act not	22 7070555	4500045000
NORTHMEAD	Caltex Service Station	98-100 Windsor ROAD	Service Station	required	-33.78786563	150.9945909
NORTHMEAD	7-Eleven Service Station Northmead	56 Windsor ROAD	Service Station	Regulation under CLM Act not required	-33.79090731	150.9967332
NORTHIVIEAD		36 WIIIUSOF KOAD	Service Station	- 1	-55.79090751	150.9907332
NOWRA	Former Gasworks Managers Residence	24 Osborne STREET	Gasworks	Regulation under CLM Act not required	-34.8708875	150.5992586
THO WILL	residence	24 OSBOTTIC STREET	Gusworks	Regulation under CLM Act not	34.0700073	130.3332300
NOWRA	Fire Station	69 Bridge ROAD	Gasworks	required	-34.87081582	150.6004881
				Regulation under CLM Act not		
NOWRA	Historically Filled Land	70 Bridge ROAD	Unclassified	required	-34.87081809	150.6013231
	Shell Coles Express Service			Regulation under CLM Act not		
NOWRA	Station	55 Kinghorne STREET	Service Station	required	-34.87633757	150.6023481
				Contamination currently		
NOWRA	Former gasworks	Lamonds LANE	Gasworks	regulated under CLM Act	-34.87111182	150.6000803
				Regulation under CLM Act not		
NOWRA	Former Hollingworth Scrap Yard	72-74 Jervis and 117 East STREET	Other Industry	required	-34.88324216	150.6034361
NOWRA	Woolworths Service Station	2 Berry STREET	Service Station	Regulation being finalised	-34.87266278	150.6014052
NOMBA	Harm Caudina Saat	Bounded by Princes Hwy, Graham	Canuada	Regulation under CLM Act not	24.0700000	450 0003453
NOWRA	Harry Sawkins Park	St & McGrath AVENUE	Gasworks	required	-34.87093993	150.6037157
NOWRA EAST	Mobil Service Station	Lot 3 Kalandar STREET	Service Station	Contamination formerly regulated under the CLM Act	-34.88850535	150.6093504
INO WINA EAST	INIODII SELVICE STATIOII	LOC 5 Raidiludi 31REE1	Jei vice Station	Regulation under CLM Act not	-34.08630333	130.0093304
NYNGAN	Caltex Service Station	39-41 Pangee STREET	Service Station	required	-31.56101006	147.1914997

List current as of 4 June 2019 52 of 80

Suburb	SiteName	Address	Contamination Activity Type	ManagementClass	Latitude	Longitude
				Regulation under CLM Act not		
NYNGAN	Caltex Service Station	126 Pangee STREET	Service Station	required	-31.56482841	147.2002892
0.41/.51.450				Regulation under CLM Act not	24.555.654	450 0007005
OAK FLATS	Shellharbour City Works Depot	132 Industrial ROAD	Other Industry	required	-34.56546013	150.8087225
OBERON	Caltex Service Station and Depot	Lowes Mount ROAD	Service Station	Regulation under CLM Act not required	-33.69509055	149.8570553
OBERON	Cartex Service Station and Depot	Lowes Would ROAD	Service Station	Regulation under CLM Act not	-53.09309033	149.8370333
OBERON	Oberon Timber Complex	Lowes Mount ROAD	Other Industry	required	-33.69264862	149.8564588
OBERON	Oberon Timber complex	Lowes Modific No.15	other maastry	Regulation under CLM Act not	33.03204002	143.0304300
OBERON	Former Shell Depot	32 O'Connell ROAD	Other Petroleum	required	-33.6997172	149.8450057
	CSR Ltd Property and King's			Contamination formerly		
OBERON	Stockyard Creek	Off Endeavour STREET	Other Industry	regulated under the CLM Act	-33.6922152	149.8686909
	Former Ocean Shores Service			Regulation under CLM Act not		
OCEAN SHORES	Station	Pacific HIGHWAY	Service Station	required	-28.51270299	153.5301496
				Regulation under CLM Act not		
OLD GUILDFORD	Caltex Service Station	636-644 Woodville ROAD	Service Station	required	-33.86670857	150.9879189
				Contamination currently		
ORANGE	Former Fuel Depot	24-26 Peisley STREET	Other Petroleum	regulated under CLM Act	-33.29624293	149.1017277
				Regulation under CLM Act not		
ORANGE	Caltex Orange Depot	184 Byng STREET	Service Station	required	-33.28285589	149.1050273
ODANCE	Woolworths Orange Service	357-361 Summer Street, corner	Comice Station	Regulation under CLM Act not	22 20445044	140 1053504
ORANGE	Station Station	William STREET	Service Station	required	-33.28445811	149.1053604
ORANGE	BP Orange Service Station (Reliance Petroleum)	81 Summer STREET	Service Station	Regulation under CLM Act not required	-33.2825884	149.0951535
ORANGE	BP-Branded Lowes Petroleum	81 Sulliller STREET	Service Station	Regulation under CLM Act not	-55.2623664	149.0931333
ORANGE	Depot	197 - 201 Margaret STREET	Other Petroleum	required	-33.27145977	149.1078103
010.0102	Caltex Summer Street Service	70-74 Summer Street, corner Hill	other retroicum	Regulation under CLM Act not	33.271.3377	1.5.12070105
ORANGE	Station Orange	STREET	Service Station	required	-33.28311722	149.0940712
	Lowes Petroleum (BP-branded)			Regulation under CLM Act not		
ORANGE	Service Station	76 Peisley STREET	Service Station	required	-33.29025034	149.1027194
				Regulation under CLM Act not		
ORANGE	Former Mobil Service Station	24-28 Bathurst ROAD	Service Station	required	-33.2866912	149.1066505
	BP (Reliance Petroleum) Service			Regulation under CLM Act not		
ORANGE	Station Orange	56-60 Bathurst ROAD	Service Station	required	-33.28980053	149.1086212
				Regulation under CLM Act not		
ORANGE	Former Mobil Service Station	168 Peisley STREET	Service Station	required	-33.28525478	149.1037259
				Contamination currently		
ORANGE	Electrolux Orange	5-7 Edward STREET	Other Industry	regulated under CLM Act	-33.29874849	149.1038449
OLIDIAADALI	Polmdolo Consido Contro Philipa	2120 Pacific HICHWAY	Consider Station	Regulation under CLM Act not	22 2204220	151 374500
OURIMBAH	Palmdale Service Centre Pty Ltd	3130 Pacific HIGHWAY	Service Station	required	-33.3381336	151.374586
OURIMBAH	Shell Coles Express Service Station	78-80 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.3468202	151.3710098
OURINDALI	Station	70 00 FACILIC HIGHWAT	SCIVICE STATION	Regulation under CLM Act not	-33.3406202	131.3/10098
OXLEY VALE	Hayes Transport Services	10 Manilla ROAD	Other Petroleum	required	-31.06991417	150.9101381

List current as of 4 June 2019 53 of 80

Suburb	SiteName	Address	Contamination Activity Type	ManagementClass	Latitude	Longitude
	Shell Coles Express Service			Contamination currently		
OYSTER BAY	Station	20 Carvers ROAD	Service Station	regulated under CLM Act	-34.00934475	151.0758626
				Contamination currently		
OYSTER COVE	Cove Marine Pty Ltd	60 Frederick STREET	Unclassified	regulated under POEO Act	-32.73549959	151.952446
DADDINGTON	7 Flavor Camina Station	50 Out and STREET	Canada Chatian	Contamination currently	22.00222024	454 2205024
PADDINGTON	7-Eleven Service Station	59 Oxford STREET	Service Station	regulated under CLM Act	-33.88322921	151.2205024
DADDINGTON	Farmer Workshop	F2 Henry STREET	Ohle on landucher.	Regulation under CLM Act not	-33.881947	151 222074
PADDINGTON	Former Workshop	52 Hopewell STREET	Other Industry	required	-33.881947	151.222074
PADSTOW	Caltex Padstow	115 Fairford ROAD	Service Station	Regulation under CLM Act not required	-33.9434571	151.0345671
PADSTOW	Cartex Faustow	113 Fall fold ROAD	Service Station	Regulation under CLM Act not	-53.5454371	131.0343071
PADSTOW	Selleys / Dulux	1-29 Gow STREET	Chemical Industry	required	-33.93904125	151.0381725
17,031011	Former Exide Battery	1 23 GOW STREET	Chemical maustry	Contamination currently	33.33304123	131.0301723
PADSTOW	Manufacturing & Recycling	55 Bryant STREET	Other Industry	regulated under CLM Act	-33.94265241	151.0378986
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	manarasta mg a nesysmig	55 Siyane Sinee:	other madetry	Contamination currently	3313 12032 12	131.037.0300
PADSTOW	Galvatech	49 Gow STREET	Metal Industry	regulated under POEO Act	-33.93808679	151.0346862
			,	Regulation under CLM Act not		
PADSTOW	Foseco Australia	7 Stuart STREET	Chemical Industry	required	-33.94342957	151.0377316
			·	Regulation under CLM Act not		
PADSTOW	Sebel Furniture	Parts 64 and 92 Gow STREET	Other Industry	required	-33.93606752	151.0322057
		Corner of Page Street and		Contamination currently		
PAGEWOOD	Former Email Site	Holloway STREET	Metal Industry	regulated under CLM Act	-33.94302462	151.2132036
	to United Service Station Pambula	Corner Quondola Street and		Regulation under CLM Act not		
PAMBULA	(former Shell)	Bullara STREET	Service Station	required	-36.93104481	149.8746763
				Regulation under CLM Act not		
PARKES	Caltex Service Station Parkes	352-360 Clarinda STREET	Service Station	required	-33.13317454	148.173643
	(Mugincoble) Depot - Eugowra			Regulation under CLM Act not		
PARKES	Rd, Mugincoble	Eugowra ROAD	Service Station	required	-33.19007031	148.224822
				Regulation under CLM Act not		
PARKES	BP Truckstop	(Newell Highway) 1 Forbes ROAD	Other Petroleum	required	-33.14309226	148.1710282
	Former BP Telescope Service			Regulation under CLM Act not		
PARKES	Station	339-341 Clarinda STREET	Service Station	required	-33.13216152	148.1743239
DARKEC	BP Reliance East End Service	AC Clarity de CTREET	Canada Chatian	Regulation under CLM Act not	22.4.42.42.520	440.4046227
PARKES	Station Parkes	46 Clarinda STREET	Service Station	required	-33.14243539	148.1846227
DADIZIFA	Coltan Barblas Camina Station	Old Windsor (north of Miami	Camilaa Chabian	Regulation under CLM Act not	22 72427400	150 0200521
PARKLEA	Caltex Parklea Service Station	Street) ROAD	Service Station	required	-33.72427108	150.9388531
PARRAMATTA	BP Service Station	435 Church STREET	Service Station	Regulation under CLM Act not required	-33.80498714	151.0056151
PARRAIVIATTA	Br Service Station	Cnr of Pitt STREET and Maguarie	Service Station	Regulation under CLM Act not	-33.60436714	131.0030131
PARRAMATTA	Coleman Oval Embankment	STREET	Unclassified	required	-33.80441625	150.9954841
FAMAWATTA	7-Eleven (former Mobil) Service	STREET	Officiassified	Regulation under CLM Act not	-33.60441023	130.9934841
PARRAMATTA	Station	81 Victoria ROAD	Service Station	required	-33.80919769	151.0142894
	Parramatta Park Toilet Block	The Cresent Toilet Block		Regulation under CLM Act not	33.23313703	101.01 /2034
PARRAMATTA	Demolition	Parramatta PARK	Unclassified	required	-33.81054034	150.9961968

List current as of 4 June 2019 54 of 80

Suburb	SiteName	Address	Contamination Activity Type	ManagementClass	Latitude	Longitude
				Regulation under CLM Act not		
PAUPONG	Former Timber Treatment Plant	Off Paupong ROAD	Other Industry	required	-36.57657408	148.6624998
DENIDLE LIIL	7 Flavor Comica Station	247 Manteur et la AVENUE	Comice Station	Regulation under CLM Act not	22 001701	150.0577004
PENDLE HILL	7-Eleven Service Station	217 Wentworth AVENUE	Service Station	required	-33.8017814	150.9577994
PENNANT HILLS	Shell Coles Express Pennant Hills West	386 Pennant Hills ROAD	Service Station	Contamination currently regulated under CLM Act	-33.73936462	151.0680237
F LINIVAINT THELS	West	360 Fermant Tims NOAD	Service Station	Regulation under CLM Act not	-55.75950402	131.0080237
PENRITH	Mirvac Industrial Site	2101 Castlereagh ROAD	Other Industry	required	-33.73497514	150.6954097
	7-Eleven (former Mobil) Service		,	Regulation under CLM Act not		
PENRITH	Station	212-222 Andrews ROAD	Service Station	required	-33.73059678	150.6952571
	Lowes Petroleum (Former Mobil)			Regulation under CLM Act not		
PENRITH	Depot Penrith	174 Coreen AVENUE	Other Petroleum	required	-33.74484268	150.6980504
		Castlereagh Rd Cnr Lugard		Regulation under CLM Act not		
PENRITH	Caltex Service Station	STREET	Service Station	required	-33.73426843	150.6933382
		Corner Coreen Avenue and		Regulation under CLM Act not		
PENRITH	BP Express Service Station	Castlereagh ROAD	Service Station	required	-33.74385498	150.6925743
				Contamination currently		
PENRITH	Crane Enfield Metals	Castlereagh ROAD	Metal Industry	regulated under CLM Act	-33.73734959	150.696442
DENDITU	7 Flavor Comitae Station Bondith	20 Harry STREET	Comice Station	Regulation under CLM Act not	22.75400700	150 7045504
PENRITH	7-Eleven Service Station Penrith	30 Henry STREET	Service Station	required	-33.75408799	150.7045594
PENRITH	Caltex Penrith Service Station	153 Coreen AVENUE	Service Station	Regulation under CLM Act not required	-33.74287244	150.6927071
LINITI	Cartex Fermini Service Station	133 COICEMANDING	Service Station	Regulation under CLM Act not	33.74207244	130.0327071
PENRITH	Jet 60 Dry Cleaners	Shop 3 134-138 Henry STREET	Unclassified	required	-33.75231953	150.6964541
	,			- 1		
PENRITH	St Mary's Shopping Village	Charles Hackett DRIVE	Other Industry	Under assessment	-33.766814	150.770363
PENRITH	Former Dry Cleaners	Shop 3, 134-138 Henry STREET	Other Industry	Under assessment	-33.75231953	150.6964541
				Regulation under CLM Act not		
PENSHURST	7-Eleven Service Station	612 Forest ROAD	Service Station	required	-33.96153533	151.0793525
DENCH IDST		5.1.1/		Regulation under CLM Act not	22.0500522	151 0001110
PENSHURST	Caltex Service Station	641 King Georges ROAD	Service Station	required	-33.95985335	151.0891118
PERISHER VALLEY	Perisher Centre Loading Dock	Kosciuszko ROAD	Other Petroleum	Regulation under CLM Act not required	-36.40392862	148.4111593
FENISHEN VALLET	Ferisher Centre Loading Dock	ROSCIUSZKO ROAD	Other retroleum	Regulation under CLM Act not	-30.40392802	. 148.4111393
PERISHER VALLEY	Perisher Ski Resort	Kosciuszko ROAD	Other Petroleum	required	-36.41106374	148.4005469
TEMOTIER VALLET	T CHISTICT SKI NESSTE	Nosciaszko No/IB	Guier i cu oleum	Regulation under CLM Act not	30.41100374	140.4003403
PETERSHAM	Fanny Durack Aquatic Centre	Station STREET	Unclassified	required	-33.89194583	151.151824
				Regulation under CLM Act not		
PHEASANTS NEST	7-Eleven Service Station	(Southbound) Hume HIGHWAY	Service Station	required	-34.28291571	150.6394606
	7-Eleven (former Mobil) Service			Regulation under CLM Act not		
PHEASANTS NEST	Station	(Northbound) Hume HIGHWAY	Service Station	required	-34.28303112	150.6363145
				Regulation under CLM Act not		
PICTON	Coles Express Picton	93-99 Argyle STREET	Service Station	required	-34.16844337	150.6114236

List current as of 4 June 2019 55 of 80

Suburb	SiteName	Address	Contamination Activity Type	ManagementClass	Latitude	Longitude
				Regulation under CLM Act not		
PICTON	McDonalds	69 -71 Argyle STREET	Service Station	required	-34.16711877	150.6121524
	Plumpton (Plumpton Marketplace			Regulation under CLM Act not	22.74.722	
PLUMPTON	Shops)	260 Jersey ROAD	Service Station	required	-33.74478874	150.8369408
PORT BOTANY	Vopak B	20 Friendship ROAD	Chemical Industry	Regulation under CLM Act not required	-33.97946548	151.2121752
FORT BOTAINT	уорак в	20 Friendship KOAD	Chemical moustry	Regulation under CLM Act not	-33.97940348	131.2121/32
PORT BOTANY	Vopak A	49 Friendship ROAD	Chemical Industry	required	-33.97426175	151.2206228
10111 20171111	vopukyt	45 Friendship Novib	Chemical madsary	Regulation under CLM Act not	33.37420173	131.2200220
PORT BOTANY	Terminals	45 Friendship ROAD	Chemical Industry	required	-33.97609287	151.2174402
-		Between Brotherson Dock and	,	Regulation under CLM Act not		
PORT BOTANY	Bunnerong Canal	Bumborah Point ROAD	Unclassified	required	-33.96800557	151.2227633
	Bulk Liquids Berth UPSS, Port			Regulation under CLM Act not		
PORT BOTANY	Botany	Charlotte ROAD	Other Petroleum	required	-33.97386329	151.2120157
	Port Operations Centre UPSS,			Regulation under CLM Act not		
PORT BOTANY	Port Botany	Penrhyn ROAD	Other Petroleum	required	-33.96803686	151.2205968
				Regulation under CLM Act not		
PORT BOTANY	Port Botany Railway Corridors	Friendship ROAD	Other Industry	required	-33.95467008	151.2178012
				Regulation under CLM Act not		
PORT BOTANY	Smith Bros	4 Bumborah Point ROAD	Other Petroleum	required	-33.9681757	151.2239505
DODT KENADI A	Coates Hire Facility (Eastern	1 Eliadaya CTREET	Ohlo on In division .	Regulation under CLM Act not	24 47104917	150 80163
PORT KEMBLA	Portion)	1 Flinders STREET	Other Industry	required	-34.47104817	150.89162
PORT KEMBLA	Shell Port Kembla CVRO	87-89 Flinders STREET	Other Petroleum	Regulation under CLM Act not required	-34.46964995	150.8953859
PORT REIVIBLA	Shell Fort Kernbia CVKO	87-89 FIIIIUEIS STREET	Other retroleum	Regulation under CLM Act not	-34.40904993	130.8933839
PORT KEMBLA	Darcy Road Rail Sidings	Darcy ROAD	Other Industry	required	-34.47792834	150.9105503
TOTAL REMIDER	Sarey nead name sames	Dailey No.12	other madetry	Regulation under CLM Act not	3,73265	130.313333
PORT KEMBLA	No 2 Steelworks	Five Islands ROAD	Metal Industry	required	-34.45965024	150.8844432
			,	Contamination currently		
PORT KEMBLA	Port Kembla Orica	Foreshore Road and Darcy ROAD	Other Industry	regulated under CLM Act	-34.47773583	150.9054545
	Port Kembla, Auszinc Metals and			Regulation under CLM Act not		
PORT KEMBLA	Alloys	Lot 2 Shellharbour ROAD	Metal Industry	required	-34.49335414	150.8961205
				Regulation under CLM Act not		
PORT KEMBLA	South Yard Rail Sidings	Lot 3 Old Port ROAD	Unclassified	required	-34.47500551	150.8951759
				Contamination formerly		
PORT KEMBLA	Manildra Park	Flinders STREET	Other Petroleum	regulated under the CLM Act	-34.46946878	150.8935731
				l		
PORT KEMBLA	Port Kembla Copper Smelter	Military ROAD	Metal Industry	Under assessment	-34.4810006	150.9063426
PORT KEMBLA	Caltay Sancias Station	16 Flinders STREET	Carries Station	Regulation under CLM Act not required	-34.47058088	150 0045004
PORT KEIVIBLA	Caltex Service Station	16 Flinders STREET	Service Station	'	-34.47058088	150.8945864
PORT KEMBLA	BHP Area 21	Springhill ROAD	Metal Industry	Contamination formerly regulated under the CLM Act	-34.45244614	150.8676517
I ON I KLIVIDLA	Port Kembla Steelworks Recycling	Springilli NOAD	wictai muusu y	Regulation under CLM Act not	-54.45244014	130.00/031/
PORT KEMBLA	Area	Springhill ROAD	Unclassified	required	-34.45271181	150.8677127

List current as of 4 June 2019 56 of 80

Suburb	SiteName	Address	Contamination Activity Type	ManagementClass	Latitude	Longitude
	Commonwealth Rolling Mills			Regulation under CLM Act not		
PORT KEMBLA	(CRM)	Old Port ROAD	Metal Industry	required	-34.47476117	150.8974746
	Port Kembla, Former Electricity	Old Port Road/Christie Drive		Regulation under CLM Act not		
PORT KEMBLA	Commission Site	ROAD	Other Industry	required	-34.46899143	150.8982854
DODT KENADI A	Port Kembla Steelworks -	Fire John de BOAD	Ohla and I medicanhum.	Regulation under CLM Act not	24 47605245	150 901144
PORT KEMBLA	Steelhaven Port Kembla Steelworks - No.1	Five Islands ROAD	Other Industry	required  Regulation under CLM Act not	-34.47605247	150.891144
PORT KEMBLA	Works Site	Five Islands ROAD	Metal Industry	required	-34.47386606	150.8794912
FORT KLINDLA	WOIKS SILE	Tive Islands NOAD	ivietai maasti y	Regulation under CLM Act not	-34.47380000	130.8794912
PORT KEMBLA	Port Kembla Springhill Works	Springhill ROAD	Metal Industry	required	-34.45905808	150.8749558
TOTAL NEW DEX	r or the mana optiming min the ma		- Treed made y	Regulation under CLM Act not	3 11 133 03 00 0	130.07 13330
PORT MACQUARIE	Former Mobil Depot	211 Lake ROAD	Other Petroleum	required	-31.44688513	152.8864499
				Regulation under CLM Act not		
PORT MACQUARIE	Caltex Service Station	112-114 Gordon STREET	Service Station	required	-31.43491709	152.9047618
	Caltex Port Macquarie Service			Regulation under CLM Act not		
PORT MACQUARIE	Station	29 Lord STREET	Service Station	required	-31.43326436	152.9169873
				Regulation under CLM Act not		
PORT MACQUARIE	Coles Myer	43 John Oxley DRIVE	Service Station	required	-31.45741442	152.8739626
				Regulation under CLM Act not		
PORT MACQUARIE	Air BP Avgas Facility	Oliver DRIVE	Other Petroleum	required	-31.43227222	152.8681083
		Corner Oxley Highway and Major		Regulation under CLM Act not		
PORT MACQUARIE	Former Mobil Service Station	Innes DRIVE	Service Station	required	-31.45738931	152.873956
DODT MACOLIA DIE	Don't Manageria Council Donat	Kanla CTREET	Unclassified	Regulation under CLM Act not	21 45241506	152,0022764
PORT MACQUARIE	Port Macquarie Council Depot	Koala STREET	Unclassified	required	-31.45341586	152.9032764
PORT MACQUARIE	Shell Coles Express Port Macquarie Service Station	121 Gordon STREET	Service Station	Regulation under CLM Act not required	-31.4343131	152.9046869
TONT WACQUARTE	Widequarie Service Station	121 GOIGON STREET	Service Station	Regulation under CLM Act not	31.4343131	132.5040005
PORT MACQUARIE	Caltex Service Station	92 Hastings River DRIVE	Service Station	required	-31.42934052	152.8830188
				Regulation under CLM Act not		
PORT MACQUARIE	Caltex Service Station	12-14 Bolwarra ROAD	Service Station	required	-31.45015286	152.8854769
				Regulation under CLM Act not		
PORT MACQUARIE	Car park	28 Hayward STREET	Other Industry	required	-31.43385131	152.9072399
				Regulation under CLM Act not		
PORTLAND	Ivanhoe Colliery	Pipers Flat ROAD	Other Industry	required	-33.36595748	150.0099577
				Regulation under CLM Act not		
PORTLAND	Mt Piper Power Station	350 Boulder ROAD	Other Petroleum	required	-33.35581541	150.0350801
	7-Eleven (former Caltex) Service			Regulation under CLM Act not		
PRAIRIEWOOD	Station	485-487 Smithfield ROAD	Service Station	required	-33.87102509	150.9031383
	7-Eleven (former Mobil) Service			Regulation under CLM Act not		
PROSPECT	Station Prospect	354 Flushcombe ROAD	Service Station	required	-33.79541624	150.9049417
DDOCDECT	Discottle Cottons Coto Cd	Off December 1904 D	Lindonified	Regulation under CLM Act not	22.04500777	150.044343
PROSPECT	Pincott's Cottage, Gate C1	Off Reservoir ROAD	Unclassified	required	-33.81589773	150.9144343
PROSPECT	Gatehouse, 544 Reservoir Road	544 Reservoir ROAD	Unclassified	Regulation under CLM Act not required	-33.81049244	150.9157439
FNOSPECI	Gateriouse, 544 Reservoir Road	244 Keservoir KUAD	Unclassified	requireu	-33.81049244	150.9157439

List current as of 4 June 2019 57 of 80

Suburb	SiteName	Address	Contamination Activity Type	ManagamantClass	Latitude	Longitude
Suburb	Sitename	Address	Contamination Activity Type	ManagementClass  Regulation under CLM Act not	Latitude	Longitude
PROSPECT	Cottage 3, William Lawson Drive	William Lawson DRIVE	Unclassified	required	-33.81490331	150.9149885
		1375 Canterbury Road, corner		Regulation under CLM Act not		
PUNCHBOWL	Former BP Service Station	Victoria ROAD	Service Station	required	-33.93170424	151.0537302
				Contamination currently		
PUNCHBOWL	Punchbowl Laundry	42-44 Belmore ROAD	Chemical Industry	regulated under CLM Act	-33.93582701	151.0562638
				Regulation under CLM Act not		
PUNCHBOWL	Caltex Service Station Punchbowl	1285-1289 Canterbury ROAD	Service Station	required	-33.93146308	151.0596348
PUTNEY	Putney Marina	20 Waterview STREET	Other Industry	Regulation being finalised	-33.82608091	151.1003966
PUTNET	Putney Marina	20 Waterview STREET	Other Industry	Regulation being finalised	-33.82008091	151.1003900
PYMBLE	Caltex Service Station	1089 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.74102977	151.1385257
THIDLE	Shell Coles Express Service	1005 Facilie Fildriva	Jervice Station	Regulation under CLM Act not	33.74102377	151:1305257
PYMBLE	Station	21 Ryde ROAD	Service Station	required	-33.75198512	151.1438115
	otation.	21 Nyde North	oc. rise station	Regulation under CLM Act not	5317 513 5511	10111 100110
PYMBLE	Former 3M site	950 Pacific HIGHWAY	Gasworks	required	-33.75050288	151.1460578
				Under preliminary investigation		
PYMBLE	Pymble West Dry Cleaners	6 Philip MALL	Other Industry	order	-33.76109009	151.1284329
	Former Council Works Depot (Fig			Regulation under CLM Act not		
PYRMONT	and Wattle Depot)	14-26 Wattle STREET	Other Industry	required	-33.8752655	151.1942645
	7-Eleven (former Mobil) Service			Regulation under CLM Act not		
QUAKERS HILL	Station	83 Lalor ROAD	Service Station	required	-33.72759077	150.8966764
	Caltex) Service Station Quakers			Regulation under CLM Act not		
QUAKERS HILL	Hill	450 Quakers Hill PARKWAY	Service Station	required	-33.72998613	150.9023617
				Regulation under CLM Act not		
QUEANBEYAN	Former Mobil Service Station	153 Uriarra ROAD	Service Station	required	-35.34425514	149.2148687
				Regulation under CLM Act not		
QUEANBEYAN	Bill Lilley Automotive	169 Crawford STREET	Service Station	required	-35.35138121	149.232486
0.15441057444	Woolworths Queanbeyan Service	1		Regulation under CLM Act not	05.054.0005	
QUEANBEYAN	Station	STREET	Service Station	required	-35.35163055	149.2335759
QUEANBEYAN	Caltex Queanbeyan Service Station	88 Macquoid (also known as Bungendore Rd) STREET	Service Station	Regulation under CLM Act not required	-35.34930535	149.2438607
QUEAINBETAIN	Station	Builgeridore Rd/ STREET	Service Station	Regulation under CLM Act not	-53.54530353	143.2438007
QUEANBEYAN	Former Mobil Emoleum Depot	109-111 High STREET	Other Petroleum	required	-35.3396115	149.237556
30271110217111	remen mesh smereum seper	103 111	other retroicum	Regulation under CLM Act not	35.5530115	1:3:257333
QUEANBEYAN	Former Caltex Depot	20-30 Railway STREET	Other Petroleum	required	-35.34523	149.22333
	BP-Branded Service Station			Regulation under CLM Act not		
QUEANBEYAN EAST	Queanbeyan	50 Yass ROAD	Service Station	required	-35.34126641	149.2445103
		Lanyon Dr Cnr Mccrae St (1 Suraci		Regulation under CLM Act not		
QUEANBEYAN WEST	Caltex Service Station	Place) STREET	Service Station	required	-35.36372923	149.2067531
				Regulation under CLM Act not		
QUIRINDI	Former Mobil Depot Quirindi	4-6 Cross STREET	Other Petroleum	required	-31.49903355	150.681972
OLUBINIDI.	T	113-117 Station (also known as	Complete Chattle or	Us day seems to	24 524-222	450.004
QUIRINDI	Tamarang ServiCentre Quirindi	119-121 Nowland) STREET	Service Station	Under assessment	-31.50179204	150.6814611

List current as of 4 June 2019 58 of 80

Suburb	SiteName	Address	Contamination Activity Type	ManagementClass	Latitude	Longitude
				Regulation under CLM Act not		
QUIRINDI	Caltex Service Station, Quirindi	199-201 George STREET	Service Station	required	-31.50654793	150.6803589
RAMSGATE	Shell Coles Express Service Station	Grand Parade cnr Ramsgate ROAD	Coming Station	Regulation under CLM Act not required	-33.98537988	151.1471234
KAIVISGATE	Station	KUAD	Service Station	Contamination currently	-33.98537988	151.14/1234
RANDWICK	7-Eleven Service Station	126-130 Barker STREET	Service Station	regulated under CLM Act	-33.92096152	151.2355927
TO WEEK	/ Eleven service station	120 130 BUINCI STREET	Service Station	Regulation under CLM Act not	33.32030132	131.233327
RANDWICK	Caltex Service Station	2 Alison ROAD	Service Station	required	-33.9065752	151.2320697
				Regulation under CLM Act not		
RANDWICK	Metro Petroleum	345 Avoca STREET	Service Station	required	-33.92544832	151.2396799
				Contamination currently		
RANDWICK	Service Station, Randwick	33-37 Carrington ROAD	Service Station	regulated under CLM Act	-33.90655015	151.2525065
	Ravensworth Operations Narama			Regulation under CLM Act not		
RAVENSWORTH	Mine	Lemington ROAD	Other Industry	required	-32.47115903	151.0359579
				Regulation under CLM Act not		
RAVENSWORTH	Cumnock Colliery	Pikes Gully ROAD	Other Industry	required	-32.40218281	150.9960082
DAVAGND TERRACE	Shell Coles Express Raymond	107 Adelaide (formerly Pacific	Coming Station	Regulation under CLM Act not	22.7611002	151 7402047
RAYMOND TERRACE	Terrace	Highway) STREET	Service Station	required	-32.76110922	151.7492847
RAYMOND TERRACE	Caltex Service Station Raymond Terrace	136 Adelaide Street, corner Glenelg STREET	Service Station	Regulation under CLM Act not required	-32.76503842	151.7425264
NATIVIOND TERRACE	Terrace	Glerieig STREET	Service Station	Regulation under CLM Act not	-32.70303642	. 131.7423204
RAYMOND TERRACE	Former Motor Registry	53 William STREET	Other Petroleum	required	-32.76286473	151.7445839
	Raymond Terrace Wastewater			Regulation under CLM Act not		
RAYMOND TERRACE	Treatment Works	22 Elizabeth AVENUE	Other Industry	required	-32.774658	151.749978
			·	Regulation under CLM Act not		
REDFERN	BP Service Station	116 Regent STREET	Service Station	required	-33.89367876	151.1995256
				Regulation under CLM Act not		
REDFERN	Former Printing Works	101a Marriott STREET	Other Industry	required	-33.89512556	151.2113422
				Regulation under CLM Act not		
REDFERN	BP-branded Jasbe Surry Hills	411 Cleveland STREET	Service Station	required	-33.89183974	151.2132466
D.E. (50D) (	5 (5) 1 ( ) (	104 404 41		Regulation under CLM Act not	22 2222744	454 000550
REVESBY	Dorf Clark Industries	184-194 Milperra ROAD	Metal Industry	required	-33.93387149	151.000553
REVESBY	Bituminous Products	33-35 Violet STREET	Chemical Industry	Contamination currently regulated under CLM Act	-33.93702092	151.0067896
IKEVESBT	Bituininous Froducts	33-33 VIOLET STILLET	Chemical moustry	Contamination currently	-53.93702092	131.0007890
REVESBY	Mirotone Pty Ltd	21 Marigold STREET	Chemical Industry	regulated under POEO Act	-33.93559608	151.0002207
NEVESS!	ivinotone i ty zea	ZI Wangola STREET	chemical madsity	Regulation under CLM Act not	33.33333000	131.0002207
REVESBY	Caltex Service Station Revesby	181 The River ROAD	Service Station	required	-33.95573605	151.0171779
	adjoining the former UCAL and			manage residual contamination		
RHODES	Allied Feeds sites	Homebush BAY	Chemical Industry	(CLM Act)	-33.8263749	151.0839216
				Regulation under CLM Act not		
RHODES	Former Glad factory site	10-16 Marquet STREET	Chemical Industry	required	-33.82884048	151.0848716
				Contamination was addressed via		
RHODES	Former Allied Feeds site	Walker STREET	Other Industry	the planning process (EP&A Act)	-33.82465376	151.0870401

List current as of 4 June 2019 59 of 80

Suburb	SiteName	Address	Contamination Activity Type	ManagementClass	Latitude	Longitude
				manage residual contamination		
RHODES	Former UCAL site	Walker STREET	Chemical Industry	(CLM Act)	-33.82727505	151.0853195
RHODES	adjoining former Berger Paint	Oulton AVENUE	Chemical Industry	manage residual contamination (CLM Act)	-33.83535308	151.083238
KHODES	factory	98 March (Cnr East Market St)	Chemical industry	,	-33.83535308	151.083238
RICHMOND	Caltex Richmond Service Station	STREET	Service Station	Regulation under CLM Act not required	-33.59937996	150.7514483
MCHWOND	Cartex Meliniona Service Station	STREET	Service Station	Regulation under CLM Act not	33.33337330	130.7314403
RIVERSTONE	Axalta Coating Systems	15-23 Melbourne ROAD	Other Industry	required	-33.6636649	150.8557519
	0.7			Regulation under CLM Act not		
RIVERSTONE	7-Eleven Riverstone	55 Garfield ROAD	Service Station	required	-33.67802232	150.8635246
	Woolworths Vineyard Service	1 Woodland Street, corner of		Regulation under CLM Act not		
RIVERSTONE	Station, Riverstone	Windsor ROAD	Service Station	required	-33.65607641	150.8724067
				Regulation under CLM Act not		
RIVERSTONE	Vacant Commercial Land	88-94 Junction ROAD	Unclassified	required	-33.66226398	150.8789967
				Regulation under CLM Act not		
RIVERWOOD	7-Eleven Riverwood	30 Bonds ROAD	Service Station	required	-33.9523701	151.0583887
	7-Eleven (former Mobil) Service			Regulation under CLM Act not		
ROCKDALE	Station	293 West Botany STREET	Service Station	required	-33.94995672	151.1484667
				Regulation under CLM Act not		
ROCKDALE	7-Eleven Service Station	99 Railway STREET	Service Station	required	-33.95247322	151.1356785
	7-Eleven (former Mobil) Service			Regulation under CLM Act not		
ROOTY HILL	Station	106 Rooty Hill Road South ROAD	Service Station	required	-33.78036181	150.8501998
DOOTY LILL	7-Eleven (former Mobil) Service	1042 Const Western HIGHWAY	Caradaa Chattara	Regulation under CLM Act not	22 7024 4055	450 0207656
ROOTY HILL	Station	1042 Great Western HIGHWAY	Service Station	required	-33.78214955	150.8287656
ROSE BAY	Caltex Rose Bay Service Station	488 Old South Head ROAD	Service Station	Regulation under CLM Act not required	-33.87475145	151.2723847
NO3E BAT	Cartex Rose Bay Service Station	488 Old South Head ROAD	Service Station	Contamination currently	-33.67473143	131.2723847
ROSE BAY	Rose Bay Budget Service station	638 -646 New South Head ROAD	Service Station	regulated under CLM Act	-33.87062149	151.2677617
NOSE BY	nose bay bauget service station	OSO OF NEW SOUTH FLEUR NOVE	Service Station	Regulation under CLM Act not	33.07002143	131.2077017
ROSEBERY	Autofoil P/L	2 Mentmore AVENUE	Other Industry	required	-33.91121318	151.2054882
		321 Gardeners (Cnr Macquarie St)	, , , , , , , , , , , , , , , , , , , ,	Contamination currently		
ROSEBERY	Caltex Rosebery Service Station	ROAD	Service Station	regulated under CLM Act	-33.92302898	151.2059541
	Former Industrial Site (Former			Regulation under CLM Act not		
ROSEBERY	Electroplating Facility)	108 Dunning AVENUE	Other Industry	required	-33.91630811	151.201557
				Contamination formerly		
ROSEBERY	Rosebery Service Station	395 Gardeners ROAD	Service Station	regulated under the CLM Act	-33.92246784	151.2024589
	James Hardie Australia and			manage residual contamination		
ROSEHILL	former James Hardie lands	Devon STREET	Landfill	(CLM Act)	-33.82539019	151.0339466
				Contamination formerly		
ROSEHILL	2 Ritchie Street, Rosehill	2 Ritchie STREET	Unclassified	regulated under the CLM Act	-33.82691192	151.0154948
	James Hardie Factory (former,			manage residual contamination		
ROSEHILL	western portion)	181 James Ruse DRIVE	Other Industry	(CLM Act)	-33.81605834	151.0238145
				Regulation under CLM Act not		
ROSELANDS	Roselands Shopping Centre	24 Roseland AVENUE	Service Station	required	-33.93499281	151.0691284

List current as of 4 June 2019 60 of 80

Suburb	SiteName	Address	Contamination Activity Type	ManagementClass	Latitude	Longitude
	Woolworths Caltex Petrol Service			Regulation under CLM Act not		
ROSELANDS	Station Roselands	218 King Georges ROAD	Service Station	required	-33.933243	151.073586
DOCEL AND C	7-Eleven (former Mobil) Service			Regulation under CLM Act not	22 2225 5275	454 070074
ROSELANDS	Station	91 Canary's ROAD	Service Station	required	-33.93356078	151.0736274
ROSEVILLE	Mobil Service Station	2 Boundary STREET	Service Station	Regulation under CLM Act not required	-33.78769177	151.1796011
NOSEVILLE	WODII Sei VICE Station	2 Boundary STREET	Service Station	Regulation under CLM Act not	-33.78709177	131.1790011
ROSEVILLE CHASE	Coles Express Roseville Chase	388 Eastern Valley WAY	Service Station	required	-33.78337722	151.1973901
NOSEVILLE CITISE	coles Express Nosevine enase	Soo Eastern Valley VVVI	Service Station	Regulation under CLM Act not	33.76337722	151.1375501
ROZELLE	Caltex Service Station	121 Victoria ROAD	Service Station	required	-33.86252996	151.168497
-	7-Eleven (former Mobil) Service			Regulation under CLM Act not		
ROZELLE	Station	178-180 (176-184) Victoria ROAD	Service Station	required	-33.8630268	151.1680857
				Regulation under CLM Act not		
ROZELLE	Kennards Rozelle	15-39 Wellington STREET	Other Petroleum	required	-33.86176757	151.1686519
				Regulation under CLM Act not		
ROZELLE	White Bay Power Station	Robert STREET	Other Industry	required	-33.86674636	151.1772204
		Corner Darling Street and		Regulation under CLM Act not		
ROZELLE	BP Service Station	Thornton STREET	Service Station	required	-33.8591647	151.1716591
				Regulation under CLM Act not		
RUFUS RIVER	SA Water Depot - Rufus River	Old Wentworth STREET	Other Petroleum	required	-34.04191512	141.2679475
DUGUELETEDS DAY	Hall and			Contamination currently	22.0725420	
RUSHCUTTERS BAY	d'Albora Marinas	1b New Beach ROAD	Other Industry	regulated under POEO Act	-33.87351297	151.2345082
RUTHERFORD	Rutherford Transpacific	11 Kyle STREET	Other Industry	Regulation under CLM Act not required	-32.71105203	151.500311
KUTHEKFUKU	· ·	II Kyle STREET	Other Industry	Regulation under CLM Act not	-32.71105203	151.500311
RUTHERFORD	Shell Coles Express Service Station Rutherford	118 New England HIGHWAY	Service Station	required	-32.7208703	151.5394595
NOTHER ORD	Station numeriora	TIO NEW ENGIGING THOMAS	Service Station	Regulation under CLM Act not	32.7200703	131.3334333
RUTHERFORD	Caltex Service Station	134-138 New England HIGHWAY	Service Station	required	-32.7202589	151.5381526
	Transpacific Industrial			Regulation under CLM Act not		
RUTHERFORD	Services/Nationwide Oil Pty Ltd	99 Kyle STREET	Chemical Industry	required	-32.71262159	151.5013865
				Regulation under CLM Act not		
RYDALMERE	Caltex Service Station	309 Victoria ROAD	Service Station	required	-33.81196193	151.0371185
				Contamination currently		
RYDALMERE	Mitsubishi Electric	348 Victoria ROAD	Other Industry	regulated under CLM Act	-33.81040138	151.0392812
				Contamination formerly		
RYDALMERE	Rheem Australia	1 Alan STREET	Other Industry	regulated under the CLM Act	-33.81545013	151.0295476
				Regulation under CLM Act not		
RYDALMERE	BP Service Station	265 Victoria ROAD	Service Station	required	-33.8109483	151.0328101
DVDALMEDE	Hunter Dougles	Victoria BOAD	Chamical Industry	Regulation under CLM Act not	22.04000442	151 0204722
RYDALMERE	Hunter Douglas	Victoria ROAD	Chemical Industry	required	-33.81009112	151.0384732
RYDALMERE	United Petroleum (former 7- Eleven) Service Station Rydalmere	262-272 Victoria ROAD	Service Station	Regulation under CLM Act not required	-33.81006724	151.032377
KIDALIVILIK	Eleveni Service Station Ryudiffiere	202 272 VICIONA NOAD	Jei vice Jialion	Regulation under CLM Act not	-55.61000724	131.0323//
RYDE	Shell Coles Express Ryde	45 Lane Cove ROAD	Service Station	required	-33.80726028	151.109981

List current as of 4 June 2019 61 of 80

Suburb	SiteName	Address	Contamination Activity Type	ManagementClass	Latitude	Longitude
				Regulation under CLM Act not		
RYDE	Caltex Service Station	110 Lane Cove ROAD	Service Station	required	-33.80142973	151.1137925
	7-Eleven (former Mobil) Service			Regulation under CLM Act not		
RYDE	Station	326-328 Blaxland ROAD	Service Station	required	-33.80242183	151.1004278
2725		54		Regulation under CLM Act not	22.04.570774	454 4005055
RYDE	Ryde Bus Depot	51 - 75 Buffalo ROAD	Other Petroleum	required	-33.81679771	151.1225255
CANCTI IA DV DOINT	United Service Station, Sanctuary	447 Lawren AVENUE	Complete Station	Regulation under CLM Act not	35,0004,0004	450 5220527
SANCTUARY POINT	Point	147 Larmer AVENUE	Service Station	required	-35.09918861	150.6329537
SANDGATE	Caltex Service Station Sandgate	162 Maitland ROAD	Service Station	Regulation under CLM Act not required	-32.86501596	151.706161
SANDGATE	·	162 Maitianu KOAD	Service Station	Contamination formerly	-32.86501396	151.706161
SANDGATE	North Limited Storage Handling facility	Maitland ROAD	Other Industry	regulated under the CLM Act	-32.86598453	151.7012866
JANDOATE	7-Eleven (Former Mobil) Service	Waltiana NOAD	Other madstry	Regulation under CLM Act not	32.00330433	131.7012000
SANS SOUCI	Station	474 Rocky Point ROAD	Service Station	required	-33.99088939	151.1333779
37 1113 300 01	Station	Lawson Street and Kendall	Service Station	Under preliminary investigation	33.33000333	131.1333773
SANS SOUCI	Kendall Street Reserve	STREET	Landfill	order	-33.99966431	151.13005
				Contamination was addressed via		
SANS SOUCI	Former Service Station	542-544 Rocky Point ROAD	Service Station	the planning process (EP&A Act)	-33.99376148	151.1316131
		,		Contamination currently		
SANS SOUCI	Former 7-Eleven Ramsgate	368 Rocky Point ROAD	Service Station	regulated under CLM Act	-33.98631668	151.135849
	Shell Coles Express Service			Contamination currently		
SCONE	Station	91-93 Kelly STREET	Service Station	regulated under CLM Act	-32.04715941	150.8676346
				Regulation under CLM Act not		
SCONE	Scone Works Depot	220 Susan STREET	Other Petroleum	required	-32.04444892	150.879152
				Regulation under CLM Act not		
SCONE	Mobil Scone Airport Elt	8 Walter Pye AVENUE	Other Petroleum	required	-32.03596733	150.8323698
		Scone St, Guernsey St & Susan		Contamination formerly		
SCONE	BP - Former Depot	STREET	Service Station	regulated under the CLM Act	-32.04599284	150.8662046
	7-Eleven (Former Mobil) Service			Regulation under CLM Act not		
SEVEN HILLS	Station Seven Hills	151 Prospect HIGHWAY	Service Station	required	-33.76894646	150.9427004
				Regulation under CLM Act not		
SEVEN HILLS	Australia Post	3 Powers ROAD	Unclassified	required	-33.77434009	150.9395495
CENTEN LINES	Car Park (Former Brickworks /	1 0 0 0 0 0	Other design	Regulation under CLM Act not	22 77207442	450 0270707
SEVEN HILLS	Warehouse)	1 Powers ROAD	Other Industry	required	-33.77387442	150.9379787
CEVEN HILLC	BP-branded Jasbe Petroleum	15C December 111CHNAV	Comice Station	Regulation under CLM Act not	22.7000502	150 041 4021
SEVEN HILLS	Service Station	156 Prospect HIGHWAY	Service Station	required	-33.76906502	150.9414821
SEVEN HILLS	Caltex Service Station	38 Abbott ROAD	Service Station	Regulation under CLM Act not required	-33.76692649	150.9548271
SEVEN HILLS	Cartex Service Station	38 ADDULL ROAD	Service Station	Regulation under CLM Act not	-33.70092043	130.9348271
SEVEN HILLS	Caltex Service Station Seven Hills	105 Station ROAD	Service Station	required	-33.77435881	150.9448733
JE V LIN THELD	Cutter Service Station Seven fills	100 Station NOAD	Service Station	Contamination currently	-33.77433001	150.5446/55
SEVEN HILLS	Australian Waste Oil Refineries	27 Powers ROAD	Other Industry	regulated under CLM Act	-33.77536127	150.9511122
: 220	riasti and riaste on nemicites		2	Regulation under CLM Act not	33.77330127	150.5511122
SHELLY BEACH	Former Shelly Beach Landfill	Oaks AVENUE	Landfill	required	-33.36700551	151.4913631

List current as of 4 June 2019 62 of 80

Suburb	SiteName	Address	Contamination Activity Type	ManagementClass	Latitude	Longitude
				Contamination currently		
SHORTLAND	Former Astra St landfill	1, 2 & 28 Astra STREET	Landfill	regulated under CLM Act	-32.86716222	151.6966948
CHORTIAND	To food Dook loadfill	40 King CTREET	Landell	Regulation under CLM Act not	22.07724420	454 6026027
SHORTLAND	Tuxford Park landfill	10 King STREET	Landfill	required	-32.87721139	151.6936837
SHORTLAND	Former Lorna St landfill	8/475 Sandgate ROAD	Landfill	Regulation under CLM Act not required	-32.87888726	151.7023245
SHORTLAND	7-Eleven (Former BP) Service	0/4/3 Saliugate NOAD	Lanum	Regulation under CLM Act not	-32.07000720	131.7023243
SHORTLAND	Station	298-302 Sandgate ROAD	Service Station	required	-32.8861645	151.6953912
SHOKIBAND	Station	250 302 Sunugute NoviD	Service Station	Regulation under CLM Act not	32.0001043	131.0333312
SILVERWATER	Former Silverwater Landfill	Carnarvon ROAD	Landfill	required	-33.83506394	151.033214
				Regulation under CLM Act not		
SILVERWATER	Vacant property	103-105 Silverwater ROAD	Other Industry	required	-33.83831374	151.0472576
SILVERWATER	Storage Facility	54-58 Derby STREET	Unclassified	Under assessment	-33.83855869	151.0478649
SILVERWATER	Former Printing Facility	46-58 Derby STREET	Unclassified	Under assessment	-33.83855869	151.0478649
SILVERWATER	Silverwater Correctional Complex	Holker STREET	Landfill	Under assessment	-33.82944797	151.0567486
		53 George (Cnr Macquarie St)		Regulation under CLM Act not		
SINGLETON	BP Service Station Singleton	STREET	Other Petroleum	required	-32.56182325	151.1748054
CINCLETON	Singleton Convento	FF F7 John CTDFFT	Canada	Contamination currently	22 56774745	151 1650100
SINGLETON	Singleton Gasworks	55-57 John STREET	Gasworks	regulated under CLM Act	-32.56774715	151.1658188
SINGLETON	Shell Coles Express Service Station	69-73 George STREET	Service Station	Regulation under CLM Act not required	-32.56297156	151.1755215
SINGLETON	Station	03-73 George STREET	Service Station	Regulation under CLM Act not	-32.30297130	151.1755215
SINGLETON	Mobil Singleton Airport Elt	74B Range ROAD	Other Petroleum	required	-32.60270846	151.1944828
5.11022.1011	mosii singieten / in port zit	7 15 Heilige Herle	other recordant	Contamination currently	32,002,001	191113 1 1626
SINGLETON	Putty Saw Mill	(via Singleton) Putty ROAD	Unclassified	regulated under CLM Act	-32.99958725	150.7111684
	NSW Mines Rescue Services -			Regulation under CLM Act not		
SINGLETON	Singleton	6 Lachlan AVENUE	Other Industry	required	-32.54537821	151.156584
				Regulation under CLM Act not		
SMITHFIELD	Caltex Smithfield	16-18 Tait STREET	Service Station	required	-33.84596441	150.9435497
				Regulation under CLM Act not		
SMITHFIELD	Freestones	1 Hume ROAD	Other Petroleum	required	-33.83577694	150.9310112
				Regulation under CLM Act not		
SMITHFIELD	Liquip International	13 Hume ROAD	Other Industry	required	-33.83802635	150.9319034
CA 4171 15151 D	Coles Express (former Mobil)	678 The Horsley Drive, corner		Regulation under CLM Act not	00.0507645	45004044
SMITHFIELD	Service Station	Smithfield ROAD	Service Station	required (FRCA	-33.85376154	150.9400104
SMITHFIELD	Former Landfill	Little STREET	Landfill	via the planning process (EP&A Act)	-33.85025253	150.9411561
SIVII I II FIELD	FOITHER LANGIN	Corner Ebden Street and	Lanulli		-55.65025253	130.9411501
SOUTH ALBURY	BP Border Service Station	Wodonga PLACE	Service Station	Contamination currently regulated under CLM Act	-36.08875942	146.9093882
300 III ALDONI	Shell Coles Express Service	Wodonga i Lnot	Service Station	Regulation under CLM Act not	30.08873342	140.9093882
SOUTH BOWENFELS	Station Station	Lot 1 Great Western HIGHWAY	Service Station	required	-33.50589001	150.1238487

List current as of 4 June 2019 63 of 80

Suburb	SiteName	Address	Contamination Activity Type	ManagementClass	Latitude	Longitude
	Caltex South Coogee Service			Regulation under CLM Act not		
SOUTH COOGEE	Station	169-173 Malabar ROAD	Service Station	required	-33.93233184	151.2574377
	Shell Coles Express Service			Regulation under CLM Act not		
SOUTH GRAFTON	Station	91 Bent STREET	Service Station	required	-29.70605829	152.9400329
COLUTILI CRAFTON	Former United (former Mobil)	Corner Pacific Highway and	Coming Station	Regulation under CLM Act not	20 7004 4026	452.0442020
SOUTH GRAFTON	Service Station	Charles STREET	Service Station	required	-29.70814828	152.9412928
SOUTH GRAFTON	Former Caltex Service Station	46-58 Schwinghammer STREET	Service Station	Regulation under CLM Act not required	-29.71128273	152.9458313
SOUTH GRAFION		40-58 SCHWINGHAITIHEE STREET	Service Station	<u>'</u>	-29.71128273	152.9458313
SOUTH GRAFTON	Former Caltex Depot South Grafton	72-82 Swallow ROAD	Other Petroleum	Regulation under CLM Act not required	-29.73168549	152.944024
300111 GRALTON	Gratton	Pacific Hwy Cnr Gwyder	Other retroleum	Regulation under CLM Act not	-29.73108343	132.344024
SOUTH GRAFTON	Caltex Service Station	HIGHWAY	Service Station	required	-29.70739015	152.9425508
	Enhance Service Station south		Jet vice station	Regulation under CLM Act not	25.7.0755015	19213 123900
SOUTH GRANVILLE	Granville	2 Rawson ROAD	Service Station	required	-33.86366193	151.0088768
				Regulation under CLM Act not		
SOUTH KEMPSEY	Caltex Service Station	52 Lachlan STREET	Service Station	required	-31.09361084	152.8370796
	North Coast Petroleum (Former			Regulation under CLM Act not		
SOUTH LISMORE	Mobil) Depot Lismore	19-21 Elliot ROAD	Other Petroleum	required	-28.81212046	153.2661935
				Regulation under CLM Act not		
SOUTH LISMORE	Former Mobil Service Station	126 - 128 Union STREET	Service Station	required	-28.81242175	153.267541
				Regulation under CLM Act not		
SOUTH LISMORE	Caltex Service Station	237 Union STREET	Service Station	required	-28.82052708	153.2648111
				Regulation under CLM Act not		
SOUTH LISMORE	Former Mobil Depot	26-32 Phyllis STREET	Other Petroleum	required	-28.81005206	153.2660073
				Regulation under CLM Act not		
SOUTH MURWILLUMBAH	Former Caltex Depot	39 Lundberg DRIVE	Service Station	required	-28.332622	153.4212884
		1-7 Buchanan (Cnr Tweed Valley		Regulation under CLM Act not		
SOUTH MURWILLUMBAH	Caltex Service Station	Way) STREET	Service Station	required	-28.32687988	153.4093274
				Regulation under CLM Act not		
SOUTH MURWILLUMBAH	Former Mobil Depot	45 Wardrop STREET	Other Petroleum	required	-28.33421395	153.3993772
COLUTI LA NOVA (DA	Caltan Cantle Name	100 Dain and HIGHWAY	Coming Station	Regulation under CLM Act not	24.0054.0004	450 5020524
SOUTH NOWRA	Caltex South Nowra	100 Princes HIGHWAY	Service Station	required	-34.90516081	150.6029621
SOUTH PENRITH	7-Eleven Service Station	4F Asnon STREET	Service Station	Regulation under CLM Act not required	-33.77727694	150.7107228
300TH PENKITH	7-Eleven Service Station	45 Aspen STREET	Service Station	·	-33.77727694	130.7107228
SOUTH TAMWORTH	Coles Express Tamworth	251 - 253 Goonoo Goonoo ROAD	Sarvice Station	Contamination currently regulated under CLM Act	-31.11058167	150.9236721
300111 TAWWORTH	Coles Express Talliworth	2 Kathleen Street, corner Kent	Service Station	Regulation under CLM Act not	-51.11038107	130.3230721
SOUTH TAMWORTH	Caltex Service Station	STREET	Service Station	required	-31.10361712	150.9186343
	3,			Regulation under CLM Act not	51.10501712	130.3100343
SOUTH WENTWORTHVILLE	Aldi Stores Development	331-339 Great Western HIGHWAY	Metal Industry	required	-33.81605854	150.9697429
			,	Regulation under CLM Act not		
SOUTH WENTWORTHVILLE	Caltex Service Station	313 Great Western HIGHWAY	Service Station	required	-33.81643692	150.9718802
				Regulation under CLM Act not		
SOUTH WEST ROCKS	Former Trial Bay Caltex Depot	Phillip DRIVE	Other Petroleum	required	-30.89190078	153.0573056

List current as of 4 June 2019 64 of 80

Suburb	SiteName	Address	Contamination Activity Type	ManagementClass	Latitude	Longitude
SOUTH WEST ROCKS	Former Shell Trial Bay Depot	Phillip DRIVE	Other Petroleum	Regulation under CLM Act not required	-30.89273836	153.0612772
	Residential area and Reserve			Regulation under CLM Act not		
SOUTH WEST ROCKS	opposite Former Caltex terminal	Phillip DRIVE	Other Petroleum	required	-30.89172594	153.0573164
				Regulation under CLM Act not		
SPRINGVALE	Springvale Colliery	Castlereagh HIGHWAY	Other Industry	required	-33.40334736	150.1070462
	7-Eleven (former Mobil) Service			Regulation under CLM Act not		
ST CLAIR	Station	4 Endeavour AVENUE	Service Station	required	-33.79430926	150.7885793
	7-Eleven (former Mobil) St Ives	157-159 Mona Vale Road, corner		Regulation under CLM Act not		
ST IVES	Service Station	Putarri AVENUE	Service Station	required	-33.73265301	151.1563899
				Regulation under CLM Act not		
ST IVES	Caltex Service Station	452 Mona Vale ROAD	Service Station	required	-33.70752272	151.187545
				Regulation under CLM Act not		
ST IVES	Caltex Service Station	164 Mona Vale ROAD	Service Station	required	-33.7307595	151.1570462
CT 11 / FC				Regulation under CLM Act not	22 7450074	454 4505050
ST IVES	Caltex Service Station St Ives	363 Mona Vale ROAD	Service Station	required	-33.7168971	151.1735263
CT IVEC	Chall Carrian Chabian	170 101 Mana Vala DOAD	Comice Station	Contamination currently	22 72424050	151 1575027
ST IVES	Shell Service Station	179-181 Mona Vale ROAD	Service Station	regulated under CLM Act	-33.73124859	151.1575827
CTIFONADDC	Talatua Data Cautua	44 Harbart CTREET	Oth or Botrolous	Regulation under CLM Act not	22.04072744	151 101 1222
ST LEONARDS	Telstra Data Centre	4A Herbert STREET	Other Petroleum	required	-33.81873741	151.1914222
ST MARYS	Former Woolworths Service	120-128 Forrester ROAD	Service Station	Regulation under CLM Act not required	-33.75525115	150.7752897
31 IVIANTS	Station	120-128 Forrester ROAD	Service Station	· ·	-33./3325113	130.7732897
CT MADVC	7-Eleven (former Mobil) Service	2 Christia STREET	Service Station	Regulation under CLM Act not	-33.74790843	150 7767667
ST MARYS	Station 7. Flavor (favor an Markil) Consider	2 Christie STREET	Service Station	required	-33.74790843	150.7767667
ST MARYS	7-Eleven (former Mobil) Service Station	2 Wilson STREET	Service Station	Regulation under CLM Act not required	-33.77790415	150.771689
31 MAKIS	Station	2 WIISON STILL	Service Station	- 1	-33.77790413	130.771089
ST MARYS	Solveco	38 LINKS ROAD	Other Industry	Contamination currently regulated under CLM Act	-33.738673	150.771554
31 WARTS	Integral Energy Mt Druitt	30 EINKS NOAD	Other madstry	Regulation under CLM Act not	33.736073	130.771334
ST MARYS	Transmission Substation	69 Kurrajong North ROAD	Other Industry	required	-33.76376093	150.7921691
51 141/11(15	Transmission substation	es karrajong North No.	other madstry	Regulation under CLM Act not	33.76376633	130.7321031
ST MARYS	Caltex St Marys Service Station	Wordoo St Cnr Forrester ROAD	Service Station	required	-33.75334263	150.7755489
-	,					
ST MARYS	Chemcolour Industries Ltd	19-25 Anne STREET	Chemical Industry	Under assessment	-33.75027071	150.7725397
			·			
ST MARYS	Old Drycleaning location	1-7 Queen STREET	Other Industry	Under assessment	-33.73873	150.771747
	, ,		,	Regulation under CLM Act not		
ST PETERS	Cooks River Rail Terminal	20 Canal ROAD	Unclassified	required	-33.91943986	151.1726689
				Regulation under CLM Act not		
ST PETERS	Camdenville Park	May STREET	Other Industry	required	-33.90911815	151.176951
			·	Contamination formerly		
ST PETERS	Former Tidyburn Facility	53 Barwon Park ROAD	Chemical Industry	regulated under the CLM Act	-33.9130091	151.1809912
	·			Regulation under CLM Act not		
ST PETERS	BP Express Service Station	2 Princes HIGHWAY	Service Station	required	-33.90982281	151.1809936

List current as of 4 June 2019 65 of 80

Suburb	SiteName	Address	Contamination Activity Type	ManagementClass	Latitude	Longitude
	Former Industrial Manufacturing			Regulation under CLM Act not		
ST PETERS	Facility (Taubman's Paints)	75 Mary STREET	Other Industry	required	-33.91307297	151.1731383
				Regulation under CLM Act not		
STANMORE	125 Corunna Road	125 Corunna ROAD	Unclassified	required	-33.88937382	151.1644589
STOCKTON	Former Stockton Landfill	310 Fullerton STREET	Landfill	Under assessment	-32.894005	151.791121
	7-Eleven (former Mobil) Service			Regulation under CLM Act not		
STRATHFIELD	Station	577 Liverpool ROAD	Service Station	required	-33.88736091	151.0743474
				Regulation under CLM Act not		
STRATHFIELD SOUTH	Former Landfill Site	7-9 Dunlop STREET	Landfill	required	-33.89509698	151.0796751
	Stroud Fuel Supplies (Former			Regulation under CLM Act not		
STROUD	Caltex) Service Station	1 Cowper STREET	Service Station	required	-32.39092749	151.9563089
				Regulation under CLM Act not		
SUFFOLK PARK	BP Service Station	207-209 Broken Head ROAD	Service Station	required	-28.68800088	153.6083821
SUFFOLK DADK	6 (6 11 5 1 11 11	Cnr Broken Head Road & Beech	0.11.01	Regulation under CLM Act not	20 507424	452 507000
SUFFOLK PARK	Suffolk Park dip site	DRIVE	Cattle Dip	required	-28.6874242	153.6072824
SURRY HILLS	Woolworths Petrol Surry Hills	475 Cleveland STREET	Service Station	Regulation under CLM Act not required	-33.89203644	151.216217
JORNT HILLS			Service Station		-53.69203044	131.210217
SURRY HILLS	Former Legion Cabs (Trading) Cooperative	81 & 81A (Formerly 69 - 81) Foveaux STREET	Service Station	Regulation under CLM Act not required	-33.88470082	151.2107944
JOHN THEES	Соорстанус	TOVERDA STREET	Jervice Station	Regulation under CLM Act not	33.00470002	131.2107544
SURRY HILLS	Ausgrid Road Reserve	Mary STREET	Other Industry	required	-33.88292195	151.2095176
	United Service Station and		,	Contamination currently		
SUTHERLAND	Sutherland Reservoir	1 to 3 Oxford STREET	Service Station	regulated under CLM Act	-34.029532	151.0579906
				Regulation under CLM Act not		
SUTHERLAND	7-Eleven Service Station	693 Old Princes HIGHWAY	Service Station	required	-34.02976735	151.0588789
				Regulation under CLM Act not		
SUTTON FOREST	Coles Express Sutton Forest West	Hume HIGHWAY	Service Station	required	-34.60808989	150.2250592
				Regulation under CLM Act not		
SWANSEA	Caltex Service Station	126 Pacific HIGHWAY	Service Station	required	-33.08811841	151.6381764
014/41/054	Swansea 1 - Wastewater Pumping				00.0074567	
SWANSEA	Station	137 and 137a Northcote AVENUE	Other Industry	Under assessment	-33.09745672	151.6473257
SYDENHAM	SRA Land	117 Pailway DAPADE	Other Industry	Regulation under CLM Act not required	-33.91560723	151.1656846
STUENNAIVI		117 Railway PARADE	Other maustry	· '	-55.91500/25	131.1030840
SYDENHAM	Sydenham XPT Maintenance Facility	Way STREET	Other Industry	Regulation under CLM Act not required	-33.91698468	151.1614089
JI DENI IAWI	racinty	Way STREET	Other maastry	Regulation under CLM Act not	33.31030400	131.1014003
SYDNEY	Interpro House (OSP 46581)	447 Kent STREET	Other Petroleum	required	-33.87225413	151.204761
	,			Regulation under CLM Act not		
SYDNEY OLYMPIC PARK	RMS Western Precinct	14A-14E and 16 Hill ROAD	Other Petroleum	required	-33.82239777	151.0758664
		At Kronos Hill, Kevin Coombes		Contamination formerly		
SYDNEY OLYMPIC PARK	Haslams Creek South Area 3	AVENUE	Landfill	regulated under the CLM Act	-33.84113059	151.0602966
				manage residual contamination		
SYDNEY OLYMPIC PARK	Bicentennial Park	Bicentennial DRIVE	Landfill	(CLM Act)	-33.84456248	151.0788116

List current as of 4 June 2019 66 of 80

Suburb	SiteName	Address	Contamination Activity Type	ManagementClass	Latitude	Longitude
	Former Golf Driving Range			manage residual contamination		
SYDNEY OLYMPIC PARK	Landfill	Sarah Durack AVENUE	Landfill	(CLM Act)	-33.85358517	151.0713987
CVDNIEV OLVANIO DA DI				manage residual contamination	22.242444	454.0540504
SYDNEY OLYMPIC PARK	Kronos Hill Landfill	Kevin Coombes AVENUE	Landfill	(CLM Act)	-33.84014442	151.0649521
SYDNEY OLYMPIC PARK	Wilson Park (Former oil gas plant site)	Newington ROAD	Gasworks	manage residual contamination (CLM Act)	-33.82633586	151.0534322
STUNET OF WIFTE FAIR	site)	Newington NOAD	dasworks	manage residual contamination	-33.82033380	131.0334322
SYDNEY OLYMPIC PARK	Woo-la-ra Landfill	Hill ROAD	Landfill	(CLM Act)	-33.82695807	151.07282
				manage residual contamination		
SYDNEY OLYMPIC PARK	Aquatic Centre Carpark Landfill	Shane Gould AVENUE	Landfill	(CLM Act)	-33.85093439	151.0656713
				manage residual contamination		
SYDNEY OLYMPIC PARK	Blaxland Common Landfill	Jamieson STREET	Landfill	(CLM Act)	-33.82638382	151.05972
	Caltex Service Station - Sylvania			Contamination currently		
SYLVANIA	Heights	414-416 Princes HIGHWAY	Service Station	regulated under CLM Act	-34.02361051	151.0895394
				Regulation under CLM Act not		
SYLVANIA	Caltex Service Station	61 Port Hacking ROAD	Service Station	required	-34.0140089	151.104212
				Regulation under CLM Act not		
TALBINGO	Old Town Landfill	Bridle STREET	Landfill	required	-35.59018237	148.3041771
T	T3 Spoil dump and adjoining river			Contamination formerly	25.647726	
TALBINGO	sediments	Off Snowy Mountains HIGHWAY	Landfill	regulated under the CLM Act	-35.6177268	148.2926158
TALBINGO	Former grit blasting site	Old Damsite ROAD	Other Industry	Regulation under CLM Act not required	-35.60894551	148.3030165
TALBINGO	Former grit biasting site	Old Dallisite ROAD	Other madstry	Regulation under CLM Act not	-33.00854331	148.3030103
TAMINDA	Mobil Depot	9 Hinkler ROAD	Other Petroleum	required	-31.09584286	150.9040493
TAMINUA	Woodii Bepot	5 THIRIET NOAD	Other retroleum	Regulation under CLM Act not	31.03364286	150.5040455
TAMWORTH	Caltex Tamworth Service Station	109 Gunnedah ROAD	Service Station	required	-31.09723226	150.8955299
				Regulation under CLM Act not		
TAMWORTH	Curlew Crescent	19-29 Curlew CRESCENT	Metal Industry	required	-31.06963607	150.9069306
	Former Service Station,			Regulation under CLM Act not		
TAMWORTH	Fitzpatrick Super Fund, Tamworth	210 Goonoo Goonoo ROAD	Service Station	required	-31.10613594	150.9234143
				Contamination formerly		
TAMWORTH	Gunnedah Road Site	49 GUNNEDAH ROAD	Other Industry	regulated under the CLM Act	-31.09574904	150.9021583
				Regulation under CLM Act not		
TAMWORTH	Elovera Former Sheep Dip	730 Ascot Calala ROAD	Cattle Dip	required	-31.1801846	150.962897
				Regulation under CLM Act not		
TAMWORTH	Housing NSW	29 -33 White STREET	Other Petroleum	required	-31.0915651	150.9357811
TAMWORTH	BP Tamworth Service Station and Depot	27-29 Gunnedah ROAD	Other Petroleum	Under assessment	-31.09642128	150.9058193
TAIVIVVORTH	Берот	27-29 Guilledall ROAD	Other Petroleum		-31.09642128	150.9058195
TAMWORTH	Former Mobil Service Station	373-375 Armidale ROAD	Service Station	Regulation under CLM Act not required	-31.10122679	150.9441341
17.11.11.11	Total Mobil Screec Station	373 373 ATTITIQUE NOAD	Service Station	Regulation under CLM Act not	51.10122073	150.9441541
TAMWORTH	Kensell's Mitsubishi	11-14 Kable AVENUE	Other Petroleum	required	-31.08921565	150.9273063
				Regulation under CLM Act not	31.03321303	155.52,5005
TAMWORTH	Caltex Star Tamworth	21 White STREET	Service Station	required	-31.09255137	150.9341709

List current as of 4 June 2019 67 of 80

Suburb	SiteName	Address	Contamination Activity Type	ManagementClass	Latitude	Longitude
TAMWORTH	Former Service Station Tamworth	(Cnr Scott Rd) 254-256 Goonoo Goonoo ROAD	Service Station	Regulation under CLM Act not required	-31.1118945	150.9228523
TAMWORTH	Cleanaway Operations Pty Ltd	31 Gunnedah ROAD	Other Industry	Under assessment	-31.09621029	150.9051567
TARCUTTA	Mobil Service Station	(Hume Highway) 32 Sydney STREET	Service Station	Contamination formerly regulated under the CLM Act	-35.2772942	147.73574
TAREE	Caltex Taree	12 Pitt STREET	Service Station	Regulation under CLM Act not required	-31.90551738	152.4783334
				Regulation under CLM Act not		
TAREE	Former Caltex Depot Former BP Service Station	44 Stevenson STREET	Other Petroleum	required  Regulation under CLM Act not	-31.90563595	152.4640848
TAREE	(Reliance Petroleum)	150 Manning River DRIVE	Service Station	required  Regulation under CLM Act not	-31.93842026	152.4682056
TAREE	Former Shell Depot	53-55 Stevenson STREET	Other Petroleum	required	-31.90514622	152.4649706
TAREE	United Service Station and Former Mobil Depot	85 Muldoon Street, corner Grey Gum ROAD	Service Station	Regulation under CLM Act not required	-31.89744109	152.4508569
TAREE	Caltex Service Station	104-106 Commerce STREET	Service Station	Regulation under CLM Act not required	-31.90720519	152.4500926
TAREE	Footpath in front of the former BP service station	53-55 Victoria STREET	Service Station	Regulation under CLM Act not required	-31.91015653	152.4659073
		Part 2R Alexander Avenue and		via the planning process (EP&A		
TAREN POINT	Former Oyster Farm	part 98 Woodlands ROAD	Other Industry	Act)  Regulation under CLM Act not	-34.01714802	151.1252694
TAREN POINT	Former Oyster Farmer	1A Atkinson ROAD	Other Industry	required  Regulation under CLM Act not	-34.02081803	151.1283282
TAREN POINT	Former manufacturing site	46-50 Bay ROAD	Other Industry	required	-34.0236184	151.1231649
TAREN POINT	Mangrove Lane Cycle pathway	Mangrove LANE	Unclassified	Regulation under CLM Act not required	-34.02404025	151.1324783
TAREN POINT	Caltex Service Station	114 Taren Point ROAD	Service Station	Regulation under CLM Act not required	-34.02065958	151.1218938
TAREN POINT	Shell Coles Express Service Station	99-103 Parraweena ROAD	Service Station	Regulation under CLM Act not required	-34.02630233	151.1200897
TAREN POINT	Redevelopment Site	25 Bay ROAD	Other Industry	Under assessment	-34.021451	151.12813
		,		Regulation under CLM Act not		
TELARAH	Former Ausgrid Depot	Green STREET	Other Industry	required  Regulation under CLM Act not	-32.7276446	151.5269745
TELARAH	ACIRL	5 Junction STREET Polaris Street (Corner Hoskins	Other Industry	required	-32.73457183	151.5400128
TEMORA	Woolworths Caltex Temora	Street) STREET	Service Station	Under assessment	-34.4429094	147.5320551
TEMPE	Tempe Depot	1a Gannon STREET	Other Petroleum	Regulation under CLM Act not required	-33.92408255	151.1596469
TEMPE	Caltex Service Station	775 Princes HIGHWAY	Service Station	Contamination currently regulated under CLM Act	-33.9253681	151.1596532

List current as of 4 June 2019 68 of 80

Suburb	SiteName	Address	Contamination Activity Type	ManagementClass	Latitude	Longitude
TEMPE	Former Tempe Tip	South STREET	Landfill	Contamination currently regulated under CLM Act	-33.9255792	151.1668117
				Regulation under CLM Act not		
TEMPE	Railcorp Site Renwick Street	Renwick STREET	Other Industry	required	-33.91997709	151.1576058
	Lake Macquarie Teralba Sanitary			Regulation under CLM Act not		
TERALBA	Depot	Griffen ROAD	Landfill	required	-32.9372059	151.6214528
				Contamination currently		
TERALBA	Lucky's Scrap Metal Yard	21 Racecourse ROAD	Metal Industry	regulated under CLM Act	-32.946805	151.61698
				Contamination formerly		
TERANIA CREEK	Former Izzards Cattle Tick Dip	Wallace ROAD	Cattle Dip	regulated under the CLM Act	-28.65425776	153.2767438
				Regulation under CLM Act not		
THIRLMERE	Thirlmere Rail Heritage Museum	10 Barbour ROAD	Other Industry	required	-34.20689245	150.5693902
		192-198 Pennant Hills (Cnr Duffy		Regulation under CLM Act not		
THORNLEIGH	Caltex Thornleigh Service Station	Ave) ROAD	Service Station	required	-33.72660793	151.08364
	Coles Express Service Station			Regulation under CLM Act not		
THORNLEIGH	Thornleigh	188 - 190 Pennant Hills ROAD	Service Station	required	-33.72502184	151.0850569
	Energy Australia Thornton Pole			Regulation under CLM Act not		
THORNTON	Yard	55 Weakleys DRIVE	Other Industry	required	-32.79973875	151.6374998
T.O. 150 1 111 1	Holcim Australia Cement Batching			Regulation under CLM Act not	22 22 22 24 2	454 5534055
TIGHES HILL	Plant	340 Industrial DRIVE	Other Industry	required	-32.90532418	151.7574857
TICHECHIL	CDA Laurel	72 Files hadde CTDFFT	Lincoln and Const	Regulation under CLM Act not	22.0070570	454 754624
TIGHES HILL	SRA Land	73 Elizabeth STREET	Unclassified	required	-32.90795794	151.754631
TIGHES HILL	Former Ampol Depot	94 Elizabeth STREET	Other Petroleum	Regulation being finalised	-32.90658137	151.757239
	·			Contamination formerly		
TIGHES HILL	Former Mobil Terminal	110 Elizabeth STREET	Other Petroleum	regulated under the CLM Act	-32.90600406	151.7586907
				Regulation under CLM Act not		
TOCUMWAL	Former Mobil Depot	250 Murray STREET	Other Petroleum	required	-35.79180653	145.5648214
				Regulation under CLM Act not		
TOCUMWAL	Former Mobil Depot	79-83 Deniliquin ROAD	Other Petroleum	required	-35.80914914	145.5585528
				Regulation under CLM Act not		
TOMAGO	Balcombe Sweat Furnace	26 Laverick AVENUE	Metal Industry	required	-32.82557395	151.7056416
TOMAGO	Former Hydromet Site	25 School DRIVE	Metal Industry	Under assessment	-32.8301553	151.7300603
TOMAGO	RZM Site - Tomago	1877 Pacific HIGHWAY	Other Industry	Under assessment	-32.81419433	151.6985159
	Log Cabin Service Station (United		,			
TOMERONG	Petroleum)	D1300 Princes HIGHWAY	Service Station	Under assessment	-35.01820959	150.5779687
	7-Eleven (Former Mobil) Service			Regulation under CLM Act not		
TOONGABBIE	Station Toongabbie	3 Metella ROAD	Service Station	required	-33.78692357	150.9462837
				Regulation under CLM Act not		
TOORMINA	Caltex Service Station	2 Minorca PLACE	Service Station	required	-30.35229568	153.0906606
	Coles XP (Former Mobil) Toronto	133 - 137 Cary (Cnr Thorne St)		Regulation under CLM Act not		
TORONTO	Service Station	STREET	Service Station	required	-33.01187681	151.5930879

List current as of 4 June 2019 69 of 80

Suburb	SiteName	Address	Contamination Activity Type	ManagementClass	Latitude	Longitude
		132 Cary (Cnr Donnelly Ave)		Regulation under CLM Act not		
TORONTO	BP Toronto Service Station	STREET	Service Station	required	-33.01144673	151.5937863
				Regulation under CLM Act not		
TORONTO	Toronto Hotel	74 Victory PARADE	Unclassified	required	-33.01214835	151.5958127
TORONTO	Calhau Camilaa Shakian	4.47. Co CTDEET	Canadaa Chaklara	Regulation under CLM Act not	22.04.20000	454 5020200
TORONTO	Caltex Service Station	147 Cary STREET	Service Station	required	-33.01288007	151.5928388
TOUKLEY	Former Shell Toukley Autoport	211 Main ROAD	Service Station	Regulation under CLM Act not required	-33.26383791	151.5386268
TOURLET	Pormer Shell Toukley Autoport	ZII Walii KOAD	Service Station	'	-53.20363791	131.3380208
TOUKLEY	7-Eleven Australia	287 Main ROAD	Service Station	Regulation under CLM Act not required	-33.26469166	151.5462414
TOOKEET	7 Eleven Australia	(Mitchell Hwy) 76 Narromine	Service Station	Regulation under CLM Act not	33.20403100	131.5402414
TRANGIE	Caltex Service Station	STREET	Service Station	required	-32.03234676	147.985164
-				Regulation under CLM Act not		
TUGGERAH	BP Tuggerah	100 Pacific HIGHWAY	Service Station	required	-33.30578167	151.4198083
				Regulation under CLM Act not		
TUMBARUMBA	Former Caltex Depot	150 Albury STREET	Other Petroleum	required	-35.77024081	147.9927182
				Regulation under CLM Act not		
TUMBI UMBI	Former Tumbi Landfill	140 Bellevue ROAD	Landfill	required	-33.3993472	151.456471
TUMUT	CSR Blue Dam	Jepsen AVENUE	Other Industry	Regulation being finalised	-35.30098337	148.1958308
TUMUT	CSR Railway cutting	Jepsen AVENUE	Unclassified	Regulation being finalised	-35.30422002	148.1942579
				Regulation under CLM Act not		
TUMUT	Former Telstra Depot	22-26 Carey STREET	Other Industry	required	-35.29873079	148.2191122
	Tern Inn Restaurant (abandoned			Regulation under CLM Act not		
TUROSS HEAD	UPSS)	2 Trafalgar ROAD	Service Station	required	-36.05871059	150.1308443
TUDDAMUDDA	7-Eleven (former Mobil) Service	1400 Decific LUCLINAN	Service Station	Regulation under CLM Act not required	-33.73326389	151 1364104
TURRAMURRA	Station Turramurra	1408 Pacific HIGHWAY	Service Station	·	-33./3320305	151.1264194
TURRAMURRA	Woolworths Service Station	1233 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.73317594	151.1313195
TORRAMORIA	Woolworths Service Station	1233 Facilie Highwai	Service Station	Contamination currently	-53.73517554	131.1313133
TURRELLA	Tulloch Australia Pty Limited	61 Turrella STREET	Chemical Industry	regulated under CLM Act	-33.92857213	151.1475387
	Rail Corridor and adjacent	75 Henderson STREET	Other Industry	Under assessment		
TURRELLA	industrial land				-33.928402	151.148355
	Former Mobil Quix Service			Regulation under CLM Act not		
TWEED HEADS	Station	60 Pacific HIGHWAY	Service Station	required	-28.20143775	153.5445381
	adjacent to 79-81 Wharf Street,			Regulation under CLM Act not		
TWEED HEADS	Tweed Heads	79-81 Wharf STREET	Other Petroleum	required	-28.17351959	153.542262
				Regulation under CLM Act not		
TWEED HEADS SOUTH	Former BP Depot	142 Minjungbal DRIVE	Other Petroleum	required	-28.20860702	153.5455932
		Corner Minjungbal Drive and		Regulation under CLM Act not		
TWEED HEADS SOUTH	Coles Express Service Station	Heffron STREET	Service Station	required	-28.19459987	153.5419978
TWEED HEADS COUTY	Washingtha Blue Batasi	98-102 Pacific (100 Minjungbal	Complete Charlier	Regulation under CLM Act not	20.20.20.20	452 5440675
TWEED HEADS SOUTH	Woolworths Plus Petrol	Drive) HIGHWAY	Service Station	required	-28.20488521	153.5448675

List current as of 4 June 2019 70 of 80

Suburb	SiteName	Address	Contamination Activity Type	ManagementClass	Latitude	Longitude
TWEED HEADS WEST	Caltex Service Station	96 to 98 Kennedy DRIVE	Service Station	Regulation being finalised	-28.1871486	153.5229866
TYAGARAH	Tyagarah Airstrip	25 Staceys WAY	Other Petroleum	Under assessment	-28.59553079	153.5469165
				Regulation under CLM Act not		
ULAN	Ulan Coal Mine	4505 Ulan ROAD	Other Industry	required	-32.25620603	149.7558075
ULLADULLA	Colon Frances I III o de III	153 Dringer HICHNAVAV	Comitoe Chabina	Regulation under CLM Act not	-35.36288274	150 47272
OLLADOLLA	Coles Express Ulladulla	153 Princes HIGHWAY	Service Station	required  Regulation under CLM Act not	-55.30208274	150.47272
LLADULLA	Woolworths Petrol Station	155-157 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-35.36316263	150.4725668
OLLADOLLA	Woolworths i circl station	62A Deering Street, corner	Service Station	Regulation under CLM Act not	33.30310203	130.4723000
ULLADULLA	Caltex Service Station	Princes HIGHWAY	Service Station	required	-35.36276828	150.473578
	Shell Coles Express Service			Regulation under CLM Act not		
ULTIMO	Station	387-429 Wattle STREET	Service Station	required	-33.88138825	151.1966791
	Endeavour Energy Springhill Field			Regulation under CLM Act not		
UNANDERRA	Service Centre	195 Five Island ROAD	Other Industry	required	-34.45837706	150.8598825
				Contamination currently		
UNANDERRA	BlueScope Stainless Steel	13 Marley PLACE	Metal Industry	regulated under CLM Act	-34.44959798	150.8571632
	Unanderra Weekend Detention			Regulation under CLM Act not		
UNANDERRA	Centre	34-40 Lady Penryhn DRIVE	Landfill	required	-34.4620226	150.8473821
		214.05		Regulation under CLM Act not		450,00000
UNANDERRA	Veolia Environmental Services	9 Waynote PLACE	Other Industry	required	-34.46042393	150.863232
UNANDERRA	Caltex Service Station	86-98 Princes HIGHWAY	Comico Station	Regulation under CLM Act not required	-34.45414951	150.845165
UNANDERKA		86-98 Princes HIGHWAY	Service Station	- 1	-34.45414951	150.845165
UNANDERRA	Former Prime Service Station and adjoining lands	41-49 Princes HIGHWAY	Service Station	Contamination formerly regulated under the CLM Act	-34.45056105	150.8490833
ONANDERINA	adjoining lands	41 45 Timees TilditWAT	Service Station	Regulation under CLM Act not	34.43030103	150.0450055
URALLA	Caltex Service Station	103 Bridge STREET	Service Station	required	-30.64524911	151.4934484
				Regulation under CLM Act not		
URALLA	Phoenix Foundry	44 Duke STREET	Metal Industry	required	-30.65093272	151.5004479
	Former Caltex Depot Kapooka	6876 Olympic (Uranquinty Rd)		Regulation under CLM Act not		
URANQUINTY	(Wagga Wagga)	HIGHWAY	Service Station	required	-35.15319793	147.3085469
				Contamination currently		
URUNGA	Former Antimony Process plant	Hillside DRIVE	Chemical Industry	regulated under CLM Act	-30.50422942	153.0132011
				Regulation under CLM Act not		
VALENTINE	BP Express Service Station	855 Macquarie DRIVE	Service Station	required	-33.00801109	151.6425806
		T. II II. 2045		Regulation under CLM Act not	22 222454	454 6400004
VALENTINE	Valentine Public School	Tallawalla ROAD	Unclassified	required	-33.0091613	151.6423231
V/II I AVVOOD	Nanatian (Former Tall) Site	1104 Christina BOAD	Other Industry	Under preliminary investigation	22.97010113	150 0913103
VILLAWOOD	Nepotian (Former Toll) Site	110A Christina ROAD	Other Industry	order  Begylation under CLM Act not	-33.87919117	150.9812193
VILLAWOOD	Former Defence Site	29 Biloela STREET	Landfill	Regulation under CLM Act not required	-33.88782978	150.9886275
VILLAVIOOD	Torrice Describe Site	25 BROCIA STREET	Lanum	Contamination formerly	-53.00782376	130.3000273
VILLAWOOD	Former Siemens/Westinghouse	49 Miowera ROAD	Other Industry	regulated under the CLM Act	-33.87641909	150.9836746

List current as of 4 June 2019 71 of 80

Suburb	SiteName	Address	Contamination Activity Type	ManagementClass	Latitude	Longitude
				Contamination currently		
VILLAWOOD	Former Orica Crop Care	2 Christina ROAD	Chemical Industry	regulated under CLM Act	-33.880329	150.9896329
VIII A A A O O D	DDC In diversion	O Diggs in the set AVENUE	Chamainal Individual	Regulation under CLM Act not	22.0700075	150,0007020
VILLAWOOD	PPG Industries	9 Birmingham AVENUE	Chemical Industry	required	-33.87800757	150.9887929
VILLAWOOD	Former Electrical Component  Manufacturer	66 Christina ROAD	Other Industry	manage residual contamination (CLM Act)	-33.88018315	150.9838773
VILLAWOOD	ivianuracturer	00 CHIISCHIA NOAD	Other maastry	Under preliminary investigation	-33.88018313	130.9838773
VILLAWOOD	Ettason Villawood Site	2A Birmingham AVENUE	Chemical Industry	order	-33.878734	150.98259
	Shell Coles Express Service	0 1	,	Regulation under CLM Act not		
VINEYARD	Station	731 Windsor ROAD	Service Station	required	-33.65780463	150.8753245
				Regulation under CLM Act not		
WAGGA WAGGA	Caltex Service Station	170 Fitzmaurice STREET	Service Station	required	-35.10289587	147.3679002
				Regulation under CLM Act not		
WAGGA WAGGA	Former BP Service Station	31 Bourke STREET	Service Station	required	-35.12626628	147.3547199
	Caltex (former Mobil) Service			Regulation under CLM Act not		
WAGGA WAGGA	Station	106 Edward STREET	Service Station	required	-35.11910909	147.3682364
				Regulation under CLM Act not		
WAGGA WAGGA	Former Caltex Depot	60 Lake Albert DRIVE	Service Station	required	-35.12316794	147.37724
1A/ACCA 1A/ACCA	Former Mobil Depot Wagga	07 00 Colomos STREET	Oth or Detroleurs	Regulation under CLM Act not	25 42472074	147.2576651
WAGGA WAGGA	Wagga	97-99 Coleman STREET	Other Petroleum	required	-35.12173871	147.3576651
WAGGA WAGGA	Ashmont Autoport	Cnr Tobruk Street and Bardia STREET	Service Station	Regulation under CLM Act not required	-35.12517373	147.329919
Wite Git Wite Git	/ Simone / Ideopore	STREET	Service Station	Regulation under CLM Act not	33.12317373	147.323313
WAGGA WAGGA	Former Caltex Service Station	343 Hammond AVENUE	Service Station	required	-35.12420793	147.4157959
				Regulation under CLM Act not		
WAGGA WAGGA	Caltex Service Station	56 - 60 Docker St STREET	Service Station	required	-35.11737947	147.3558145
				Regulation under CLM Act not		
WAGGA WAGGA	Former Iron Foundry	212-230 Hammond STREET	Metal Industry	required	-35.12605478	147.4045461
				Regulation under CLM Act not		
WAGGA WAGGA	Coles Express Wagga Wagga	353-355 Edward STREET	Service Station	required	-35.11606625	147.3509339
WAGGA WAGGA	Former Wiradjuri landfill	Narrung STREET	Landfill	Under assessment	-35.09628532	147.3619535
1A/ACCA 1A/ACCA	Former on Consumition	FA Charter STREET	Gasworks	Contamination currently	25 12262066	147 2492779
WAGGA WAGGA	Former Gasworks	54 Chaston STREET	Gasworks	regulated under CLM Act	-35.12262069	147.3482778
WAGGA WAGGA	Former Gasworks	Cnr Tarcutta Street and Cross STREET	Gasworks	Contamination currently regulated under CLM Act	-35.10871183	147.3737933
WAGGA WAGGA	Torrier dasworks	STREET	Gasworks	Regulation under CLM Act not	-55.108/1185	147.3737933
WAGGA WAGGA	BP Wagga Wagga	180 Edward STREET	Service Station	required	-35.11850802	147.3639619
				Contamination currently		
WAGGA WAGGA	Former Dry Cleaning Facility	183 Fitzmaurice STREET	Other Industry	regulated under CLM Act	-35.10209987	147.3683852
			,	Regulation under CLM Act not		
WAHROONGA	Coles Express Wahroonga	1601 Pacific HIGHWAY	Service Station	required	-33.71945571	151.1163002
				Regulation under CLM Act not		
WAHROONGA	7-Eleven Service Station	1579 Pacific HIGHWAY	Service Station	required	-33.71974617	151.1168106

List current as of 4 June 2019 72 of 80

Suburb	SiteName	Address	Contamination Activity Type	ManagementClass	Latitude	Longitude
				Regulation under CLM Act not		
WAITARA	Caltex Service Station	59-61 Pacific HIGHWAY	Service Station	required	-33.71064349	151.1024644
	5 61 115			Regulation under CLM Act not	20.00054476	440 400000
WALGETT	Former Shell Depot	Castlereagh HIGHWAY	Other Petroleum	required	-30.00861179	148.1239938
WALLERAWANG	Wallerawang Power Station	1 Main STREET	Other Petroleum	Regulation under CLM Act not required	-33.40339296	150.0855101
WALLERAWANG	Wallerawalig Fower Station	1 Wall STREET	Other retroleum	Regulation under CLM Act not	-53.40539290	130.0833101
WALLERAWANG	Lidsdale Coal Loading Facility	Main STREET	Other Industry	required	-33.39996523	150.0737717
***************************************	Caltex Maryland Service Station	With the state of	other madatry	Regulation under CLM Act not	55.5555555	150.0707717
WALLSEND	Wallsend	41 Minmi ROAD	Service Station	required	-32.88967866	151.6619253
				Regulation under CLM Act not		
WALLSEND	Coles Express Wallsend East	15 Thomas STREET	Service Station	required	-32.90719444	151.6693426
				Regulation under CLM Act not		
WALLSEND	OneSteel Recycling	64-80 Sandgate ROAD	Metal Industry	required	-32.89425477	151.6799648
				Regulation under CLM Act not		
WALLSEND	Ausgrid Wallsend Depot	Abbott STREET	Other Industry	required	-32.90162796	151.6857267
	Cnr of Douglas Street and 111			Regulation under CLM Act not		
WALLSEND	Newcastle Road Wallsend	111 Newcastle ROAD	Metal Industry	required	-32.90414175	151.6830784
				Regulation under CLM Act not		
WAMBERAL	Caltex Service Station	654 The Entrance ROAD	Service Station	required	-33.42338668	151.4375685
WANGI WANGI	Myuna Colliery	Mangi Boint BOAD	Other Industry	Regulation under CLM Act not required	-33.06139532	151.5697186
WANGI WANGI	iviyuria Coniery	Wangi Point ROAD	Other maustry	Regulation under CLM Act not	-55.06159552	151.509/180
WARATAH	Waratah Area Health	Turton ROAD	Unclassified	required	-32.90961233	151.7260867
WAIVATATI	wardtan Arca Ficartii	Turton NOAD	Officiassifica	required	32.90301233	131.7200007
WARATAH	Waratah former Gasworks	Turton and Georgetown ROADS	Gasworks	Under assessment	-32.9057763	151.7270033
	Nancys Cattle Dip, Thurgates					
WARDELL	Lane, Wardell	Thurgates LANE	Cattle Dip	Under assessment	-28.954176	153.427349
				Regulation under CLM Act not		
WARILLA	Woolworths Petrol Warilla	43 -57 Shellharbour ROAD	Service Station	required	-34.5470966	150.863748
	Emulsion Plant, Dyno Nobel Asia			Regulation under CLM Act not		
WARKWORTH	Pacific Pty Ltd	186 Long Point ROAD	Chemical Industry	required	-32.5781708	151.0834387
MAKA DIKIM ODTI I	Hathard Callians	Laure de Pilaine POAD	Otherstandards	Regulation under CLM Act not	22 505 4250	450 004 6600
WARKWORTH	United Colliery	Jerrys Plains ROAD	Other Industry	required	-32.5654356	150.9916698
WARNERS BAY	Caltex Service Station	55 King STREET	Service Station	Regulation under CLM Act not required	-32.97418806	151.6476184
WARNERS DAT		33 KIIIR STREET	Service Station	<u>'</u>	-52.97418800	151.0476184
WARNERS BAY	7-Eleven (former Mobil) Service Station	393 Hillsborough ROAD	Service Station	Regulation under CLM Act not required	-32.9659363	151.6543264
TO MARKETO DATE	5.0001	SSS :SSS : OUBIT NOTE	Service Station	Regulation under CLM Act not	32.3033303	151:0545204
WARNERS BAY	Historically Filled Land	41-43 Charles STREET	Unclassified	required	-32.97340461	151.6464383
	,			Contamination formerly	52.5.57676	
WARNERVALE	Former Timber Treatment Plant	Aldenham and Railway ROADS	Other Industry	regulated under the CLM Act	-33.24732018	151.4469037
	Warragamba Dam Viewing	·	,	Regulation under CLM Act not		
WARRAGAMBA	Platform	Eighteenth STREET	Unclassified	required	-33.88546354	150.6024501

List current as of 4 June 2019 73 of 80

Suburb	SiteName	Address	Contamination Activity Type	ManagementClass	Latitude	Longitude
				Regulation under CLM Act not		
WARRAGAMBA	Megarrity's Creek Site	Weir ROAD	Unclassified	required	-33.885049	150.597628
				Regulation under CLM Act not		
WARRAWONG	Caltex Service Station	75-77 King STREET	Service Station	required	-34.49037817	150.888802
WARREN	Former Chall Donat	0 Dubb - CIRET	Other Detroleum	Regulation under CLM Act not required	24 (027020	147 020000
WARREN	Former Shell Depot	8 Dubbo STREET	Other Petroleum	<u>'</u>	-31.69379262	147.8308088
WARREN	Caltex Warren Service Station	1 Coonamble ROAD	Service Station	Regulation under CLM Act not required	-31.69508383	147.8405578
VVAINLEN	Callex Walter Service Station	1 Coonamble ROAD	Jervice Station	Contamination currently	-31.09308383	147.8403378
WARREN	Former Mobil Warren Depot	16 Dubbo STREET	Other Petroleum	regulated under CLM Act	-31.6943058	147.8314606
WHITE	Torrier Woods Warren Depot	TO DUDGO STILLET	other retroicum	regulated under elivine	31.0343030	147.0314000
WARWICK FARM	Warwick Farm Public School	95 Lawrence Hargrave ROAD	Landfill	Under assessment	-33.91050532	150.9302197
				Regulation under CLM Act not		
WATERLOO	Proposed Construction Site	2 John STREET	Other Industry	required	-33.89989686	151.2010324
	Waverley Woollahra Process			Regulation under CLM Act not		
WATERLOO	Plant	355 Botany ROAD	Other Industry	required	-33.9063092	151.2042672
	Shell Coles Express Service			Regulation under CLM Act not		
WATERLOO	Station	867-877 South Dowling STREET	Service Station	required	-33.90179774	151.2143789
				Contamination currently		
WATERLOO	Lawrence Dry Cleaners	887-893 Bourke STREET	Unclassified	regulated under CLM Act	-33.89897433	151.2101436
WATERLOO	Diversity Waterloo	1-13 Archibald AVENUE	Other Industry	Under assessment	-33.90204305	151.2097328
WATERI OO	Iconic (Former Chubb Factory)	220 220 Elizabath CERET	Other technologies	Regulation under CLM Act not	22 00227746	454 2060205
WATERLOO	Waterloo	830-838 Elizabeth STREET	Other Industry	required	-33.90227718	151.2060305
WATERLOO	22-24 Archibald Avenue	22-24 Archibald AVENUE	Other Petroleum	Regulation under CLM Act not required	-33.90263766	151.2132105
WATERLOO	22-24 Archibald Avenue	22-24 AICHIDAIU AVENUE	Other Petroleum	Regulation under CLM Act not	-33.90203700	131.2132103
WAUCHOPE	Expressway Spares UST	3 Sancrox ROAD	Other Petroleum	required	-31.44421922	152.8218723
WAGGIOLE	Expressway spares os i	3 Sancrox No.12	other retroleum	Regulation under CLM Act not	31.44421322	132.0210723
WAUCHOPE	Former Shell Depot	56-64 High STREET	Other Petroleum	required	-31.45804845	152.7314151
				Regulation under CLM Act not		
WAUCHOPE	Wauchope Service Station	57 High STREET	Service Station	required	-31.45737022	152.7305018
	·			Regulation under CLM Act not		
WAUCHOPE	Former Timber Treatment Site	Blackbutt DRIVE	Other Industry	required	-31.46575645	152.7228555
	Shell Coles Express Service			Regulation under CLM Act not		
WAUCHOPE	Station	64 High STREET	Service Station	required	-31.45764495	152.7315975
				Regulation under CLM Act not		
WAUCHOPE	Wauchope Public Primary School	2 Waugh STREET	Unclassified	required	-31.4556387	152.7295455
				Contamination formerly		
WAVERTON	SRA Land	95 Bay ROAD	Unclassified	regulated under the CLM Act	-33.83716728	151.1969497
l				Contamination formerly		
WAVERTON	Berry's Bay Woodley's Marina	1 Balls Head DRIVE	Other Industry	regulated under the POEO Act	-33.84441851	151.1947433
NA/AV/EDTON	Ourter Court 151	2 Kina CTREET	Casularius	manage residual contamination	22.0262702	454 4005 44
WAVERTON	Oyster Cove AGL	2 King STREET	Gasworks	(CLM Act)	-33.83637995	151.193541

List current as of 4 June 2019 74 of 80

Suburb	SiteName	Address	Contamination Activity Type	ManagementClass	Latitude	Longitude
WEE JASPER	Wee Jasper Tavern	6499 Wee Jasper ROAD	Other Industry	Under assessment	-35.110374	148.679405
	·	,	,	Regulation under CLM Act not		
WELLINGTON	Former Caltex Service Station	124-128 Lee STREET	Service Station	required	-32.55082729	148.9411537
WELLINGTON	BP Wellington Service Station	35A Maxwell STREET	Service Station	Under assessment	-32.55835121	148.9447284
WELLINGTON	Woolworths Petrol Wellington	79 Lee STREET	Service Station	Under assessment	-32.54874227	148.9408531
				Regulation under CLM Act not		
WENTWORTH	Caltex - Wentworth	110 Adams STREET	Service Station	required	-34.1024927	141.9160539
MENTMODILLEALLC	De din et en Henritel	Dadinatas DDIVE	Unclassified	Contamination formerly	-33.73201608	150.3874102
WENTWORTH FALLS	Bodington Hospital	Bodington DRIVE	Unclassified	regulated under the CLM Act Regulation under CLM Act not	-33./3201608	150.3874102
WENTWORTH POINT	RMS Eastern Precinct	3-7 Burroway ROAD	Other Petroleum	required	-33.8233882	151.0815668
WENTWORTHTOM	INVIS Editerri recinet	5 7 Bulloway None	Other readleann	Regulation under CLM Act not	33.0233002	131.0013000
WENTWORTH POINT	Former TNT Express	23 Bennelong PARKWAY	Other Petroleum	required	-33.83115118	151.0726636
	·	2 Rawson Rd and 8 Barfil		Regulation under CLM Act not		
WENTWORTHVILLE	Former Workshop	CRESCENT	Unclassified	required	-33.81568808	150.9671853
		Cnr Dunheved Rd and Henry		Regulation under CLM Act not		
WERRINGTON	Caltex Service Station	Lawson DRIVE	Service Station	required	-33.74577725	150.7409877
	Claremont Meadows Former			Regulation under CLM Act not		
WERRINGTON	landfill	Gipps STREET	Landfill	required	-33.77341076	150.7557628
WERRINGTON COUNTY	7-Eleven Werrington	Lot 122 Dunheved ROAD	Service Station	Regulation under CLM Act not required	-33.74699408	150.7428609
WERRINGTON COONTT	7-Lieven Wernington	Lot 122 Dufffleved ROAD	Service Station	Contamination formerly	-53.74099400	150.7428009
WEST BALLINA	Caltex Big Prawn Service Station	Pacific HIGHWAY	Service Station	regulated under the CLM Act	-28.86374913	153.5321482
				Regulation under CLM Act not		
WEST GOSFORD	Caltex Service Station	283 Manns ROAD	Service Station	required	-33.41659727	151.325219
				Regulation under CLM Act not		
WEST GOSFORD	Caltex Service Station	69-71 Pacific HIGHWAY	Service Station	required	-33.42729985	151.3214621
WEST GOSFORD	Caltex Service Station	30a Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.42778813	151.3190581
WEST GOSFORD	Adcock Memorial Park	Central Coast HIGHWAY	Landfill	Under assessment	-33.42963075	151.3273331
	Endeavour Energy Nowra Field			Regulation under CLM Act not		
WEST NOWRA	Service Centre	20 Depot ROAD	Other Industry	required	-34.88993085	150.5878854
MACCE DENIMANEE LILLS	7-Eleven (former Mobil) Service	552 Danie ant 1111 - DOAD	Coming Chatian	Regulation under CLM Act not	22.74505545	454.0500057
WEST PENNANT HILLS	Station	552 Pennant Hills ROAD	Service Station	required	-33.74686545	151.0508067
WEST RYDE	7-Eleven (former Mobil) Service Station	917 Victoria ROAD	Service Station	Regulation under CLM Act not required	-33.80921103	151.0932917
WEST KIDE	Station	JI, VICTORIA NOAD	Jervice Judioil	Regulation under CLM Act not	-53.60321103	131.0332317
WEST RYDE	Pfizer Australia Pty Ltd	38-42 Wharf ROAD	Chemical Industry	required	-33.81021085	151.0693631
				Regulation under CLM Act not		
WEST RYDE	Reckitt Benckiser	44 Wharf ROAD	Chemical Industry	required	-33.81172205	151.0692752

List current as of 4 June 2019 75 of 80

Suburb						
	SiteName	Address	Contamination Activity Type	ManagementClass	Latitude	Longitude
				Regulation under CLM Act not		
WEST RYDE	JHM Property Development	2A Mellor STREET	Other Industry	required	-33.81207534	151.094598
NAMES TARANA O DELL	Washingtha Batash	440 Deldes CEDEET	Carrier Chatter	Regulation under CLM Act not	24 00250263	450.0467603
WEST TAMWORTH	Woolworths Petrol	· · · ·	Service Station	required	-31.09358262	150.9167693
WEST WYALONG	Lowes Petroleum (Former BP) Depot West Wyalong	Town Bypass/Railway Road) ROAD	Other Petroleum	Regulation under CLM Act not required	-33.93440247	147.2154596
WEST WIALONG	Depot West Wyalong	(Wyalong By-pass Rd) Lot 1-3	Other retroleum	Regulation under CLM Act not	-53.53440247	147.2134350
WEST WYALONG	Caltex Depot	Showground ROAD	Service Station	required	-33.92556	147.1981659
WEST WIALONG	Cartex Depot	Showground NOAD	Jervice Station	Regulation under CLM Act not	33.32330	147.1301033
WEST WYALONG	Former Mobil Depot	104 Compton ROAD	Other Petroleum	required	-33.93449194	147.2147948
				Regulation under CLM Act not		
WESTON	Illegal Dumping Site	Corner Kline Street & First STREET	Unclassified	required	-32.81367986	151.4551507
				Regulation under CLM Act not		
WETHERILL PARK	Former Fuel Storage Depot	200-212 Cowpasture ROAD	Other Petroleum	required	-33.84568871	150.8764012
				Regulation under CLM Act not		
WETHERILL PARK	Sims Wetherill Park	35-37 Frank STREET	Metal Industry	required	-33.84056122	150.9086265
	Shell Coles Express Service			Regulation under CLM Act not		
WETHERILL PARK	Station	565 Polding STREET	Service Station	required	-33.8569731	150.8992804
	Cleanaway (Formerly Nationwide			Regulation under CLM Act not		
WETHERILL PARK	Oil) Wetherill Park	6 Davis ROAD	Other Industry	required	-33.83770038	150.9045197
WETHERIN DARK	DOC Code ou Operations Contra	430 440 Viete vie CTREET	Charainal Industry	l la day accessore	22.0440022	150,0007550
WETHERILL PARK	BOC Sydney Operations Centre	428-440 Victoria STREET	Chemical Industry	Under assessment	-33.84400237	150.8967556
WETHERILL PARK	Camide Former Landfill	Newton ROAD	Landfill	Regulation under CLM Act not required	-33.83898879	150.8963813
WEIHERILL PARK	Carride Former Landini	Newton ROAD	Lanum	Contamination currently	-33.03070073	130.8903813
WICKHAM	Caltex Terminal	156 Hannell STREET	Other Petroleum	regulated under CLM Act	-32.91520778	151.7563638
- TOTAL IN CONT.	Carex reminar	130 Halliell 31NEET	other retroicum	Regulation under CLM Act not	32.31320770	131.7303030
WICKHAM	Former Warehouse	10 Dangar STREET	Unclassified	required	-32.92383206	151.759761
		3. 3.		Regulation under CLM Act not		
WICKHAM	Former Factory	57 Annie STREET	Other Industry	required	-32.91524827	151.7539893
				Regulation under CLM Act not		
WICKHAM	Railcorp Wickham	50 Railway STREET	Other Industry	required	-32.9210433	151.7544687
	Fuchs Lubricants (Australasia) Pty			Regulation under CLM Act not		
WICKHAM	Ltd Wickham	2 Holland STREET	Other Industry	required	-32.9214709	151.7556928
				Contamination formerly		
WILBERFORCE	Former Drum Reconditioners	12-14 Box AVENUE	Other Industry	regulated under the CLM Act	-33.5453884	150.8587934
				Regulation under CLM Act not		
WILBERFORCE	Former Solvent Recycling Site	13 Box AVENUE	Chemical Industry	required	-33.54557427	150.8577006
MAILEN DADIN	Sudan Water Sugar	4D Hillowest CTDEST	Ohlo on In division :	Regulation under CLM Act not	22 0220452	454.0030350
WILEY PARK	Sydney Water Property	1B Hillcrest STREET	Other Industry	required SIAA Astron	-33.92391634	151.0676256
WILLIAMTOWN	Hunter Land Effluent Pond	38 Cabbage Tree ROAD	Other Industry	Regulation under CLM Act not required	-32.80750069	151.8310107
VVILLIAIVITOVVIV		20 Cannage Tree KOAD	Other muustry	· ·	-52.60/50005	131.631010/
WILLOUGHBY	Shell Coles Express Service Station	616-626 Willoughby ROAD	Service Station	Regulation under CLM Act not required	-33.80593769	151.1988559

List current as of 4 June 2019 76 of 80

Suburb	SiteName	Address	Contamination Activity Type	ManagementClass	Latitude	Longitude
				Regulation under CLM Act not		
WILLOUGHBY	Caltex Service Station	157 Penhur STREET	Service Station	required	-33.79793513	151.1981926
WILLOUGHBY	BP Express Tower	498 Willoughby STREET	Service Station	Under assessment	-33.81022918	151.199315
WILLOUGHBY	BP Express Tower	Corner Ann Street and Stan	Service Station	Regulation under CLM Act not	-55.81022918	151.199515
WILLOUGHBY EAST	Willoughby Bus Depot	STREET	Other Industry	required	-33.7982569	151.2038993
	Timodgiia, Bas Bepet	(Part Lot 17 DP 270536) Condell	other mader y	Regulation under CLM Act not	33.7362363	131.2030333
WILTON	Condell Park Homestead	Park ROAD	Unclassified	required	-34.21910141	150.6837962
				Regulation under CLM Act not		
WINDANG	Caltex Service Station	244-248 Windang ROAD	Service Station	required	-34.5274434	150.8691161
				Regulation under CLM Act not		
WINDSOR	Former Caltex Service Station	46-52 Macquarie STREET	Service Station	required	-33.60783315	150.8213428
	Former Caltex Windsor Depot and			Regulation under CLM Act not		
WINDSOR	Service Station	48-50 Mileham STREET	Service Station	required	-33.61538627	150.8157517
	Woolworths (former Caltex)	Cnr Macquarie Street & Baker		Regulation under CLM Act not		
WINDSOR	Service Station	STREET	Service Station	required	-33.60569346	150.8232803
WINGHAM	Former Caltex Service Station	1036-1038 Wingham ROAD	Service Station	Regulation under CLM Act not required	-31.86236594	152.3805752
WINGHAIVI	Former Cartex Service Station		Service Station	· ·	-51.80230394	132.3803732
WINGHAM	Bogas Service Station	Cnr Primrose Street and Isabella STREET	Service Station	Regulation under CLM Act not required	-31.86833656	152.3716346
VIIIVOIDUVI	Bogas service station	JIKEL	Service Station	Regulation under CLM Act not	31.00033030	132.3710340
WINMALEE	Prime Winmalee Service Station	281 Hawkesbury ROAD	Service Station	required	-33.68223276	150.5997203
	Former Liquid Waste Disposal			Regulation under CLM Act not		
WIRLINGA	Facility	704 Riverina ROAD	Unclassified	required	-36.07103958	147.0193522
				Regulation under CLM Act not		
WOLLI CREEK	Former Ausgrid Substation 10061	13 Gertrude STREET	Other Industry	required	-33.93364031	151.1543818
				Regulation under CLM Act not		
WOLLONGONG	Redevelopment site	33 - 39 Beatson STREET	Other Petroleum	required	-34.43196083	150.8976661
				Regulation under CLM Act not		
WOLLONGONG	Caltex Service Station	9 Flinders STREET	Service Station	required	-34.41505616	150.8932515
WOLLONGONG	Greenhouse Park	Springhill BOAD	Landfill	Contamination currently	-34.44119949	150 8021764
WOLLONGONG	Greenilouse Park	Springhill ROAD	Lanum	regulated under CLM Act Regulation under CLM Act not	-54.44119945	150.8931764
WOLLONGONG	Former Wollongong Gasworks	120 and 122 Smith STREET	Gasworks	required	-34.42030173	150.8906745
WOLLOWGONG	remer wonengeng coswerts	120 dila 122 dilitti dilitti	Gusworks	Contamination currently	34.42030173	130.0300743
WOLLONGONG	Woolworths Service Station	425 Crown STREET	Service Station	regulated under CLM Act	-34.42637378	150.8799288
				Regulation under CLM Act not		
WOLLONGONG	Wollongong Harbour Central Spur	Off Endeavour DRIVE	Other Petroleum	required	-34.42066879	150.906821
				Regulation under CLM Act not		
WOODBURN	Caltex Service Station	129 River STREET	Service Station	required	-29.07206887	153.3409769
				Regulation under CLM Act not		
WOODBURN	Crown Reserve 88037 Woodburn	Pacific HIGHWAY	Landfill	required	-29.06580577	153.3541886
				Regulation under CLM Act not		
WOOLGOOLGA	Caltex Woolgoolga Service Station	16 Bosworth ROAD	Service Station	required	-30.12569561	153.1946006

List current as of 4 June 2019 77 of 80

Suburb	SiteName	Address	Contamination Activity Type	ManagementClass	Latitude	Longitude
				Regulation under CLM Act not		
WOOLGOOLGA	United Petroleum Service Station	56 Clarence STREET	Service Station	required	-30.11045544	153.1904609
WOOLLAHRA	Former Service Station	20 Wallis STREET	Service Station	Regulation under CLM Act not required	-33.8901965	151.2372752
WOOLLAHKA	Former Service Station	20 Wallis STREET	Service Station	- 1	-33.8901965	151.23/2/52
WOOLLAHRA	Proposed Jewish Care Centre	7 -21 Saber STREET	Unclassified	Regulation under CLM Act not required	-33.8904055	151.2480062
WOOLLY WHO Y	Troposed sewish care centre	7 ZI SUBCI STREET	one assured	Contamination formerly	33.0304033	131.240002
WOOLLAHRA	Caltex Woollahra Service Station	116 Old South Head ROAD	Service Station	regulated under the CLM Act	-33.88959697	151.2553736
				via the planning process (EP&A		
WOOLLOOMOOLOO	Former BP Service Station	2 Dowley STREET	Service Station	Act)	-33.86940191	151.2218741
				Contamination currently		
WOOLOMIN	Woolomin Gold Rush Store	65 Nundle ROAD	Other Petroleum	regulated under CLM Act	-31.30415134	151.149729
				Regulation under CLM Act not		
WOOLOOWARE	Caltex Service Station	100 Woolooware ROAD	Service Station	required	-34.05274635	151.1408413
WOOLOOWARE	Oyster Farm	Captain Cook DRIVE	Other Industry	Under assessment	-34.03807914	151.1476055
WOONCARRALL	Forman Warran and Landfill	22C 2C4 Heliana DOAD	Londfill	Regulation under CLM Act not	22 2276245	151 464262
WOONGARRAH	Former Warnervale Landfill	236-264 Hakone ROAD	Landfill	required	-33.2376313	151.464362
WOOTTON	Former Chemical Spill Site	11859 Pacific HIGHWAY	Chemical Industry	Regulation under CLM Act not required	-32.28168548	152.3117819
WOOTTON	Mobil Former Woy Woy Service	11039 Facilic HIGHWAT	Chemical moustry	Contamination formerly	-32.28108348	132.3117819
WOY WOY	Station and adjacent land	177-181 Blackwall ROAD	Service Station	regulated under the CLM Act	-33.49254403	151.3270829
				Regulation under CLM Act not		
WOY WOY	Barry Robertson Holden	231 Blackwall ROAD	Service Station	required	-33.49621068	151.3285128
	,			Contamination currently		
WOY WOY	Bogas Service Station	66 Memorial AVENUE	Service Station	regulated under CLM Act	-33.5069738	151.3315579
WOY WOY	Rogers Park	Dunban ROAD	Landfill	Under assessment	-33.50009693	151.3181347
WOY WOY	Austin Butler Memorial Oval	Blackwall ROAD	Landfill	Under assessment	-33.48626871	151.3276042
WOT WOT	Austin Butier Wellional Oval	DIACKWAII NOAD	Landini	Onder assessment	-55.48020871	131.3270042
WOY WOY	James Browne Oval	Welcome STREET	Landfill	Under assessment	-33.49756053	151.3234871
		50 Neeld (Newell Highway)		Regulation under CLM Act not		
WYALONG	Caltex Service Station	STREET	Service Station	required	-33.92665025	147.2446546
				Regulation under CLM Act not		
WYOMING	Caltex Service Station Wyoming	465 Pacific HIGHWAY	Service Station	required	-33.40945391	151.3499812
				Contamination formerly		
WYONG	Wyong Bayer/Kemcon	16 Lucca ROAD	Chemical Industry	regulated under the CLM Act	-33.26192339	151.4429446
		M1 Pacific (Northbound)		Regulation under CLM Act not		
WYONG	Caltex Service Station	MOTORWAY	Service Station	required	-33.25641477	151.4024821
		M1 Pacific (Southbound)		Regulation under CLM Act not		
WYONG	Caltex Service Station	MOTORWAY	Service Station	required	-33.25330747	151.4053862
MYONG	IVOM Encility	9 Davitt CRESCENT	Other Industry	Regulation under CLM Act not	22 26270100	151 //05112
WYONG	IXOM Facility	8 Pavitt CRESCENT	Other Industry	required	-33.26379108	151.4485113

List current as of 4 June 2019 78 of 80

Suburb	SiteName	Address	Contamination Activity Type	ManagementClass	Latitude	Longitude
YAGOONA	Galserv Galvanising Services	117-153 Rookwood ROAD	Metal Industry	Contamination currently regulated under POEO Act	-33.89493085	151.0388013
	BP Service Station Potts Hill			Regulation under CLM Act not		
YAGOONA	(Yagoona)	155 Rookwood ROAD	Service Station	required	-33.89330525	151.0390969
	7-Eleven (former Mobil) Service			Regulation under CLM Act not		
YAGOONA	Station	519 Hume HIGHWAY	Service Station	required	-33.90760623	151.0207783
	Shell Coles Express Service			Regulation under CLM Act not		
YAGOONA	Station	112 Rookwood ROAD	Service Station	required	-33.89856213	151.0370458
v	Sydney Water Corporation Potts			Regulation under CLM Act not	22 222772	454 0000455
YAGOONA	Hill Complex	91 Brunker ROAD	Other Industry	required	-33.89887589	151.0289165
YALLAH	Tallawarra Dower Station site	Dringer HICHWAY	Unclassified	manage residual contamination	-34.52412143	150 8063150
TALLAN	Tallawarra Power Station site	Princes HIGHWAY	Officiassified	(CLM Act)  Regulation under CLM Act not	-34.32412143	150.8062159
YAMBA	Caltex Service Station	22 Treelands DRIVE	Service Station	required	-29.42701701	153.3279204
TAIVIDA	Cartex Service Station	ZZ Trecianus Divivi	Service Station	Contamination formerly	-23.42701701	133.3279204
YANCO	Former Service Station	14 Main AVENUE	Service Station	regulated under the CLM Act	-34.60356494	146.4105016
174100	Torrier Service Station	14 Main 70 ENGE	Service Station	Regulation under CLM Act not	34.00330434	140.4103010
YASS	Caltex Service Station	228 Comur STREET	Service Station	required	-34.84440036	148.9140179
				Regulation under CLM Act not		
YASS	Caltex Service Station	1715 Yass Valley WAY	Service Station	required	-34.80708856	148.8824228
	Former Mobil Depot Yass and	,		Contamination currently		
YASS	adjacent land	54-58 Laidlaw STREET	Service Station	regulated under CLM Act	-34.83252976	148.9068888
				Contamination currently		
YASS	Former Gasworks	Dutton STREET	Gasworks	regulated under CLM Act	-34.83982614	148.9060029
YASS	Transgrid Depot Yass	Perry STREET	Unclassified	Under assessment	-34.86238341	148.9052809
1A33		Perry STREET	Officiassified		-34.80238341	148.9032809
YENNORA	Former Alcoa Australia Rolled Products Facility - Area 3	1 Kiora CRESCENT	Metal Industry	Regulation under CLM Act not required	-33.86568158	150.9649297
TENNONA	Spicer Axle Australia	I RIOTA CRESCENT	Wetar maastry	Regulation under CLM Act not	-53.80508158	130.3043237
YENNORA	Manufacturing Facility	205-231 Fairfield ROAD	Other Industry	required	-33.85655114	150.9579167
	individual action is a control	200 201 ( 0.11) ( 1.07)	other madery	Regulation under CLM Act not	33.6363311	150.557.5107
YENNORA	Former Caltex Service Station	137-141 Fairfield STREET	Service Station	required	-33.86824768	150.9706137
				Contamination formerly		
YENNORA	Former Metal Plant	44 Larra STREET	Metal Industry	regulated under the CLM Act	-33.86340576	150.9764349
				Contamination formerly		
YENNORA	TetraPak Site	6 Foray STREET	Other Industry	regulated under the CLM Act	-33.8557183	150.9561605
YENNORA	19 Pine Road, Yennora	Pine ROAD	Metal Industry	Regulation being finalised	-33.86713232	150.9621172
TEITHORA	Yetholme CCA Timber Treatment	I III CROAD	Trictal maustry	Contamination formerly	33.00/13232	150.9021172
YETHOLME	Plant	351 Eusdale ROAD	Other Industry	regulated under the CLM Act	-33.45386256	149.8537787
	Former Mobil Depot and Service	SSI EUSGUIC NOND	State madely	Regulation under CLM Act not	33.73300230	143.3337707
YOUNG	Station Young	149 Lovell STREET	Service Station	required	-34.31024587	148.290424
				Regulation under CLM Act not	3515E-1307	1.0.250424
YOUNG	Former Shell Depot	166 Nasmyth STREET	Other Petroleum	required	-34.31025192	148.2931008

List current as of 4 June 2019 79 of 80

Suburb	SiteName	Address	<b>Contamination Activity Type</b>	ManagementClass	Latitude	Longitude
				Contamination currently		
YOUNG	Former battery recycler	45 Nasmyth STREET	Metal Industry	regulated under CLM Act	-34.31201571	148.306772
	Adjacent to former battery			Contamination formerly		
YOUNG	recycler	47 Nasmyth STREET	Metal Industry	regulated under the CLM Act	-34.31176273	148.3064765
				Contamination currently		
YOUNG	Mobil Depot	186 Nasmyth STREET	Other Petroleum	regulated under CLM Act	-34.30954389	148.2908476
				Regulation under CLM Act not		
YOUNG	Former Caltex Depot	95 Lovell STREET	Service Station	required	-34.31127119	148.2955092
	Energy Australia/ Ausgrid Zetland			Regulation under CLM Act not		
ZETLAND	Depot	122 - 138 Joynton AVENUE	Other Industry	required	-33.90883116	151.2101184
	Former Goodrich Control					
ZETLAND	Systems, Zetland	84 - 92 Epsom ROAD	Other Industry	Under assessment	-33.91025707	151.2078048

List current as of 4 June 2019 80 of 80

# Appendix E

Council Records Search



## Penrith City Council

Council Chambers, Station Street, Penrith, N.S.W.

All communications to be addressed to: The Town Clerk, P.O. Box 329, Penrith, N.S.W. 2750

Telephone: (047) 32 2422 (C.D.E. 8017, Penrith)

In reply please quote:

				PERMIT NO	E/1478/80
		BUILDING	PERMIT	REF	HG
ISS	UED IN RESPECT OF LOT NO.	11	D.P.	House No.	
	EET Abbotts Road		LOCALITY		
-	pplicant's Name & Address		Name & Address		s Name & Addres
L	. Sekulic, ot 11 Abbotts Road, emps Creek.	Applic.	,		Constructions ne Highway, atta.
Appr issu belo	oved subject to compliance ed thereunder and condition w for the erection of	with the Los No'd. 2- Garage	ocal Government 4,12,17	Act, relevant	t Ordinances s set out e of \$ 2 000
	approval lapses on the exp				
fenc righ at C	ntion is drawn to the provi ing of swimming pools) of t t of appeal against the dec ouncil's office.	he Local Go	overnment Act, 1 ne Council. App	1919, as amendoeal forms are	ded, giving a e available
Date	100 YOU TO		D.C.	Howher	s he g- & A
	2.1		Prin	ncipal Buildin	ng Inspector
Floo	r Area	-	Material		The Manager
COND	ITIONS:				
1.	IMPORTANT. A CLEAR 900 mm DWELLING AND SIDE BOUNDARI THE OVERHANGING OF THE EAV	ES. A CLEA	R 675 mm MUST E	BE PROVIDED BE	ETWEEN
2)	That 48 hours notice in wr before foundations are laid building has been erected reinforced structural condi- the building has been erect and when the building is conditional to the used or occupied un-	d, foundati to floor le rete work i ted to roof completed an	ons before tree evel and dampcou s in position p framing, drain d ready for occ	nches are fillurses are laid prior to pour ns before the cupation. But	led, the d, steel for ing of concret y are covered :
3,	Stamped plan, specificatio	n and permi	t is to be kept	on site at a	all times.
3)	Approved in compliance wit and Drainage Board as stam	h the condi ped on plan	tions of the Me	itropolitan Wa	ater Sewerage
5.	A special inspection by Pe plumbing and drainage in r Metropolitan Water Sewerag	espect to w	ork outside the	obtained on sewered area	all sanitary as of the
6.	Council's Building Inspect being undertaken.	or shall be	consulted price	r to any drai	inage work
7.	A sowered toilet shall be	provided fo	r workmen durin	g building of	perations.
8.	A special inspection by the external drainage.	e Water Boa	ard shall be obt	ained on all	internal/
9.	Roofwater drains shall be	discharged	into street gut	ter or common	line.
0.	Sanitary accommodation sha Ordinance 44.				
1.	courses minimu	m brickwork	beneath bearer	·s.	
3	Garage shall not be u				al nurnoses.
3.	Separate application shall				
4.	CAUTIONdrain				
5.	This land is subject to a				the
	ringbarking, cutting down, of any tree, except with t	topping, 1	opping, removin	g or wilful o	destruction
6.	No fencing is to be erecte	d in front	of the adopted	building alig	nment.



Roof water drains shall be discharged to Council's satisfaction.



## Penrith City Council

Council Chambers, Station Street, Penrith, N.S.W.

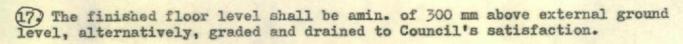
All communications to be addressed to:
The Town Clerk, P.O. Box 329, Penrith, N.S.W. 2750

Telephone: 21 0214

(C.D.E. 8017, Penrith)

In reply please quote:

			PERMIT NO	E/365/77
		BUILDING PERMIT	REF.	GG
IS	SUED IN RESPECT OF LOT NO	11 D.P.	House No.	
	REET Abbotts Rd.			
	Applicant's Name & Address			
1	ronhammer Constr.,  Kerry Rd.,  BLACKTOWN.	V. Sekuric, 116 Booralla St., EDENSOR PARK.	Applica	nt.
issi	roved subject to compliance w ued thereunder and conditions ow for the erection of	No'd. 1-4,9,10,13,	17,18,19 a for the valu	s set out ue of \$ 29,00
	approval lapses on the expi			
fend	ention is drawn to the provis cing of swimming pools) of th nt of appeal against the deci Council's office.	ne Local Government Act, sion of the Council. App	1919, as amen beal forms ar	nded, giving a re available
Date	30.5.77	Die Pris	Jame Buildi	ng Inspector
				ing Thepector
	or Area	Material	B/4.	
	DITIONS:			
1	IMPORTANT. A CLEAR 900 mm M DWELLING AND SIDE BOUNDARIE THE OVERHANGING OF THE EAVE	S. A CLEAR 675 mm MUST E	BE PROVIDED B	BETWEEN
<b>②</b>	That 48 hours notice in wribefore foundations are laid building has been erected treinforced structural concrthe building has been erect and when the building is conot be used or occupied unt	, foundations before trends of floor level and dampcount to the work is in position per deal of the contract o	nches are fil urses are lai prior to pour ns before the cupation. Bu	led, the d, steel for ing of concrete y are covered i ilding shall
3	Stamped plan, specification	and permit is to be kept	on site at	all times.
4	Approved in compliance with and Drainage Board as stamp	the conditions of the Me ed on plans.	etropolitan W	ater Sewerage
5.	A special inspection by Pen plumbing and drainage in re Metropolitan Water Sewerage	spect to work outside the	obtained on sewered are	all sanitary as of the
6.	Council's Building Inspecto being undertaken.	r shall be consulted pric	or to any dra	inage work
7.	A sewered toilet shall be p	rovided for workmen durin	ng building o	perations.
8.	A special inspection by the external drainage.	Water Board shall be obt	ained on all	internal/
0	Roofwater drains shall be d	ischarged into street gut	ter or commo	n line.
10	Sanitary accommodation shall Ordinance 44.	l be provided for workmer	in accordan	ce with
11.	courses minimum	brickwork beneath bearer	S.	
12.	shall not be us	ed for Living, Commercial	or Industri	al purposes.
(3)	Separate application shall	be submitted for septic t	ank installa	tion.
14.	CAUTION draina	ge easement at		
15.	This land is subject to a T ringbarking, cutting down, of any tree, except with th	topping, lopping, removin	nich prohibit ng or wilful	s the destruction
16.	No fencing is to be erected	in front of the adopted	building ali	gnment.



- 18) The sub floor area shall be suitably treated by an authorised pest control firm to prevent attack by termites.
- (9) Separate manufacturers details of the roof trusses to be employed in the building shall be submitted to Council.



## Penrith City Council

Council Chambers, Station Street, Penrith, N.S.W.

All communications to be addressed to: The Town Clerk, P.O. Box 329, Penrith, N.S.W. 2750

Telephone: 21 0214

In reply please quote:

	F	PERMIT NOE/377/76
	BUILDING PERMIT	EF. GG
ISSUED IN RESPECT OF LOT NO.	11 D.P.	House No.
STREET Abbotts Road.	LOCALITY	St. Marys
	Owner's Name & Address	
G. Coleman, 10 Elisabeth St. PADDINGTON.	Flurs No. 1 P/L.	Applicant
Approved subject to compliance issued thereunder and condition below for the erection of	Dwelling 1-4, 9, 10,	11. 13 as set out or the value of \$ 16,000
This approval lapses on the ex		
Attention is drawn to the prov fencing of swimming pools) of right of appeal against the de at Council's office.	the Local Government Act, 19 cision of the Council. Appe	19, as amended, giving a all forms are available
Date19.11.76	- 6	ipal Building Inspector
	19 Prince	ipal Building Inspector
Floor Area	Material	B, V.
CONDITIONS:		
DWELLING AND SIDE BOUNDAR. THE OVERHANGING OF THE EA	MUST BE PROVIDED BETWEEN EX IES. A CLEAR 675 mm MUST BE VES AND GUTTERING AND THE SI	PROVIDED BETWEEN
before foundations are la: building has been erected reinforced structural cond the building has been ered and when the building is a not be used or occupied up	riting be given to Council fid, foundations before trenc to floor level and dampcour crete work is in position pr cted to roof framing, drains completed and ready for occu ntil approval is granted by	hes are filled, the ses are laid, steel for ior to pouring of concrete before they are covered i pation. Building shall
	on and permit is to be kept	on site at all times.
Approved in compliance with and Drainage Board as star	th the conditions of the Met mped on plans.	ropolitan Water Sewerage
<ol> <li>A special inspection by Perplumbing and drainage in a Metropolitan Water Sewera</li> </ol>	enrith City Council must be respect to work outside the ge and Drainage Board.	obtained on all sanitary sewered areas of the
<ol><li>Council's Building Inspect being undertaken.</li></ol>	tor shall be consulted prior	to any drainage work
7. A sewered toilet shall be	provided for workmen during	building operations.
external drainage.	ne Water Board shall be obta	ined on all internal/
Roofwater drains shall be	discharged into street gutt	er or common line.
G. Sanitary accommodation sha Ordinance 44.	all be provided for workmen	in accordance with
Four courses minimu	um brickwork beneath bearers	
12 shall not be u	used for Living, Commercial	or Industrial purposes.
	be submitted for septic ta	A STATE OF THE PARTY OF THE PAR
14. CAUTION drain	nage easement at	
15. This land is subject to a ringbarking, cutting down, of any tree, except with t	Tree Preservation Order whi topping, lopping, removing the consent of Council.	ch prohibits the or wilful destruction

No fencing is to be erected in front of the adopted building alignment.

16.

OSSM1613/05 (02) 4732 8055

27 March 2019

M C Ciardi, J G Ciardi 50 Sundance Way RUNAWAY BAY QLD 4216

Dear Margaret Catherine Ciardi

John Gilbert Ciardi

Re: Approval to Operate an On-Site Sewage Management System
Lot 12 DP 253503, 59-62 Abbotts Road KEMPS CREEK NSW 2178

The Local Government Act 1993 and Penrith City Council's On-site Sewage Management and Greywater Reuse (OSMGR) Policy requires all on-site sewage management systems to have an operational approval. The Policy provides provisions for the administration and monitoring of on-site sewage management systems within the City.

Your previous operational approval has or is about to expire. Please find attached a copy of your current operational approval. Based on the provisions of the OSMGR Policy, your operational approval is valid until 27 March 2022. A charge of \$67 applies for this approval and will be added to your next rates notice.

It is important that you read your approval as you are required to operate your system in accordance with the attached conditions at all times.

Council does not need to inspect your system at present. However should an inspection be required in the future, Council will contact you to make suitable arrangements.

Please note that failure to comply with your approval can result in further action such as on-the-spot fines of \$330.

Should you have any questions relating to this matter, please contact the Environmental Health Department on (02) 4732 8055 during normal business hours.

Yours faithfully

On behalf of the Manager **Environmental Health and Compliance Department** 

Document Set ID: 8633608 Version: 1, Version Date: 27/03/2019



#### APPROVAL TO OPERATE A SYSTEM OF SEWAGE MANAGEMENT

LOCAL GOVERNMENT (GENERAL) REGULATION 2005

Approval has been granted to: Margaret Catherine Ciardi

John Gilbert Ciardi

For the operation of the Sewage Lot 12 DP 253503

Management System installed at: 59-62 Abbotts Road KEMPS CREEK NSW 2178

System type: Septic Tank

Approval Issue Date: 27 March 2019

Expiry Date of this Approval: 27 March 2022

#### THIS APPROVAL IS SUBJECT TO THE FOLLOWING CONDITIONS:

- 1. This approval extends to concurrent owners and occupiers of the premises where the system is installed.
- 2. The owner must provide a copy of this approval to all current tenants and/or occupiers of the property that the approval relates.
- 3. Access must be provided to an authorised Council Officer to carry out inspections in accordance with sections 191 to 194 of the Local Government Act 1993, of any premises, facilities or records related to the operation of the on-site sewage management system.
- 4. No alterations or additions to the on-site sewage management system are permitted without the written approval of Council.
- 5. The system must be managed and operated to achieve the performance standards as set out in clause 44 of the Local Government (General) Regulation 2005. These are:
  - i. the prevention of the spread of disease by microorganisms,
  - ii. the prevention of the spread of foul odours,
  - iii. the prevention of the contamination of waters,
  - iv. the prevention of the degradation of soil and vegetation,
  - v. the discouragement of insects and vermin,
  - vi. ensuring that persons do not come into contact with untreated sewage or effluent (whether treated or not) in their ordinary activities on the premises concerned.
  - vii. the minimisation of any adverse impacts on the amenity of the premises and surrounding lands.
  - viii. if appropriate, provision for the re-use of resources (including nutrients, organic matter and water).

- 6. The system must be operated so as to allow the removal of any treated or untreated sewage or by-product of sewage in a safe and sanitary manner.
- 7. All wastewater generated on the property including greywater and blackwater is to be directed to the on-site sewage management system unless otherwise approved in writing by Penrith City Council.
- 8. The system must be operated and maintained in accordance with the relevant operating specifications and procedures for the component facilities, so as to allow disposal of treated sewage in a safe and sanitary manner.
- 9. The conditions of any certificate of accreditation issued by the Director-General of the Department of Health under the Local Government (General) Regulation 2005 in respect of the plans or designs for any components of the on-site sewage management system must be complied with.
- All house drainage and sanitary plumbing shall be carried out in accordance with the requirements of the Plumbing and Drainage Act 2011 and the Plumbing Code of Australia.
- All plumbing and drainage work shall be carried out by a licensed plumber and drainer.
- 12. Tank lids shall not be permanently covered. The join between the lid and the tank shall be exposed and remain sealed to ensure surface water cannot enter the tank.
- 13. The ground surrounding the tanks is to be graded and drained to prevent water ponding around the tanks.
- 14. The inspection holes/caps on the tanks are to be clear and easily accessible.
- 15. The on-site sewage management system must be operated in a manner which must not discharge effluent into any watercourse or onto land other than its related effluent disposal area.
- 16. The system shall be operated in such a way as to prevent any run-off of effluent from the effluent disposal area.
- 17. All stormwater and seepage from higher levels shall be diverted away from the effluent disposal area/s by a suitable drain or earth mound. Such drains/mounds shall be maintained in a satisfactory condition at all times.
- 18. Any wastes (inclusive of petroleum based products, biocides and acids) that have an adverse effect on the performance of the system shall not be discharged into the on-site sewage management system.
- 19. Liquid trade wastes are not to be discharged directly into the on-site sewage management system unless otherwise approved in writing by Penrith City Council.
- 20. Effluent from the on-site sewage management system is not to be used on fruit or vegetables grown for human consumption.
- 21. The effluent disposal area is not to be used for recreational purposes or vehicular access or storage.

Document Set ID: 8633608 Version: 1, Version Date: 27/03/2019

- 22. No paths, concreting, garages or any other structure shall be constructed over any portion of the effluent disposal area.
- 23. The effluent disposal area is to be mown on a regular basis to ensure the system operates in a satisfactory manner.
- 24. Livestock are to be prevented from damaging the on-site sewage management system, including the associated effluent disposal area.
- 25. Should more then one effluent disposal area be used, the system must be installed to ensure that an effluent disposal area is available at all times.
- 26. No deep rooted trees or shrubs should be grown over the effluent disposal area.

Yours Faithfully

**Environmental Health and Compliance Department** 

FB:DT E/1509/83 Mr. F. Bechert (32 7512)

15 September, 1988

Mr. J. Ciardi, Lot 12 Abbots Road, KEMPS CREEK 2171.

Dear Mr. Ciardi,

Garage/Storeroom -Lot 12 Abbots Road, Kemps Creek

I refer to your recent amended plans and advise that Council cannot approve your application for the storeroom as the building has already been erected.

Council however raises no objection to the building remaining on the site.

Yours faithfully,

B.B. Long MA General Manager.

roted Spot



## Penrith City Council

All communications to be addressed to: The Town Clerk, P.O. Box 329, Pennth. N.S.W. 2750 (DX 8017, Pennth)

Administrative Centre, 114-116 Henry Street, Penrith Your Ref.: Telephone: (047) 32 2422 Telex: Pencit AA 72490

Our Ref

			E/595/84
	BUILDING PERMIT	REF.	HG
SSUED IN RESPECT OF LOT NO.	The state of the s		1
STREET Abbotts Rd.	LOCALITY	The second second	
Applicant's Name & Address	Owner's Name & Addre	ess Builde	r's Name & Addre
Mr. J. Ciardi Lot 12 Abbotts Rd., KEMPS CREEK	Applicant		Indus-r. P/Lto naroon Rd.,
oproved subject to compliance	with the Local Governments No'd. 2-5.16.	ent Act, relev	ant Ordinances
ssued thereunder and condition plow for the erection of	ennis courts	for the va	lue of \$ 15,600
nis approval lapses on the exp	iration of 12 months af	ter the date	hereof.
ettention is drawn to the provi- encing of swimming pools) of t ight of appeal against the dec t Council's office.	he Local Government Actision of the Council.	Appeal forms  Oleve	ended, giving a are available
	F	rincipal Buil	ding Inspector
oor Area	Material		
AND SIDE BOUNDARIES. A CLEAR OF THE EAVES AND GUTTERING A  2. That 48 hours' notice in writing (a) of trenches before found (b) of foundations before to (c) when the building has be are laid; (d) of flashing and damp-properties and W.C.) prior (e) when steel for reinforce prior to pouring of cond (f) when the building has be (g) of drains before they are (h) when the building is conditionally and the building i	and the SIDE BOUNDARIES.  Iting be given to Councidations are laid; renches are filled; renches are filled; ren erected to floor level to cladding; red structural concrete werete; ren erected to roof framer covered in; and	l for inspecti el and dampcou . bathrooms, l ork is in posi ing;	on:- rses aundries,
. Building shall not be used o		•	by Council.
Stamped plans, specification	and permit shall be kep	t on site at a	ll times.
Approved in compliance with Sewerage and Drainage Board		etropolitan Wa	ter,
. A special inspection by Penn plumbing and drainage in res Metropolitan Water, Sewerage	spect of work outside th		
. Council's Building Inspector being undertaken.	shall be consulted pri	or to any drai	nage work
. A sewered toilet shall be pr	rovided for workmen duri	ng building op	erations.
. A special inspection by the	Water Board shall be ob	tained on all	internal/

10. Roofwater drains shall be discharged into street gutter or common line.

11. Sanitary accommodation shall be provided for workmen in accordance with

external drainage.

12.	purposes.	shall not be used for Living, Commercial or Industrial
13.	Separate application	n shall be submitted for septic tank installation.
14.	CAUTION:	drainage electricity easement at

15. This land is subject to a Tree Preservation Order which prohibits the ringbarking, cutting down, topping, lopping, removing or wilful destruction of any tree, except with the consent of Council.

16. Tennis court is to be fof private use only.

Any illumination of the court is to be so arranged that it does not create a nuisance to adjoining properties.



## Penrith City Council

All communications to be addressed to: The Town Clerk, P.O. Box 329, Pennth, N.S.W. 2750 (DX 8017, Pennth)

Administrative Centre, 114-116 Henry Street, Penrith

Your Ref

Telephone: (047) 32 2422 Telex: Pencit AA72490

Our Ref: PS.EY E/1509/83

Contact: Mr P. Summergreene 8.30-9.30 am.

	P	ERMIT NO. E/1509/83
	BUILDING PERMIT R	EF. PS
ISSUED IN RESPECT OF LOT NO. 1	2 D.P.	House No.
STREET ABBOTTS ROAD	LOCALITY KEMPS	CREEK
Applicant's Name & Address	Owner's Name & Address	Builder's Name & Address
Mr Hohn Ciardi Lot 12 Abbotts Road KEMPS CREEK	APPLICANT	Target Buildings P/L Lot 12 Abbotts Road KEMPS CREEK
Approved subject to compliance w issued thereunder and conditions below for the erection of <b>gar</b>	No'd. 2- 7.9.10.22.13.1	7,18,29,30,30
This approval lapses on the expi	ration of 12 months after	the date hereof.
Attention is drawn to the provising of swimming pools) of the right of appeal against the decimat Council's office.  Date	e Local Government Act, 19 sion of the Council. Appe	19, as amended, giving a
Floor Area		CK/CONC/TILES
CONDITIONS:  1. IMPORTANT. A CLEAR 900mm MUS  AND SIDE BOUNDARIES. A CLEAR OF THE EAVES AND GUTTERING AN  (a) of trenches before foundar (b) of foundations before trenches be	675mm MUST BE PROVIDED BET D THE SIDE BOUNDARIES. ing be given to Council for tions are laid; nches are filled; n erected to floor level an fing of wet areas (viz. bat to cladding;	inspection:- d dampcourses hrooms, laundries,
(e) when steel for reinforced prior to pouring of concre (f) when the building has been (g) of drains before they are	ete; n erected to roof framing; covered in; and	
(h) when the building is comp		
(3) Building shall not be used or		
(4) Stamped plans, specification and (5). Approved in compliance with the Sewerage and Drainage Board as	ne conditions of the Metrop	
A special inspection by Penrit plumbing and drainage in respe Metropolitan Water, Sewerage a	ct of work outside the sew	ained on all sanitary ered areas of the
Council's Building Inspector s being undertaken.	hall be consulted prior to	any drainage work
8. A sewered toilet shall be prov	ided for workmen during bu	ilding operations.
A special inspection by the Wa	ter Board shall be obtained	on all internal/
10. Roofwater drains shall be disc	harged into street gutter o	or common line.
Ordinance 44.		

_	2.
(12)	GARAGE shall not be used for Living, Commercial or Industrial purposes.
(3)	Separate application shall be submitted for septic tank installation.
14.	CAUTION: drainage
	electricity easement at
15.	This land is subject to a Tree Preservation Order which prohibits the ringbarking, cutting down, topping, lopping, removing or wilful destruction of any tree, except with the consent of Council
16.	No fencing is to be erected in front of the adopted building alignment.
0	The subfloor ground area shall be treated for termites in accordance with AS.2057 and the Certificate provided for Council's records.
18,	The floor level of concrete slabs for habitable rooms shall be a minimum of 225mm above surrounding finished ground level.
19.	All surface and seepage water shall be diverted clear of the dwelling and disposed to Council's satisfaction. Note: Council will require permanent surface drains to all excavated areas and depressions and the invert of the drain shall be a minimum of 225mm below finished habitable floor level and shall be graded 1:100 to the stormwater system or to a point satisfactory to Council's Health and Building Surveyor.
20.	Concrete raft slab/suspended concrete slab shall be designed by a practising Structural Engineer and details provided for Council's consideration and approval prior to the commencement of any building work.
21.	The subfloor ground level shall be higher than the adjoining external finished ground and path levels to Council's satisfaction. (CONDITION APPLIES TO BEARERS AND JOIST CONSTRUCTION ONLY).
22.	A minimum 200mm shall be provided between the finished subfloor ground level and the underside of the bearers.
23.	The dwelling shall be set out by a registered Surveyor and a check survey shall be submitted for Council's consideration and approval once the brickwork has commenced above floor level.  WARNING: The builder is responsible for ensuring the building is located on the site in accordance with the approval and Council may require any departures from the approval to be rectified.
24.	The structural adequacy of the existing footings and the ground floor structure to support the proposed additional loading shall be certified by a practising Structural Engineer and a copy of the Certificate forwarded to Council prior to commencement of any building work.
25.	Separate details of the fireplace and chimney construction shall be submitted to Council for consideration and approval prior to the commencement of work. NOTE: Such details shall be in accordance with Ord. 70, Part 25.
26.	An exhaust fan shall be provided to the bathroom/WC/Ensuite/Laundry and shall be so connected to enable simultaneous operation with the light switch and shall exhaust to the outside air.
27.	Any exhaust fan in a canopy over a stove shall be ducted in a metal or non-combustible duct through the roof to the outside air to Council's satisfaction.
28.	Metal skillion roofs shall be provided with an acceptable means of insulation between the ceiling and roofing material to Council's satisfaction.
29)	Manufacturer's details of roof trusses are to be submitted for Council's consideration and approval prior to the installation of the trusses.
30)	Floor surface of internal W.C./laundry/bathroom/ensuite and the like shall be graded and drained in accordance with the requirements of Clause 47.8(1) of Ordinance 70.
31.	All structural steel beams/columns shall be certified by a practising Structural Engineer and the Certification submitted for Council's approval prior to their installation.
32.	The carport/garage/structure is to be painted externally to Council's satisfaction.
33.	The proposed building is not to be used or adapted for use for separate residential occupancy.
	Any fencing which encroaches a building alignment shall be subject to a building animalian

- 34. Any fencing which encroaches a building alignment shall be subject to a building application for Council's consideration.
- 35. Timber fencing fronting a Public Reserve or Walkway shall be of lapped, capped and stained construction. Any alternative fencing shall be subject to Council's approval prior to erecting.
- 36. A vehicular gutter crossing shall be provided to facilitate access of a motor vehicle behind the adopted building line to Council's satisfaction.
- 37. All excavated and filled banks shall be retained to Council's satisfaction.
- 38. All footings shall be taken to an adequate natural foundation material or, alternatively, designed by a practising Structural Engineer.
- 39. The garage/retaining walls/footings shall be certified by a practiting Structural Engineers and the full structural details submitted for Council's approval prior to commencement of any building work.



# Penrith City Council

Council Chambers, Station Street, Penrith, N.S.W.

All communications to be addressed to: The Town Clerk, P.O. Box 329, Penrith, N.S.W. 2750

Telephone: 32 2422 (C.D.E. 8017, Penrith)

(STD 047)

In reply please quote:

			PERMIT NOE/820/79_
		BUILDING PERMIT	REF. GB
ISS	UED IN RESPECT OF LOT NO	12 D.P.	House No.
	EET Abbotts Road		
100000000000000000000000000000000000000	pplicant's Name & Address	Owner's Name & Address	
1	obert Guernier, 2 Abbotts Road, emps Creek.	Applic.	Applic.
issu		No'd. 1-5,9-10,12- Dwelling	13,17-19 as set out for the value of \$40,000
Atter fenc: right	approval lapses on the exp.  ntion is drawn to the provi- ing of swimming pools) of to t of appeal against the dec.  puncil's office.	sions of Section/s 317L (a	and 288C in regard to 1919, as amended, giving a
Date	15.8.79	10% Pri	Cincipal Building Inspector
Floor	r Area	Material	B/V
EOND:	ITIONS:		777800
0	IMPORTANT. A CLEAR 900 mm I DWELLING AND SIDE BOUNDARIN THE OVERHANGING OF THE EAVE	ES. A CLEAR 675 mm MUST	BE PROVIDED BETWEEN
(2,)	before foundations are laid building has been erected treinforced structural conc	d, foundations before tree to floor level and dampcoor rete work is in position ; ted to roof framing, drain ompleted and ready for occ	urses are laid, steel for prior to pouring of concret as before they are covered cupation. Building shall
Ø2	Stamped plan, specification	n and permit is to be kept	on site at all times.
6	Approved in compliance with and Drainage Board as stam		etropolitan Water Sewerage
(5)	A special inspection by Per plumbing and drainage in re Metropolitan Water Sewerage	espect to work outside the	obtained on all sanitary sewered areas of the
6.	Council's Building Inspecto being undertaken.	or shall be consulted pric	or to any drainage work
7.	A sewered toilet shall be	provided for workmen durin	ng building operations.
8.	A special inspection by the external drainage.	e Water Board shall be obt	tained on all internal/
(D.	Roofwater drains shall be	discharged into street gu	tter or common line.
10.	Sanitary accommodation shall Ordinance 44.	ll be provided for workmen	n in accordance with
11.	courses minimum	m brickwork beneath beare:	.83
13).	Garage shall not be us		
	Separate application shall		tank installation.
14.	CAUTION drains		
15.	This land is subject to a ringbarking, cutting down, of any tree, except with the	topping, lopping, removir	
16.	No fencing is to be erected	d in front of the adopted	building alignment.

- The floor level of concrete slabs for habitable rooms shall be a minimum of 150mm above surregarding ground level and any excavated area around the perimeter of the slab is to be drained by approved surface drainage discharging to natural ground level (with a minimum fall of 1:100) in a manner so as to prevent ponding on site".
- 19. Floor surface of internal W.C./Laundry shall be graded and drained in accordance with the requirements of clause 47.8 (1) Ordinance 70.



## Penrith City Council

Council Chambers, Station Street, Penrith, N.S.W.

All communications to be addressed to: The Town Clerk, P.O. Box 329, Penrith, N.S.W. 2750

Telephone: **XXXXXX** (047) 32 2422

(C.D.E. 8017, Penrith)

In reply please quote:

				PERMIT	NO. E/511/78	
		BUILDIN	NG PERMIT	REF.	<b>G</b> B	
15	SUED IN RESPECT OF LOT NO.	12	D P	House	No	
ST	REET Abbotts Rd		LOCALITY	Kem	ps Creek	
	Applicant's Name & Address					
3	R.C. Guernier, 178 Neville St., SMITHFIELD	Applica	ant	App	licant.	
App iss bel	roved subject to compliance used thereunder and conditions ow for the erection of	with the L s No'd.	ocal Governmen 2,3,4,9,10,	for the	levant Ordinances as set out value of \$ 4000	
Thi	s approval lapses on the exp	iration of	12 months aft	er the da	ite hereof.	
fen rig at	ention is drawn to the provincing of swimming pools) of the tof appeal against the deconnoil's office.	sions of S he Local G	ection/s 317L overnment Act, he Council. A	(and 2880 1919, as	in regard to amended, giving a ms are available	
Date	22.6.78		12 3	Land	uilding Inspector	
E1						
	or Area		Material _	Iron		
	DITIONS:					
1.	IMPORTANT. A CLEAR 900 mm N DWELLING AND SIDE BOUNDARIE THE OVERHANGING OF THE EAVE	S. A CLEA	AR 675 mm MUST	RE PROVI	DED BETWEEN	
(C)	That 48 hours notice in wribefore foundations are laid building has been erected treinforced structural concrathe building has been erect and when the building is conot be used or occupied unt	o floor la ete work i ed to roof	ions before tr evel and dampo is in position f framing, dra and ready for a	enches are ourses are prior to ins before	e filled, the e laid, steel for pouring of concrete e they are covered i	
0						
0	Stamped plan, specification and permit is to be kept on site at all times.  Approved in compliance with the conditions of the Metropolitan Water Sewerage and Drainage Board as stamped on plans.					
5.	A special inspection by Penrith City Council must be obtained on all sanitary plumbing and drainage in respect to work outside the sewered areas of the Metropolitan Water Sewerage and Drainage Board.					
6.	Council's Building Inspecto being undertaken.	r shall be	consulted pr	ior to any	drainage work	
7.	A sewered toilet shall be p	rovided fo	r workmen dur:	ing buildi	ng operations.	
8.	A special inspection by the external drainage.					
62	Roofwater drains shall be d	ischarged	into street go	itter or c	common line.	
100.	Sanitary accommodation shall Ordinance 44.					
11.	courses minimum	brickwork	beneath bear	ers.		
(12)	SHEO shall not be use	ad for Liv	ing, Commercia	al or Indu	strial purposes.	
13.	Separate application shall be	oe submitt	ed for septic	tank inst	allation.	
14.	CAUTION drainag					
15.	This land is subject to a Tr ringbarking, cutting down, t of any tree, except with the	consent	opping, removi of Council.	ng or wil	ful destruction	
16.	No fencing is to be erected	in front	of the adopted	building	alignment.	

17. The internal masonry walls shall be constructed to Council's satisfaction.



# Penrith City Council

Council Chambers, Station Street, Penrith, N.S.W.

All communications to be addressed to: The Town Clerk, P.O. Box 329, Penrith, N.S.W. 2750

Telephone: 21 0214

In reply please quote:

				PERMIT NO.	E/376/76
		BUILDIN	G PERMIT	REF.	GG
ISSUED IN	RESPECT OF LOT NO	12	D.P.	_ House No.	
	Abbotts Roa				
Applican	it's Name & Address	Owner's	Name & Address	Builder	's Name & Addres
	sabeth St.	Flurs	No. 1 Pty. Lt	d. Applic	ant
	bject to compliance we sunder and conditions he erection of				
	al lapses on the expi				
fencing of right of ap at Council'		ne Local G ision of t	overnment Act, he Council. Ap	1919, as ame	nded, giving a re available
Date	19.11.76		10 4	Course	
			100 Pri	ncipal Build	ing Inspector
Floor Area			Material	B.V.	
CONDITIONS:					
DWELLI	ANT. A CLEAR 900 mm M NG AND SIDE BOUNDARIE ERHANGING OF THE EAVE	S. A CLE	AR 675 mm MUST	BE PROVIDED I	BETWEEN
before building reinforthe building and who not be	8 hours notice in wri foundations are laid ng has been erected t reed structural concr ilding has been erect en the building is co used or occupied unt	d, foundat to floor 1 ete work ed to roo mpleted a il approv	ions before tre evel and dampco is in position f framing, drai nd ready for oc al is granted b	nches are fil urses are la: prior to pour ns before the cupation. Bu y Council.	lled, the id, steel for ring of concrete ey are covered i uilding shall
Approve	d plan, specification ed in compliance with	the cond	itions of the M		
and Dra	ainage Board as stamp	ed on pla	ns.		
plumbir	ial inspection by Pen ng and drainage in re olitan Water Sewerage	spect to	work outside th	e obtained or e sewered are	n all sanitary eas of the
6. Council being t	l's Building Inspecto undertaken.	r shall be	e consulted pri	or to any dra	sinage work
7. A sewer	red toilet shall be p	rovided fo	or workmen duri	ng building o	perations.
aut anne	ial inspection by the al drainage.	Water Bo	ard shall be ob	tained on all	. internal/
9. Roofwat	ter drains shall be d	ischarged	into street gu	tter or commo	on line.
O Sanitar Ordinar	ry accommodation shal nce 44.	1 be provi	ided for workmen	n in accordar	nce with
1	courses minimum	brickwork	k beneath beare	rs.	
	ge shall not be us				
3/ Separat	te application shall			tank installa	ition.
4. CAUTION	Vdraina				
ringbar	and is subject to a T king, cutting down, tree, except with th	topping. 1	Lopping, removi	hich prohibit ng or wilful	s the destruction

No fencing is to be erected in front of the adopted building alignment.

16.



Separate details from a practising structural engineer showing the constituction of the footings and floor slab and also indicating the S.A.A. codes used to derive the computations.

The gound floor level shall be a minimum 150mm above finished external ground level.



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: 100269 Your Reference: 92352.00

Contact No: Issue Date: 29 May 2019 Certificate No: 19/02114

Issued to: Douglas Partners Pty Ltd

18 Waler Crescent

**SMEATON GRANGE NSW 2567** 

PRECINCT 2010

#### **DESCRIPTION OF LAND**

County: CUMBERLAND Parish: MELVILLE

**Location:** 59-62 Abbotts Road KEMPS CREEK NSW 2178

**Land Description:** Lot 12 DP 253503

#### - 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 2010, published 22nd September 2010, as amended, 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.1 - Development Standards. (Note: This policy does not apply to the land to which Penrith Local Environmental Plan 2010 or State Environmental Planning Policy (Western Sydney Employment Area) 2009 apply.)

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.)

State Environmental Planning Policy No.21 - Caravan Parks.

State Environmental Planning Policy No.33 - Hazardous and Offensive Development.



PO Box 60 Penrith NSW 2751

Facsimile: 02 4732 7958

Telephone: 02 4732 7777

Email: pencit@penrithcity.nsw.gov.au

#### PLANNING CERTIFICATE UNDER SECTION 10.7

**Environmental Planning and Assessment Act, 1979** 

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 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) 2013.

State Environmental Planning Policy (Miscellaneous Consent Provisions) 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 (Education Establishments and Child Care Centre Facilities) 2017.

State Environmental Planning Policy (Primary Production and Rural Development) 2019.

State Environmental Planning Policy (Western Sydney Employment Area) 2009 applies to the land.

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:

An Annual Update Amendment Planning Proposal applies to this land.

The Planning Proposal seeks to resolve several policy changes, contemporise certain elements and undertake "housekeeping" changes which are minor in nature. (See <a href="www.penrithcity.nsw.gov.au">www.penrithcity.nsw.gov.au</a> for details).

Draft State Environmental Planning Policy (Western Sydney Corridors) may apply to the land. Further information is available here: <a href="https://www.transport.nsw.gov.au/corridors">https://www.transport.nsw.gov.au/corridors</a>.

On 22 June 2018, the NSW Government announced changes to the recommended alignments for the Western Sydney corridors, including continuing with the previously gazetted 1951 corridor for the Bells Line of Road Castlereagh Connection.

Draft State Environmental Planning Policy (Primary Production & Rural Development) applies to 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 Standard Instrument (Local Environmental Plans) Order 2006 applies to the land.



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** 

Draft State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 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.

#### 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).)

## **Zone RU2 Rural Landscape** (Penrith Local Environmental Plan 2010)

#### 1 **Objectives of zone**

- To encourage sustainable primary industry production by maintaining and enhancing the natural resource base.
- To maintain the rural landscape character of the land.
- To provide for a range of compatible land uses, including extensive agriculture.
- To minimise conflict between land uses within the zone and land uses within adjoining zones.
- To preserve and improve natural resources through appropriate land management practices.
- To ensure development is compatible with the environmental capabilities of the land and does not unreasonably increase the demand for public services or public facilities.

#### 2 **Permitted without consent**

Extensive agriculture; Home occupations

#### 3 **Permitted with consent**

Agricultural produce industries; Agriculture; Animal boarding or training establishments; Aquaculture; Building identification signs; Business identification signs; Cellar door premises; Cemeteries; Community facilities; Crematoria; Dual occupancies; Dwelling houses; Environmental facilities; Environmental protection works; Farm buildings; Flood mitigation works; Forestry; Funeral homes; Helipads; Home-based child care; Home businesses; Home industries; Information and education facilities; Places of public worship; Public administration buildings; Recreation areas; Recreation facilities (outdoor);



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** 

Roads; Roadside stalls; Rural supplies; Schools; Secondary dwellings; Stock and sale yards; Tourist and visitor accommodation; Veterinary hospitals

#### 4 Prohibited

Hotel or motel accommodation; Serviced apartments; Any other development not specified in item 2 or 3

## Flood planning

All or part of the subject land is identified in Penrith Local Environmental Plan 2010 (PLEP 2010) Clause 7.2 Flood Planning. Development consent is required for any development on land to which Clause 7.2 of PLEP 2010 applies.

#### **Rural subdivision**

Under the terms of Clause 4.2 of Penrith Local Environmental Plan 2010 land in Zone RU1 Primary Production, Zone RU2 Rural Landscape, Zone RU4 Primary Production Small Lots or Zone RU6 Transition may, with development consent, be subdivided for the purpose of primary production to create a lot of a size that is less than the minimum size shown on the Penrith Local Environmental Plan 2010 Lot Size Map in relation to that land. Such a lot cannot be created if an existing dwelling would, as a result of the subdivision, be situated on the lot; and a dwelling cannot be erected on such a lot.

# Residential development and subdivision prohibited in certain rural, residential and environment protection zones

Under the terms of Clause 4.2A of Penrith Local Environmental Plan 2010 (PLEP 2010) on land within Zone RU1 Primary Production, Zone RU2 Rural Landscape, Zone RU4 Primary Production Small Lots, Zone RU5 Village, Zone R5 Large Lot Residential, Zone E3 Environmental Management or Zone E4 Environmental Living development consent must not be granted for the erection of a dwelling house on a lot resulting from the closure of part or all of a road, whether before or after the commencement of this Plan. This requirement does not apply to a lot created by the consolidation of a lot resulting from a road closure with an adjoining lot that did not result from a road closure.

#### Additional information relating to Penrith Local Environmental Plan 2010

- **Note 1**: Under the terms of Clause 2.4 of Penrith Local Environmental Plan 2010 development may be carried out on unzoned land only with development consent.
- **Note 2**: Under the terms of Clause 2.6 of Penrith Local Environmental Plan 2010 land may be subdivided but only with development consent, except for the exclusions detailed in the clause.
- **Note 3**: Under the terms of Clause 2.7 of Penrith Local Environmental Plan 2010 the demolition of a building or work may be carried out only with development consent.
- **Note 4**: A temporary use may be permitted with development consent subject to the requirements of Clause 2.8 of Penrith Local Environmental Plan 2010.
- **Note 5**: Under the terms of Clause 4.1A of Penrith Local Environmental Plan 2010, despite any other provision of this plan, development consent must not be granted for dual occupancy on an internal lot in Zone R2 Low Density Residential.



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** 

**Note 6**: Under the terms of Clause 5.1 of Penrith Local Environmental Plan 2010 development on land acquired by an authority of the State under the owner-initiated acquisition provisions may, before it is used for the purpose for which it is reserved, be carried out, with development consent, for any purpose.

- **Note 7**: Under the terms of Clause 5.3 of Penrith Local Environmental Plan 2010 development consent may be granted to development of certain land for any purpose that may be carried out in an adjoining zone.
- **Note 8**: Clause 5.10 of Penrith Local Environmental Plan 2010 details when development consent is required/not required in relation to heritage conservation.
- **Note 9:** Under the terms of Clause 5.11 of Penrith Local Environmental Plan 2010 bush fire hazard reduction work authorised by the *Rural Fires Act 1997* may be carried out on any land without development consent.
- **Note 10**: Under the terms of Clause 7.1 of Penrith Local Environmental Plan 2010 (PLEP 2010) development consent is required for earthworks unless the work is exempt development under PLEP 2010 or another applicable environmental planning instrument, or the work is ancillary to other development for which development consent has been given.
- **Note 11**: Sex services premises and restricted premises may only be permitted subject to the requirements of Clause 7.23 of Penrith Local Environmental Plan 2010.
- 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.)

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.)



PO Box 60 Penrith NSW 2751

rith 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** 

### 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 25 ANEF contour or a higher ANEF contour. 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 in the 25 ANEF contour or a higher ANEF contour, unless the development is only for the erection of ancillary development, attached development or detached development or the alteration of or an addition to ancillary development, attached development or detached development. Complying development **may** be carried out on any part of the land that is not in the 25 ANEF contour or a higher ANEF contour. Contact Council for the location of the 25 ANEF contour or higher ANEF contour.

#### 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 25 ANEF contour or a higher ANEF contour. If the land is within the relevant zones complying development under the General Housing Code **may not** be carried out on any part of the land that is in the 25 ANEF contour or a higher ANEF contour, unless the development is only for the erection of ancillary development, attached development or detached development or the alteration of or an addition to ancillary development, attached development or detached development. Complying development **may** be carried out on any part of the land that is not in the 25 ANEF contour or a higher ANEF contour. Contact Council for the location of the 25 ANEF contour or higher ANEF contour.

## LOW RISE MEDIUM DENSITY HOUSING CODE

(The Low Rise Medium Density Housing 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 25 ANEF contour or a higher ANEF contour. If the land is within the relevant zones complying development under the Low Rise Medium Density Housing Code may not be carried out on any part of the land that is in the 25 ANEF contour or a higher ANEF contour, unless the development is only for the erection of ancillary development, attached development or detached development or the alteration of or an addition to ancillary development, attached development or detached development. Complying development may be carried out on any part of the land that is not in the 25 ANEF contour or a higher ANEF contour. Contact Council for the location of the 25 ANEF contour or higher ANEF contour.



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** 

Please note that Council has been deferred from the application of Part 3B of the Low Rise Medium Density Housing Code until 1 July 2019. That Part will not apply to Penrith Local Government Area during this time.

#### 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 25 ANEF contour or a higher ANEF contour. 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 in the 25 ANEF contour or a higher ANEF contour, unless the development is only for the erection of ancillary development, attached development or detached development or the alteration of or an addition to ancillary development, attached development or detached development. Complying development may be carried out on any part of the land that is not in the 25 ANEF contour or a higher ANEF contour. Contact Council for the location of the 25 ANEF contour or higher ANEF contour.

### 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.)



PO Box 60 Penrith NSW 2751

Facsimile: 02 4732 7958

Telephone: 02 4732 7777

Email: pencit@penrithcity.nsw.gov.au

# PLANNING CERTIFICATE UNDER SECTION 10.7

**Environmental Planning and Assessment Act, 1979** 

Complying development under the Commercial and Industrial (New Buildings and Alterations) Code **may** be carried out on the land if the land is within one of the abovementioned zones.

#### 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 not affected by any 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.

# 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).



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** 

#### *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

No environmental planning instrument or proposed environmental planning instrument referred to in clause 1 makes provision in relation to the acquisition of the land 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.

#### *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. (Note. biodiversity certified land includes land certified under Part 7AA of the Threatened Species Conservation Act 1995 that is taken to be certified under Part 8 of the *Biodiversity Conservation Act* 2016.))

#### **BIODIVERSITY STEWARDSHIP SITES** *10*

(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. Note. Biodiversity stewardship



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** 

agreements include biobanking agreements under Part 7A of the Threatened Species Conservation Act 1995 that are taken to be biodiversity stewardships agreements under Part 5 of the *Biodiversity* Conservation Act 2016)

#### NATIVE VEGETATION CLEARING SET ASIDES 10A

(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).

#### 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.)

#### SITE COMPATIBILITY CERTIFICATES AND CONDITIONS AFFECTING SENIORS 15 **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.)



PO Box 60 Penrith NSW 2751

7 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** 

### 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.)



PO Box 60 Penrith NSW 2751

Facsimile: 02 4732 7958

Telephone: 02 4732 7777

Email: pencit@penrithcity.nsw.gov.au

# PLANNING CERTIFICATE UNDER SECTION 10.7

**Environmental Planning and Assessment Act, 1979** 

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))

# 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).

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 <a href="www.penrithcity.nsw.gov.au">www.penrithcity.nsw.gov.au</a>. 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.

## \* Threatened Species Conservation Act 1995

When considering any development application Council must have regard to the Threatened Species Conservation Act 1995. 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.



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** 

# \* 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.

# \* Scenic and Landscape Values

The land is identified as "Land with Scenic and Landscape Values" on the Penrith Local Environmental Plan 2010 Scenic and Landscape Values Map. See Clause 7.5 of Penrith Local Environmental Plan 2010 and Chapter C1 Site Planning and Design of Penrith Development Control Plan 2014.

# \* 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.

## \* Dual Occupancy and Secondary Dwellings Controls

See Clause 7.10 of Penrith Local Environmental Plan 2010 for specific controls relating to dual occupancy and secondary dwellings in Zones RU1, RU2, RU4, E3 and E4.

# \* 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**



PO Box 60 Penrith NSW 2751

Facsimile: 02 4732 7958

Telephone: 02 4732 7777

Email: pencit@penrithcity.nsw.gov.au

# PLANNING CERTIFICATE UNDER SECTION 10.7

**Environmental Planning and Assessment Act, 1979** 

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/

## \* 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 affected by the 20 - 25 ANEF and the 25 - 30 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

Certificate No. 19/02114 Lot 12 DP 253503 Page No. 14



PO Box 60 Penrith NSW 2751

h 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** 

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: <a href="http://westernsydneyairport.gov.au">http://westernsydneyairport.gov.au</a>))

Warwick Winn General Manager

**PER** 

Hargia



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** 

#### **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.



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: 100250 Your Reference: 92352.00

Contact No: Issue Date: 29 May 2019 Certificate No: 19/02115

Issued to: Douglas Partners Pty Ltd

18 Waler Crescent

SMEATON GRANGE NSW 2567

PRECINCT 2010

#### **DESCRIPTION OF LAND**

County: CUMBERLAND Parish: MELVILLE

**Location:** 63-72 Abbotts Road KEMPS CREEK NSW 2178

**Land Description:** Lot 11 DP 253503

#### - 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 2010, published 22nd September 2010, as amended, 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.1 - Development Standards. (Note: This policy does not apply to the land to which Penrith Local Environmental Plan 2010 or State Environmental Planning Policy (Western Sydney Employment Area) 2009 apply.)

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.)

State Environmental Planning Policy No.21 - Caravan Parks.

State Environmental Planning Policy No.33 - Hazardous and Offensive Development.



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** 

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 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) 2013.

State Environmental Planning Policy (Miscellaneous Consent Provisions) 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 (Education Establishments and Child Care Centre Facilities) 2017.

State Environmental Planning Policy (Primary Production and Rural Development) 2019.

State Environmental Planning Policy (Western Sydney Employment Area) 2009 applies to the land.

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:

An Annual Update Amendment Planning Proposal applies to this land.

The Planning Proposal seeks to resolve several policy changes, contemporise certain elements and undertake "housekeeping" changes which are minor in nature. (See www.penrithcity.nsw.gov.au for details).

Draft State Environmental Planning Policy (Western Sydney Corridors) may apply to the land. Further information is available here: https://www.transport.nsw.gov.au/corridors.

On 22 June 2018, the NSW Government announced changes to the recommended alignments for the Western Sydney corridors, including continuing with the previously gazetted 1951 corridor for the Bells Line of Road Castlereagh Connection.

Draft State Environmental Planning Policy (Primary Production & Rural Development) applies to 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 Standard Instrument (Local Environmental Plans) Order 2006 applies to the land.



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** 

Draft State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 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.

#### 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).)

# **Zone RU2 Rural Landscape** (Penrith Local Environmental Plan 2010)

#### 1 **Objectives of zone**

- To encourage sustainable primary industry production by maintaining and enhancing the natural resource base.
- To maintain the rural landscape character of the land.
- To provide for a range of compatible land uses, including extensive agriculture.
- To minimise conflict between land uses within the zone and land uses within adjoining zones.
- To preserve and improve natural resources through appropriate land management practices.
- To ensure development is compatible with the environmental capabilities of the land and does not unreasonably increase the demand for public services or public facilities.

#### 2 **Permitted without consent**

Extensive agriculture; Home occupations

#### 3 **Permitted with consent**

Agricultural produce industries; Agriculture; Animal boarding or training establishments; Aquaculture; Building identification signs; Business identification signs; Cellar door premises; Cemeteries; Community facilities; Crematoria; Dual occupancies; Dwelling houses; Environmental facilities; Environmental protection works; Farm buildings; Flood mitigation works; Forestry; Funeral homes; Helipads; Home-based child care; Home businesses; Home industries; Information and education facilities; Places of public worship; Public administration buildings; Recreation areas; Recreation facilities (outdoor);



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** 

Roads; Roadside stalls; Rural supplies; Schools; Secondary dwellings; Stock and sale yards; Tourist and visitor accommodation; Veterinary hospitals

## 4 Prohibited

Hotel or motel accommodation; Serviced apartments; Any other development not specified in item 2 or 3

# Flood planning

All or part of the subject land is identified in Penrith Local Environmental Plan 2010 (PLEP 2010) Clause 7.2 Flood Planning. Development consent is required for any development on land to which Clause 7.2 of PLEP 2010 applies.

## **Rural subdivision**

Under the terms of Clause 4.2 of Penrith Local Environmental Plan 2010 land in Zone RU1 Primary Production, Zone RU2 Rural Landscape, Zone RU4 Primary Production Small Lots or Zone RU6 Transition may, with development consent, be subdivided for the purpose of primary production to create a lot of a size that is less than the minimum size shown on the Penrith Local Environmental Plan 2010 Lot Size Map in relation to that land. Such a lot cannot be created if an existing dwelling would, as a result of the subdivision, be situated on the lot; and a dwelling cannot be erected on such a lot.

# Residential development and subdivision prohibited in certain rural, residential and environment protection zones

Under the terms of Clause 4.2A of Penrith Local Environmental Plan 2010 (PLEP 2010) on land within Zone RU1 Primary Production, Zone RU2 Rural Landscape, Zone RU4 Primary Production Small Lots, Zone RU5 Village, Zone R5 Large Lot Residential, Zone E3 Environmental Management or Zone E4 Environmental Living development consent must not be granted for the erection of a dwelling house on a lot resulting from the closure of part or all of a road, whether before or after the commencement of this Plan. This requirement does not apply to a lot created by the consolidation of a lot resulting from a road closure with an adjoining lot that did not result from a road closure.

# Additional information relating to Penrith Local Environmental Plan 2010

- **Note 1**: Under the terms of Clause 2.4 of Penrith Local Environmental Plan 2010 development may be carried out on unzoned land only with development consent.
- **Note 2**: Under the terms of Clause 2.6 of Penrith Local Environmental Plan 2010 land may be subdivided but only with development consent, except for the exclusions detailed in the clause.
- **Note 3**: Under the terms of Clause 2.7 of Penrith Local Environmental Plan 2010 the demolition of a building or work may be carried out only with development consent.
- **Note 4**: A temporary use may be permitted with development consent subject to the requirements of Clause 2.8 of Penrith Local Environmental Plan 2010.
- **Note 5**: Under the terms of Clause 4.1A of Penrith Local Environmental Plan 2010, despite any other provision of this plan, development consent must not be granted for dual occupancy on an internal lot in Zone R2 Low Density Residential.



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** 

**Note 6**: Under the terms of Clause 5.1 of Penrith Local Environmental Plan 2010 development on land acquired by an authority of the State under the owner-initiated acquisition provisions may, before it is used for the purpose for which it is reserved, be carried out, with development consent, for any purpose.

- **Note 7**: Under the terms of Clause 5.3 of Penrith Local Environmental Plan 2010 development consent may be granted to development of certain land for any purpose that may be carried out in an adjoining zone.
- **Note 8**: Clause 5.10 of Penrith Local Environmental Plan 2010 details when development consent is required/not required in relation to heritage conservation.
- **Note 9:** Under the terms of Clause 5.11 of Penrith Local Environmental Plan 2010 bush fire hazard reduction work authorised by the *Rural Fires Act 1997* may be carried out on any land without development consent.
- **Note 10**: Under the terms of Clause 7.1 of Penrith Local Environmental Plan 2010 (PLEP 2010) development consent is required for earthworks unless the work is exempt development under PLEP 2010 or another applicable environmental planning instrument, or the work is ancillary to other development for which development consent has been given.
- **Note 11**: Sex services premises and restricted premises may only be permitted subject to the requirements of Clause 7.23 of Penrith Local Environmental Plan 2010.
- 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.)

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.)



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** 

#### 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 25 ANEF contour or a higher ANEF contour. 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 in the 25 ANEF contour or a higher ANEF contour, unless the development is only for the erection of ancillary development, attached development or detached development or the alteration of or an addition to ancillary development, attached development or detached development. Complying development may be carried out on any part of the land that is not in the 25 ANEF contour or a higher ANEF contour. Contact Council for the location of the 25 ANEF contour or higher ANEF contour.

#### 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 25 ANEF contour or a higher ANEF contour. If the land is within the relevant zones complying development under the General Housing Code may not be carried out on any part of the land that is in the 25 ANEF contour or a higher ANEF contour, unless the development is only for the erection of ancillary development, attached development or detached development or the alteration of or an addition to ancillary development, attached development or detached development. Complying development may be carried out on any part of the land that is not in the 25 ANEF contour or a higher ANEF contour. Contact Council for the location of the 25 ANEF contour or higher ANEF contour.

## LOW RISE MEDIUM DENSITY HOUSING CODE

(The Low Rise Medium Density Housing 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 25 ANEF contour or a higher ANEF contour. If the land is within the relevant zones complying development under the Low Rise Medium Density Housing Code may not be carried out on any part of the land that is in the 25 ANEF contour or a higher ANEF contour, unless the development is only for the erection of ancillary development, attached development or detached development or the alteration of or an addition to ancillary development, attached development or detached development. Complying development may be carried out on any part of the land that is not in the 25 ANEF contour or a higher ANEF contour. Contact Council for the location of the 25 ANEF contour or higher ANEF contour.



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** 

Please note that Council has been deferred from the application of Part 3B of the Low Rise Medium Density Housing Code until 1 July 2019. That Part will not apply to Penrith Local Government Area during this time.

#### 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 25 ANEF contour or a higher ANEF contour. 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 in the 25 ANEF contour or a higher ANEF contour, unless the development is only for the erection of ancillary development, attached development or detached development or the alteration of or an addition to ancillary development, attached development or detached development. Complying development may be carried out on any part of the land that is not in the 25 ANEF contour or a higher ANEF contour. Contact Council for the location of the 25 ANEF contour or higher ANEF contour.

### 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.)



PO Box 60 Penrith NSW 2751

Facsimile: 02 4732 7958

Telephone: 02 4732 7777

Email: pencit@penrithcity.nsw.gov.au

# PLANNING CERTIFICATE UNDER SECTION 10.7

**Environmental Planning and Assessment Act, 1979** 

Complying development under the Commercial and Industrial (New Buildings and Alterations) Code may be carried out on the land if the land is within one of the abovementioned zones.

#### 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 not affected by any 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.

# 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 and the item Noted below).

Note: Council has adopted by resolution a policy on contaminated land which may restrict the development of the land. This policy, Chapter C4 of Penrith Development Control Plan 2014, is implemented when zoning or land use changes are proposed on lands which have previously been used for certain purposes. Consideration of council's adopted policy and the application of provisions under relevant State legislation is warranted.

### (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



PO Box 60 Penrith NSW 2751

Facsimile: 02 4732 7958

Telephone: 02 4732 7777

Email: pencit@penrithcity.nsw.gov.au

# PLANNING CERTIFICATE UNDER SECTION 10.7

**Environmental Planning and Assessment Act, 1979** 

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

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

flood related development controls may apply.

No environmental planning instrument or proposed environmental planning instrument referred to in clause 1 makes provision in relation to the acquisition of the land 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.

# 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*. (Note. biodiversity certified land includes land certified under Part 7AA of the *Threatened Species Conservation Act 1995* that is taken to be certified under Part 8 of the *Biodiversity Conservation Act 2016*.))



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** 

### 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. Note. Biodiversity stewardship agreements include biobanking agreements under Part 7A of the *Threatened Species Conservation Act 1995* that are taken to be biodiversity stewardships agreements under Part 5 of the *Biodiversity Conservation Act 2016*)

#### 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).

### 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



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** 

(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.)

#### SITE COMPATIBILITY CERTIFICATES FOR INFRASTRUCTURE 16

(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.)



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** 

(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))

#### AFFECTED BUILDING NOTICES AND BUILDING PRODUCT RECTIFICATION 21 **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).

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.

# \* Threatened Species Conservation Act 1995

When considering any development application Council must have regard to the Threatened Species Conservation Act 1995. Please note that this legislation may have application to any land throughout



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** 

the city. Interested persons should make their own enquiries in regard to the impact that this legislation could have on this land.

# \* 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.

# \* Scenic and Landscape Values

The land is identified as "Land with Scenic and Landscape Values" on the Penrith Local Environmental Plan 2010 Scenic and Landscape Values Map. See Clause 7.5 of Penrith Local Environmental Plan 2010 and Chapter C1 Site Planning and Design of Penrith Development Control Plan 2014.

# \* 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.

# \* <u>Dual Occupancy and Secondary Dwellings Controls</u>

See Clause 7.10 of Penrith Local Environmental Plan 2010 for specific controls relating to dual occupancy and secondary dwellings in Zones RU1, RU2, RU4, E3 and E4.

## \* 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



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** 

## **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/

\* Council holds environmental report(s) relating to the subject property. Copies of the report(s) are available from Council for inspection by interested persons. Interested persons should satisfy themselves as to the state of the land and in relation to any matter or thing, including any documents referred to in, or disclosed by, this notation.

### Report Details:

Report title: Targeted Environmental Assessment

63-72 Abbotts Rd, Kemps Creek.

Prepared by: Aargus Pty Ltd

P.O. Box 398 Drummoyne

NSW 2047 (02) 9588 9030

Dated: October 2000 Council ref. no: File 100250



PO Box 60 Penrith NSW 2751

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** 

## \* 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 affected by the 20 - 25 ANEF and the 25 - 30 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: <a href="http://westernsydneyairport.gov.au">http://westernsydneyairport.gov.au</a>))



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** 

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.

# Appendix F

Tittle Deeds



**ABN: 36 092 724 251 Ph: 02 9099 7400** (Ph: 0412 199 304)

Level 14, 135 King Street, Sydney Sydney 2000 GPO Box 4103 Sydney NSW 2001 DX 967 Sydney

# **Summary of Owners Report**

<u>LRS NSW</u> <u>Sydney</u>

Address: - 59 to 72 Abbotts Road, Kemps Creek

Description: - Lots 11 and 12 in D.P 253503

## As regards Lot 11 in D.P. 253503

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale			
25.08.1913 (1913 to 1944)	Sarah Thompson (Widow) (& her deceased estate)	Book 1007 No 765			
30.06.1944 (1944 to 1949)	Fletcher & Pickett Proprietary Limited	Book 1946 No 974			
17.03.1949 (1949 to 1960)	Littleham Proprietary Limited	Book 2080 No 255			
16.05.1960 (1960 to 1960)	Stockwell Holdings Proprietary Limited	Book 2531 No 203			
16.09.1960 (1960 to 1971)	Mainline Enterprises Proprietary Limited (now L.C. O'Neil Enterprises Pty. Limited)	Book 2545 No 99			
06.05.1971 (1971 to 1973)	Unit Constructions Pty. Limited	Book 3009 No 357 Now Vol 11968 Fol 173			
09.11.1973 (1973 to 1977)	Number One Fleurs Pty. Limited	Vol 11968 Fol 173 Now Vol 13277 Fol 9			
18.07.1977 (1977 to 1995)	Vukosav Sekulic (Labourer) (& ger deceased estate)	Vol 13277 Fol 9 Now 11/253503			
20.01.1995 (1995 to 2004)	Antanios Pty Ltd	11/253503			
21.09.2004 (2004 to 2013)	Said Antanios Juliette Antanios	11/253503			
22.03.2013 (2013 to date)	# Gregory Clark # Cubicon Pty Ltd (Transfer Under Power of Sale not investigated)	11/253503			

# Denotes current registered proprietor

Leases: - NIL

Easements: - NIL



**ABN: 36 092 724 251 Ph: 02 9099 7400** (Ph: 0412 199 304)

Level 14, 135 King Street, Sydney Sydney 2000 GPO Box 4103 Sydney NSW 2001 DX 967 Sydney

# As regards Lot 12 in D.P. 253503

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale				
25.08.1913 (1913 to 1944)	Sarah Thompson (Widow) (& her deceased estate)	Book 1007 No 765				
30.06.1944 (1944 to 1949)	Fletcher & Pickett Proprietary Limited	Book 1946 No 974				
17.03.1949 (1949 to 1960)	Littleham Proprietary Limited	Book 2080 No 255				
16.05.1960 (1960 to 1960)	Stockwell Holdings Proprietary Limited	Book 2531 No 203				
16.09.1960 (1960 to 1971)	Mainline Enterprises Proprietary Limited (now L.C. O'Neil Enterprises Pty. Limited)	Book 2545 No 99				
06.05.1971 (1971 to 1973)	Unit Constructions Pty. Limited	Book 3009 No 357 Now Vol 11968 Fol 173				
09.11.1973 (1973 to 1977)	Number One Fleurs Pty. Limited	Vol 11968 Fol 173 Now Vol 13277 Fol 10				
26.09.1977 (1977 to 1980)	Robert Carl Guernier (Tyre Retailer) Jean Guernier (Married Woman)	Vol 13277 Fol 10				
10.09.1980 (1980 to date)	# John Gilbert Ciardi # Margaret Catherine Ciardi	Vol 13277 Fol 10 Now 12/253503				

# # Denotes current registered proprietor

Leases: - NIL

Easements: - NIL

Yours Sincerely, Matthew Hillerman (checked by Mark Groll) 7 June 2019

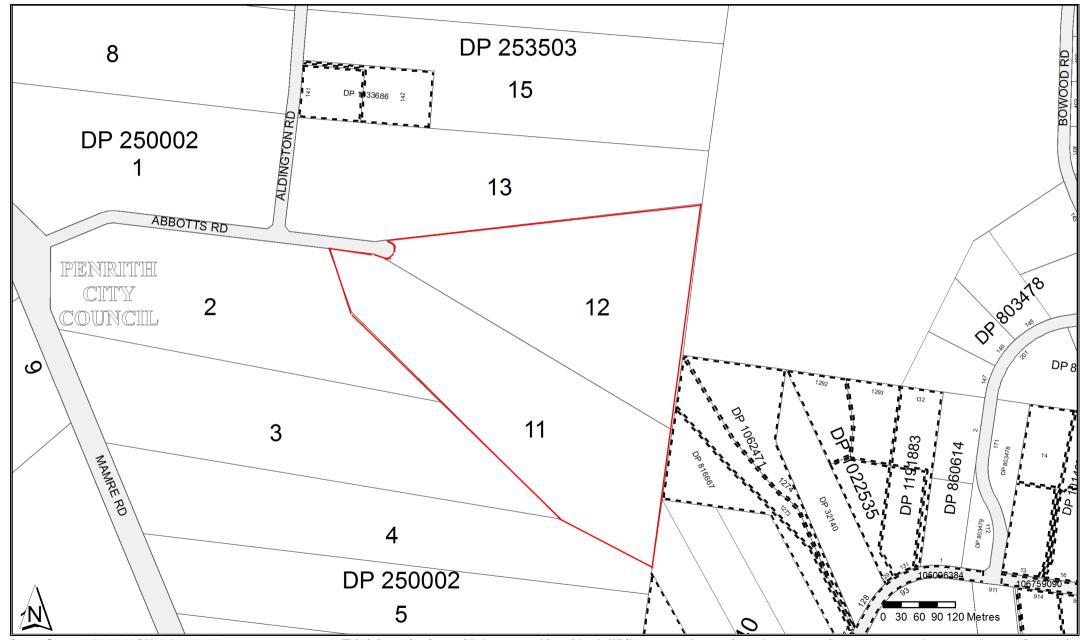


# Cadastral Records Enquiry Report: Lot 12 DP 253503

Locality: KEMPS CREEK

Parish: MELVILLE

LGA : PENRITH County : CUMBERLAND



Page 1 of 3

Ref: kemps creek

PERSONS ARE CAUTIONED AGAINST ALTERING OR ADDING TO THIS CERTIFICATE OR ANY NOTIFICATION HEREON

NEW SOUTH WALLES



Appln. No. 48377

PROPERTY ACT, 1900

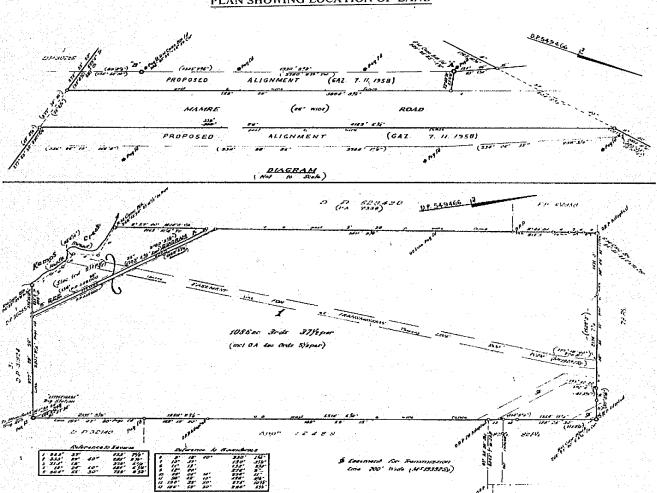
1972 Edition issued

WARNING: THIS DOCUMENT MUST NOT BE REMOVED FROM THE LAND TITLES OFFICE

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

Registrar General.

# PLAN SHOWING LOCATION OF LAND



ESTATE AND LAND REFERRED TO

Estate in Fee Simple in Lot 1 in Deposited Plan 549466 at St. Marys in the City of Penrith Parish of Melville and County of Cumberland being part of Portion 61 granted to Nicholas Bayly on 1-1-1810. FIRST SCHEDULE

CONSTRUCTION

SECOND SCHEDULE

Reservations and conditions, if any, contained in the Crown Grant above referred to. Easement for Electricity Transmission Line created by notification in Government Gazette of 16-8-1963 Folios 2387 to 2389 affecting the strip of land shown as "Easement for Transmission Line 200' Wide (Ms.19097Sy)" in the plan hereon. Easement for Electricity Transmission Line created by notification in Government Gazette of 16-10-1964 Folios 3203 to 3205 affecting the strip of land shown as "Easement for Transmission Line 200'Wide (Ms.19392Sy.)" in the plan hereon.

Registrar General.

pages)

	N2095 : -4
	Missis
Janistian /	N8458249 m
Journan	- 5 m R
Mil Army grame Miller Market of States Assessment States and States Assessment States and States Assessment States and States Assessment States and States	20250505
	93/5/5/1/ P711482 PEX

Signature of Registrar General



Appln No.48377

Prior Title Vol. 11968 Fol. 173



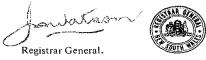
12886 Fol. 210

**EDITION ISSUED** 

29

1975

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

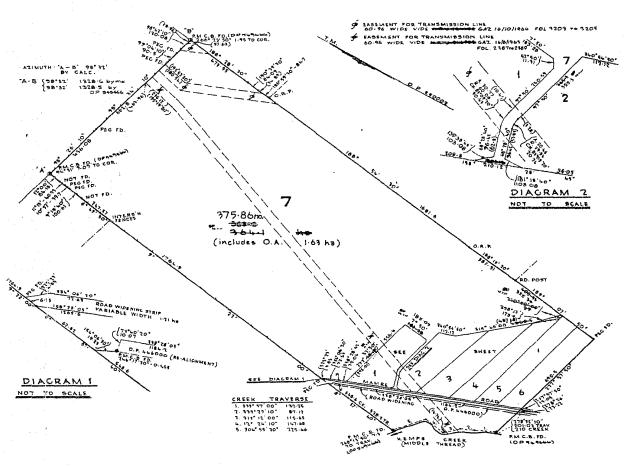




#### PLAN SHOWING LOCATION OF LAND

LENGTHS ARE IN METRES





Estate in Fee Simple in Lot 7 in Deposited Plan 250002 at St.Marys in the City of Penrith Parish of Melville and County of Cumberland being part of Portion 61 granted to Nicholas Bayly on 1-1-1810.

NUMBER ONE FLEURS PTY. LIMITED.

PERSONS ARE CAUTIONED AGAINST ALTERING OR ADDING TO THIS CERTIFICATE OR ANY NOTIFICATION HEREON

#### FIRST SCHEDULE

#### SECOND SCHEDULE

- 1. Reservations and conditions, if any, contained in the Crown Grant above referred to.
- 2. Easement for Electricity Transmission Line created by notification in Government Gazette of 16-8-1963 Folios 2387,2388 and 2389 affecting the piece of land above described shown as "Easement for Transmission Line 60.96 metres wide vide Gaz. 16-8-1963 Fol.2387 to 2389" in the plan hereon.

  3. Easement for Electricity Transmission Line created by notification in Government
- Gazette of 16-10-1964 Folios 3203,3204 and 3205 affecting the piece of land above described shown as "Easement for Transmission Line 60.96 metres wide vide Gaz. 16-10-1964 Fol.3203 to 3205" in the plan hereon.
- 4. Mortgage No. N643526 to Finance Corporation of Australia Limited. Entered 15-1-1974.

2.5	
	Farage.
\$4.5	100
1.54%	
400	74 T
<b>D</b>	
()	
,0	
υ.	
₽	
$\simeq$	
$\infty$	<del></del>
1	
4	
1	1
	ļ
	1
	├
	1
٠ -ټـ	
~	
	l
	T.
	[
٠	
	j
	L
	[ ·
	<del></del>
	de
	1/10
	1 1
	1 (a
•	
	1
	8
	1-5
	1
	L
•	1
	ł
	1
	-
	1
	1

Req:R465656 /Doc:CT 12886-210 Ref:kemps creek /Src:M \ruge t oi t puges}

		0.	OKTERED PROPRIETOR	T		INSTRUMENT		r	T G
REGISTERED PROPRIETOR				NATURE	NUMBER	DATE	ENTERED	Signature of Registrar Genera	
			CONTRACTOR AND AN ADMINISTRATION OF THE PROPERTY OF THE PROPER						
	This deed	s cancelle	d as to the the ex mad						
· · · · · · · · · · · · · · · · · · ·	Nov Certif	icases of	Title have Issued on 15-3-1977-						
for lots in Plan No. 253503 as follows:-				f	NEW CERTIFICATE(S) OF TITLE ISSUING ON DP2 3503				
					NO DEALING TO BE REGISTERED WITHOUT REFERENCE TO SURVEY DRAFTING BRANCH				
	Lots 7 to	<u>19</u> Vol.	(32.7) Fol. 5 lol., respectively.						
		<u> </u>							
REGISTRAR GENERAL CONTINUE OF THE PROPERTY OF									
			State of the state						
			SECOND SCHEDULE (cont	inved)					
NATURE	INSTRUMENT I	DATE	PARTICULARS			Signature of Registrar General	(	CANCELLATION	
rtgage.	P568749		to Finance Corporation of Australia time lea	1 2	27-1-1976	Jantokarn			
veat	P1114821 -		as regards park being the land balanced labels in the plan			0			
			anneared to Carport N. P711482		1-7-1976	foulations			
AR INST	043793		Invariante created nursuant to Section 998 Convergencing A		· · · · · · · · · · · · · · · · · · ·		<del></del>		·

by the registration of Deposited Plan 253503 24.2.1977 THE INTEREST OF THE COUNCIL OF THE CITY OF PENRITH IN THE NEW ROADS SHOWN ON DP 253503 24.2.1977 The residue of land in this folio comprises New roads shownow 3 P 253503 REGISTRAR GENERAL

- GRY

Ref:kemps creek /Src:M

ICATE OF TITLE

PROPERTY ACT, 1900

13277009

WARNING: THIS DOCUMENT MUST NOT BE REMOVED FROM THE LAND TITLES OFFICE

NEW SOUTH WALES

Appln. No.48377

Prior Title Vol.12886 Fol.210



Vol. 13277 Fol. 9

**EDITION ISSUED** 

16 3 1977

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

CANCELLED

Registrar General.

Discharged Q186727

SEE AUTO FOLIO



#### PLAN SHOWING LOCATION OF LAND

LENGTHS ARE IN METRES

		LENGTHS ARE IN	METRES			
Standard Mark		P.P. 25350	اسسس			
### ### ### ### ### ### ### ### #### ####		T.M.		•	189.07	130
4 " " 7' 50' 00" 0.5 5 " " 57' 50' 00 0.5 6 " " 96' 33' 00 0.5	•			108:13:20:		173 173
8 Cont BIK 24"07" 40" 1:36	\	54	30-136 138 1151	T 88	ر أ	المراجع
	تتنبغه \	18B 18A 3	/*** /		30.48'20 \$57 33	*/\
	20 00 00 00 00 00 00 00 00 00 00 00 00 0	\	ا وا	180	1	٠,
8 (1.) Carter to 100 20 20 20		/ 2/	<u>č</u> / <i>2/</i>	3/8 (3 /2	12 11.011	à lege
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\\ \text{\varepsilon} \var	16 15			
Topuse Co	· · ·	18 17	10.19 - 10	of ane.		/
عَلَّهُ اللهُ عَلَيْهِ عَلِيهِ عَلَيْهِ عَلِيهِ عَلَيْهِ عَلِيهِ عَلَيْهِ عَلِيهِ عَلَيْهِ عَلَيْهِ عَلَيْهِ عَلَيْهِ عَلَيْهِ عَلَيْهِ عَلِيهِ عَلَيْهِ عَلَيْ عِلْمِ عَلَيْهِ عَلَيْهِ عَلَيْهِ عَلَيْهِ عَلِي عَلِي عَلِي عَلِي عَلِي عَلَيْهِ عَلَيْهِ عَلَيْهِ عَلَّهِ عَلَيْهِ عَلِي عَلِم		10:16   10	(g) (g) (mr.	25 0 SI's	W. J. Salls Co.	1
(A) Eschille C		6, ", 9	\(\frac{\partial}{2}{2}\)	g/2 5/	0/2/300	\ 3
<del></del>		. da		in 708h2	(1) Any 3 1	1 2
(B) CENTRE UNE	/	2		25 25 25 25 25 25 25 25 25 25 25 25 25 2	3	
(1957/9·20* 296 (2)		_ \	1 44 23 00 (62 00 00 00 00 00 00 00 00 00 00 00 00 00	132 yes	6 C) (E)	820021
1	/	141 35 000 00 000 000 000 000 000 000 000 00	20 165 X	4		5-
24, 10. (463.96)	or Fo	THE THE PROPERTY OF	GAZ. 16 8-C5 (8) 1 Fols. 2	2387-7 60 96 WIDE		8 3 1 A
48)		Towers	The Contract	INE GO 36 WIDE FALLS		
		13	المالية	21/2 E		
$\setminus$ $\downarrow$	<del>19</del>		10° 10° 10° 10° 10° 10° 10° 10° 10° 10°		E Francis	20"
b inc	244.8 h2.		711.12	9 1 1077	100 / 120 cycle	
		335	10	10.13 1	S. W. T. C. S.	
Ţ		\$	/ /		216	5 8
186 00 10 10 10 10 10 10 10 10 10 10 10 10			169	163		5/8
		1401-9 9- 72' 00 90' 70 St		MANGING CHOST	8 - 72 AL 20.	<u> </u>
600	100.61 5 8 45 30	101 10	5) <b>Flagment it simm water</b>	MAKING CHOM (6.96 2.81 2 155'00 2.81 193'10 2.82 193'10 2.83 193'10 2.83 193'10 3.83 193'10 3.83 193'		뼥
12.00 To 10.00	9-18-40	•	3wiae.	1 2 200 to 1 3 05	DIAGI	SCALE

ESTATE AND LAND REFERRED TO

Estate in Fee Simple in Lot 11 in Deposited Plan 253503 at St.Marys in the City of Penrith Parish of Melville and County of Cumberland being part of Portion 61 granted to Nicholas Bayly on 1-1-1810.

FIRST SCHEDULE

NUMBER ONE FLEUR Y. LIMITED.

SECOND SCHEDULE

1. Reservations and conditions, if any, contained in the Crown Grant above referred to.

2. Mortgage No.N643526 to Finance Corporation of Australia Limited. Registered 15 1-1974.

3. Mortgage No.P568749 to Finance Corporation of Australia Limited. Registered 27-1-1976.

	FIRST SCHED	DULE (continued)				
	REGISTERED PROPRIETOR	NATURE	INSTRUMENT NUMBER	DATE	ENTERED	Signature of Registrar General
6	Vukosav Sekulic of Edensor Park, Labourer	Transfer	Q186728	DATE	18-7-1977	Server Server of
Fol.						
22						
132						
Vol.						
ř						

			SECOND SCHEDULE (continued)					
NATURE	INSTRUMENT NATURE NUMBER DATE		INSTRUMENT  JRE NUMBER DATE PARTICULARS		ENTERED Signature of Registrar General		CANCELLATION	
	<u> </u>							
				· <del> </del>			1	
					-			
					-			
						THE PROPERTY OF THE PROPERTY O		
	***************************************			-				
	Andrea and the state of the sta							
			***************************************				41.5	
	•							
	<u> </u>							
		L			1		·	

13277010

NEW SOUTH WALLES

Appln. No.48377

Prior Title Vol.12886 Fol.210

**EDITION ISSUED** 

16 1977

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



SECOND SCHEDULE

1. Reservations and conditions, if any, contained in the Crown Grant above referred to.

2. Mortgage No.N643526 to Finance Corporation of Australia Limited. Registered 15-1-1974. Discharged Q382693

3. Mortgage No.P568749 to Finance Corporation of Australia Limited. Registered 27-1-1976. Discharged Q382

GRY

PERSONS ARE CAUTIONED AGAINST ALTERING OR ADDING TO THIS CERTIFICATE OR ANY NOTIFICATION HEREON

FIRST SCHEDULE (continued)						A382693 of
REGISTERED PROPRIETOR		INSTRUMENT			Signature of	1 - 4 Te
	NATURE	NUMBER	DATE	ENTERED	Registrar Genera	-5m
bert Carl Cuermier, of Smithfield, Tyre Retailer and Jean Cuermier, his wife, as joint tenants	Transfer	9382694		26 9 1977	fe-	\$618614-21
rian Richard Samuels of Kemps Greek, Parate Enquiry Agent, and Kay Elizabeth Samuels his wife,			4			0812721 m
joint tenants.	Transfer	S25456		10-9-1980	k	5254558/m
m Gilbert Ciardi and Margaret Catherine Ciardi as joint tenants by Transfer T425152. Register	el 24-2-1983				Herris	5650
						<del></del>
				:	<del> </del>	T425152+
						-3~
						V7768290
	_		-			JY (1687-10)
					<del></del>	-

			SECOND SCHEDULE (continued)					
NATURE	INSTRUMENT NUMBER	DATE	PARTICULARS	ENTERED	Signature of Registrar General		CANCELLATION	
Mortgage - Mortgage	<del>Q302695</del> <del>Q812721</del>		to Number One Fleurs Pty. Limited.	26-9-1977 14-8-1978	k	Discharged Discharged	Q618614	le
<b>T4</b> 25153 Mort	gag <del>è to Aust</del> r	alia and Nev	Zealand Savings Bank Limited, Registered 24-2-1983		benin.	Discharged	\$25455 V776829	
			·					
- A								



# Historical Title



NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE

6/6/2019 4:36PM

FOLIO: 11/253503

\_\_\_\_\_

First Title(s): SEE PRIOR TITLE(S)
Prior Title(s): VOL 13277 FOL 9

Recorded	Number	Type of Instrument	C.T. Issue
5/6/1987		TITLE AUTOMATION PROJECT	LOT RECORDED FOLIO NOT CREATED
26/10/1987		CONVERTED TO COMPUTER FOLIO	FOLIO CREATED CT NOT ISSUED
17/9/1991	Z879425	CAVEAT	
12/11/1993		AMENDMENT: LOCAL GOVT AREA	
12/12/1994	U850191	TRANSMISSION APPLICATION	EDITION 1
30/1/1995	U975427	WITHDRAWAL OF CAVEAT	
30/1/1995		TRANSFER	
30/1/1995		MORTGAGE	EDITION 2
9/2/1999	5581877	DISCHARGE OF MORTGAGE	
	5581878		EDITION 3
9/10/2004	AB6244	DISCHARGE OF MORTGAGE	
9/10/2004		TRANSFER	
	AB6246	MORTGAGE	EDITION 4
17/1/2007	AC875324	DISCHARGE OF MORTGAGE	
17/1/2007	AC875325	MORTGAGE	EDITION 5
13/11/2007	AD560934	CAVEAT	
14/2/2012	AG810767	WITHDRAWAL OF CAVEAT	
22/3/2013	АН625740	TRANSFER BY MORTGAGEE UNDER POWER OF SALE	EDITION 6

\*\*\* END OF SEARCH \*\*\*

kemps creek

PRINTED ON 6/6/2019

Ref:k	RP3	AF	ANSMISSION PLICATION tion 93 Real Property Act 1900		U 850191 I
			Office of State	Revenue use only	
				+	
				_	
	· · · · · · ·				······································
(A)	Show no more than 20 References to Title.				
	Show no more than 20 References to Time.	Folio Id	dentifier 11/253	503	Į.
2					
(B)	REGISTERED DEALING		<del></del>		
	If applicable.				
					<del></del>
(C)	LODGED BY	L.T.O. Box	Name, Address or DX and Telepi	hone	
			NORTHWOO	DS	
		668L	DX 1175 5	YDNEY	
			RÉFERENCE (max. 15 character	s: sciglitano/se	ekulic
(D)	DECEASED REGISTERED	VUKOSAV S	EKULIC		
(2)	PROPRIETOR				***************************************
		****************	***************************************		
(E)	APPLICANT				
		TALA	NITA O'MEALY		_
					J
		<u> </u>			
1 1					
<b>(F)</b>	I, the Applicant, being entitled as E	xecutrix	of the will/estate	of the Deceased Registered Pro	oprietor (who
	died on 4th June 199	91) pursuant to P	robate/Letters of Administr	ration No	granted
	on28th January 1992	toANITA	O'MEALY (In the	Will called ANITA	SEKULIC)
	apply to be registered as proprietor of the	he estate or interest	of the Deceased Registered	Proprietor in the Land/Registe	ored Dealing
	specified above.			200 11 011	
(G)	Certified correct for the purposes of the	Real property Act	1900. DAT	B 30-11-94	
	Signed in my presence by the Applicant	t who is personally	known to me.		
.* 	Susan C. Hen Signature of Witness	(kes)			
×	SUSAN C. HE. Name of Witness (BLOCK LETTERS	NKES		C	_
>	343 Elm St. Ren Address of Witness	1090 ·	<b>X</b>	Signature of Applicant	Mely
	EVIDENCE SIGHTED & RETURNED (office us	se only)		CHECKED BY (office use only)	Otto
	Contact	へん ジザッカマッ	; /a		
<u>.                                    </u>	<u> </u>	-bte : (14545 -	141	does not p	recent
Aus	doc Commercial and Law Stationers	*Cauc	201 ZO11405	owes not P	rean.

Req:R485151 /Doc:DL U850191 /Rev:16-Mar-2010 /Sts:OK.SC /Pgs:ALL /Prt:06-Jun-2019 16:53 /Seq:2 of 2 Ref:kemps creek /Src:M

I)	CONSENT OF EXECUTOR OR ADMINISTRATOR				
	I, Executor of the will /Administrator of the estate				
	of the Deceased Registered Proprietor, hereby consent to this application.				
,					
	Signature of Witness				
	Name of Witness (BLOCK LETTERS)				
	Address of Witness Signature of Executor/Administrator				

#### INSTRUCTIONS FOR COMPLETION

STAMP DUTY: if the Applicant is a devisee, beneficiary, next-of-kin or otherwise beneficially entitled or if the Deceased Registered Proprietor died prior to 31 December 1981 the application must be presented to the Office of State Revenue prior to lodgment at the Land Titles Office.

- The Application must be completed clearly and legibly in permanent, dense, black or dark blue non-copying ink. If using a dot-matrix printer the
  print must be letter-quality.
- Do not use an eraser or correction fluid to make alterations: rule through rejected material. Initial each alteration in the lefthand margin.
- 3. If the space provided at any point is insufficient, you may annex additional pages. These must be the same size as the form; paper quality, colour. etc, must conform to the requirements set out in Land Titles Office Information Bulletin No. 19. All pages of any annexure must be signed by the person executing the Application and any attesting witness.
- 4. The following instructions relate to the marginal letters on the application.

#### (A) LAND

Show the relevant Reference to Title. If there are more than 20 show none in this panel. Place ALL of them on an annexure (see 3 above) with 20 per sheet.

## (B) REGISTERED DEALING

Show the registration number of any lease, mortgage or charge in regard to which the Applicant is applying to be registered as a proprietor.

## (C) LODGED BY

This section relates to the person or firm lodging the Application at the Land Titles Office.

Reference (max. 15 characters) This is optional. Any slashes, dots, blank spaces, etc, will be counted as characters.

## (D) DECEASED REGISTERED PROPRIETOR

Show the name in full. Address and occupation need not be shown.

#### (E) APPLICANT

Show the name in full. Address and occupation need not be shown.

### (F) WILL/ESTATE, etc.

Amend "will/estate", "Probate/Letters of Administration" and "Land/Registered Dealing" as appropriate.

In the relevant spaces show the capacity (executor, devisee, etc) in which the Applicant is entitled to apply, the number and date of grant of the Probate or Letters of Administration pursuant to which the application is made, and the name of the person to whom the grant was made.

## (G) EXECUTION

General The application must be executed by or on behalf of the Applicant.

By the Applicant Personally The application must be signed in the presence of an adult witness who is not an Applicant and who knows the party executing personally. The witness should complete the appropriate section of the application.

By the Applicant's Attorney The Power of Attorney must be registered in the General Register of Deeds at the Land Titles Office. The execution should take the form, "AB by her attorney XY [full name] pursuant to Power of Attorney Book 1234 Number 567".

**Under Authority** If the application is made pursuant to any statutory, judicial or other authority, except a Power of Attorney (see above), the nature of the authority should be disclosed.

By a Corporation under Seal The execution should include a statement that the seal has been properly affixed, for example, "... pursuant to a resolution of the board of directors ...". Alternatively, all those attesting the affixing of the seal must state their position in the corporation.

## (H) CONSENT OF EXECUTOR OR ADMINISTRATOR

This is required only where the Applicant claims to be entitled other than as executor, administrator or trustee.

The completed Application must be lodged by hand at the LAND TITLES OFFICE, Queen's Square, Sydney, together with the Certificate of Title, the probate or letters of administration (or a copy thereof certified by a solicitor to be a true copy) and a completed Notice of Sale.

If you have any questions about filling out the form, please call 228-6666 and ask for our Customer Services Branch.

	485152 /Doc:DL U975429 /Rev:12 emps creek /Src:M	2-Mar-2010 /Sts:OK.SC /Pgs:ALL /Prt:06-Jun-2019 16:53 /Seq:1 of
	RP13	TRANSFER Real Property Act. 1900 975429 P
	COULTON TO THE PARTY OF THE PAR	Office of State Revenue use puly
	Con S	200162 2005 04 00129099901
(A)	Show no more than 20 References to Title:	FOLIO IDENTIFIER 11/253503
	If appropriate, specify the share transferred.	
(B)	LODGED BY	L.T.O. Box Name, Address or DX and Telephone
:		
		764 DX 3817 CAMPSIE Tel 7894222
: .		764 SATION TO ASSOC DX 3817 CAMPSIE TEL 7894222 REFERENCE (max. 15 characters): 1094
11 -		
(C)	TRANSFEROR	ANITA O'MEALY
		. \$360.000 <sub>-</sub> 00
(D)	acknowledges receipt of the consideratio	ansfers to the transferee an estate in fee simple
Œ	subject to the following ENCUMBRANC	
<b>(F)</b>	TRANSFEREE	OS PTY LTD ACN 066 279 481
(G)		as joint tenants/tenants in common
	·	7-1,105
(H)	We certify this dealing correct for the pur	
	Signed in my presence by the transferor	who is personally known to me.
	V & Sher	
	Signature of Witness	na /
	KOGEL WILLIAM HERVY	ERS)
	X 3115 North las Alte	s X Unita Ullaly
	Chandler Address of Witness Chandler Arrzona	Signature of Transferor
	Signed in my presence by the transferee	who is personally known to me.
	Signature of Wilness	
	Name of Witness (BLOCK LETT	TATMON GILLIONS
	Address of Wimess	SOLICITOR Signature of Transferee
		ARE AVAILABLE FROM THE LAND TITLES OFFICE CHECKED BY (office use only)
	INSTRUCTIONS FOR FILLING OUT THIS FORM	ARE AVAILABLE FROM THE LAND TITLES OFFICE CHECKED BY (office use only)

Ausdoc Commercial and Law Stationers 1991

eq:R485153 /Doc:DL ef:kemps creek /Sro	AB006245 /Rev:12-Oct-2004 /Sts:SC.OK /Pg c:M	s:ALL /Prt:06-Jun-2019 16:53 /Seq:1 of
Form: 01T Licence: 01-05-02 Licensee: Robert V	( \ /	
STAMP DUTY	Office of State Revenue by  NSW Treesury Clent No: 3323749 1755 VENDOR DUTY ENDORSED Trans No: NOT LIAGE	
(A) TORRENS TITLE	If appropriate, specify the part transferred 11/253503	A STATE OF THE PROPERTY OF THE
(B) LODGED BY	Delivery Name, Address or DX and Telephone Box  Reference (optional):  ANTINI	First Title Secure PO Box Q1115 QVB Post Shop NSW 1230 PS (NT 5 Ph 5 8267 8130  CODES  T  (Sherif
(C) TRANSFEROR	Antanios Pty Ltd ACN 066 279 481	
(D) CONSIDERATION (E) ESTATE (F) SHARE TRANSFERRED (G)	The transferor acknowledges receipt of the consideration.  The land specified above transfers to the transferee and Encumbrances (if applicable)  1.	
%1.486	Said Antamos and Junette Antamos	
And executed on authorised person pursuant to the au Corporation: Ant Authority: Section	For its description of the Real Property Act 1900 behalf of the corporation named below by the m(s) whose signature(s) appears(s) below uthority specified.  tanios Pty Ltd ACN 066 279 481 on 127 Corporations Act  orised person:  Said Antanies  Sale Director/ 520 cetary	Signature of authorised person:  Name of authorised person:  Office held:
		Certified correct for the purposes of the Real Property Act 1900 by the person whose signature appears below.  Signature:  Signature:  Signatory's name: Robert Joseph Wehb Signatory's capacity: Solicitor for Transferee
	Page 1 of <u>1</u> number additional	



NEW SOUTH WALES LAND REGISTRY SERVICES - TITLE SEARCH

FOLIO: 11/253503

-----

 SEARCH DATE
 TIME
 EDITION NO
 DATE

 ---- --- --- 

 6/6/2019
 4:35 PM
 6
 22/3/2013

LAND

----

LOT 11 IN DEPOSITED PLAN 253503
AT ST.MARYS
LOCAL GOVERNMENT AREA PENRITH
PARISH OF MELVILLE COUNTY OF CUMBERLAND

TITLE DIAGRAM DP253503

FIRST SCHEDULE

GREGORY CLARK
CUBICON PTY LTD

AS TENANTS IN COMMON IN EQUAL SHARES

(TP AH625740)

SECOND SCHEDULE (1 NOTIFICATION)

-----

1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)

NOTATIONS

\_\_\_\_\_

UNREGISTERED DEALINGS: NIL

\*\*\* END OF SEARCH \*\*\*

kemps creek

PRINTED ON 6/6/2019



# Title



NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE

6/6/2019 4:36PM

FOLIO: 12/253503

First Title(s): SEE PRIOR TITLE(S) Prior Title(s): VOL 13277 FOL 10

Recorded	Number	Type of Instrument	C.T. Issue
5/6/1987		TITLE AUTOMATION PROJECT	LOT RECORDED FOLIO NOT CREATED
26/10/1987		CONVERTED TO COMPUTER FOLIO	FOLIO CREATED CT NOT ISSUED
21/6/1991	Z718673	MORTGAGE	EDITION 1
12/11/1993		AMENDMENT: LOCAL GOVT AREA	
1/6/1999 1/6/1999		DISCHARGE OF MORTGAGE MORTGAGE	EDITION 2
14/9/1999	6192373	DISCHARGE OF MORTGAGE	EDITION 3
13/11/2007	AD560921	CAVEAT	
14/2/2012	AG810589	WITHDRAWAL OF CAVEAT	
15/5/2018	AN339906	APPLICATION FOR REPLACEMENT CERTIFICATE OF TITLE	EDITION 4

\*\*\* END OF SEARCH \*\*\*



NEW SOUTH WALES LAND REGISTRY SERVICES - TITLE SEARCH

FOLIO: 12/253503

----

LAND

----

LOT 12 IN DEPOSITED PLAN 253503
AT ST.MARYS
LOCAL GOVERNMENT AREA PENRITH

PARISH OF MELVILLE COUNTY OF CUMBERLAND TITLE DIAGRAM DP253503

FIRST SCHEDULE

-----

JOHN GILBERT CIARDI MARGARET CATHERINE CIARDI

AS JOINT TENANTS

(T T425152)

SECOND SCHEDULE (2 NOTIFICATIONS)

-----

- 1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
- 2 AN339906 THIS EDITION ISSUED PURSUANT TO S.111 REAL PROPERTY ACT, 1900

NOTATIONS

-----

UNREGISTERED DEALINGS: NIL

\*\*\* END OF SEARCH \*\*\*

kemps creek

PRINTED ON 6/6/2019

# Appendix G

Photographic Plates



Photograph 1: Flytipping of Household rubbish located at Lot 11



Photograph 3: Site compound located at Lot 11



Photograph 2: Site compound located at Lot 11



Photograph 4: Temporary site compound located at Lot 11



CLIENT:	ESR Australia			Sit
OFFICE:	Macarthur	Prepared BY:	LAR	Pr
SCALE:	NTS	DATE:	Jun-19	59

Site Photographs 1 to 4
Preliminary Site Investigation for Contamination
59 - 63 Abbotts Road, Kemps Creek

PROJECT No:	92352.00
PLATE No:	1
REVISION:	0



Photograph 5: Stockpile of soil, anthropogenic and organic material located at Lot 11



Photograph 7: Driveway in front of the house and shed at Lot 11 (Looking south).



Photograph 6: Driveway that leads to the house and shed at Lot 11 (Looking northwest).



Photographs 8: Main dwelling Lot 11



CLIENT:	ESR Australia			Site Photographs 5 to 8
OFFICE:	Macarthur	Prepared BY:	LAR	Preliminary Site Investigation for Contamination
CALE:	NTS	DATE:	Jun-19	59 - 63 Abbotts Road, Kemps Creek

PROJECT No:	92352.00
PLATE No:	2
REVISION:	0



Photograph 9: Shed located west of the house, Lot11.



Photograph 11: Blue plastic drums observed to the northwest of the house Lot 11



Photograph 10: Shed walls of corrugated metal and PACM, Lot 11



Photograph 12: Blue plastic drums observed to the east of the house Lot 11



CLIENT:	ESR Australia			Site Photographs 9 to 12
OFFICE:	Macarthur	Prepared BY:	LAR	Preliminary Site Investigation for Contamination
SCALE:	NTS	DATE:	Jun-19	59 - 63 Abbotts Road, Kemps Creek

PROJECT No:	92352.00
PLATE No:	3
REVISION:	0



Photograph 13: Blue plastic drum labeled as Almond base (but empty) observed to the northwest of the house Lot 11



Photograph 15: Shipping containers located northwest side of the house Lot 11



Photograph 14: Shipping containers and three abandoned vehicles located northeast side of the house Lot 11



Photograph 16: IBC Containers Lot 11

	Douglas Bartes	-
	Douglas Partile	13
V	Douglas Partne	water

CLIENT:	ESR Australia			Site Photographs 13 to 16
OFFICE:	Macarthur	Prepared BY:	LAR	Preliminary Site Investigation for Contamination
SCALE:	NTS	DATE:	Jun-19	59 - 63 Abbotts Road, Kemps Creek

PROJECT No:	92352.00
PLATE No:	4
REVISION:	0



Photograph 17: Industrial drum container labelled Propylene Glycol UPS Grade, Lot 11



Photograph 19: Stockpile of paper waste, Lot 11



Photograph 18: Septic tank located east of the house, Lot 11



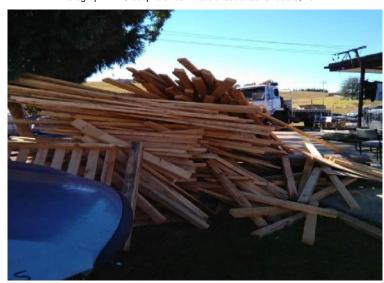
Photograph 20: Stockpiles that includes scrap metal, treated timber, stumps and debris from logging, and glass, Lot 11.



CLIENT:	ESR Australia			Site Photographs 17 to 20	PROJECT No:	92352.00
OFFICE:	Macarthur	Prepared BY:	LAR	Preliminary Site Investigation for Contamination	PLATE No:	5
SCALE:	NTS	DATE:	Jun-19	59 - 63 Abbotts Road, Kemps Creek	REVISION:	0



Photograph 21: Stockpile of commercial cool/freezer doors, Lot 11



Photograph 23: Stockpile of treated timber, Lot 11



Photograph 22: Surface debris of construction and demolition waste, Lot 11.



Photograph 24: Stockpile of tyres, Lot 12



CLIENT:	ESR Australia			Site Photographs 21 to 23
OFFICE:	Macarthur	Prepared BY:	LAR	Preliminary Site Investigation for Contamination
SCALE:	NTS	DATE:	Jun-19	59 - 63 Abbotts Road, Kemps Creek

PROJECT No:	92352.00
PLATE No:	6
REVISION:	0



Photograph 25: Stockpile of white goods , Lot 11



Photograph 27: An abandoned farm irrigation system with possible leakage of pesticides, lot 11



Photograph 26: Rusted above ground diesel storage tank, Lot 11



Photograph 28: First shed located within the market gardens with PACM in one of the walls lot 11

92352.00

7



CLIENT:	ESR Australia			Site Photographs 24 to 28	PROJECT No:
OFFICE:	Macarthur	Prepared BY:	LAR	Preliminary Site Investigation for Contamination	PLATE No:
SCALE:	NTS	DATE:	Jun-19	59 - 63 Abbotts Road, Kemps Creek	REVISION:



Photograph 29: Second shed with toilet, lot 11



Photograph 31: Water pump shed



Photograph 30: Small generator observed in the second shed, lot 11



Photograph 32: Small generator located at the water pump shed



CLIENT:	ESR Australia			Site Photographs 29 to 32
OFFICE:	Macarthur	Prepared BY:	LAR	Preliminary Site Investigation for Contamination
SCALE:	NTS	DATE:	Jun-19	59 - 63 Abbotts Road, Kemps Creek

PROJECT No:	92352.00
PLATE No:	8
REVISION:	0



Photograph 33: Chemical and fuel containers observed at the water pump shed, lot 11



Photograph 35: One out of the three abandoned cars observed adjacent to the sheds



Photograph 34: IBC container adjacent to the water pump shed, lot 11



Photograph 36: Second abandoned car observed near to the market garden at lot 11



CLIENT:	ESR Australia			Site Photographs 33 to 36	PROJECT No:	92352.00
OFFICE:	Macarthur	Prepared BY:	LAR	Preliminary Site Investigation for Contamination	PLATE No:	9
SCALE:	NTS	DATE:	Jun-19	59 - 63 Abbotts Road, Kemps Creek	REVISION:	0



Photograph 37: Surficial waste adjacent to the sheds, lot 11



Photograph 39: Surficial waste adjacent to the sheds, lot 11



Photograph 38: Surficial waste adjacent to the sheds, lot 11



Photograph 40: Surficial waste adjacent to the sheds, lot 11

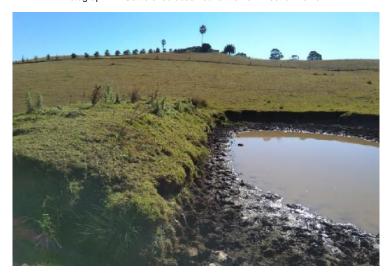


LIENT:	ESR Australia			Site Photographs 37 to 40
FFICE:	Macarthur	Prepared BY:	LAR	Preliminary Site Investigation for Contamination
CALE:	NTS	DATE:	Jun-19	59 - 63 Abbotts Road, Kemps Creek

PLATE No: 10  REVISION: 0	PROJECT No:	92352.00
REVISION: 0	PLATE No:	10
	REVISION:	0



Photograph 41: Cattle shed observed to the northwest of the Lot 11



Photograph 43: Area of potential fill adjacent to the west of the dam, located northwest of the Lot 12



Photograph 42: A dam with a potential asbestos pipe (PACM), located adjacent to the cattle shed in Lot 11



Photograph 44: Construction and demolition material adjacent to the west of the dam, located northwest of the Lot 12



CLIENT:	ESR Australia			Site Photographs 41 to 44	PROJECT No:	92352.
OFFICE:	Macarthur	Prepared BY:	LAR	Preliminary Site Investigation for Contamination	PLATE No:	11
SCALE:	NTS	DATE:	Jun-19	59 - 63 Abbotts Road, Kemps Creek	REVISION:	0



Photograph 45: Construction and demolition waste located to the west of the biggest dam, Lot 12



Photograph 47:: House located at the eastern portion of Lot 12



Photograph 46: Scattered treated timber and tyres located to the west of the biggest dam, Lot 12



Photograph 48: Back of the two garages located at the eastern portion of Lot 2



CLIENT:	ESR Australia			Site Photographs 45 to 48
OFFICE:	Macarthur	Prepared BY:	LAR	Preliminary Site Investigation for Contamination
SCALE:	NTS	DATE:	Jun-19	59 - 63 Abbotts Road, Kemps Creek

PROJECT No:	92352.00
PLATE No:	12
REVISION:	0



Photograph 49: Septic tank located northern side of the house, Lot12



Photograph 51: Second property located accross the centre of Lot 12 (back view)



Photograph 50: A concrete drainage pipe and some surface debris of construction and demolition waste, located on Lot 12



Photograph 52: Second property located accross the centre of Lot 12 (Front view)



CLIENT:	ESR Australia			Site Photographs 49 to 52
OFFICE:	Macarthur	Prepared BY:	LAR	Preliminary Site Investigation for Contamination
SCALE:	NTS	DATE:	Jun-19	59 - 63 Abbotts Road, Kemps Creek

PROJECT No:	92352.00
PLATE No:	13
REVISION:	0

# Appendix H

Soil Logs

**CLIENT:** ESR Australia

PROJECT: Proposed Industrial Subdivision

LOCATION: 59 - 63 Abbotts Road, Kemps Creek, NSW

**SURFACE LEVEL:** 54.3 mAHD

PIT No: TP1 **PROJECT No: 92352.00 EASTING**: 296168

**NORTHING**: 6251420 **DATE:** 1/7/2019

SHEET 1 OF 1

		Description	o		Sam	pling 8	& In Situ Testing	Τ	
귐	Depth (m)	of	Graphic Log	Туре	Depth	Sample		Water	Dynamic Penetrometer Test (blows per 150mm)
	(,	Strata			Dec	Sam	Results & Comments	>	5 10 15 20
-22	0.1	TOPSOIL - dark brown silty clay with rootlets and a trace of terracotta (fill)		D/E	0.1		PID<1		
	0.4	FILL - red and grey clay with a trace of rootlets		D/E/B	0.5		PID<1		
	-1	FILL - brown silty clay with a trace of domestic refuse comprising plastic and porcelain and building rubble comprising bricks and terracotta		D/E	1.0		PID<1		-1
23					1.5		PID<1		
	-2				2.0		PID<1		2
52	2.3	- becoming grey, domestic and building refuse comprising, timber, plastic and bricks, strong organic/sewage odour, MC>LL at 2.2m		—D*—	-2.3		PID<1	01-07-19	
	-3	Pit discontinued at 2.3m - refusal on building rubble and pit collapsing							3
21									
	-4								-4
-02									
: :	-5								-5
4									
: :	-6								-6
48									
	-7								7
4									
t	-8								-8
46									
t	- 9								9
45									
: :	- 10								10
4									

RIG: Hyundai 60CR-9 6 tonne excavator - 450mm toothed bucket LOGGED: LOC

WATER OBSERVATIONS: Perched groundwater observed at 2.2m

REMARKS: \* Replicate sample BD3/010719 collected; Prior tip site; MC = moisture content; PL = plastic limit

☐ Sand Penetrometer AS1289.6.3.3 ☑ Cone Penetrometer AS1289.6.3.2

SURVEY DATUM: MGA94 Zone 56

**SAMPLING & IN SITU TESTING LEGEND** 

A Auger sample
B Bulk sample
BLK Block sample
C Core drilling
D Disturbed sample
E Environmental sample Gas sample
Piston sample
Tube sample (x mm dia.)
Water sample
Water seep
Water level LECEND
PID Photo ionisation detector (ppm)
PL(A) Point load axial test Is(50) (MPa)
PL(D) Point load diametral test Is(50) (MPa)
pp Pocket penetrometer (kPa)
S Standard penetration test
V Shear vane (kPa)



CLIENT: ESR Australia

PROJECT: Proposed Industrial Subdivision

LOCATION: 59 - 63 Abbotts Road, Kemps Creek, NSW

**SURFACE LEVEL:** 57.6 mAHD

PIT No: TP2 **PROJECT No: 92352.00 EASTING**: 296214

**NORTHING**: 6251379

**DATE**: 2/7/2019 SHEET 1 OF 1

Depth of strata    Depth (m)   Description   Description	netrometer Test per mm)
TOPSOIL - dark brown clayey silt with rootlets	15 20
FILL - brown sity clay with gravel and bricks, MC <pl -="" 0.8m="" <="" a="" at="" brown="" clay="" discontinued="" gravel,="" investigation="" ironstone="" limit="" mc<pl="" of="" orange="" pit="" silty="" sity="" small="" stiff,="" td="" trace="" very="" with=""><td></td></pl>	
SILTY CLAY - very stiff, orange brown silty clay with a trace of small ironstone gravel, MC-PL Pit discontinued at 0.8m - limit of investigation  SILTY CLAY - very stiff, orange brown silty clay with a trace of small ironstone gravel, MC-PL Pit discontinued at 0.8m - limit of investigation  - 1  - 2  - 2  - 3  - 3  - 3  - 3  - 3  - 3	
SILITION TO CART - Very Silin, darge forms many day with a trace of small ironstone gravel, MC-CPL.  Pit discontinued at 0.8m - limit of investigation  - I mit of investigation  - 3  - 3  - 3  - 4  - 4  - 4  - 6  - 6  - 6	
Pit discontinued at 0.8m - limit of investigation	: :
-3 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2	
-3 -3 -3 -4 -4 -4 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5	
-3 -3 -4 -4 -5 -5 -6	
-3 -3 -4 -4 -5 -5 -6	
-5 -5 -6 -6	
-5 -5 -6 -6	
- 6 - 6 - 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10	
[ -9	
	•

LOGGED: LOC RIG: Hyundai 60CR-9 6 tonne excavator - 450mm toothed bucket SURVEY DATUM: MGA94 Zone 56

WATER OBSERVATIONS: No free groundwater observed

**REMARKS:** MC = moisture content; PL = plastic limit

**SAMPLING & IN SITU TESTING LEGEND** 

A Auger sample
B Bulk sample
BLK Block sample
C Core drilling
D Disturbed sample
E Environmental sample LING & IN SITUTESTING
G Gas sample
P Piston sample
U, Tube sample (x mm dia.)
W Water sample
Water seep
Water level LECEND
PID Photo ionisation detector (ppm)
PL(A) Point load axial test Is(50) (MPa)
PL(D) Point load diametral test Is(50) (MPa)
PL(D) Point load diametral test Is(50) (MPa)
p Pocket penetrometer (kPa)
S Standard penetration test
V Shear vane (kPa)





**CLIENT:** ESR Australia

PROJECT: Proposed Industrial Subdivision

LOCATION: 59 - 63 Abbotts Road, Kemps Creek, NSW

SURFACE LEVEL: 57.6 mAHD **EASTING**: 296191

PIT No: TP3 **PROJECT No:** 92352.00

**NORTHING**: 6251365 **DATE:** 2/7/2019 SHEET 1 OF 1

				Description	. <u></u> 2		San		& In Situ Testing						
씸	D	epth (m)		of	Graphic Log	Туре	Depth	Sample	Results & Comments	Water	Dy	namic Po (blow	enetro /s per	meter mm)	l est
				Strata				San	Comments			5 10		15	20
-	-	0.1	'n	TOPSOIL - brown silty clay with rootlets and a trace of plastic		E	0.05				-			:	
24	Ė	0.6		FILL - brown, orange and red silty clay with charcoal, \MC <pl< td=""><td></td><td>D</td><td>0.5</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></pl<>		D	0.5								
-	1	0.9	,	SILTY CLAY - very stiff, pale orange mottled pale grey slity clay, MC <pl< td=""><td><u> </u></td><td>D</td><td>0.8</td><td></td><td></td><td></td><td>-1</td><td></td><td></td><td>:</td><td><u>:</u></td></pl<>	<u> </u>	D	0.8				-1			:	<u>:</u>
				Pit discontinued at 0.9m											
. 26	-			- limit of investigation							-				
	-2										_2				
	Ė														
99											-				:
	-3										-3				
ļ 	-										- -			:	:
54	Ē										-				
	-4										-4 -				
[ [2]	[										[			:	
	-5										-5				
-	F3										F.3				
52	Ė													:	:
	-6										- -6				
51	-										-			:	
	-7										7				
	Ė													:	:
-8	-										-				
	-8										-8			:	:
<u> </u>	-										-				
49	ŀ										-			:	
-	-9										-9 -				
48	[										-				
Ė.	- 10	,									L 10			:	
-	F 'C	,									- 10 -				
47	Ė										<u> </u>				
E	E										[				i

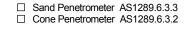
LOGGED: LOC RIG: Hyundai 60CR-9 6 tonne excavator - 450mm toothed bucket SURVEY DATUM: MGA94 Zone 56

WATER OBSERVATIONS: No free groundwater observed

**REMARKS:** MC = moisture content; PL = plastic limit

**SAMPLING & IN SITU TESTING LEGEND** 

A Auger sample
B Bulk sample
BLK Block sample
C Core drilling
D Disturbed sample
E Environmental sample Gas sample
Piston sample
Tube sample (x mm dia.)
Water sample
Water seep
Water level LECEND
PID Photo ionisation detector (ppm)
PL(A) Point load axial test Is(50) (MPa)
PL(D) Point load diametral test Is(50) (MPa)
pp Pocket penetrometer (kPa)
S Standard penetration test
V Shear vane (kPa)





**CLIENT:** ESR Australia

LOCATION:

PROJECT: Proposed Industrial Subdivision

59 - 63 Abbotts Road, Kemps Creek, NSW

**SURFACE LEVEL:** 58.6 mAHD

**EASTING**: 296224

**NORTHING**: 6251341

PIT No: TP4

**PROJECT No: 92352.00** 

**DATE:** 2/7/2019 SHEET 1 OF 1

		Description	Q	୍ର Sampling & In Situ Testing									
牊	Depth (m)	of	Graphic Log	Туре	Depth	Sample	Results & Comments	Water	[	Oynamic (blo	Penetro ows per	meter mm)	Гest
		Strata				Sar	Comments			5	10	15	20
ŀ	- 0.1	TOPSOIL - dark brown silty clay with rootlets		D	0.1				-		:	:	
Ė		SILTY CLAY - firm, pale orange mottled grey silty clay, MC <pl< td=""><td>1/1/</td><td>D</td><td>0.5</td><td></td><td></td><td></td><td>ŧ</td><td>:</td><td>:</td><td>:</td><td>i i</td></pl<>	1/1/	D	0.5				ŧ	:	:	:	i i
-83		becoming brown mottled grey, extremely weathered with fine grained brown and grey sandstone gravel	1/1/	D	0.9				[				
ŀ	1 1.0	Pit discontinued at 1.0m	V 1/ 1/		0.9				1-1	÷	<del>:</del>	:	÷
ŀ	-	- limit of investigation							ļ				
57									E	:	:	:	Ė
- "	-								ļ		•	:	
-	-2								-2	:	:	:	÷
-	-								-				
26									ŧ				
- 2	-								ļ	:	:	:	÷
-	-3								-3				
	-								f	:	:	:	
-	-								ļ	:	:	:	:
99									E				
-	- -4								-4		:	:	:
									Ē	÷	:	:	i
-									ļ				
-22									ŧ	:	:	:	:
-	- -5								- -5		:	:	•
ŀ									ŀ		:		
[									Ē.	:	:	:	:
53	-								ļ			:	
	-6								-6				
-	-								ļ	:	:	:	i
Ė									ŧ				
52	:								ļ	:	:	:	:
	- -7								Ė,			:	•
	-								Ē'				
-	-								ļ	:	:	:	:
51									Ē.				
-	- - -8								-8		:	:	:
	-8								F°	:	:	:	Ė
ŀ	-								ţ			:	
20									Ē	:	:	:	÷
-	-								-	:	:		
-	-9 -								-9 [	:	:	:	
ŀ	-								ţ	:	:	:	i:
49									Ė	:	:		
É									f	:	:	:	:
ŀ	- 10 -								-10			:	į
[									E	:	:	:	:
48	-								ļ	•		:	
Ė									Ė	:	:	:	:
لــــــــــــــــــــــــــــــــــــــ				<u> </u>						- <del>-</del>	:	<del>:</del>	<del></del>

RIG: Hyundai 60CR-9 6 tonne excavator - 450mm toothed bucket LOGGED: LOC SURVEY DATUM: MGA94 Zone 56

WATER OBSERVATIONS: No free groundwater observed

**REMARKS:** Test pit excavated over fence due to access, appears to have been cut to make lot flat; MC = moisture content; PL = plastic limit

☐ Sand Penetrometer AS1289.6.3.3 ☐ Cone Penetrometer AS1289.6.3.2

**SAMPLING & IN SITU TESTING LEGEND** A Auger sample
B Bulk sample
BLK Block sample
C Core drilling
D Disturbed sample
E Environmental sample

Gas sample
Piston sample
Tube sample (x mm dia.)
Water sample
Water seep
Water level

LEGENU
PID Photo ionisation detector (ppm)
PL(A) Point load axial test Is(50) (MPa)
PL(D) Point load diametral test Is(50) (MPa)
pp Pocket penetrometer (kPa)
S standard penetration test
V Shear vane (kPa)



CLIENT: ESR Australia

PROJECT: Proposed Industrial Subdivision

LOCATION: 59 - 63 Abbotts Road, Kemps Creek, NSW

**SURFACE LEVEL:** 58.1 mAHD

**EASTING**: 296245

**NORTHING**: 6251373

PIT No: TP5

**PROJECT No: 92352.00** 

**DATE**: 2/7/2019 SHEET 1 OF 1

П		Description	U		Sam	pling 8	& In Situ Testing						
R	Depth (m)	of	Graphic Log	e				Water	Dy	namic I/ blo)	Penetro ws per	meter mm)	Test
	(111)	Strata	يق ا	Туре	Depth	Sample	Results & Comments	>				15	20
-82	0.05	TOPSOIL - dark brown silty clay with rootlets	XXX	D	0.1	0,				:	<del>:                                    </del>	:	:
	0.25	FILL - brown and orange silty clay, MC~PL (reworked natural)		D	0.5								
	0.7 - -1	SILTY CLAY - stiff, brown mottled orange silty clay with a trace of rootlets, MC~PL	14.4						-1				
22	· ·	Pit discontinued at 0.7m - limit of investigation											
299	-2								-2		:		
	· ·												
55	-3								-3				
	· ·								-		:	:	
54	-4								-4				
2													
	: : : _								_				
23	-5								-5 [				
	· · ·												
25	-6 -6								-6				
51	-7								-7				
	· · ·								-				
	-8								-8		:	:	
20	· ´								-	:			
49	-9 -9								9				
									-				
-84	- -10								10	:			
[ ]									Ę.		:	:	
								1	<u> </u>	<u>:</u>	<u>:                                    </u>	<u>:                                    </u>	<u>:</u>

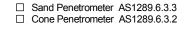
LOGGED: LOC RIG: Hyundai 60CR-9 6 tonne excavator - 450mm toothed bucket SURVEY DATUM: MGA94 Zone 56

WATER OBSERVATIONS: No free groundwater observed

**REMARKS:** MC = moisture content; PL = plastic limit

**SAMPLING & IN SITU TESTING LEGEND** 

A Auger sample
B Bulk sample
BLK Block sample
C Core drilling
D Disturbed sample
E Environmental sample LING & IN SITUTESTING
G Gas sample
P Piston sample
U, Tube sample (x mm dia.)
W Water sample
Water seep
Water level LECEND
PID Photo ionisation detector (ppm)
PL(A) Point load axial test Is(50) (MPa)
PL(D) Point load diametral test Is(50) (MPa)
PL(D) Point load diametral test Is(50) (MPa)
p Pocket penetrometer (kPa)
S Standard penetration test
V Shear vane (kPa)





**CLIENT:** ESR Australia

PROJECT: Proposed Industrial Subdivision

LOCATION: 59 - 63 Abbotts Road, Kemps Creek, NSW

**SURFACE LEVEL:** 67.1 mAHD

**NORTHING**: 6251335

PIT No: TP6 **PROJECT No: 92352.00 EASTING**: 296396

> **DATE:** 2/7/2019 SHEET 1 OF 1

Depth (m)  Description of Strata  TOPSOIL - dark brown clayey sit with a trace of plastic and rootlets to 0.1 m SILTY CLAY - soft, orange brown sitly clay, MC-PL  SILTY CLAY - soft, orange brown sitly clay, MC-PL  DIE 1.0  DIE 1.0  DIE 1.0  DIE 1.5  DIE 2.2  Lay - stiff, light grey mottled grey clay with a trace of sandstone gravel and rootlets, MC-PL  DIE 1.5  DIE 2.2  Sampling & In Situ Testing Dynamic Penetric (blows per 1 strate) Dynamic Pene	ometer To
TOPSOIL - dark brown clayey silt with a trace of plastic and rootlets to 0.1m  SILTY CLAY - soft, orange brown silty clay, MC-PL  1.7  2. 2.0  2.0  CLAY - firm, light brown mottled grey clay with a trace of sandstone gravel and rootlets, MC-PL  1.7  2. 2.0  2.0  SMDSTONE - low strength, highly weathered, brown, dark brown and grey fine grained sandstone Prit discontinued at 22m  - limit of investigation  3. 4  4. 4  5. 6  6. 6	50mm)
and rootlets to 0.1m SILTY CLAY - soft, crange brown sitty clay, MC-PL  CLAY - firm, light brown mottled grey clay with a trace of sandstone gravel and rootlets, MC-PL  CLAY - stiff, light grey mottled grey and light orange brown clay with fine grained sand and a trace of sandstone gravel, MC-PL (extremely weathered)  CLAY - stiff, light grey mottled grey and light orange brown clay with fine grained sand and a trace of sandstone gravel, MC-PL (extremely weathered)  SNDSTONE - low strength, highly weathered, brown, dark brown and grey fine grained sandstone Pit discontinued at 2.2m - limit of investigation  -4  -5  -6  -7	15 20
CLAY - firm, light brown mottled grey clay with a trace of sandstone gravel and rootlets, MC-PL  1.7  CLAY - stiff, light grey mottled grey and light orange brown clay with fine grained sand and a trace of sandstone gravel, MC-PL (extremely weathered)  SANDSTONE - low strength, highly weathered, brown, dark brown and grey fine grained sandstone  Pit discontinued at 2.2m  - limit of investigation  - 4  - 5  - 6  - 6	
CLAY - firm, light brown mottled grey clay with a trace of sandstone gravel and rootlets, MC-PL  1.7  CLAY - stiff, light grey mottled grey and light orange brown clay with fine grained sand and a trace of sandstone gravel, MC-PL (extremely weathered, brown, dark brown and grey fine grained sandstone Pit discontinued at 2.2m  - limit of investigation  4  -4  -5  -6  -7	
CLAY - stiff, light grey mottled grey and light orange brown clay with fine grained sand and a trace of sandstone gravel, MC <pl (extremely="" -="" -3="" -5="" -6="" -7<="" 2.2m="" and="" at="" brown="" brown,="" dark="" discontinued="" fine="" grained="" grey="" highly="" investigation="" limit="" low="" of="" pit="" sandstone="" strength,="" td="" weathered)="" weathered,=""><td></td></pl>	
1.7 2 2.0 2.2 CLAY - stiff, light grey mottled grey and light orange brown clay with fine grained sand and a trace of sandstone gravel, MC <pl (extremely="" -="" -4="" -7="" -7<="" 2.2m="" 4="" and="" at="" brown="" brown,="" dark="" discontinued="" fine="" grained="" grey="" highly="" investigation="" limit="" low="" of="" pit="" sandstone="" strength,="" td="" weathered)="" weathered,=""><td></td></pl>	
SanDSTONE - low strength, highly weathered)  SanDSTONE - low strength, highly weathered)  JD/E 2.2  dark brown and grey fine grained sandstone  Pit discontinued at 2.2m  - limit of investigation  - 4  - 4  - 6  7	
SANDSTONE - low strength, highly weathered, brown, dark brown and grey fine grained sandstone Pit discontinued at 2.2m - limit of investigation  - 4  - 4  - 5  - 5  - 6  - 7	
Pit discontinued at 2.2m - limit of investigation  4  6  7	
4 5 6 7	
5 6 7	
-5 -6 -7	
5 6 7	
-6 -7	
6 7	
-6 -7	
7	
7	
.7	
8	
8	
9	
.10	

LOGGED: LOC RIG: Hyundai 60CR-9 6 tonne excavator - 450mm toothed bucket SURVEY DATUM: MGA94 Zone 56

WATER OBSERVATIONS: No free groundwater observed

**REMARKS:** MC = moisture content; PL = plastic limit

**SAMPLING & IN SITU TESTING LEGEND** 

A Auger sample
B Bulk sample
BLK Block sample
C Core drilling
D Disturbed sample
E Environmental sample Gas sample
Piston sample
Tube sample (x mm dia.)
Water sample
Water seep
Water level LEGENU
PID Photo ionisation detector (ppm)
PL(A) Point load axial test Is(50) (MPa)
PL(D) Point load diametral test Is(50) (MPa)
pp Pocket penetrometer (kPa)
S standard penetration test
V Shear vane (kPa)





**CLIENT:** ESR Australia

PROJECT: Proposed Industrial Subdivision **SURFACE LEVEL:** 60.6 mAHD

**EASTING**: 296341 **PROJECT No: 92352.00** 

PIT No: TP7

59 - 63 Abbotts Road, Kemps Creek, NSW LOCATION:

**NORTHING**: 6251199 **DATE:** 2/7/2019 SHEET 1 OF 1

П		Τ	Description	U		Sam	npling &	& In Situ Testing		
R	Depth (m)		of	Graphic Log	Туре				Water	Dynamic Penetrometer Test (blows per 150mm)
	()		Strata	ō		Depth	Sample	Results & Comments	^	5 10 15 20
-	-		TOPSOIL - grey brown silty clay with rootlets to 0.1m		D*	0.1		PID<1		<u> </u>
-09	- 0.0 - -	3	SILTY CLAY - firm, orange mottled pale brown silty clay, MC~PL		D	0.5		PID<1		<u></u>
	- - -1 1.(									
	· ' ''' ·		Pit discontinued at 1.0m - limit of investigation							
29	- - -		•							
	-2									-2
	· - -									
28	- - -									
	-3									-3
	- - -									
57	• • •									
	-4 -4									-4
299										
- 2										_
	-5 - -									-5
55										
	- - - 6									-6
	. °									
54	- - -									
	- - 7									7
	-									
53	- - -									
	- - 8 -									-8
	- - -									
52	• •									
[	- -9 -									9
51	- - -									
	- 10 - -									-10
50										
	• •									

RIG: Hyundai 60CR-9 6 tonne excavator - 450mm toothed bucket LOGGED: LOC SURVEY DATUM: MGA94 Zone 56

WATER OBSERVATIONS: No free groundwater observed

REMARKS: \* Replicate sample BD2/020719 collected; Stagnant water on surface; MC = moisture content; PL = plastic limit

☐ Sand Penetrometer AS1289.6.3.3 ☑ Cone Penetrometer AS1289.6.3.2

A Auger sample
B Bulk sample
BLK Block sample
C Core drilling
D Disturbed sample
E Environmental sample

Gas sample
Piston sample
Tube sample (x mm dia.)
Water sample
Water seep
Water level

SAMPLING & IN SITU TESTING LEGEND LEGENU
PID Photo ionisation detector (ppm)
PL(A) Point load axial test Is(50) (MPa)
PL(D) Point load diametral test Is(50) (MPa)
pp Pocket penetrometer (kPa)
S Standard penetration test
V Shear vane (kPa)



CLIENT: ESR Australia

Proposed Industrial Subdivision

PROJECT:

LOCATION: 59 - 63 Abbotts Road, Kemps Creek, NSW

**SURFACE LEVEL:** 68.4 mAHD

**EASTING**: 296474

**NORTHING**: 6251161

PIT No: TP8

**PROJECT No: 92352.00** 

**DATE**: 2/7/2019 SHEET 1 OF 1

Т			Description	ي		Sam	pling 8	& In Situ Testing	Τ.	
귐	Dep (m	th	of	Graphic Log	эс	듔	Sample	Results &	Water	Dynamic Penetrometer Test (blows per 150mm)
	(	<b>'</b>	Strata	Ğ	Туре	Depth	Sam	Results & Comments	^	5 10 15 20
8		0.3	TOPSOIL - very dark brown silty clay with rootlets to 0.1m, MC~PL		D/E	0.1				
89			SILTY CLAY - firm, orange brown mottled pale brown silty clay with a trace of rootlets, MC~PL		D/E	0.5				5
:	1		- becoming pale orange brown mottled pale grey below 0.8m	1/1/	D/E	1.0				-1 <b>L</b>
29			- becoming stiff, grey mottled orange brown, MC <pl (extremely="" 1.3m<="" below="" td="" weathered)=""><td></td><td>D/E</td><td>1.5</td><td></td><td></td><td></td><td></td></pl>		D/E	1.5				
-2		1.8	SILTSTONE - low strength, highly weathered, dark grey, orange and brown siltstone with a trace of fine grained sand		D/E	2.0				-2
-98		2.5	Pt. F		-D/E-	-2.5-			-	
	3		Pit discontinued at 2.5m - limit of investigation							-3
9										
-	4									-4
64										
:										
-	5									-5
:	6									- -6
62										
	7									-7
61										
:	8									-8
9-										
: - - !	9									-9
20										
. [										
<u>.</u>	10									-10
28										
.										

LOGGED: LOC RIG: Hyundai 60CR-9 6 tonne excavator - 450mm toothed bucket SURVEY DATUM: MGA94 Zone 56

WATER OBSERVATIONS: No free groundwater observed

**REMARKS:** MC = moisture content; PL = plastic limit

**SAMPLING & IN SITU TESTING LEGEND** 

A Auger sample
B Bulk sample
BLK Block sample
C Core drilling
D Disturbed sample
E Environmental sample LING & IN SITUTESTING
G Gas sample
P Piston sample
U, Tube sample (x mm dia.)
W Water sample
Water seep
Water level LECEND
PID Photo ionisation detector (ppm)
PL(A) Point load axial test Is(50) (MPa)
PL(D) Point load diametral test Is(50) (MPa)
PL(D) Point load diametral test Is(50) (MPa)
p Pocket penetrometer (kPa)
S Standard penetration test
V Shear vane (kPa)

☐ Sand Penetrometer AS1289.6.3.3 ☑ Cone Penetrometer AS1289.6.3.2



**CLIENT:** ESR Australia

**PROJECT:** Proposed Industrial Subdivision

LOCATION: 59 - 63 Abbotts Road, Kemps Creek, NSW

**SURFACE LEVEL:** 67.9 mAHD

**EASTING**: 296463 **PF** 

**NORTHING**: 6251099

PIT No: TP9

**PROJECT No: 92352.00** 

**DATE**: 2/7/2019 **SHEET** 1 OF 1

			Description	. <u>Ö</u>		Sam		& In Situ Testing		5 . 5
R	De <sub>l</sub> (n	pth n)	of	Graphic Log	Туре	Depth	Sample	Results & Comments	Water	Dynamic Penetrometer Test (blows per 150mm)
Ш			Strata				Sal	Comments		5 10 15 20 : : : :
			TOPSOIL - dark grey brown silty clay with rootlets to 0.2m		D/E	0.1				
67	-1	0.6	SILTY CLAY - stiff, orange brown mottled grey silty clay with a trace of ironstone gravel, MC <pl< td=""><td>1/1/</td><td>D/E U<sub>50</sub></td><td>7 0.5 1.0</td><td></td><td></td><td></td><td></td></pl<>	1/1/	D/E U <sub>50</sub>	7 0.5 1.0				
					D/E	1.5				[
99	-2		- becoming very stiff, grey mottled red, MC <pl< td=""><td></td><td>D/E</td><td>2.0</td><td></td><td></td><td></td><td>-2</td></pl<>		D/E	2.0				-2
	· · ·	2.3	SANDY CLAY - stiff, brown mottled grey fine grained sandy clay with low strength sandstone gravel layers, MC <pl (extremely="" sandstone)<="" td="" weathered=""><td>7.7.</td><td>D/E</td><td>2.5</td><td></td><td></td><td></td><td></td></pl>	7.7.	D/E	2.5				
65	- 3	3.0		(././	-D/E-	-3.0-				3
			Pit discontinued at 3.0m - limit of investigation		-					
	• •									
64	- 4 - 1									-4
63										
	-5									-5 -
	· ·									
62	-6									6
	· ·									
-										
61	- 7 -									7
	· ·									
09	- 8									-8
29	-9									9
28										
	- 10 :									-10 : : : : : : : : : : : : : : : : : : :
22										

RIG: Hyundai 60CR-9 6 tonne excavator - 450mm toothed bucket LOGGED: LOC SURVEY DATUM: MGA94 Zone 56

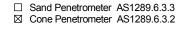
WATER OBSERVATIONS: No free groundwater observed

**REMARKS:** MC = moisture content; PL = plastic limit

**SAMPLING & IN SITU TESTING LEGEND** 

A Auger sample
B Bulk sample
B Bulk Slock sample
C C Core drilling
D D isturbed sample
E Environmental sample
W Water sample
Water sample
Water level
Water level

LECEND
PID Photo ionisation detector (ppm)
PL(A) Point load axial test Is(50) (MPa)
PL(D) Point load diametral test Is(50) (MPa)
PL(D) Point load diametral test Is(50) (MPa)
p Pocket penetrometer (kPa)
S Standard penetration test
V Shear vane (kPa)





**CLIENT:** ESR Australia

Proposed Industrial Subdivision

PROJECT: 59 - 63 Abbotts Road, Kemps Creek, NSW LOCATION:

**SURFACE LEVEL:** 77.3 mAHD

**NORTHING**: 6251043

PIT No: TP10 **PROJECT No: 92352.00 EASTING:** 296635

> **DATE:** 2/7/2019 SHEET 1 OF 1

								OHEET 1 OF 1
	Description	. <u>e</u>		San	pling 8	& In Situ Testing	T_	
Depth (m)	of Strata	Graphic Log	Туре	Depth	Sample	Results & Comments	Water	Dynamic Penetrometer Tes (blows per 150mm) 5 10 15 20
	TOPSOIL - dark brown clayey silt with rootlets to 0.15m	W	D/E	0.1	0)			
			D/E	0.5				
0.6	SILTY CLAY - stiff, brown silty clay with a trace of rootlets, MC <pl< td=""><td>1/1/</td><td></td><td></td><td></td><td></td><td></td><td></td></pl<>	1/1/						
1		1/1/	D/E	1.0				[1 ] ]
	- becoming very stiff, pale orange and pale grey below 1.3m	1/1/	D/E	1.5				
1.9		1/1/						
2 2.1 2.2	SANDY CLAY hard grov mottled grange tine grained	<u> </u>	-D/E-	-2.2-				-2
	SANDSTONE - low to medium strenth, weathered, dark grey, orange and brown fine grained sandstone	/						
	Pit discontinued at 2.2m							
3	- refusal on low to medium strength sandstone							-3
4								-4
_								
5								-5
•								
6								<del>-</del> 6
7								7
,								[
8								-8
9								[ -9
-								
· 10								-10
-								
								E

LOGGED: LOC RIG: Hyundai 60CR-9 6 tonne excavator - 450mm toothed bucket SURVEY DATUM: MGA94 Zone 56

WATER OBSERVATIONS: No free groundwater observed

**REMARKS:** MC = moisture content; PL = plastic limit

**SAMPLING & IN SITU TESTING LEGEND** 

A Auger sample
B Bulk sample
BLK Block sample
C Core drilling
D Disturbed sample
E Environmental sample Gas sample
Piston sample
Tube sample (x mm dia.)
Water sample
Water seep
Water level LEGENU
PID Photo ionisation detector (ppm)
PL(A) Point load axial test Is(50) (MPa)
PL(D) Point load diametral test Is(50) (MPa)
pp Pocket penetrometer (kPa)
S Standard penetration test
V Shear vane (kPa)



☐ Sand Penetrometer AS1289.6.3.3 ☑ Cone Penetrometer AS1289.6.3.2

**CLIENT:** ESR Australia

Proposed Industrial Subdivision PROJECT:

LOCATION: 59 - 63 Abbotts Road, Kemps Creek, NSW

**SURFACE LEVEL:** 74.5 mAHD

**NORTHING**: 6251131

PIT No: TP11 **PROJECT No: 92352.00 EASTING**: 296616

> **DATE**: 2/7/2019 SHEET 1 OF 1

			Description	. <u>o</u>		Sam	pling &	& In Situ Testing		
묍	Dep (m	oth n)	of	Graphic Log	Туре	Depth	Sample	Results & Comments	Water	Dynamic Penetrometer Test (blows per 150mm)
	`		Strata	Ō	Тy	Del	San	Comments	>	5 10 15 20
			TOPSOIL - dark brown clayey silt with rootlets to 0.2m		D/E	0.1				4
74	· · ·	0.5	SILTY CLAY - firm, brown and red silty clay with a trace of small ironstone gravel, MC <pl< td=""><td></td><td>U<sub>50</sub> D/E/B<sup>1</sup></td><td>0.4</td><td></td><td></td><td></td><td></td></pl<>		U <sub>50</sub> D/E/B <sup>1</sup>	0.4				
	- 1		SILTY CLAY - firm, pale red mottled pale brown silty clay with a trace of ironstone gravel and fine grained sand.		D/E/B	1.0				, La
73			MC <pl< td=""><td>11</td><td>D/E</td><td>1.5</td><td></td><td></td><td></td><td></td></pl<>	11	D/E	1.5				
	-2				D/E	2.0				-2
72		2.3	SANDY CLAY - firm, pale grey and pale orange fine grained sandy clay, MC~PL	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	D/E	2.5				
	-3	2.8 3.0	SILTY CLAY - soft, grey mottled brown silty clay, MC~PL (extremely weathered)	11/1/	-D/E-	-3.0-				3
71	· · ·		Pit discontinued at 3.0m - limit of investigation							
	- 4									-4
. 02	•									
	- 5									-5
- 69	· · ·									
	-6									-6
- 8										
	- 7									-7
49										
	-8									-8
99	· · ·									
	-9									9
65	· ·									
	- 10									-10
-2	· · ·									
E										

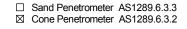
LOGGED: LOC RIG: Hyundai 60CR-9 6 tonne excavator - 450mm toothed bucket SURVEY DATUM: MGA94 Zone 56

WATER OBSERVATIONS: No free groundwater observed

**REMARKS:** MC = moisture content; PL = plastic limit

**SAMPLING & IN SITU TESTING LEGEND** 

A Auger sample
B Bulk sample
BLK Block sample
C Core drilling
D Disturbed sample
E Environmental sample Gas sample
Piston sample
Tube sample (x mm dia.)
Water sample
Water seep
Water level LEGEND
PID Photo ionisation detector (ppm)
PL(A) Point load axial test Is(50) (MPa)
PL(D) Point load diametral test Is(50) (MPa)
PL(D) Point load diametral test Is(50) (MPa)
p Pocket penetrometer (kPa)
S Standard penetration test
V Shear vane (kPa)





**CLIENT:** ESR Australia

PROJECT: Proposed Industrial Subdivision

LOCATION: 59 - 63 Abbotts Road, Kemps Creek, NSW

**SURFACE LEVEL:** 80.9 mAHD

PIT No: TP12 **PROJECT No: 92352.00 EASTING**: 296508

**NORTHING**: 6251231 **DATE**: 2/7/2019

SHEET 1 OF 1

Г			Description	<u>ن</u> .		Sam	npling &	& In Situ Testing		
뭅	D (	epth (m)	of Strata	Graphic Log	Туре	Depth	Sample	Results & Comments	Water	Dynamic Penetrometer Test (blows per 150mm)
F	_		TOPSOIL - dark brown clayey silt, MC <pl< td=""><td>XX</td><td>D*</td><td>0.1</td><td>Š</td><td>PID&lt;1</td><td></td><td>5 10 15 20</td></pl<>	XX	D*	0.1	Š	PID<1		5 10 15 20
F	Ē	0.25	SILTY CLAY - firm, pale brown mottled pale red silty clay, MC~PL	1/1/		0.5		DID 44		
E	E	0.8			D	0.5		PID<1		
-8	1	0.6	Pit discontinued at 0.8m - limit of investigation							-1
ŀ	-		- infit of investigation							
ŀ	-									
-62	-2									-2
F	-									
E	E									
-82	-3									-3
ŧ	Ļ									
ŀ	-									
	-4									_4
E	[ <b>*</b>									
ŀ										
76	Ė									
-	-5 -									-5
ŀ	-									
Ė,	-									
75	-6									-6
-										
ŀ	-									
74	7									-7
ŧ	Ė									
E	[									
73	-8									-8
ŧ	<u> </u>									
ŧ	‡									
72	- -9									-9
E	[									
-	-									
7	- - 10	,								-10
ŧ	‡									
ŧ	‡									
-2	ļ									
7	Ĺ									L ; ; ; ;

RIG: Hyundai 60CR-9 6 tonne excavator - 450mm toothed bucket LOGGED: LOC SURVEY DATUM: MGA94 Zone 56

WATER OBSERVATIONS: No free groundwater observed

REMARKS: \* Replicate sample BD1/020719 collected; MC = moisture content; PL = plastic limit

☐ Sand Penetrometer AS1289.6.3.3 ☑ Cone Penetrometer AS1289.6.3.2

**SAMPLING & IN SITU TESTING LEGEND** A Auger sample
B Bulk sample
BLK Block sample
C Core drilling
D Disturbed sample
E Environmental sample

Gas sample
Piston sample
Tube sample (x mm dia.)
Water sample
Water seep
Water level

LECEND
PID Photo ionisation detector (ppm)
PL(A) Point load axial test Is(50) (MPa)
PL(D) Point load diametral test Is(50) (MPa)
pp Pocket penetrometer (kPa)
S Standard penetration test
V Shear vane (kPa)



**CLIENT:** ESR Australia

PROJECT:

Proposed Industrial Subdivision

LOCATION: 59 - 63 Abbotts Road, Kemps Creek, NSW

**SURFACE LEVEL**: 76.4 mAHD

**NORTHING**: 6251324

PIT No: TP13 **PROJECT No: 92352.00 EASTING**: 296661

> **DATE**: 2/7/2019 SHEET 1 OF 1

		Description	. <u>ಲ</u>		Sam		& In Situ Testing		
귒	Depth (m)	of	Graphic Log	Туре	Depth	Sample	Results & Comments	Water	Dynamic Penetrometer Test (blows per 150mm)
	,	Strata	9	Ту	De	San	Comments		5 10 15 20
	0.2	TOPSOIL - dark brown clayey silt with rootlets		D/E	0.1				
92	0.7	SILTY CLAY - hard, red brown silty clay with a trace of ironstone gravel and rootlets, MC <pl< td=""><td>1/1/</td><td>D/E</td><td>0.5</td><td></td><td></td><td></td><td></td></pl<>	1/1/	D/E	0.5				
	-1	SILTY CLAY - brown and grey with brown and dark grey fine grained sandstone gravel, MC <pl (extremely="" td="" weathered)<=""><td></td><td>D/E</td><td>1.0</td><td></td><td></td><td></td><td>1</td></pl>		D/E	1.0				1
75	• • •			D/E	1.5				
74	2.5			D/E -D/E-	2.0 2.5				-2
	2.5	Pit discontinued at 2.5m - refusal on low strength sandstone gravel		-D/E-	—2.5—				-3
73	· · ·								
	-4 -4								-4
72	· · ·								
71	-5								-5
	-6								-6
02	·								
Ė	-7 								-7
69									
89	-8 : :								-8
	- - -9								-9
29	·								
Ė	-10								-10
99									

RIG: Hyundai 60CR-9 6 tonne excavator - 450mm toothed bucket LOGGED: LOC SURVEY DATUM: MGA94 Zone 56

WATER OBSERVATIONS: No free groundwater observed

**REMARKS:** MC = moisture content; PL = plastic limit

**SAMPLING & IN SITU TESTING LEGEND** 

A Auger sample
B Bulk sample
BLK Block sample
C Core drilling
D Disturbed sample
E Environmental sample

Gas sample
Piston sample
Tube sample (x mm dia.)
Water sample
Water seep
Water level

LEGEND
PID Photo ionisation detector (ppm)
PL(A) Point load axial test Is(50) (MPa)
PL(D) Point load diametral test Is(50) (MPa)
PL(D) Point load diametral test Is(50) (MPa)
p Pocket penetrometer (kPa)
S Standard penetration test
V Shear vane (kPa)





**CLIENT:** ESR Australia

Proposed Industrial Subdivision

PROJECT: LOCATION: 59 - 63 Abbotts Road, Kemps Creek, NSW **SURFACE LEVEL:** 67.7 mAHD

**NORTHING**: 6251351

PIT No: TP14 **PROJECT No: 92352.00 EASTING**: 296543

> **DATE**: 2/7/2019 SHEET 1 OF 1

		Description	. <u>Ö</u>		Sam		& In Situ Testing		
R	Depth (m)	of Strata	Graphic Log	Type	Depth	Sample	Results & Comments	Water	Dynamic Penetrometer Test (blows per 150mm)
F	- 0.1	TOPSOIL - dark brown silty clay with rootlets, MC <pl< td=""><td><del>  yy</del></td><td>D/E</td><td>0.1</td><td>- 0,</td><td></td><td></td><td></td></pl<>	<del>  yy</del>	D/E	0.1	- 0,			
	-	SILTY CLAY - hard, brown silty clay with ironstone gravel, MC <pl< td=""><td></td><td>D/E</td><td>0.5</td><td></td><td></td><td></td><td></td></pl<>		D/E	0.5				
	- 1 - 1			D/E	1.0				· ·
99		<ul> <li>becoming stiff, red mottled brown with a trace of fine grained sandstone gravel, MC~PL below 1.5m</li> </ul>		D/E	1.5				
	-2	- becoming firm, orange brown mottled grey with a trace of fine grained sandstone gravel below 2.0m		D/E	2.0				-2
65	-3 3.0	- becoming red mottled grey below 2.5m		D/E -D/E-	2.5 —3.0—				
	-3 3.0 - - -	Pit discontinued at 3.0m - limit of investigation		-D/E	-3.0-				
64	-4								
	-								
- 63	- - - -5								-5
-									
62	-6								-6
61	7								-7
-  -  -  -									
09	- 8								-8
-									
69	- - -9								-9
28									
-	<del>-</del> 10								-10
57									
- 2	-								

RIG: Hyundai 60CR-9 6 tonne excavator - 450mm toothed bucket LOGGED: LOC SURVEY DATUM: MGA94 Zone 56

WATER OBSERVATIONS: No free groundwater observed

**REMARKS:** MC = moisture content; PL = plastic limit

**SAMPLING & IN SITU TESTING LEGEND** 

A Auger sample
B Bulk sample
BLK Block sample
C Core drilling
D Disturbed sample
E Environmental sample Gas sample
Piston sample
Tube sample (x mm dia.)
Water sample
Water seep
Water level LEGEND
PID Photo ionisation detector (ppm)
PL(A) Point load axial test Is(50) (MPa)
PL(D) Point load diametral test Is(50) (MPa)
PL(D) Point load diametral test Is(50) (MPa)
p Pocket penetrometer (kPa)
S Standard penetration test
V Shear vane (kPa)

☐ Sand Penetrometer AS1289.6.3.3 ☑ Cone Penetrometer AS1289.6.3.2



**CLIENT:** ESR Australia **SURFACE LEVEL:** 73.2 mAHD **PIT No:** TP15

**PROJECT:** Proposed Industrial Subdivision **EASTING:** 296611 **PROJECT No:** 92352.00 **LOCATION:** 59 - 63 Abbotts Road, Kemps Creek, NSW **NORTHING:** 6251406 **DATE:** 1/7/2019

SHEET 1 OF 1

		Description	ي		Sam	ıpling 8	& In Situ Testing	Τ.			
R	Depth (m)	of Strata	Graphic Log	Туре	Depth	Sample	Results & Comments	Water		namic Penetr (blows pe	er mm)
73	0.1	TOPSOIL - dark brown silty clay with rootlets and a trace of grey gravel, MC <pl< td=""><td>/ ///</td><td>D/E*</td><td>0.1 0.3</td><td>S</td><td>PID&lt;1 PID&lt;1</td><td></td><td>-</td><td>5 10</td><td>15 20</td></pl<>	/ ///	D/E*	0.1 0.3	S	PID<1 PID<1		-	5 10	15 20
	0.4	SILTY CLAY - hard, red brown silty clay with a trace of rootlets, MC <pl< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></pl<>									
72	-1 1.0 - 1.2	SANDY CLAY - light brown and orange fine grained sandy clay with fine grained sandstone gravel							-1		
	-	SILTY CLAY - hard, grey and brown silty clay with grey siltstone gravel, MC <pl (extremely="" 1.2m<="" at="" discontinued="" pit="" td="" weathered)=""><td>/</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></pl>	/								
	- -2	- limit of investigation							-2		
7	- - -										
-	- - -3								-3		
2									-		
	- - - -4										
69	- 4								["		
	: - -								-		
. 89	-5 -								-5 -		
	- - -										
67	- -6 -								-6		
-											
F	- -7								-7		
99	· ·										
-	- - -8								-8		
65	: : :								ļ		
	- - - -9								-9		
64									-		
63	-10 - -								-10 -		
-											
Ł	-								ŀ	: :	: :

RIG: Hyundai 60CR-9 6 tonne excavator - 450mm toothed bucket LOGGED: LOC SURVEY DATUM: MGA94 Zone 56

WATER OBSERVATIONS: No free groundwater observed

**REMARKS:** \* Replicate sample BD1/010719 collected; MC = moisture content; PL = plastic limit

☐ Sand Penetrometer AS1289.6.3.3☑ Cone Penetrometer AS1289.6.3.2

A Auger sample
B B Bulk sample
BLK Block sample
C C Core drilling
D D Disturbed sample
E Environmental sample

SAMPLING & IN SITU TESTING LEGEND
G Gas sample
P Piston sample
V Tube sample (x mm dia.)
W Water sample
D Water seep
S Star
Water level
V She

LEGENU
PID Photo ionisation detector (ppm)
PL(A) Point load axial test Is(50) (MPa)
PL(D) Point load diametral test Is(50) (MPa)
pp Pocket penetrometer (kPa)
S Standard penetration test
V Shear vane (kPa)



**CLIENT:** ESR Australia

PROJECT: Proposed Industrial Subdivision

59 - 63 Abbotts Road, Kemps Creek, NSW LOCATION:

**SURFACE LEVEL:** 66.3 mAHD

**EASTING**: 296557

**NORTHING**: 6251452

PIT No: TP16

**PROJECT No: 92352.00** 

**DATE:** 1/7/2019 SHEET 1 OF 1

		T	Description	.je		Sam		& In Situ Testing	پ	Dimensio Benefits Test
귐	Depth (m)	ו	of	Graphic Log	Туре	Depth	Sample	Results & Comments	Water	Dynamic Penetrometer Test (blows per mm)
+		+	Strata  FILL - brown to dark brown clavey silt with rootlets (to	XXX	⊢ D	0.1	Sa	PID<1		5 10 15 20
98	0		FILL - brown to dark brown clayey silt with rootlets (to 0.1m) and building rubble (including asbestos, ceramic tiles and bricks)		D	0.5		PID<1		
	·1	.6	SILTY CLAY - soft, grey mottled red and orange silty clay with a trace of rootlets, MC~PL	1/1/	D	1.0		PID<1		-1
- 65	1	.4		1/1/						
			Pit discontinued at 1.4m - limit of investigation							
ţ	·2									-2
64										
Ė	·3									-3
63	Ū									
-										
	-4									-4
8										
E										
-	-5									-5
<u>1</u>										
ŀ										
t	-6									-6
8										
Ė										
ţ	7									-7
- 29										
[	_									
Ł	8									-8
- 28										
ŀ	0									
57	-9									-9
*										
Ė	· 10									-10
56	10									
-										
ŧ										

RIG: Hyundai 60CR-9 6 tonne excavator - 450mm toothed bucket LOGGED: LOC SURVEY DATUM: MGA94 Zone 56

WATER OBSERVATIONS: No free groundwater observed

REMARKS: Test pit excavated on creek bed next to dam wall due to building rubble observed; MC = moisture content; PL = plastic limit

☐ Sand Penetrometer AS1289.6.3.3 ☑ Cone Penetrometer AS1289.6.3.2

**SAMPLING & IN SITU TESTING LEGEND** A Auger sample
B Bulk sample
BLK Block sample
C Core drilling
D Disturbed sample
E Environmental sample

Gas sample
Piston sample
Tube sample (x mm dia.)
Water sample
Water seep
Water level LEGENU
PID Photo ionisation detector (ppm)
PL(A) Point load axial test Is(50) (MPa)
PL(D) Point load diametral test Is(50) (MPa)
pp Pocket penetrometer (kPa)
S Standard penetration test
V Shear vane (kPa)



**CLIENT:** ESR Australia

**PROJECT:** Proposed Industrial Subdivision

LOCATION: 59 - 63 Abbotts Road, Kemps Creek, NSW

**SURFACE LEVEL:** 66.3 mAHD

**EASTING:** 296557

**NORTHING**: 6251452

PIT No: TP16DW

**PROJECT No:** 92352.00

**DATE:** 1/7/2019 **SHEET** 1 OF 1

	Description	. <u>o</u>		San		& In Situ Testing						
Depth (m)	of Strata	Graphic Log	Туре	Depth	Sample	Results & Comments	Water		ynamic (blo			
-	FILL - brown mottled dark brown silty clay, MC~PL		D	0.1	S	PID<1		-	:	10	15	20
0.4	Pit discontinued at 0.4m							-	:	:	<u>:</u>	<u>:</u>
	- limit of investigation							[				
-1								-1 -	:	:	:	:
3-								E	:		:	i
-2								-2				
[								F <sup>2</sup>	:	:	:	:
								Ė	:		:	
-3								-3				
} }								Ē	:	:	:	
-								-	:		:	:
-4								4				
<u> </u>								-	:	:	:	
								Ė	:		:	:
-5								-5				
ş <b>.</b>								E	:	:	:	
-								-	:		:	
-6								-6				
;}- -								ļ	:	:	:	:
-								[	:	:	:	
-7 -								-7				
3-								-	:	:	:	
-8								-8	:		:	
								Ē	:		:	i
-9								9			:	
										:	:	:
-								ŧ	:	:	:	i
10								10				
3								Ė		:	:	
[								[	:	:	:	:
<u> </u>								<u> </u>	<u>:</u>	:	<u>:                                    </u>	

RIG: Hyundai 60CR-9 6 tonne excavator - 450mm toothed bucket LOGGED: LOC SURVEY DATUM: MGA94 Zone 56

WATER OBSERVATIONS: No free groundwater observed

**REMARKS:** MC = moisture content; PL = plastic limit

**SAMPLING & IN SITU TESTING LEGEND** 

A Auger sample
B Bulk sample
BLK Block sample
C Core drilling
D Disturbed sample
E Environmental sample

SAMPLING & IN S11 of IESTING
G Gas sample
P Piston sample
V Water sample (x mm dia.)
W Water sample
Water seep
Water level

LECEND
PID Photo ionisation detector (ppm)
PL(A) Point load axial test Is(50) (MPa)
PL(D) Point load diametral test Is(50) (MPa)
PL(D) Point load diametral test Is(50) (MPa)
p Pocket penetrometer (kPa)
S Standard penetration test
V Shear vane (kPa)



□ Sand Penetrometer AS1289.6.3.3⊠ Cone Penetrometer AS1289.6.3.2

CLIENT: ESR Australia

Proposed Industrial Subdivision PROJECT:

LOCATION: 59 - 63 Abbotts Road, Kemps Creek, NSW

**SURFACE LEVEL:** 77.3 mAHD

**EASTING**: 296645

**NORTHING**: 6251501

PIT No: TP17

**PROJECT No: 92352.00** 

**DATE:** 1/7/2019 SHEET 1 OF 1

			Description	.i		Sam		& In Situ Testing		
귒	Dep (m	oth i)	of	Graphic Log	Туре	Depth	Sample	Results & Comments	Water	Dynamic Penetrometer Test (blows per 150mm)
	`	_	Strata	Ō	Ту		San	Comments		5 10 15 20 
-		0.3	TOPSOIL - dark brown silty clay with rootlets to 0.15m, MC <pl< td=""><td></td><td>D/E</td><td>0.1</td><td></td><td></td><td></td><td><b>-</b></td></pl<>		D/E	0.1				<b>-</b>
			SILTY CLAY - hard, red and brown silty clay with a trace of ironstone gravel and rootlets, MC <pl< td=""><td></td><td>/E/B/U</td><td>0.5</td><td></td><td></td><td></td><td><u> </u></td></pl<>		/E/B/U	0.5				<u> </u>
: ‡	· 1		- becoming grey brown with a trace of rootlets, Mc <pl 0.8m<="" below="" td=""><td></td><td>D/E</td><td>1.0</td><td></td><td></td><td></td><td></td></pl>		D/E	1.0				
76			- becoming brown and orange with a trace of ironstone gravel and rootlets below 1.3m		D/E	1.5				
	-2			1/1/	D/E	2.0				-2
75				111	D/E	2.5				
		2.8	SILTY CLAY - very stiff, light grey mottled orange silty \clay, MC <pl< td=""><td></td><td>-D/E/B-</td><td>-3.0-</td><td></td><td></td><td></td><td>3</td></pl<>		-D/E/B-	-3.0-				3
74			Pit discontinued at 3.0m - limit of investigation							
	-4									-4
73										
	-5									-5
72	Ü									
71	6									-6 - -
0,2	7									-7
7										
: ‡	8									- -8
8										
	9									- - -9
89										
-	10									- - -10
29										
. [										

LOGGED: LOC RIG: Hyundai 60CR-9 6 tonne excavator - 450mm toothed bucket SURVEY DATUM: MGA94 Zone 56

WATER OBSERVATIONS: No free groundwater observed

**REMARKS:** MC = moisture content; PL = plastic limit

**SAMPLING & IN SITU TESTING LEGEND** 

A Auger sample
B Bulk sample
BLK Block sample
C Core drilling
D Disturbed sample
E Environmental sample LING & IN SITUTESTING
G Gas sample
P Piston sample
U, Tube sample (x mm dia.)
W Water sample
Water seep
Water level LECEND
PID Photo ionisation detector (ppm)
PL(A) Point load axial test Is(50) (MPa)
PL(D) Point load diametral test Is(50) (MPa)
PL(D) Point load diametral test Is(50) (MPa)
p Pocket penetrometer (kPa)
S Standard penetration test
V Shear vane (kPa)

☐ Sand Penetrometer AS1289.6.3.3 ☑ Cone Penetrometer AS1289.6.3.2



**CLIENT:** ESR Australia

PROJECT: Proposed Industrial Subdivision

LOCATION: 59 - 63 Abbotts Road, Kemps Creek, NSW

**SURFACE LEVEL:** 68.0 mAHD

**NORTHING**: 6251508

PIT No: TP18 **PROJECT No: 92352.00 EASTING**: 296455

> **DATE:** 1/7/2019 SHEET 1 OF 1

		Description	ji		Sam		& In Situ Testing	يا	D	mio Decet	mater Tail
RL	Depth (m)	of Strata	Graphic Log	Туре	Depth	Sample	Results & Comments	Water	Dyna (	mic Penetro blows per 15	meter Test 50mm)
68	-	TOPSOIL - dark brown silty clay with rootlets to 0.15m	W	D/E	0.1	o o			اً ا	<u>;</u> ;	: :
	0.4	5 SILTY CLAY - hard, orange brown silty clay with dark grey ironstone gravel, MC <pl< td=""><td></td><td>D/E</td><td>0.5</td><td></td><td></td><td></td><td></td><td>5</td><td></td></pl<>		D/E	0.5					5	
67	-1 -1	- becoming brown mottled orange below 1.0m		D/E	1.0				1		<u></u>
				D/E	1.5						
99	-2 -2 -2.	2 SILTYCLAY hard grey mottled orange silty clay with a		D/E	2.0				-2		
	-	SILTY CLAY - hard, grey mottled orange silty clay with a trace of dark red small claystone gravel, MC <pl< td=""><td></td><td>D/E</td><td>2.5</td><td></td><td></td><td></td><td></td><td></td><td></td></pl<>		D/E	2.5						
65	-3 3. -3	Pit discontinued at 3.0m - limit of investigation	<u> </u>	D/E-	-3.0-				3		
		- IIIII O IIIVesugauon									
64	-4								4		
63	-5 -5								_5 5		
	-										
62	- -6 -								-6		
	-										
61	- - 7 -								7		
	-										
09	-8								-8		
	-										
29	- -9 -								-9		
	-										
28	- 10								-10		
	-			L							

RIG: Hyundai 60CR-9 6 tonne excavator - 450mm toothed bucket LOGGED: LOC SURVEY DATUM: MGA94 Zone 56

WATER OBSERVATIONS: No free groundwater observed

**REMARKS:** MC = moisture content; PL = plastic limit

**SAMPLING & IN SITU TESTING LEGEND** 

A Auger sample
B Bulk sample
BLK Block sample
C Core drilling
D Disturbed sample
E Environmental sample Gas sample
Piston sample
Tube sample (x mm dia.)
Water sample
Water seep
Water level LECEND
PID Photo ionisation detector (ppm)
PL(A) Point load axial test Is(50) (MPa)
PL(D) Point load diametral test Is(50) (MPa)
PL(D) Point load diametral test Is(50) (MPa)
p Pocket penetrometer (kPa)
S Standard penetration test
V Shear vane (kPa)

☐ Sand Penetrometer AS1289.6.3.3 ☑ Cone Penetrometer AS1289.6.3.2



**CLIENT:** ESR Australia

PROJECT: Proposed Industrial Subdivision

LOCATION: 59 - 63 Abbotts Road, Kemps Creek, NSW

**SURFACE LEVEL:** 63.7 mAHD

**EASTING**: 296473

**NORTHING**: 6251431

PIT No: TP19

**PROJECT No: 92352.00** 

**DATE:** 1/7/2019 SHEET 1 OF 1

П			Description	. <u>o</u>		Sam		& In Situ Testing						
R	Dep (m	oth	of	Graphic Log	Туре	Depth	Sample	Results &	Water	Dy	namic F blo'	Penetro ws per	meter mm)	Test
	<b>(</b>	,	Strata	Ō	Ţ	Dep	Sam	Results & Comments	>				15	20
63	- - - -1	4.0	FILL - building rubble (comprising bricks, terracotta, plastic, metal and asbestos) with brown silty fine to medium grained sand		D	0.5		PID<1		- - - - - - - - - - - - - - - - - - -				
		1.3	Pit discontinued at 1.3m	100							:			:
62			- pit collapsing							Ē				
	-2									-2				
											:	:	:	:
61										Ē	:			
[ [	-3									-3	:	:	:	:
										-				
09										-				
1	- - 4									4				
											:			:
											:	:	:	:
- 29														:
	-5									-5 -	:			:
										ļ				:
-88										Ē	:			
	-6									-6				
57										-				
1	- 7									-7	:	:	:	:
[										[				
ا و										-	:	:	:	
2	- 8									-8				
										ŧ Š	:			
										<u> </u>	:	:		:
22										<u> </u>	:	:	:	
	-9									-9 -				
										‡	:			:
54										‡	:			:
	- 10									10	:	:		:
										<u> </u>	:			
53										<u> </u>	:	:	:	:
- "										-	:	<u>:</u>		:

RIG: Hyundai 60CR-9 6 tonne excavator - 450mm toothed bucket LOGGED: LOC SURVEY DATUM: MGA94 Zone 56

WATER OBSERVATIONS: No free groundwater observed

REMARKS: Asbestos on surface surrounding test pit; MC = moisture content; PL = plastic limit

☐ Sand Penetrometer AS1289.6.3.3 ☑ Cone Penetrometer AS1289.6.3.2

**SAMPLING & IN SITU TESTING LEGEND** A Auger sample
B Bulk sample
BLK Block sample
C Core drilling
D Disturbed sample
E Environmental sample LING & IN SITUTESTING
G Gas sample
P Piston sample
U, Tube sample (x mm dia.)
W Water sample
Water seep
Water level

LECEND
PID Photo ionisation detector (ppm)
PL(A) Point load axial test Is(50) (MPa)
PL(D) Point load diametral test Is(50) (MPa)
pp Pocket penetrometer (kPa)
S Standard penetration test
V Shear vane (kPa)



**CLIENT:** ESR Australia

**PROJECT:** Proposed Industrial Subdivision

LOCATION: 59 - 63 Abbotts Road, Kemps Creek, NSW

**EASTING**: 296316 NSW **NORTHING**: 6251471

SURFACE LEVEL: 58.0 mAHD PIT No: TP20

**PROJECT No:** 92352.00

**DATE:** 1/7/2019 **SHEET** 1 OF 1

		Description	. <u>Ö</u>		San		& In Situ Testing		
2 2	Depth (m)	of Strata	Graphic Log	Туре	Depth	Sample	Results & Comments	Water	Dynamic Penetrometer Test (blows per 150mm)
8 -		TOPSOIL - brown silty clay with rootlets to 0.15m, MC~PL	W	D/E	0.1	S			5 10 15 20
ŧ	0.45	SILTY CLAY - stiff, orange brown silty clay with a trace of rootlets, MC~PL		U <sub>50</sub>	0.5				
ລ - 1		SILTY CLAY - hard, orange mottled brown silty clay, MC <pl< td=""><td></td><td>D/E/B</td><td>1.0</td><td></td><td></td><td></td><td>1</td></pl<>		D/E/B	1.0				1
Ė				D/E	1.5				
8-2				D/E	2.0				-2
	2.4	SILTY CLAY - hard, orange mottled light brown silty clay with fine grained sand and dark grey ironstone gravel,	1/1/	D/E	2.5				
g - 3	2.8 3.0	MC <pl -="" and="" brown="" dark="" fine="" grained="" highly="" low="" sandstone="" sandstone<="" strength,="" td="" very="" weathered,=""><td>:::::::</td><td>-D/E-</td><td>-3.0-</td><td></td><td></td><td></td><td>3</td></pl>	:::::::	-D/E-	-3.0-				3
F		Pit discontinued at 3.0m - limit of investigation							
\$-4									-4
ŧ									
ล ล - 5									-5
Ē									
8-6									6
E									
7									-7
Ē									
2 8 8									-8
Ė									
\$-9 -									-9
ŧ									
Ę									
<del>2</del> - 1	0								-10
ŧ									
Ė									

RIG: Hyundai 60CR-9 6 tonne excavator - 450mm toothed bucket LOGGED: LOC SURVEY DATUM: MGA94 Zone 56

WATER OBSERVATIONS: No free groundwater observed

**REMARKS:** MC = moisture content; PL = plastic limit

**SAMPLING & IN SITU TESTING LEGEND** 

A Auger sample
B Bulk sample
B Bulk Slock sample
C C Core drilling
D D isturbed sample
E Environmental sample
W Water sample
Water sample
Water seep
Water level

LECEND
PID Photo ionisation detector (ppm)
PL(A) Point load axial test Is(50) (MPa)
PL(D) Point load diametral test Is(50) (MPa)
PL(D) Point load diametral test Is(50) (MPa)
p Pocket penetrometer (kPa)
S Standard penetration test
V Shear vane (kPa)

☐ Sand Penetrometer AS1289.6.3.3 ☐ Cone Penetrometer AS1289.6.3.2



CLIENT: ESR Australia SURFACE LEVEL: 56.8 mAHD PIT No: TP21

PROJECT: Proposed Industrial Subdivision EASTING: 296269 PROJECT No: 92352.00

**LOCATION:** 59 - 63 Abbotts Road, Kemps Creek, NSW **NORTHING:** 6251429 **DATE:** 1/7/2019 **SHEET** 1 OF 1

П		Description			Sam	npling 8	& In Situ Testing						
R	Depth	of Description	Graphic Log	Φ				Water	Dy	namic F blo'	Penetro	meter <sup>-</sup>	Γest
Г	(m)	Strata	Gra	Туре	Depth	Sample	Results & Comments	≥					20
H	0.1		YX	D*	0.1	S	PID<1			<u> </u>		:	:
Ė	0.1 0.2	SILTY CLAY - firm, orange brown silty clay with a trace of rootlets, MC~PL	<u> </u>						-	:			
-		rootlets, MC~PL							-			:	
26		Pit discontinued at 0.2m - limit of investigation							Ē			:	
Ė	-1	ooodgato							-1 [	:		:	
									-	:		:	
									Ē				
52	-2								-2	:		:	
	.								-			:	
									Ē	:		:	
-22									Ė				
	-3								-3	:			
Į.									Ē.	:		:	
<u> </u>									Ė	:	:	:	
53									-				
- 1	-4								-4	:		:	
Ė	· ·								Ė	:		:	
									-			:	
52									Ē	:		:	
Ė	-5								-5 [			:	:
-	·								-	:			
									[	:		:	
.51	- -6								-6			:	
E									-	:		:	
									[	:		:	
-22									Ē				
F 1	-7								7	:		:	
-	:								ļ	:			
									Ē	:		:	
49									Ė	:		:	
	-8								-8	:		:	
									Ę	:		:	
ŧ									Ė	:			
48	.								ŧ,	:		:	
F	-9								-9 -	:		:	
ŧ l									Ė	:		:	
	:								‡	:		:	
47	- 10								10			:	
ŧ l									Ė	:	:	:	
-	:								‡	:		:	:
-46									Ē	:		:	
F 4	.							1	ŀ	:	:	:	:

RIG: Hand tools LOGGED: LOC SURVEY DATUM: MGA94 Zone 56

WATER OBSERVATIONS: No free groundwater observed

**REMARKS:** \* Replicate sample BD2/010719 collected; MC = moisture content; PL = plastic limit

□ Sand Penetrometer AS1289.6.3.3□ Cone Penetrometer AS1289.6.3.2

A Auger sample
B B Bulk sample
BLK Block sample
C C Core drilling
D D Disturbed sample
E Environmental sample

SAMPLING & IN SITU TESTING LEGEND
G Gas sample
P Piston sample
V Tube sample (x mm dia.)
W Water sample
D Water seep
S Star
Water level
V She

LEGENU
PID Photo ionisation detector (ppm)
PL(A) Point load axial test Is(50) (MPa)
PL(D) Point load diametral test Is(50) (MPa)
pp Pocket penetrometer (kPa)
S Standard penetration test
V Shear vane (kPa)



**CLIENT:** ESR Australia **SURFACE LEVEL**: 69.1 mAHD **PIT No**: TP22

PROJECT: Proposed Industrial Subdivision EASTING: 296432 PROJECT No: 92352.00

**LOCATION:** 59 - 63 Abbotts Road, Kemps Creek, NSW **NORTHING:** 6251333 **DATE:** 2/7/2019 **SHEET** 1 OF 1

		Description	U.		Sam	npling	& In Situ Testing	Τ.					
씸	Depth (m)	of Strata	Graphic Log	Туре	Depth	Sample	Results & Comments	water Water		Dynamic Penetrometer (blows per mm)			
69	· I	TOPSOIL - brown to dark brown silty clay with rootlets to 0.1m, MC <pl< td=""><td></td><td>D/E</td><td>0.1</td><td>Ø</td><td></td><td></td><td>-</td><td>5</td><td>10</td><td>15</td><td>20</td></pl<>		D/E	0.1	Ø			-	5	10	15	20
-	0.35	Pit discontinued at 0.35m - limit of investigation											
- 89	-1								- -1		:		
-									-				
-									-				
- 49	-2								-2	:	:	:	
-									-				
99	-3 -3								-3 -3				
-									-				
	-4								-4				
9									-				
-													
48	-5 - -								-5 -				
-									-				
63	-6								-6				
-											:		
-	-7								-7				
62									-				
-													
61	-8								-8				
-									-				
. 09	9								-9				
[									-	:		:	:
-	10								10				
- 69	- 10 -								-10 -	:	:		:
-									-	:			
Ł	-								-	<u>:                                    </u>	<u>:</u>		-

RIG: Hand tools LOGGED: LOC SURVEY DATUM: MGA94 Zone 56

WATER OBSERVATIONS: No free groundwater observed

**REMARKS:** MC = moisture content; PL = plastic limit

SAMPLING & IN SITU TESTING LEGEND

A Auger sample
B Bulk sample
BLK Block sample
C Core drilling
D Disturbed sample
E Environmental sample

SAMPLING & IN S11 of IESTING
G Gas sample
P Piston sample
V Water sample (x mm dia.)
W Water sample
Water seep
Water level

LEGEND
PID Photo ionisation detector (ppm)
PL(A) Point load axial test Is(50) (MPa)
PL(D) Point load diametral test Is(50) (MPa)
pp Pocket penetrometer (kPa)
S Slandard penetration test
V Shear vane (kPa)



□ Sand Penetrometer AS1289.6.3.3⊠ Cone Penetrometer AS1289.6.3.2

# Sampling Methods Douglas Partners The sample of the samp

#### Sampling

Sampling is carried out during drilling or test pitting to allow engineering examination (and laboratory testing where required) of the soil or rock.

Disturbed samples taken during drilling provide information on colour, type, inclusions and, depending upon the degree of disturbance, some information on strength and structure.

Undisturbed samples are taken by pushing a thinwalled sample tube into the soil and withdrawing it to obtain a sample of the soil in a relatively undisturbed state. Such samples yield information on structure and strength, and are necessary for laboratory determination of shear strength and compressibility. Undisturbed sampling is generally effective only in cohesive soils.

#### **Test Pits**

Test pits are usually excavated with a backhoe or an excavator, allowing close examination of the insitu soil if it is safe to enter into the pit. The depth of excavation is limited to about 3 m for a backhoe and up to 6 m for a large excavator. A potential disadvantage of this investigation method is the larger area of disturbance to the site.

#### **Large Diameter Augers**

Boreholes can be drilled using a rotating plate or short spiral auger, generally 300 mm or larger in diameter commonly mounted on a standard piling rig. The cuttings are returned to the surface at intervals (generally not more than 0.5 m) and are disturbed but usually unchanged in moisture content. Identification of soil strata is generally much more reliable than with continuous spiral flight augers, and is usually supplemented by occasional undisturbed tube samples.

#### **Continuous Spiral Flight Augers**

The borehole is advanced using 90-115 mm diameter continuous spiral flight augers which are withdrawn at intervals to allow sampling or in-situ testing. This is a relatively economical means of drilling in clays and sands above the water table. Samples are returned to the surface, or may be collected after withdrawal of the auger flights, but they are disturbed and may be mixed with soils from the sides of the hole. Information from the drilling (as distinct from specific sampling by SPTs or undisturbed samples) is of relatively low

reliability, due to the remoulding, possible mixing or softening of samples by groundwater.

#### **Non-core Rotary Drilling**

The borehole is advanced using a rotary bit, with water or drilling mud being pumped down the drill rods and returned up the annulus, carrying the drill cuttings. Only major changes in stratification can be determined from the cuttings, together with some information from the rate of penetration. Where drilling mud is used this can mask the cuttings and reliable identification is only possible from separate sampling such as SPTs.

#### **Continuous Core Drilling**

A continuous core sample can be obtained using a diamond tipped core barrel, usually with a 50 mm internal diameter. Provided full core recovery is achieved (which is not always possible in weak rocks and granular soils), this technique provides a very reliable method of investigation.

#### **Standard Penetration Tests**

Standard penetration tests (SPT) are used as a means of estimating the density or strength of soils and also of obtaining a relatively undisturbed sample. The test procedure is described in Australian Standard 1289, Methods of Testing Soils for Engineering Purposes - Test 6.3.1.

The test is carried out in a borehole by driving a 50 mm diameter split sample tube under the impact of a 63 kg hammer with a free fall of 760 mm. It is normal for the tube to be driven in three successive 150 mm increments and the 'N' value is taken as the number of blows for the last 300 mm. In dense sands, very hard clays or weak rock, the full 450 mm penetration may not be practicable and the test is discontinued.

The test results are reported in the following form.

 In the case where full penetration is obtained with successive blow counts for each 150 mm of, say, 4, 6 and 7 as:

> 4,6,7 N=13

In the case where the test is discontinued before the full penetration depth, say after 15 blows for the first 150 mm and 30 blows for the next 40 mm as:

15, 30/40 mm

# Sampling Methods

The results of the SPT tests can be related empirically to the engineering properties of the soils.

# Dynamic Cone Penetrometer Tests / Perth Sand Penetrometer Tests

Dynamic penetrometer tests (DCP or PSP) are carried out by driving a steel rod into the ground using a standard weight of hammer falling a specified distance. As the rod penetrates the soil the number of blows required to penetrate each successive 150 mm depth are recorded. Normally there is a depth limitation of 1.2 m, but this may be extended in certain conditions by the use of extension rods. Two types of penetrometer are commonly used.

- Perth sand penetrometer a 16 mm diameter flat ended rod is driven using a 9 kg hammer dropping 600 mm (AS 1289, Test 6.3.3). This test was developed for testing the density of sands and is mainly used in granular soils and filling.
- Cone penetrometer a 16 mm diameter rod with a 20 mm diameter cone end is driven using a 9 kg hammer dropping 510 mm (AS 1289, Test 6.3.2). This test was developed initially for pavement subgrade investigations, and correlations of the test results with California Bearing Ratio have been published by various road authorities.

# Soil Descriptions



#### **Description and Classification Methods**

The methods of description and classification of soils and rocks used in this report are based on Australian Standard AS 1726-1993, Geotechnical Site Investigations Code. In general, the descriptions include strength or density, colour, structure, soil or rock type and inclusions.

#### Soil Types

Soil types are described according to the predominant particle size, qualified by the grading of other particles present:

Туре	Particle size (mm)
Boulder	>200
Cobble	63 - 200
Gravel	2.36 - 63
Sand	0.075 - 2.36
Silt	0.002 - 0.075
Clay	<0.002

The sand and gravel sizes can be further subdivided as follows:

Туре	Particle size (mm)
Coarse gravel	20 - 63
Medium gravel	6 - 20
Fine gravel	2.36 - 6
Coarse sand	0.6 - 2.36
Medium sand	0.2 - 0.6
Fine sand	0.075 - 0.2

The proportions of secondary constituents of soils are described as:

Term	Proportion	Example	
And	Specify	Clay (60%) and Sand (40%)	
Adjective	20 - 35%	Sandy Clay	
Slightly	12 - 20%	Slightly Sandy Clay	
With some	5 - 12%	Clay with some sand	
With a trace of	0 - 5%	Clay with a trace of sand	

Definitions of grading terms used are:

- Well graded a good representation of all particle sizes
- Poorly graded an excess or deficiency of particular sizes within the specified range
- Uniformly graded an excess of a particular particle size
- Gap graded a deficiency of a particular particle size with the range

#### **Cohesive Soils**

Cohesive soils, such as clays, are classified on the basis of undrained shear strength. The strength may be measured by laboratory testing, or estimated by field tests or engineering examination. The strength terms are defined as follows:

Description	Abbreviation	Undrained shear strength (kPa)
Very soft	VS	<12
Soft	S	12 - 25
Firm	f	25 - 50
Stiff	st	50 - 100
Very stiff	vst	100 - 200
Hard	h	>200

#### **Cohesionless Soils**

Cohesionless soils, such as clean sands, are classified on the basis of relative density, generally from the results of standard penetration tests (SPT), cone penetration tests (CPT) or dynamic penetrometers (PSP). The relative density terms are given below:

Relative Density	Abbreviation	SPT N value	CPT qc value (MPa)
Very loose	vl	<4	<2
Loose	I	4 - 10	2 -5
Medium dense	md	10 - 30	5 - 15
Dense	d	30 - 50	15 - 25
Very dense	vd	>50	>25

# Soil Descriptions

#### Soil Origin

It is often difficult to accurately determine the origin of a soil. Soils can generally be classified as:

- Residual soil derived from in-situ weathering of the underlying rock;
- Transported soils formed somewhere else and transported by nature to the site; or
- Filling moved by man.

Transported soils may be further subdivided into:

- Alluvium river deposits
- Lacustrine lake deposits
- · Aeolian wind deposits
- · Littoral beach deposits
- Estuarine tidal river deposits
- Talus scree or coarse colluvium
- Slopewash or Colluvium transported downslope by gravity assisted by water.
   Often includes angular rock fragments and boulders.

# Symbols & Abbreviations Douglas Partners

#### Introduction

These notes summarise abbreviations commonly used on borehole logs and test pit reports.

#### **Drilling or Excavation Methods**

C	Core arilling
R	Rotary drilling
SFA	Spiral flight augers
NMLC	Diamond core - 52 mm dia
NQ	Diamond core - 47 mm dia
110	D:

Cara drilling

HQ Diamond core - 63 mm dia PQ Diamond core - 81 mm dia

#### Water

#### **Sampling and Testing**

Α	Auger sample
В	Bulk sample
D	Disturbed sample
E	Environmental sample

U<sub>50</sub> Undisturbed tube sample (50mm)

W Water sample

pp Pocket penetrometer (kPa)
PID Photo ionisation detector
PL Point load strength Is(50) MPa
S Standard Penetration Test

V Shear vane (kPa)

#### **Description of Defects in Rock**

The abbreviated descriptions of the defects should be in the following order: Depth, Type, Orientation, Coating, Shape, Roughness and Other. Drilling and handling breaks are not usually included on the logs.

#### **Defect Type**

	76.
В	Bedding plane
Cs	Clay seam
Cv	Cleavage
Cz	Crushed zone
Ds	Decomposed seam

F Fault
J Joint
Lam Lamination
Pt Parting
Sz Sheared Zone

V Vein

#### Orientation

The inclination of defects is always measured from the perpendicular to the core axis.

h	horizontal
V	vertical
sh	sub-horizontal
sv	sub-vertical

#### **Coating or Infilling Term**

cln	clean
СО	coating
he	healed
inf	infilled
stn	stained
ti	tight
vn	veneer

#### **Coating Descriptor**

ca	calcite
cbs	carbonaceous
cly	clay
fe	iron oxide
mn	manganese
slt	silty

#### **Shape**

cu	curved
ir	irregular
pl	planar
st	stepped
un	undulating

#### Roughness

ро	polished
ro	rough
sl	slickensided
sm	smooth
vr	very rough

#### Other

fg	fragmented
bnd	band
qtz	quartz

# Symbols & Abbreviations

Talus

Graphic Syr	nbols for Soil and Rock		
General		Sedimentary	Rocks
	Asphalt		Boulder conglomerate
	Road base		Conglomerate
A. A. A. Z D. D. D. I	Concrete		Conglomeratic sandstone
	Filling		Sandstone
Soils			Siltstone
	Topsoil		Laminite
* * * * ;	Peat		Mudstone, claystone, shale
	Clay		Coal
	Silty clay		Limestone
/:/:/:/: :/.:/:/:	Sandy clay	Metamorphic	Rocks
	Gravelly clay		Slate, phyllite, schist
-/-/-/- -/-/-/-/-	Shaly clay	+ + +	Gneiss
	Silt		Quartzite
	Clayey silt	Igneous Roc	ks
	Sandy silt	+ + + + + + + + + + + + + + + + + + + +	Granite
	Sand	<	Dolerite, basalt, andesite
	Clayey sand	$\begin{pmatrix} \times & \times & \times \\ \times & \times & \times \end{pmatrix}$	Dacite, epidote
·   ·   ·   ·   ·   ·   ·   ·   ·   ·	Silty sand		Tuff, breccia
	Gravel	P	Porphyry
; Ça : ; o C	Sandy gravel		
	Cobbles, boulders		

# Appendix I

**Summary Tables** 



Table 1: Summary of Laboratory Results - Metals, TRH, BTEX, PAH

							etals						TF	KH				BT	LA			P/		
			Arsenic	Cadmium	Chromium (VI)	Copper	Lead	Mercury (inorganic)	Nickel	Zinc	TRH C6 - C10	TRH >C10-C16	F1 ((C6-C10)- BTEX)	F2 ( >C10-C16 less Naphthalene)	F3 (>C16-C34)	F4 (>C34-C40)	Benzene	Toluene	Ethylbenzene	Total Xylenes	Naphthalene <sup>b</sup>	Benzo(a)pyrene (BaP)	Benzo(a)pyrene TEQ	Total PAHs
		PQL	4	0.4	1	1	1	0.1	1	1	25	50	25	50	100	100	0.2	0.5	1	1	1	0.05	0.5	0.05
Sample ID	Depth	Sampled Date	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TP1	0 - 2.3m	01/07/2019	9 3000 160	<0.4 900 NC	<b>20</b> 3600 1100	31 2E+05 150	92 1500 1800	<b>0.2</b> 730 NC	10 6000 60	<b>170</b> 400000 440	<25 NC NC	<50 NC NC	<25 NL 215	<50 NL 170	<100 NC 2500	<100 NC 6600	<0.2 9 95	<0.5 NL 135	<1 NL 185	<1 NL 95	<1 NL 370	<0.05 NC 1.4	<0.5 40 NC	<0.05 4000 NC
TP2	0 - 0.1m	02/07/2019	<b>5</b> 3000 160	<0.4 900 NC	<b>12</b> 3600 1100	36 2E+05 150	24 1500 1800	<0.1 730 NC	18 6000 60	<b>69</b> 400000 440	<25 NC NC	<50 NC NC	<25 310 215	<50 NL 170	260 NC 2500	<100 NC 6600	<0.2 4 95	<0.5 NL 135	<1 NL 185	<1 NL 95	<1 NL 370	<0.05 NC 1.4	<0.5 40 NC	<0.05 4000 NC
TP3	0 - 0.05m	02/07/2019	6 3000 160	<0.4 900 NC	14 3600 1100	29 2E+05 150	<b>45</b> 1500 1800	<b>0.1</b> 730 NC	13 6000 60	<b>81</b> 400000 440	<25 NC NC	<50 NC NC	<25 310 215	<50 NL 170	140 NC 2500	<100 NC 6600	<0.2 4 95	<0.5 NL 135	<1 NL 185	<1 NL 95	<1 NL 370	<0.05 NC 1.4	<0.5 40 NC	<0.05 4000 NC
TP4	0 - 0.1m	02/07/2019	6 3000 160	<0.4 900 NC	8 3600 1100	43 2E+05 150	19 1500 1800	<b>0.1</b> 730 NC	32 6000 60	<b>88</b> 400000 440	<25 NC NC	<50 NC NC	<25 310 215	<50 NL 170	<100 NC 2500	<100 NC 6600	<0.2 4 95	<0.5 NL 135	<1 NL 185	<1 NL 95	<1 NL 370	<0.05 NC 1.4	<0.5 40 NC	<0.05 4000 NC
TP5	0 - 0.1m	02/07/2019	6 3000 160	<0.4 900 NC	16 3600 1100	25 2E+05 150	20 1500 1800	<0.1 730 NC	10 6000 60	<b>39</b> 400000 440	<25 NC NC	<50 NC NC	<25 310 215	<50 NL 170	<100 NC 2500	<100 NC 6600	<0.2 4 95	<0.5 NL 135	<1 NL 185	<1 NL 95	<1 NL 370	<0.05 NC 1.4	<0.5 40 NC	<0.05 4000 NC
TP6	0 - 0.1m	02/07/2019	9 3000 160	<0.4 900 NC	<b>21</b> 3600 1100	32 2E+05 150	22 1500 1800	<0.1 730 NC	11 6000 60	<b>38</b> 400000 440	<25 NC NC	<50 NC NC	<25 310 215	<50 NL 170	<100 NC 2500	<100 NC 6600	<0.2 4 95	<0.5 NL 135	<1 NL 185	<1 NL 95	<1 NL 370	<0.05 NC 1.4	<0.5 40 NC	<0.05 4000 NC
TP7	0 - 0.1m	02/07/2019	11 3000 160	<0.4 900 NC	16 3600 1100	12 2E+05 150	26 1500 1800	<0.1 730 NC	9 6000 60	<b>38</b> 400000 440	<25 NC NC	<50 NC NC	<25 310 215	<50 NL 170	<100 NC 2500	<100 NC 6600	<0.2 4 95	<0.5 NL 135	<1 NL 185	<1 NL 95	<1 NL 370	<0.05 NC 1.4	<0.5 40 NC	<0.05 4000 NC
BD2 020719	0m	02/07/2019	NT 3000 160	NT 900 NC	NT 3600 1100	NT 2E+05 150	NT 1500 1800	NT 730 NC	NT 6000 60	NT 400000 440	<25 NC NC	<50 NC NC	<25 310 215	<50 NL 170	<100 NC 2500	<100 NC 6600	<0.2 4 95	<0.5 NL 135	<1 NL 185	<1 NL 95	<1 NL 370	NT NC 1.4	NT 40 NC	NT 4000 NC
TP8	0 - 0.1m	02/07/2019	9 3000 160	<0.4 900 NC	15 3600 1100	28 2E+05 150	21 1500 1800	<0.1 730 NC	16 6000 60	<b>52</b> 400000 440	<25 NC NC	<50 NC NC	<25 310 215	<50 NL 170	<100 NC 2500	<100 NC 6600	<0.2 4 95	<0.5 NL 135	<1 NL 185	<1 NL 95	<1 NL 370	<0.05 NC 1.4	<0.5 40 NC	<0.05 4000 NC
TP9	0 - 0.1m	02/07/2019	9 3000 160	<0.4 900 NC	17 3600 1100	21 2E+05 150	21 1500 1800	<0.1 730 NC	14 6000 60	<b>45</b> 400000 440	<25 NC NC	<50 NC NC	<25 310 215	<50 NL 170	<100 NC 2500	<100 NC 6600	<0.2 4 95	<0.5 NL 135	<1 NL 185	<1 NL 95	<1 NL 370	<0.05 NC 1.4	<0.5 40 NC	<0.05 4000 NC
TP10	0 - 0.1m	02/07/2019	5 3000 160	<0.4 900 NC	15 3600 1100	23 2E+05 150	20 1500 1800	<0.1 730 NC	14 6000 60	<b>61</b> 400000 440	<25 NC NC	<50 NC NC	<25 310 215	<50 NL 170	<100 NC 2500	<100 NC 6600	<0.2 4 95	<0.5 NL 135	<1 NL 185	<1 NL 95	<1 NL 370	<0.05 NC 1.4	<0.5 40 NC	<0.05 4000 NC
TP11	0 - 0.1m	02/07/2019	12 3000 160	<0.4 900 NC	15 3600 1100	24 2E+05 150	22 1500 1800	<0.1	16 6000 60	<b>45</b> 400000 440	<25 NC NC	<50 NC NC	<25 310 215	<50 NL 170	<100 NC 2500	<100 NC 6600	<0.2 4 95	<0.5 NL 135	<1 NL 185	<1 NL 95	<1 NL 370	<0.05 NC 1.4	<0.5 40 NC	<0.05 4000 NC
TP12	0 - 0.1m	02/07/2019	5 3000 160	<0.4 900 NC	13 3600 1100	27 2E+05 150	19 1500 1800	<0.1	12 6000 60	<b>60</b> 400000 440	<25 NC NC	<50 NC NC	<25 310 215	<50 NL 170	<100 NC 2500	<100 NC 6600	<0.2 4 95	<0.5 NL 135	<1 NL 185	<1 NL 95	<1 NL 370	<0.05 NC 1.4	<0.5 40 NC	<0.05 4000 NC
TP13	0 - 0.1m	01/07/2019	9 3000 160	<0.4	15 3600 1100	27 2E+05 150	17 1500 1800	<0.1	17 6000 60	<b>49</b> 400000 440	<25 NC NC	<50 NC NC	<25 310 215	<50 NL 170	<100 NC 2500	<100 NC 6600	<0.2 4 95	<0.5 NL 135	<1 NL 185	<1 NL 95	<1 NL 370	<0.05 NC 1.4	<0.5	<0.05 4000 NC
TP14	0 - 0.1m	01/07/2019	9 3000 160	<0.4	16 3600 1100	26 2E+05 150	21 1500 1800	<0.1	13 6000 60	<b>51</b> 400000 440	<25 NC NC	<50 NC NC	<25 310 215	<50 NL 170	<100 NC 2500	<100 NC 6600	<0.2 4 95	<0.5 NL 135	<1 NL 185	<1 NL 95	<1 NL 370	<0.05 NC 1.4	<0.5 40 NC	<0.05 4000 NC
TP15	0 - 0.1m	01/07/2019	<b>11</b> 3000 160	<0.4	13 3600 1100	25 2E+05 150	17 1500 1800	<0.1	16 6000 60	<b>46</b> 400000 440	<25 NC NC	<50 NC NC	<25 310 215	<50 NL 170	<100 NC 2500	<100 NC 6600	<0.2 4 95	<0.5 NL 135	<1 NL 185	<1 NL 95	<1 NL 370	<0.05 NC 1.4	<0.5	<0.05 4000 NC
TP16	0 - 0.1m	01/07/2019	9 3000 160	1 900 NC	<b>20</b> 3600 1100	26 2E+05 150	<b>31</b> 1500 1800	<b>0.1</b> 730 NC	13 6000 60	950 400000 440	<25 NC NC	<50 NC NC	<25 310 215	<50 NL 170	<100 NC 2500	<100 NC 6600	<0.2 4 95	<0.5 NL 135	<1 NL 185	<1 NL 95	<1 NL 370	<0.05 NC 1.4	<0.5	<0.05 4000 NC
TP17	0 - 0.1m	01/07/2019	9 3000 160	<0.4	16 3600 1100	23 2E+05 150	18 1500 1800	<0.1	16 6000 60	<b>44</b> 400000 440	<25 NC NC	<50 NC NC	<25 310 215	<50 NL 170	<100 NC 2500	<100 NC 6600	<0.2 4 95	<0.5 NL 135	<1 NL 185	<1 NL 95	<1 NL 370	<0.05 NC 1.4	<0.5	<0.05 4000 NC
TP18	0 - 0.1m	01/07/2019	10 3000 160	<0.4 900 NC	14 3600 1100	14 2E+05 150	26 1500 1800	<0.1	12 6000 60	<b>49</b> 400000 440	<25 NC NC	<50 NC NC	<25 310 215	<50 NL 170	<100 NC 2500	<100 NC 6600	<0.2 4 95	<0.5 NL 135	<1 NL 185	<1 NL 95	<1 NL 370	<0.05 NC 1.4	<0.5	<0.05 4000 NC
TP19	0 - 0.5m	01/07/2019	<4 3000 160	<0.4	12 3600 1100	10 2E+05 150	14 1500 1800	<0.1	5 6000 60	<b>37</b> 400000 440	<25 NC NC	<50 NC NC	<25 310 215	<50 NL 170	<100 NC 2500	<100 NC 6600	<0.2 4 95	<0.5 NL 135	<1 NL 185	<1 NL 95	<1 NL 370	<0.05 NC 1.4	<0.5	<0.05 4000 NC
TP20	0 - 0.1m	01/07/2019	8 3000 160	<0.4 900 NC	17 3600 1100	17 2E+05 150	23 1500 1800	<0.1	8 6000 60	<b>40</b>	<25 NC NC	<50	<25 310 215	<50 NL 170	<100 NC 2500	<100 NC 6600	<0.2 4 95	<0.5 NL 135	<1 NL 185	<1 NL 95	<1 NL 370	<0.05 NC 1.4	<0.5	<0.05 4000 NC
TP21	0 - 0.1m	01/07/2019	11 3000 160	<0.4 900 NC	17 3600 1100	38 2E+05 150	17 1500 1800	<0.1 730 NC	17 6000 60	<b>70</b> 400000 440	<25 NC NC	<50 NC NC	<25 310 215	<50 NL 170	<100 NC 2500	<100 NC 6600	<0.2 4 95	<0.5 NL 135	<1 NL 185	<1 NL 95	<1 NL 370	0.3 NC 1.4	<0.5	2.6 4000 NC

Lab result

HIL/HSL value EIL/ESL value

HIL/HSL exceedance EIL/ESL exceedance HIL/HSL and EIL/ESL exceedance ML exceedance ML and HIL/HSL or EIL/ESL exceedance

■ Indicates that asbestos has been detected by the lab below the PQL, refer to the lab report Blue = DC exceedance

**Bold** = Lab detections NT = Not tested NL = Non limiting NC = No criteria NA = Not applicable NAD = No asbestos detected

Notes:

HIL/HSL/DC NEPC, Schedule B1 - HIL D (Commercial / Industrial), HSL D (Commercial / Industrial), DC HSL D (Direct contact HSL D Commercial/Industrial)

EIL/ESL NEPC, Schedule B1 - EIL C/Ind (Commercial and Industrial), ESL C/Ind (Commercial and Industrial)

ML NEPC, Schedule B1 - ML C/Ind (Commercial and Industrial)

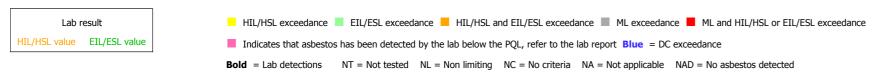
a QA/QC replicate of sample listed directly below the primary sample b reported naphthalene laboratory result obtained from BTEXN suite

criteria applies to DDT only



#### Table 2: Summary of Laboratory Results - Phenol, OCP, OPP, PCB, Asbestos, Asbestos

			Phenol				0	СР				OPP	PCB		Asbestos					Asbestos			
			Phenol	DDT+DDE+DDD	Aldrin & Dieldrin	Total Chlordane	Total Endosulfan	Endrin	Heptachlor	HCB	Methoxychlor	Chlorpyriphos	Total PCB	Asbestos ID in soil >0.1g/kg	Trace Analysis	Asbestos (50 g)	Asbestos ID in soil >0.1g/kg	Trace Analysis	Asbestos ID in soil <0.1g/kg	ACM >7mm Estimation	FA and AF Estimation	FA and AF Estimation	Asbestos (500 ml)
		PQL	5	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1										
Sample ID	Depth	Sampled Date	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	-	-	-	-	-	-	g	g	%(w/w)	-
TP1	0 - 2.3m	01/07/2019	<5 660 NC	<0.1 3600 640	<0.1 45 NC	<b>0.1</b> 530 NC	<0.1 2000 NC	<0.1 100 NC	<0.1 50 NC	<0.1 80 NC	<0.1 2500 NC	<0.1 2000 NC	<0.1 7 NC	NAD	NAD	NAD	NT	NT	NT	NT	NT	NT	NT
TP2	0 - 0.1m	02/07/2019	NT 660 NC	<0.1 3600 640	<0.1 45 NC	<0.1 530 NC	<0.1 2000 NC	<0.1 100 NC	<0.1 50 NC	<0.1 80 NC	<0.1 2500 NC	<0.1 2000 NC	<0.1 7 NC	NAD	NAD	NAD	NT	NT	NT	NT	NT	NT	NT
TP3	0 - 0.05m	02/07/2019	<5 660 NC	<0.1 3600 640	<0.1 45 NC	<0.1 530 NC	<0.1 2000 NC	<0.1 100 NC	<0.1 50 NC	<0.1 80 NC	<0.1 2500 NC	<0.1 2000 NC	<0.1 7 NC	NAD	NAD	NAD	NT	NT	NT	NT	NT	NT	NT
TP4	0 - 0.1m	02/07/2019	<5 660 NC	<0.1 3600 640	<0.1 45 NC	<0.1 530 NC	<0.1 2000 NC	<0.1 100 NC	<0.1	<0.1 80 NC	<0.1 2500 NC	<0.1 2000 NC	<0.1 7 NC	NAD	NAD	NAD	NT	NT	NT	NT	NT	NT	NT
TP5	0 - 0.1m	02/07/2019	<5 660 NC	<0.1 3600 640	<0.1 45 NC	<0.1 530 NC	<0.1 2000 NC	<0.1 100 NC	<0.1	<0.1 80 NC	<0.1 2500 NC	<0.1 2000 NC	<0.1 7 NC	NAD	NAD	NAD	NT	NT	NT	NT	NT	NT	NT
TP6	0 - 0.1m	02/07/2019	NT 660 NC	<0.1 3600 640	<0.1 45 NC	<0.1 530 NC	<0.1 2000 NC	<0.1 100 NC	<0.1	<0.1 80 NC	<0.1 2500 NC	<0.1 2000 NC	<0.1 7 NC	NAD	NAD	NAD	NT	NT	NT	NT	NT	NT	NT
TP7	0 - 0.1m	02/07/2019	<5 660 NC	<0.1 3600 640	<0.1 45 NC	<0.1 530 NC	<0.1 2000 NC	<0.1 100 NC	<0.1 50 NC	<0.1 80 NC	<0.1 2500 NC	<0.1 2000 NC	<0.1 7 NC	NAD	NAD	NAD	NT	NT	NT	NT	NT	NT	NT
TP8	0 - 0.1m	02/07/2019	NT 660 NC	<0.1 3600 640	<0.1 45 NC	<0.1 530 NC	<0.1 2000 NC	<0.1 100 NC	<0.1 50 NC	<0.1 80 NC	<0.1 2500 NC	<0.1 2000 NC	<0.1 7 NC	NAD	NAD	NAD	NT	NT	NT	NT	NT	NT	NT
TP9	0 - 0.1m	02/07/2019	NT 660 NC	<0.1 3600 640	<0.1 45 NC	<0.1 530 NC	<0.1 2000 NC	<0.1 100 NC	<0.1 50 NC	<0.1 80 NC	<0.1 2500 NC	<0.1 2000 NC	<0.1 7 NC	NAD	NAD	NAD	NT	NT	NT	NT	NT	NT	NT
TP10	0 - 0.1m	02/07/2019	NT	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	NAD	NAD	NAD	NT	NT	NT	NT	NT	NT	NT
TP11	0 - 0.1m	02/07/2019	660 NC NT 660 NC	<0.1	45 NC <0.1	<0.1	<0.1	100 NC <0.1	50 NC <0.1 50 NC	<0.1	2500 NC <0.1	2000 NC <0.1	7 NC <0.1 7 NC	NAD	NAD	NAD	NT	NT	NT	NT	NT	NT	NT
TP12	0 - 0.1m	02/07/2019	<5	<0.1	45 NC <0.1	<0.1	<0.1	100 NC <0.1	<0.1	<0.1	2500 NC <0.1	2000 NC <0.1	<0.1	NAD	NAD	NAD	NT	NT	NT	NT	NT	NT	NT
TP13	0 - 0.1m	01/07/2019	NT NC	<0.1	45 NC <0.1	<0.1	<0.1	100 NC <0.1	50 NC <0.1	80 NC <0.1	2500 NC <0.1	<0.1	7 NC <0.1	NAD	NAD	NAD	NT	NT	NT	NT	NT	NT	NT
TP14	0 - 0.1m	01/07/2019	660 NC NT	<0.1	45 NC <0.1	530 NC <0.1	2000 NC <0.1	100 NC <0.1	50 NC <0.1	80 NC <0.1	2500 NC <0.1	2000 NC <0.1	7 NC <0.1	NAD	NAD	NAD	NT	NT	NT	NT	NT	NT	NT
TP15	0 - 0.1m	01/07/2019	660 NC <5	<0.1	45 NC <0.1	530 NC <0.1	2000 NC <0.1	100 NC <0.1	50 NC <0.1	80 NC <0.1	2500 NC <0.1	2000 NC <0.1	7 NC <0.1	NAD	NAD	NAD	NT	NT	NT	NT	NT	NT	NT
TP16	0 - 0.1m	01/07/2019	660 NC <5	<0.1	45 NC <0.1	530 NC <0.1	2000 NC <0.1	100 NC <0.1	50 NC <0.1	80 NC <0.1	2500 NC <0.1	2000 NC <0.1	7 NC <0.1	NT	NT	NT	Detected	NAD	NAD	Detected	NT	NAD	Detected
TP17	0 - 0.1m	01/07/2019	660 NC NT	3600 640 <0.1	45 NC <0.1	530 NC <0.1	2000 NC <0.1	100 NC <0.1	50 NC <0.1	80 NC <0.1	2500 NC <0.1	2000 NC <0.1	7 NC <0.1	NAD	NAD	NAD	NT	NT	NT	NT	NT	NT	NT
TP18	0 - 0.1m	01/07/2019	660 NC NT	3600 640 <0.1	45 NC <0.1	530 NC <0.1	2000 NC <0.1	100 NC <0.1	50 NC <0.1	80 NC <0.1	2500 NC <0.1	2000 NC <0.1	7 NC <0.1	NAD	NAD	NAD	NT	NT	NT	NT	NT	NT	NT
TP19	0 - 0.5m	01/07/2019	660 NC <5	3600 640 <0.1	45 NC <0.1	530 NC <0.1	2000 NC <0.1	100 NC <0.1	50 NC <0.1	80 NC <0.1	2500 NC <0.1	2000 NC <0.1	7 NC <0.1	NAD	NAD	NAD	NT	NT	NT	NT	NT	NT	NT
			660 NC	3600 640 <0.1	45 NC <0.1	530 NC <0.1	2000 NC <0.1	100 NC <0.1	50 NC <0.1	80 NC <0.1	2500 NC <0.1	2000 NC <0.1	7 NC <0.1										
TP20	0 - 0.1m	01/07/2019	660 NC	3600 640 <0.1	45 NC <0.1	530 NC	2000 NC <0.1	100 NC	50 NC <0.1	80 NC	2500 NC <0.1	2000 NC	7 NC	NAD	NAD	NAD	NT	NT	NT	NT	NT	NT	NT
TP21	0 - 0.1m	01/07/2019	660 NC				2000 NC	<0.1 100 NC	50 NC	80 NC	2500 NC	<0.1 2000 NC	<0.1 7 NC	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT



Notes:

HIL/HSL/DC NEPC, Schedule B1 - HIL D (Commercial / Industrial), HSL D (Commercial / Industrial), DC HSL D (Direct contact HSL D Commercial/Industrial)

EIL/ESL NEPC, Schedule B1 - EIL C/Ind (Commercial and Industrial), ESL C/Ind (Commercial and Industrial)

ML NEPC, Schedule B1 - ML C/Ind (Commercial and Industrial)
a QA/QC replicate of sample listed directly below the primary sample
b reported naphthalene laboratory result obtained from BTEXN suite

c criteria applies to DDT only

# Appendix J

Laboratory Analytical Report



Envirolab Services Pty Ltd

ABN 37 112 535 645 12 Ashley St Chatswood NSW 2067 ph 02 9910 6200 fax 02 9910 6201 customerservice@envirolab.com.au www.envirolab.com.au

#### **CERTIFICATE OF ANALYSIS 221119**

Client Details	
Client	Douglas Partners Pty Ltd Smeaton Grange
Attention	Lachlan Clement, Emily McGinty
Address	18 Waler Crescent, Smeaton Grange, NSW, 2567

Sample Details	
Your Reference	92352.00, Kemps Creek
Number of Samples	30 Soil, 1 Material
Date samples received	05/07/2019
Date completed instructions received	05/07/2019

#### **Analysis Details**

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Please refer to the last page of this report for any comments relating to the results.

Report Details		
Date results requested by	12/07/2019	
Date of Issue	12/07/2019	
NATA Accreditation Number 2901	. This document shall not be reproduced except in full.	
Accredited for compliance with IS	O/IFC 17025 - Testing. Tests not covered by NATA are denoted with *	

#### **Asbestos Approved By**

Analysed by Asbestos Approved Identifier: Aida Marner Authorised by Asbestos Approved Signatory: Lucy Zhu

#### **Results Approved By**

Diego Bigolin, Team Leader, Inorganics Jaimie Loa-Kum-Cheung, Metals Supervisor Lucy Zhu, Senior Asbestos Analyst Priya Samarawickrama, Senior Chemist Steven Luong, Organics Supervisor **Authorised By** 

Nancy Zhang, Laboratory Manager



vTRH(C6-C10)/BTEXN in Soil						
Our Reference		221119-1	221119-2	221119-3	221119-4	221119-5
Your Reference	UNITS	TP1	TP2	TP3	TP4	TP5
Depth		2.3	0.1	0.05	0.1	0.1
Date Sampled		01/07/2019	02/07/2019	02/07/2019	02/07/2019	02/07/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	08/07/2019	08/07/2019	08/07/2019	08/07/2019	08/07/2019
Date analysed	-	09/07/2019	09/07/2019	09/07/2019	09/07/2019	09/07/2019
TRH C <sub>6</sub> - C <sub>9</sub>	mg/kg	<25	<25	<25	<25	<25
TRH C <sub>6</sub> - C <sub>10</sub>	mg/kg	<25	<25	<25	<25	<25
vTPH C <sub>6</sub> - C <sub>10</sub> less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<3	<3	<3	<3	<3
Surrogate aaa-Trifluorotoluene	%	76	87	80	83	90

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		221119-6	221119-7	221119-8	221119-9	221119-10
Your Reference	UNITS	TP6	TP7	TP8	TP9	TP10
Depth		0.1	0.1	0.1	0.1	0.1
Date Sampled		02/07/2019	02/07/2019	02/07/2019	02/07/2019	02/07/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	08/07/2019	08/07/2019	08/07/2019	08/07/2019	08/07/2019
Date analysed	-	09/07/2019	09/07/2019	09/07/2019	09/07/2019	09/07/2019
TRH C6 - C9	mg/kg	<25	<25	<25	<25	<25
TRH C <sub>6</sub> - C <sub>10</sub>	mg/kg	<25	<25	<25	<25	<25
vTPH C <sub>6</sub> - C <sub>10</sub> less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<3	<3	<3	<3	<3
Surrogate aaa-Trifluorotoluene	%	73	90	71	78	83

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		221119-11	221119-12	221119-13	221119-14	221119-15
Your Reference	UNITS	TP11	TP12	TP13	TP14	TP15
Depth		0.1	0.1	0.1	0.1	0.1
Date Sampled		02/07/2019	02/07/2019	01/07/2019	01/07/2019	01/07/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	08/07/2019	08/07/2019	08/07/2019	08/07/2019	08/07/2019
Date analysed	-	09/07/2019	09/07/2019	09/07/2019	09/07/2019	09/07/2019
TRH C <sub>6</sub> - C <sub>9</sub>	mg/kg	<25	<25	<25	<25	<25
TRH C <sub>6</sub> - C <sub>10</sub>	mg/kg	<25	<25	<25	<25	<25
vTPH C <sub>6</sub> - C <sub>10</sub> less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<3	<3	<3	<3	<3
Surrogate aaa-Trifluorotoluene	%	83	81	76	78	83

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		221119-16	221119-17	221119-18	221119-19	221119-20
Your Reference	UNITS	TP16	TP17	TP18	TP19	TP20
Depth		0.1	0.1	0.1	0.5	0.1
Date Sampled		01/07/2019	01/07/2019	01/07/2019	01/07/2019	01/07/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	08/07/2019	08/07/2019	08/07/2019	08/07/2019	08/07/2019
Date analysed	-	09/07/2019	09/07/2019	09/07/2019	09/07/2019	09/07/2019
TRH C <sub>6</sub> - C <sub>9</sub>	mg/kg	<25	<25	<25	<25	<25
TRH C <sub>6</sub> - C <sub>10</sub>	mg/kg	<25	<25	<25	<25	<25
vTPH C <sub>6</sub> - C <sub>10</sub> less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<3	<3	<3	<3	<3
Surrogate aaa-Trifluorotoluene	%	78	76	77	90	80

vTRH(C6-C10)/BTEXN in Soil					
Our Reference		221119-26	221119-27	221119-28	221119-30
Your Reference	UNITS	ТВ	TS	BD2 020719	TP21
Depth		-	-	-	0.1
Date Sampled		01/07/2019	01/07/2019	02/07/2019	01/07/2019
Type of sample		Soil	Soil	Soil	Soil
Date extracted	-	08/07/2019	08/07/2019	08/07/2019	09/07/2019
Date analysed	-	09/07/2019	09/07/2019	09/07/2019	10/07/2019
TRH C6 - C9	mg/kg	<25	[NA]	<25	<25
TRH C6 - C10	mg/kg	<25	[NA]	<25	<25
vTPH C <sub>6</sub> - C <sub>10</sub> less BTEX (F1)	mg/kg	<25	[NA]	<25	<25
Benzene	mg/kg	<0.2	99%	<0.2	<0.2
Toluene	mg/kg	<0.5	99%	<0.5	<0.5
Ethylbenzene	mg/kg	<1	99%	<1	<1
m+p-xylene	mg/kg	<2	99%	<2	<2
o-Xylene	mg/kg	<1	99%	<1	<1
naphthalene	mg/kg	<1	[NA]	<1	<1
Total +ve Xylenes	mg/kg	<3	[NA]	<3	<3
Surrogate aaa-Trifluorotoluene	%	91	79	83	91

svTRH (C10-C40) in Soil						
Our Reference		221119-1	221119-2	221119-3	221119-4	221119-5
Your Reference	UNITS	TP1	TP2	TP3	TP4	TP5
Depth		2.3	0.1	0.05	0.1	0.1
Date Sampled		01/07/2019	02/07/2019	02/07/2019	02/07/2019	02/07/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	08/07/2019	08/07/2019	08/07/2019	08/07/2019	08/07/2019
Date analysed	-	09/07/2019	09/07/2019	09/07/2019	09/07/2019	09/07/2019
TRH C <sub>10</sub> - C <sub>14</sub>	mg/kg	<50	<50	<50	<50	<50
TRH C <sub>15</sub> - C <sub>28</sub>	mg/kg	<100	190	<100	<100	<100
TRH C <sub>29</sub> - C <sub>36</sub>	mg/kg	<100	100	120	<100	<100
TRH >C10 -C16	mg/kg	<50	<50	<50	<50	<50
TRH >C <sub>10</sub> - C <sub>16</sub> less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C <sub>16</sub> -C <sub>34</sub>	mg/kg	<100	260	140	<100	<100
TRH >C <sub>34</sub> -C <sub>40</sub>	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	260	140	<50	<50
Surrogate o-Terphenyl	%	88	89	98	87	88

svTRH (C10-C40) in Soil						
Our Reference		221119-6	221119-7	221119-8	221119-9	221119-10
Your Reference	UNITS	TP6	TP7	TP8	TP9	TP10
Depth		0.1	0.1	0.1	0.1	0.1
Date Sampled		02/07/2019	02/07/2019	02/07/2019	02/07/2019	02/07/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	08/07/2019	08/07/2019	08/07/2019	08/07/2019	08/07/2019
Date analysed	-	09/07/2019	09/07/2019	09/07/2019	09/07/2019	09/07/2019
TRH C <sub>10</sub> - C <sub>14</sub>	mg/kg	<50	<50	<50	<50	<50
TRH C <sub>15</sub> - C <sub>28</sub>	mg/kg	<100	<100	<100	<100	<100
TRH C <sub>29</sub> - C <sub>36</sub>	mg/kg	<100	<100	<100	<100	<100
TRH >C <sub>10</sub> -C <sub>16</sub>	mg/kg	<50	<50	<50	<50	<50
TRH >C <sub>10</sub> - C <sub>16</sub> less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C <sub>16</sub> -C <sub>34</sub>	mg/kg	<100	<100	<100	<100	<100
TRH >C <sub>34</sub> -C <sub>40</sub>	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	89	80	94	81	87

svTRH (C10-C40) in Soil						
Our Reference		221119-11	221119-12	221119-13	221119-14	221119-15
Your Reference	UNITS	TP11	TP12	TP13	TP14	TP15
Depth		0.1	0.1	0.1	0.1	0.1
Date Sampled		02/07/2019	02/07/2019	01/07/2019	01/07/2019	01/07/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	08/07/2019	08/07/2019	08/07/2019	08/07/2019	08/07/2019
Date analysed	-	09/07/2019	09/07/2019	09/07/2019	09/07/2019	09/07/2019
TRH C <sub>10</sub> - C <sub>14</sub>	mg/kg	<50	<50	<50	<50	<50
TRH C <sub>15</sub> - C <sub>28</sub>	mg/kg	<100	<100	<100	<100	<100
TRH C <sub>29</sub> - C <sub>36</sub>	mg/kg	<100	<100	<100	<100	<100
TRH >C <sub>10</sub> -C <sub>16</sub>	mg/kg	<50	<50	<50	<50	<50
TRH >C <sub>10</sub> - C <sub>16</sub> less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C <sub>16</sub> -C <sub>34</sub>	mg/kg	<100	<100	<100	<100	<100
TRH >C34 -C40	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	95	87	106	91	82

svTRH (C10-C40) in Soil						
Our Reference		221119-16	221119-17	221119-18	221119-19	221119-20
Your Reference	UNITS	TP16	TP17	TP18	TP19	TP20
Depth		0.1	0.1	0.1	0.5	0.1
Date Sampled		01/07/2019	01/07/2019	01/07/2019	01/07/2019	01/07/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	08/07/2019	08/07/2019	08/07/2019	08/07/2019	08/07/2019
Date analysed	-	09/07/2019	09/07/2019	09/07/2019	09/07/2019	09/07/2019
TRH C <sub>10</sub> - C <sub>14</sub>	mg/kg	<50	<50	<50	<50	<50
TRH C <sub>15</sub> - C <sub>28</sub>	mg/kg	<100	<100	<100	<100	<100
TRH C <sub>29</sub> - C <sub>36</sub>	mg/kg	<100	<100	<100	<100	<100
TRH >C <sub>10</sub> -C <sub>16</sub>	mg/kg	<50	<50	<50	<50	<50
TRH >C <sub>10</sub> - C <sub>16</sub> less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C <sub>16</sub> -C <sub>34</sub>	mg/kg	<100	<100	<100	<100	<100
TRH >C <sub>34</sub> -C <sub>40</sub>	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	88	91	85	94	89

Envirolab Reference: 221119

svTRH (C10-C40) in Soil				
Our Reference		221119-26	221119-28	221119-30
Your Reference	UNITS	ТВ	BD2 020719	TP21
Depth		-	-	0.1
Date Sampled		01/07/2019	02/07/2019	01/07/2019
Type of sample		Soil	Soil	Soil
Date extracted	-	08/07/2019	08/07/2019	09/07/2019
Date analysed	-	09/07/2019	09/07/2019	10/07/2019
TRH C <sub>10</sub> - C <sub>14</sub>	mg/kg	<50	<50	<50
TRH C <sub>15</sub> - C <sub>28</sub>	mg/kg	<100	<100	<100
TRH C <sub>29</sub> - C <sub>36</sub>	mg/kg	<100	<100	<100
TRH >C <sub>10</sub> -C <sub>16</sub>	mg/kg	<50	<50	<50
TRH >C <sub>10</sub> - C <sub>16</sub> less Naphthalene (F2)	mg/kg	<50	<50	<50
TRH >C <sub>16</sub> -C <sub>34</sub>	mg/kg	<100	<100	<100
TRH >C <sub>34</sub> -C <sub>40</sub>	mg/kg	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50
Surrogate o-Terphenyl	%	96	87	85

PAHs in Soil						
Our Reference		221119-1	221119-2	221119-3	221119-4	221119-5
Your Reference	UNITS	TP1	TP2	TP3	TP4	TP5
Depth		2.3	0.1	0.05	0.1	0.1
Date Sampled		01/07/2019	02/07/2019	02/07/2019	02/07/2019	02/07/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	08/07/2019	08/07/2019	08/07/2019	08/07/2019	08/07/2019
Date analysed	-	09/07/2019	09/07/2019	09/07/2019	09/07/2019	09/07/2019
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	125	93	95	93	87

Envirolab Reference: 221119

PAHs in Soil						
Our Reference		221119-6	221119-7	221119-8	221119-9	221119-10
Your Reference	UNITS	TP6	TP7	TP8	TP9	TP10
Depth		0.1	0.1	0.1	0.1	0.1
Date Sampled		02/07/2019	02/07/2019	02/07/2019	02/07/2019	02/07/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	08/07/2019	08/07/2019	08/07/2019	08/07/2019	08/07/2019
Date analysed	-	09/07/2019	09/07/2019	09/07/2019	09/07/2019	09/07/2019
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	86	93	97	92	96

Envirolab Reference: 221119

PAHs in Soil						
Our Reference		221119-11	221119-12	221119-13	221119-14	221119-15
Your Reference	UNITS	TP11	TP12	TP13	TP14	TP15
Depth		0.1	0.1	0.1	0.1	0.1
Date Sampled		02/07/2019	02/07/2019	01/07/2019	01/07/2019	01/07/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	08/07/2019	08/07/2019	08/07/2019	08/07/2019	08/07/2019
Date analysed	-	09/07/2019	09/07/2019	09/07/2019	09/07/2019	09/07/2019
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	92	94	93	92	87

Envirolab Reference: 221119

PAHs in Soil						
Our Reference		221119-16	221119-17	221119-18	221119-19	221119-20
Your Reference	UNITS	TP16	TP17	TP18	TP19	TP20
Depth		0.1	0.1	0.1	0.5	0.1
Date Sampled		01/07/2019	01/07/2019	01/07/2019	01/07/2019	01/07/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	08/07/2019	08/07/2019	08/07/2019	08/07/2019	08/07/2019
Date analysed	-	09/07/2019	09/07/2019	09/07/2019	09/07/2019	09/07/2019
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	90	90	89	96	91

Envirolab Reference: 221119

PAHs in Soil		
Our Reference		221119-30
Your Reference	UNITS	TP21
Depth		0.1
Date Sampled		01/07/2019
Type of sample		Soil
Date extracted	-	09/07/2019
Date analysed	-	10/07/2019
Naphthalene	mg/kg	<0.1
Acenaphthylene	mg/kg	<0.1
Acenaphthene	mg/kg	<0.1
Fluorene	mg/kg	<0.1
Phenanthrene	mg/kg	<0.1
Anthracene	mg/kg	<0.1
Fluoranthene	mg/kg	<0.1
Pyrene	mg/kg	0.1
Benzo(a)anthracene	mg/kg	0.1
Chrysene	mg/kg	0.2
Benzo(b,j+k)fluoranthene	mg/kg	1
Benzo(a)pyrene	mg/kg	0.3
Indeno(1,2,3-c,d)pyrene	mg/kg	0.4
Dibenzo(a,h)anthracene	mg/kg	<0.1
Benzo(g,h,i)perylene	mg/kg	0.5
Total +ve PAH's	mg/kg	2.6
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	0.5
Surrogate p-Terphenyl-d14	%	100

Organochlorine Pesticides in soil						
Our Reference		221119-1	221119-2	221119-3	221119-4	221119-5
Your Reference	UNITS	TP1	TP2	TP3	TP4	TP5
Depth		2.3	0.1	0.05	0.1	0.1
Date Sampled		01/07/2019	02/07/2019	02/07/2019	02/07/2019	02/07/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	08/07/2019	08/07/2019	08/07/2019	08/07/2019	08/07/2019
Date analysed	-	09/07/2019	09/07/2019	09/07/2019	09/07/2019	09/07/2019
нсв	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve DDT+DDD+DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	89	86	86	85	85

Envirolab Reference: 221119

Organochlorine Pesticides in soil						
Our Reference		221119-6	221119-7	221119-8	221119-9	221119-10
Your Reference	UNITS	TP6	TP7	TP8	TP9	TP10
Depth		0.1	0.1	0.1	0.1	0.1
Date Sampled		02/07/2019	02/07/2019	02/07/2019	02/07/2019	02/07/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	08/07/2019	08/07/2019	08/07/2019	08/07/2019	08/07/2019
Date analysed	-	09/07/2019	09/07/2019	09/07/2019	09/07/2019	09/07/2019
нсв	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve DDT+DDD+DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	84	85	85	83	87

Organochlorine Pesticides in soil						
Our Reference		221119-11	221119-12	221119-13	221119-14	221119-15
Your Reference	UNITS	TP11	TP12	TP13	TP14	TP15
Depth		0.1	0.1	0.1	0.1	0.1
Date Sampled		02/07/2019	02/07/2019	01/07/2019	01/07/2019	01/07/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	08/07/2019	08/07/2019	08/07/2019	08/07/2019	08/07/2019
Date analysed	-	09/07/2019	09/07/2019	09/07/2019	09/07/2019	09/07/2019
НСВ	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve DDT+DDD+DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	85	86	84	85	83

Organochlorine Pesticides in soil						
Our Reference		221119-16	221119-17	221119-18	221119-19	221119-20
Your Reference	UNITS	TP16	TP17	TP18	TP19	TP20
Depth		0.1	0.1	0.1	0.5	0.1
Date Sampled		01/07/2019	01/07/2019	01/07/2019	01/07/2019	01/07/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	08/07/2019	08/07/2019	08/07/2019	08/07/2019	08/07/2019
Date analysed	-	09/07/2019	09/07/2019	09/07/2019	09/07/2019	09/07/2019
НСВ	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve DDT+DDD+DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	87	84	82	84	85

Organochlorine Pesticides in soil		
Our Reference		221119-30
Your Reference	UNITS	TP21
Depth		0.1
Date Sampled		01/07/2019
Type of sample		Soil
Date extracted	-	08/07/2019
Date analysed	-	09/07/2019
нсв	mg/kg	<0.1
alpha-BHC	mg/kg	<0.1
gamma-BHC	mg/kg	<0.1
beta-BHC	mg/kg	<0.1
Heptachlor	mg/kg	<0.1
delta-BHC	mg/kg	<0.1
Aldrin	mg/kg	<0.1
Heptachlor Epoxide	mg/kg	<0.1
gamma-Chlordane	mg/kg	<0.1
alpha-chlordane	mg/kg	<0.1
Endosulfan I	mg/kg	<0.1
pp-DDE	mg/kg	<0.1
Dieldrin	mg/kg	<0.1
Endrin	mg/kg	<0.1
pp-DDD	mg/kg	<0.1
Endosulfan II	mg/kg	<0.1
pp-DDT	mg/kg	<0.1
Endrin Aldehyde	mg/kg	<0.1
Endosulfan Sulphate	mg/kg	<0.1
Methoxychlor	mg/kg	<0.1
Total +ve DDT+DDD+DDE	mg/kg	<0.1
Surrogate TCMX	%	84

Organophosphorus Pesticides						
Our Reference		221119-1	221119-2	221119-3	221119-4	221119-5
Your Reference	UNITS	TP1	TP2	TP3	TP4	TP5
Depth		2.3	0.1	0.05	0.1	0.1
Date Sampled		01/07/2019	02/07/2019	02/07/2019	02/07/2019	02/07/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	08/07/2019	08/07/2019	08/07/2019	08/07/2019	08/07/2019
Date analysed	-	09/07/2019	09/07/2019	09/07/2019	09/07/2019	09/07/2019
Azinphos-methyl (Guthion)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorvos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Malathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Parathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	89	86	86	85	85

Envirolab Reference: 221119

Organophosphorus Pesticides						
Our Reference		221119-6	221119-7	221119-8	221119-9	221119-10
Your Reference	UNITS	TP6	TP7	TP8	TP9	TP10
Depth		0.1	0.1	0.1	0.1	0.1
Date Sampled		02/07/2019	02/07/2019	02/07/2019	02/07/2019	02/07/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	08/07/2019	08/07/2019	08/07/2019	08/07/2019	08/07/2019
Date analysed	-	09/07/2019	09/07/2019	09/07/2019	09/07/2019	09/07/2019
Azinphos-methyl (Guthion)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorvos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Malathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Parathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	84	85	85	83	87

Envirolab Reference: 221119

Organophosphorus Pesticides						
Our Reference		221119-11	221119-12	221119-13	221119-14	221119-15
Your Reference	UNITS	TP11	TP12	TP13	TP14	TP15
Depth		0.1	0.1	0.1	0.1	0.1
Date Sampled		02/07/2019	02/07/2019	01/07/2019	01/07/2019	01/07/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	08/07/2019	08/07/2019	08/07/2019	08/07/2019	08/07/2019
Date analysed	-	09/07/2019	09/07/2019	09/07/2019	09/07/2019	09/07/2019
Azinphos-methyl (Guthion)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorvos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Malathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Parathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	85	86	84	85	83

Envirolab Reference: 221119

Organophosphorus Pesticides						
Our Reference		221119-16	221119-17	221119-18	221119-19	221119-20
Your Reference	UNITS	TP16	TP17	TP18	TP19	TP20
Depth		0.1	0.1	0.1	0.5	0.1
Date Sampled		01/07/2019	01/07/2019	01/07/2019	01/07/2019	01/07/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	08/07/2019	08/07/2019	08/07/2019	08/07/2019	08/07/2019
Date analysed	-	09/07/2019	09/07/2019	09/07/2019	09/07/2019	09/07/2019
Azinphos-methyl (Guthion)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorvos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Malathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Parathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	87	84	82	84	85

Envirolab Reference: 221119

Organophosphorus Pesticides		
Our Reference		221119-30
Your Reference	UNITS	TP21
Depth		0.1
Date Sampled		01/07/2019
Type of sample		Soil
Date extracted	-	08/07/2019
Date analysed	-	09/07/2019
Azinphos-methyl (Guthion)	mg/kg	<0.1
Bromophos-ethyl	mg/kg	<0.1
Chlorpyriphos	mg/kg	<0.1
Chlorpyriphos-methyl	mg/kg	<0.1
Diazinon	mg/kg	<0.1
Dichlorvos	mg/kg	<0.1
Dimethoate	mg/kg	<0.1
Ethion	mg/kg	<0.1
Fenitrothion	mg/kg	<0.1
Malathion	mg/kg	<0.1
Parathion	mg/kg	<0.1
Ronnel	mg/kg	<0.1
Surrogate TCMX	%	84

Envirolab Reference: 221119

PCBs in Soil						
Our Reference		221119-1	221119-2	221119-3	221119-4	221119-5
Your Reference	UNITS	TP1	TP2	TP3	TP4	TP5
Depth		2.3	0.1	0.05	0.1	0.1
Date Sampled		01/07/2019	02/07/2019	02/07/2019	02/07/2019	02/07/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	08/07/2019	08/07/2019	08/07/2019	08/07/2019	08/07/2019
Date analysed	-	09/07/2019	09/07/2019	09/07/2019	09/07/2019	09/07/2019
Aroclor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	89	86	86	85	85

PCBs in Soil						
Our Reference		221119-6	221119-7	221119-8	221119-9	221119-10
Your Reference	UNITS	TP6	TP7	TP8	TP9	TP10
Depth		0.1	0.1	0.1	0.1	0.1
Date Sampled		02/07/2019	02/07/2019	02/07/2019	02/07/2019	02/07/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	08/07/2019	08/07/2019	08/07/2019	08/07/2019	08/07/2019
Date analysed	-	09/07/2019	09/07/2019	09/07/2019	09/07/2019	09/07/2019
Aroclor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	84	85	85	83	87

Envirolab Reference: 221119

PCBs in Soil						
Our Reference		221119-11	221119-12	221119-13	221119-14	221119-15
Your Reference	UNITS	TP11	TP12	TP13	TP14	TP15
Depth		0.1	0.1	0.1	0.1	0.1
Date Sampled		02/07/2019	02/07/2019	01/07/2019	01/07/2019	01/07/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	08/07/2019	08/07/2019	08/07/2019	08/07/2019	08/07/2019
Date analysed	-	09/07/2019	09/07/2019	09/07/2019	09/07/2019	09/07/2019
Aroclor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	85	86	84	85	83

PCBs in Soil						
Our Reference		221119-16	221119-17	221119-18	221119-19	221119-20
Your Reference	UNITS	TP16	TP17	TP18	TP19	TP20
Depth		0.1	0.1	0.1	0.5	0.1
Date Sampled		01/07/2019	01/07/2019	01/07/2019	01/07/2019	01/07/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	08/07/2019	08/07/2019	08/07/2019	08/07/2019	08/07/2019
Date analysed	-	09/07/2019	09/07/2019	09/07/2019	09/07/2019	09/07/2019
Aroclor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	87	84	82	84	85

PCBs in Soil		
Our Reference		221119-30
Your Reference	UNITS	TP21
Depth		0.1
Date Sampled		01/07/2019
Type of sample		Soil
Date extracted	-	08/07/2019
Date analysed	-	09/07/2019
Aroclor 1016	mg/kg	<0.1
Aroclor 1221	mg/kg	<0.1
Aroclor 1232	mg/kg	<0.1
Aroclor 1242	mg/kg	<0.1
Aroclor 1248	mg/kg	<0.1
Aroclor 1254	mg/kg	<0.1
Aroclor 1260	mg/kg	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1
Surrogate TCLMX	%	84

Acid Extractable metals in soil						
Our Reference		221119-1	221119-2	221119-3	221119-4	221119-5
Your Reference	UNITS	TP1	TP2	TP3	TP4	TP5
Depth		2.3	0.1	0.05	0.1	0.1
Date Sampled		01/07/2019	02/07/2019	02/07/2019	02/07/2019	02/07/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	08/07/2019	08/07/2019	08/07/2019	08/07/2019	08/07/2019
Date analysed	-	09/07/2019	09/07/2019	09/07/2019	09/07/2019	09/07/2019
Arsenic	mg/kg	9	5	6	6	6
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	20	12	14	8	16
Copper	mg/kg	31	36	29	43	25
Lead	mg/kg	92	24	45	19	20
Mercury	mg/kg	0.2	<0.1	0.1	0.1	<0.1
Nickel	mg/kg	10	18	13	32	10
Zinc	mg/kg	170	69	81	88	39

Acid Extractable metals in soil						
Our Reference		221119-6	221119-7	221119-8	221119-9	221119-10
Your Reference	UNITS	TP6	TP7	TP8	TP9	TP10
Depth		0.1	0.1	0.1	0.1	0.1
Date Sampled		02/07/2019	02/07/2019	02/07/2019	02/07/2019	02/07/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	08/07/2019	08/07/2019	08/07/2019	08/07/2019	08/07/2019
Date analysed	-	09/07/2019	09/07/2019	09/07/2019	09/07/2019	09/07/2019
Arsenic	mg/kg	9	11	9	9	5
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	21	16	15	17	15
Copper	mg/kg	32	12	28	21	23
Lead	mg/kg	22	26	21	21	20
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	11	9	16	14	14
Zinc	mg/kg	38	38	52	45	61

Acid Extractable metals in soil						
Our Reference		221119-11	221119-12	221119-13	221119-14	221119-15
Your Reference	UNITS	TP11	TP12	TP13	TP14	TP15
Depth		0.1	0.1	0.1	0.1	0.1
Date Sampled		02/07/2019	02/07/2019	01/07/2019	01/07/2019	01/07/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	08/07/2019	08/07/2019	08/07/2019	08/07/2019	08/07/2019
Date analysed	-	09/07/2019	09/07/2019	09/07/2019	09/07/2019	09/07/2019
Arsenic	mg/kg	12	5	9	9	11
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	15	13	15	16	13
Copper	mg/kg	24	27	27	26	25
Lead	mg/kg	22	19	17	21	17
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	16	12	17	13	16
Zinc	mg/kg	45	60	49	51	46

Acid Extractable metals in soil						
Our Reference		221119-16	221119-17	221119-18	221119-19	221119-20
Your Reference	UNITS	TP16	TP17	TP18	TP19	TP20
Depth		0.1	0.1	0.1	0.5	0.1
Date Sampled		01/07/2019	01/07/2019	01/07/2019	01/07/2019	01/07/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	08/07/2019	08/07/2019	08/07/2019	08/07/2019	08/07/2019
Date analysed	-	09/07/2019	09/07/2019	09/07/2019	09/07/2019	09/07/2019
Arsenic	mg/kg	9	9	10	<4	8
Cadmium	mg/kg	1	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	20	16	14	12	17
Copper	mg/kg	26	23	14	10	17
Lead	mg/kg	31	18	26	14	23
Mercury	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	13	16	12	5	8
Zinc	mg/kg	950	44	49	37	40

Envirolab Reference: 221119

Acid Extractable metals in soil			
Our Reference		221119-26	221119-30
Your Reference	UNITS	ТВ	TP21
Depth		-	0.1
Date Sampled		01/07/2019	01/07/2019
Type of sample		Soil	Soil
Date prepared	-	08/07/2019	08/07/2019
Date analysed	-	09/07/2019	09/07/2019
Arsenic	mg/kg	<4	11
Cadmium	mg/kg	<0.4	<0.4
Chromium	mg/kg	6	17
Copper	mg/kg	<1	38
Lead	mg/kg	3	17
Mercury	mg/kg	<0.1	<0.1
Nickel	mg/kg	<1	17
Zinc	mg/kg	<1	70

Envirolab Reference: 221119

Misc Soil - Inorg						
Our Reference		221119-1	221119-3	221119-4	221119-5	221119-7
Your Reference	UNITS	TP1	TP3	TP4	TP5	TP7
Depth		2.3	0.05	0.1	0.1	0.1
Date Sampled		01/07/2019	02/07/2019	02/07/2019	02/07/2019	02/07/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	08/07/2019	08/07/2019	08/07/2019	08/07/2019	08/07/2019
Date analysed	-	08/07/2019	08/07/2019	08/07/2019	08/07/2019	08/07/2019
Total Phenolics (as Phenol)	mg/kg	<5	<5	<5	<5	<5

Misc Soil - Inorg						
Our Reference		221119-12	221119-15	221119-16	221119-19	221119-30
Your Reference	UNITS	TP12	TP15	TP16	TP19	TP21
Depth		0.1	0.1	0.1	0.5	0.1
Date Sampled		02/07/2019	01/07/2019	01/07/2019	01/07/2019	01/07/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	08/07/2019	08/07/2019	08/07/2019	08/07/2019	09/07/2019
Date analysed	-	08/07/2019	08/07/2019	08/07/2019	08/07/2019	09/07/2019
Total Phenolics (as Phenol)	mg/kg	<5	<5	<5	<5	<5

Misc Inorg - Soil						
Our Reference		221119-21	221119-22	221119-23	221119-24	221119-25
Your Reference	UNITS	TP6	TP10	TP13	TP17	TP20
Depth		0.5	1.5	2.5	1.5	3.0
Date Sampled		02/07/2019	02/07/2019	01/07/2019	01/07/2019	01/07/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	08/07/2019	08/07/2019	08/07/2019	08/07/2019	08/07/2019
Date analysed	-	08/07/2019	08/07/2019	08/07/2019	08/07/2019	08/07/2019
pH 1:5 soil:water	pH Units	7.2	6.7	5.9	8.2	8.1
Electrical Conductivity 1:5 soil:water	μS/cm	75	210	230	260	590
Chloride, Cl 1:5 soil:water	mg/kg	[NA]	160	[NA]	[NA]	610
Sulphate, SO4 1:5 soil:water	mg/kg	[NA]	90	[NA]	[NA]	28

Moisture						
Our Reference		221119-1	221119-2	221119-3	221119-4	221119-5
Your Reference	UNITS	TP1	TP2	TP3	TP4	TP5
Depth		2.3	0.1	0.05	0.1	0.1
Date Sampled		01/07/2019	02/07/2019	02/07/2019	02/07/2019	02/07/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	08/07/2019	08/07/2019	08/07/2019	08/07/2019	08/07/2019
Date analysed	-	09/07/2019	09/07/2019	09/07/2019	09/07/2019	09/07/2019
Moisture	%	30	7.7	22	12	15
Moisture						
Our Reference		221119-6	221119-7	221119-8	221119-9	221119-10
Your Reference	UNITS	TP6	TP7	TP8	TP9	TP10
Depth		0.1	0.1	0.1	0.1	0.1
Date Sampled		02/07/2019	02/07/2019	02/07/2019	02/07/2019	02/07/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	08/07/2019	08/07/2019	08/07/2019	08/07/2019	08/07/2019
Date analysed	-	09/07/2019	09/07/2019	09/07/2019	09/07/2019	09/07/2019
Moisture	%	18	14	23	16	20
Moisture  Moisture	%	18	14	23	16	20
	%	18 221119-11	221119-12	23 221119-13	16 221119-14	221119-15
Moisture	% UNITS					
Moisture Our Reference		221119-11	221119-12	221119-13	221119-14	221119-15
Moisture Our Reference Your Reference		221119-11 TP11	221119-12 TP12	221119-13 TP13	221119-14 TP14	221119-15 TP15
Moisture Our Reference Your Reference Depth		221119-11 TP11 0.1	221119-12 TP12 0.1	221119-13 TP13 0.1	221119-14 TP14 0.1	221119-15 TP15 0.1
Moisture Our Reference Your Reference Depth Date Sampled		221119-11 TP11 0.1 02/07/2019	221119-12 TP12 0.1 02/07/2019	221119-13 TP13 0.1 01/07/2019	221119-14 TP14 0.1 01/07/2019	221119-15 TP15 0.1 01/07/2019
Moisture Our Reference Your Reference Depth Date Sampled Type of sample		221119-11 TP11 0.1 02/07/2019 Soil	221119-12 TP12 0.1 02/07/2019 Soil	221119-13 TP13 0.1 01/07/2019 Soil	221119-14 TP14 0.1 01/07/2019 Soil	221119-15 TP15 0.1 01/07/2019 Soil
Moisture Our Reference Your Reference Depth Date Sampled Type of sample Date prepared		221119-11 TP11 0.1 02/07/2019 Soil 08/07/2019	221119-12 TP12 0.1 02/07/2019 Soil 08/07/2019	221119-13 TP13 0.1 01/07/2019 Soil 08/07/2019	221119-14 TP14 0.1 01/07/2019 Soil 08/07/2019	221119-15 TP15 0.1 01/07/2019 Soil 08/07/2019
Moisture Our Reference Your Reference Depth Date Sampled Type of sample Date prepared Date analysed	UNITS - -	221119-11 TP11 0.1 02/07/2019 Soil 08/07/2019 09/07/2019	221119-12 TP12 0.1 02/07/2019 Soil 08/07/2019 09/07/2019	221119-13 TP13 0.1 01/07/2019 Soil 08/07/2019 09/07/2019	221119-14 TP14 0.1 01/07/2019 Soil 08/07/2019 09/07/2019	221119-15 TP15 0.1 01/07/2019 Soil 08/07/2019 09/07/2019
Moisture Our Reference Your Reference Depth Date Sampled Type of sample Date prepared Date analysed Moisture	UNITS - -	221119-11 TP11 0.1 02/07/2019 Soil 08/07/2019 09/07/2019	221119-12 TP12 0.1 02/07/2019 Soil 08/07/2019 09/07/2019	221119-13 TP13 0.1 01/07/2019 Soil 08/07/2019 09/07/2019	221119-14 TP14 0.1 01/07/2019 Soil 08/07/2019 09/07/2019	221119-15 TP15 0.1 01/07/2019 Soil 08/07/2019 09/07/2019
Moisture Our Reference Your Reference Depth Date Sampled Type of sample Date prepared Date analysed Moisture	UNITS - -	221119-11 TP11 0.1 02/07/2019 Soil 08/07/2019 09/07/2019	221119-12 TP12 0.1 02/07/2019 Soil 08/07/2019 09/07/2019	221119-13 TP13 0.1 01/07/2019 Soil 08/07/2019 09/07/2019	221119-14 TP14 0.1 01/07/2019 Soil 08/07/2019 09/07/2019	221119-15 TP15 0.1 01/07/2019 Soil 08/07/2019 09/07/2019
Moisture Our Reference Your Reference Depth Date Sampled Type of sample Date prepared Date analysed Moisture  Moisture Our Reference	UNITS %	221119-11 TP11 0.1 02/07/2019 Soil 08/07/2019 09/07/2019 20	221119-12 TP12 0.1 02/07/2019 Soil 08/07/2019 09/07/2019 19	221119-13 TP13 0.1 01/07/2019 Soil 08/07/2019 09/07/2019 14	221119-14 TP14 0.1 01/07/2019 Soil 08/07/2019 09/07/2019 16	221119-15 TP15 0.1 01/07/2019 Soil 08/07/2019 09/07/2019 16
Moisture Our Reference Your Reference Depth Date Sampled Type of sample Date prepared Date analysed Moisture  Moisture Our Reference Your Reference	UNITS %	221119-11 TP11 0.1 02/07/2019 Soil 08/07/2019 09/07/2019 20 221119-16 TP16	221119-12 TP12 0.1 02/07/2019 Soil 08/07/2019 09/07/2019 19 221119-17 TP17	221119-13 TP13 0.1 01/07/2019 Soil 08/07/2019 09/07/2019 14 221119-18 TP18	221119-14 TP14 0.1 01/07/2019 Soil 08/07/2019 09/07/2019 16 221119-19 TP19	221119-15 TP15 0.1 01/07/2019 Soil 08/07/2019 09/07/2019 16
Moisture Our Reference Your Reference Depth Date Sampled Type of sample Date prepared Date analysed Moisture  Moisture Our Reference Your Reference Depth	UNITS %	221119-11 TP11 0.1 02/07/2019 Soil 08/07/2019 09/07/2019 20  221119-16 TP16 0.1	221119-12 TP12 0.1 02/07/2019 Soil 08/07/2019 09/07/2019 19 221119-17 TP17 0.1	221119-13 TP13 0.1 01/07/2019 Soil 08/07/2019 09/07/2019 14 221119-18 TP18 0.1	221119-14 TP14 0.1 01/07/2019 Soil 08/07/2019 09/07/2019 16 221119-19 TP19 0.5	221119-15 TP15 0.1 01/07/2019 Soil 08/07/2019 09/07/2019 16 221119-20 TP20 0.1
Moisture Our Reference Your Reference Depth Date Sampled Type of sample Date prepared Date analysed Moisture  Moisture Our Reference Your Reference Depth Date Sampled	UNITS %	221119-11 TP11 0.1 02/07/2019 Soil 08/07/2019 09/07/2019 20  221119-16 TP16 0.1 01/07/2019	221119-12 TP12 0.1 02/07/2019 Soil 08/07/2019 19 221119-17 TP17 0.1 01/07/2019	221119-13 TP13 0.1 01/07/2019 Soil 08/07/2019 09/07/2019 14 221119-18 TP18 0.1 01/07/2019	221119-14 TP14 0.1 01/07/2019 Soil 08/07/2019 16 221119-19 TP19 0.5 01/07/2019	221119-15 TP15 0.1 01/07/2019 Soil 08/07/2019 09/07/2019 16 221119-20 TP20 0.1 01/07/2019

%

26

17

17

6.4

Envirolab Reference: 221119 Revision No: R00

Moisture

18

Moisture				
Our Reference		221119-26	221119-28	221119-30
Your Reference	UNITS	ТВ	BD2 020719	TP21
Depth		-	-	0.1
Date Sampled		01/07/2019	02/07/2019	01/07/2019
Type of sample		Soil	Soil	Soil
Date prepared	-	08/07/2019	08/07/2019	09/07/2019
Date analysed	-	09/07/2019	09/07/2019	10/07/2019
Moisture	%	21	15	18

Asbestos ID - soils						
Our Reference		221119-1	221119-2	221119-3	221119-4	221119-5
Your Reference	UNITS	TP1	TP2	TP3	TP4	TP5
Depth		2.3	0.1	0.05	0.1	0.1
Date Sampled		01/07/2019	02/07/2019	02/07/2019	02/07/2019	02/07/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	08/07/2019	08/07/2019	08/07/2019	08/07/2019	08/07/2019
Sample mass tested	g	Approx. 35g	Approx. 35g	Approx. 20g	Approx. 35g	Approx. 30g
Sample Description	-	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg				
		Organic fibres detected				
Trace Analysis	-	No asbestos detected				

Asbestos ID - soils						
Our Reference		221119-6	221119-7	221119-8	221119-9	221119-10
Your Reference	UNITS	TP6	TP7	TP8	TP9	TP10
Depth		0.1	0.1	0.1	0.1	0.1
Date Sampled		02/07/2019	02/07/2019	02/07/2019	02/07/2019	02/07/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	08/07/2019	08/07/2019	08/07/2019	08/07/2019	08/07/2019
Sample mass tested	g	Approx. 50g	Approx. 45g	Approx. 40g	Approx. 55g	Approx. 20g
Sample Description	-	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey so & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg			
		Organic fibres detected	Organic fibres detected	Organic fibres detected	Organic fibres detected	Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
Asbestos ID - soils						
Our Reference		221119-11	221119-12	221119-13	221119-14	221119-15
Your Reference	UNITS	TP11	TP12	TP13	TP14	TP15
Depth		0.1	0.1	0.1	0.1	0.1
Date Sampled		02/07/2019	02/07/2019	01/07/2019	01/07/2019	01/07/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	08/07/2019	08/07/2019	08/07/2019	08/07/2019	08/07/2019
Sample mass tested	g	Approx. 25g	Approx. 40g	Approx. 50g	Approx. 35g	Approx. 20g
Sample Description	-	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey so & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres	No asbestos detected at reporting limit o 0.1g/kg Organic fibres			
Trace Analysis	-	detected  No asbestos detected	No asbestos detected			

Envirolab Reference: 221119

Asbestos ID - soils					
Our Reference		221119-17	221119-18	221119-19	221119-20
Your Reference	UNITS	TP17	TP18	TP19	TP20
Depth		0.1	0.1	0.5	0.1
Date Sampled		01/07/2019	01/07/2019	01/07/2019	01/07/2019
Type of sample		Soil	Soil	Soil	Soil
Date analysed	-	08/07/2019	08/07/2019	08/07/2019	08/07/2019
Sample mass tested	g	Approx. 45g	Approx. 30g	Approx. 30g	Approx. 30g
Sample Description	-	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg			
		Organic fibres detected	Organic fibres detected	Organic fibres detected	Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected

Envirolab Reference: 221119

Asbestos ID - soils NEPM		
Our Reference		221119-16
Your Reference	UNITS	TP16
Depth		0.1
Date Sampled		01/07/2019
Type of sample		Soil
Date analysed	-	08/07/2019
Sample mass tested	g	337.63
Sample Description	-	Brown coarse- grained soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	Chrysotile asbestos detected  Amosite asbestos detected  Crocidolite asbestos detected  Organic fibres detected
Trace Analysis	-	No asbestos detected
Total Asbestos#1	g/kg	44.7872
Asbestos ID in soil <0.1g/kg*	-	See Above
ACM >7mm Estimation*	g	15.1215
FA and AF Estimation*	g	_
FA and AF Estimation*#2	%(w/w)	<0.001

Envirolab Reference: 221119

Asbestos ID - materials		
Our Reference		221119-29
Your Reference	UNITS	TP1/PACM
Depth		0.1
Date Sampled		01/07/2019
Type of sample		Material
Date analysed	-	08/07/2019
Mass / Dimension of Sample	-	60x30x4mm
Sample Description	-	Grey compressed fibre cement material
Asbestos ID in materials	-	Chrysotile asbestos detected
		Amosite asbestos detected

Method ID	Methodology Summary
ASB-001	Asbestos ID - Qualitative identification of asbestos in bulk samples using Polarised Light Microscopy and Dispersion Staining Techniques including Synthetic Mineral Fibre and Organic Fibre as per Australian Standard 4964-2004.
ASB-001	Asbestos ID - Identification of asbestos in soil samples using Polarised Light Microscopy and Dispersion Staining Techniques. Minimum 500mL soil sample was analysed as recommended by "National Environment Protection (Assessment of site contamination) Measure, Schedule B1 and "The Guidelines from the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009" with a reporting limit of 0.1g/kg (0.01% w/w) as per Australian Standard AS4964-2004.  Results reported denoted with * are outside our scope of NATA accreditation.
	NOTE *1 Total Asbestos g/kg was analysed and reported as per Australian Standard AS4964 (This is the sum of ACM >7mm, <7mm and FA/AF)
	<b>NOTE</b> #2 The screening level of 0.001% w/w asbestos in soil for FA and AF only applies where the FA and AF are able to be quantified by gravimetric procedures. This screening level is not applicable to free fibres.
	Estimation = Estimated asbestos weight
	Results reported with "" is equivalent to no visible asbestos identified using Polarised Light microscopy and Dispersion Staining Techniques.
Inorg-001	pH - Measured using pH meter and electrode in accordance with APHA latest edition, 4500-H+. Please note that the results for water analyses are indicative only, as analysis outside of the APHA storage times.
Inorg-002	Conductivity and Salinity - measured using a conductivity cell at 25°C in accordance with APHA latest edition 2510 and Rayment & Lyons.
Inorg-008	Moisture content determined by heating at 105+/-5 °C for a minimum of 12 hours.
Inorg-031	Total Phenolics by segmented flow analyser (in line distillation with colourimetric finish). Solids are extracted in a caustic media prior to analysis.
Inorg-081	Anions - a range of Anions are determined by Ion Chromatography, in accordance with APHA latest edition, 4110-B. Waters samples are filtered on receipt prior to analysis.  Alternatively determined by colourimetry/turbidity using Discrete Analyser.
Metals-020	Determination of various metals by ICP-AES.
Metals-021	Determination of Mercury by Cold Vapour AAS.

Envirolab Reference: 221119

Method ID	Methodology Summary
Org-003	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.
Org-003	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID.
	F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.
	Note, the Total +ve TRH PQL is reflective of the lowest individual PQL and is therefore "Total +ve TRH" is simply a sum of the positive individual TRH fractions (>C10-C40).
Org-005	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC with dual ECD's.
Org-005	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC with dual ECD's.
	Note, the Total +ve reported DDD+DDE+DDT PQL is reflective of the lowest individual PQL and is therefore simply a sum of the positive individually report DDD+DDE+DDT.
Org-006	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD.
Org-006	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD.  Note, the Total +ve PCBs PQL is reflective of the lowest individual PQL and is therefore" Total +ve PCBs" is simply a sum of the positive individual PCBs.
Org-008	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC with dual ECD's.
Org-012	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013. For soil results:-
	1. 'EQ PQL'values are assuming all contributing PAHs reported as <pql "total="" 'eq="" +ve="" 2.="" 3.="" <pql="" a="" above.="" actually="" all="" and="" approach="" approaches="" are="" as="" assuming="" at="" be="" below="" between="" but="" calculation="" can="" conservative="" contribute="" contributing="" false="" give="" given="" half="" hence="" individual="" is="" least="" lowest="" may="" mid-point="" more="" most="" negative="" not="" note,="" of="" pahs="" pahs"="" pahs.<="" positive="" pql="" pql'values="" pql.="" present="" present.="" reflective="" reported="" simply="" stipulated="" sum="" susceptible="" td="" teq="" teqs="" that="" the="" therefore="" this="" to="" total="" when="" zero'values="" zero.=""></pql>
Org-014	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
Org-016	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.

Envirolab Reference: 221119

Page | 39 of 56 Revision No: R00

Method ID	Methodology Summary
Org-016	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.  Note, the Total +ve Xylene PQL is reflective of the lowest individual PQL and is therefore "Total +ve Xylenes" is simply a sum of the positive individual Xylenes.

Envirolab Reference: 221119
Revision No: R00
Page | 40 of 56

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate Spi				covery %
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-4	221119-2
Date extracted	-			08/07/2019	1	08/07/2019	08/07/2019		08/07/2019	08/07/2019
Date analysed	-			09/07/2019	1	09/07/2019	09/07/2019		09/07/2019	09/07/2019
TRH C <sub>6</sub> - C <sub>9</sub>	mg/kg	25	Org-016	<25	1	<25	<25	0	95	98
TRH C <sub>6</sub> - C <sub>10</sub>	mg/kg	25	Org-016	<25	1	<25	<25	0	95	98
Benzene	mg/kg	0.2	Org-016	<0.2	1	<0.2	<0.2	0	103	105
Toluene	mg/kg	0.5	Org-016	<0.5	1	<0.5	<0.5	0	103	98
Ethylbenzene	mg/kg	1	Org-016	<1	1	<1	<1	0	89	95
m+p-xylene	mg/kg	2	Org-016	<2	1	<2	<2	0	90	97
o-Xylene	mg/kg	1	Org-016	<1	1	<1	<1	0	90	97
naphthalene	mg/kg	1	Org-014	<1	1	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-016	99	1	76	78	3	93	93

QUALITY CONT	Duplicate				Spike Recovery %					
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	221119-28
Date extracted	-			[NT]	11	08/07/2019	08/07/2019		08/07/2019	08/07/2019
Date analysed	-			[NT]	11	09/07/2019	09/07/2019		09/07/2019	09/07/2019
TRH C <sub>6</sub> - C <sub>9</sub>	mg/kg	25	Org-016	[NT]	11	<25	<25	0	102	100
TRH C <sub>6</sub> - C <sub>10</sub>	mg/kg	25	Org-016	[NT]	11	<25	<25	0	102	100
Benzene	mg/kg	0.2	Org-016	[NT]	11	<0.2	<0.2	0	101	90
Toluene	mg/kg	0.5	Org-016	[NT]	11	<0.5	<0.5	0	103	95
Ethylbenzene	mg/kg	1	Org-016	[NT]	11	<1	<1	0	104	107
m+p-xylene	mg/kg	2	Org-016	[NT]	11	<2	<2	0	100	104
o-Xylene	mg/kg	1	Org-016	[NT]	11	<1	<1	0	105	108
naphthalene	mg/kg	1	Org-014	[NT]	11	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-016	[NT]	11	83	85	2	99	93

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]	
Date extracted	-			[NT]	20	08/07/2019	08/07/2019				
Date analysed	-			[NT]	20	09/07/2019	09/07/2019				
TRH C <sub>6</sub> - C <sub>9</sub>	mg/kg	25	Org-016	[NT]	20	<25	<25	0			
TRH C <sub>6</sub> - C <sub>10</sub>	mg/kg	25	Org-016	[NT]	20	<25	<25	0			
Benzene	mg/kg	0.2	Org-016	[NT]	20	<0.2	<0.2	0			
Toluene	mg/kg	0.5	Org-016	[NT]	20	<0.5	<0.5	0			
Ethylbenzene	mg/kg	1	Org-016	[NT]	20	<1	<1	0			
m+p-xylene	mg/kg	2	Org-016	[NT]	20	<2	<2	0			
o-Xylene	mg/kg	1	Org-016	[NT]	20	<1	<1	0			
naphthalene	mg/kg	1	Org-014	[NT]	20	<1	<1	0			
Surrogate aaa-Trifluorotoluene	%		Org-016	[NT]	20	80	69	15			

QUALITY CO	NTROL: svT	RH (C10	-C40) in Soil		Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-4	221119-2
Date extracted	-			08/07/2019	1	08/07/2019	08/07/2019		08/07/2019	08/07/2019
Date analysed	-			09/07/2019	1	09/07/2019	09/07/2019		09/07/2019	09/07/2019
TRH C <sub>10</sub> - C <sub>14</sub>	mg/kg	50	Org-003	<50	1	<50	<50	0	100	108
TRH C <sub>15</sub> - C <sub>28</sub>	mg/kg	100	Org-003	<100	1	<100	<100	0	78	73
TRH C <sub>29</sub> - C <sub>36</sub>	mg/kg	100	Org-003	<100	1	<100	<100	0	71	70
TRH >C <sub>10</sub> -C <sub>16</sub>	mg/kg	50	Org-003	<50	1	<50	<50	0	100	108
TRH >C <sub>16</sub> -C <sub>34</sub>	mg/kg	100	Org-003	<100	1	<100	<100	0	78	73
TRH >C <sub>34</sub> -C <sub>40</sub>	mg/kg	100	Org-003	<100	1	<100	<100	0	71	70
Surrogate o-Terphenyl	%		Org-003	88	1	88	82	7	119	106

QUALITY CO	NTROL: svT	RH (C10	-C40) in Soil			Du	plicate		Spike Re	covery %
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	221119-28
Date extracted	-			[NT]	11	08/07/2019	08/07/2019		08/07/2019	08/07/2019
Date analysed	-			[NT]	11	09/07/2019	09/07/2019		09/07/2019	09/07/2019
TRH C <sub>10</sub> - C <sub>14</sub>	mg/kg	50	Org-003	[NT]	11	<50	<50	0	104	116
TRH C <sub>15</sub> - C <sub>28</sub>	mg/kg	100	Org-003	[NT]	11	<100	<100	0	95	109
TRH C <sub>29</sub> - C <sub>36</sub>	mg/kg	100	Org-003	[NT]	11	<100	<100	0	100	91
TRH >C <sub>10</sub> -C <sub>16</sub>	mg/kg	50	Org-003	[NT]	11	<50	<50	0	104	116
TRH >C <sub>16</sub> -C <sub>34</sub>	mg/kg	100	Org-003	[NT]	11	<100	<100	0	95	109
TRH >C <sub>34</sub> -C <sub>40</sub>	mg/kg	100	Org-003	[NT]	11	<100	<100	0	100	91
Surrogate o-Terphenyl	%		Org-003	[NT]	11	95	94	1	111	106

QUALITY CO	NTROL: svT	RH (C10-	-C40) in Soil			Du	plicate		Spike Re	covery %
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	20	08/07/2019	08/07/2019		[NT]	
Date analysed	-			[NT]	20	09/07/2019	09/07/2019		[NT]	
TRH C <sub>10</sub> - C <sub>14</sub>	mg/kg	50	Org-003	[NT]	20	<50	<50	0	[NT]	
TRH C <sub>15</sub> - C <sub>28</sub>	mg/kg	100	Org-003	[NT]	20	<100	<100	0	[NT]	
TRH C <sub>29</sub> - C <sub>36</sub>	mg/kg	100	Org-003	[NT]	20	<100	<100	0	[NT]	
TRH >C <sub>10</sub> -C <sub>16</sub>	mg/kg	50	Org-003	[NT]	20	<50	<50	0	[NT]	
TRH >C <sub>16</sub> -C <sub>34</sub>	mg/kg	100	Org-003	[NT]	20	<100	<100	0	[NT]	
TRH >C <sub>34</sub> -C <sub>40</sub>	mg/kg	100	Org-003	[NT]	20	<100	<100	0	[NT]	
Surrogate o-Terphenyl	%		Org-003	[NT]	20	89	82	8	[NT]	

Envirolab Reference: 221119

QUALIT	Y CONTRO	L: PAHs	in Soil			Du	plicate		Spike Re	covery %
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-4	221119-2
Date extracted	-			08/07/2019	1	08/07/2019	08/07/2019		08/07/2019	08/07/2019
Date analysed	-			09/07/2019	1	09/07/2019	09/07/2019		09/07/2019	09/07/2019
Naphthalene	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	114	120
Acenaphthylene	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Fluorene	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	102	108
Phenanthrene	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	100	104
Anthracene	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	100	103
Pyrene	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	102	107
Benzo(a)anthracene	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	102	105
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-012	<0.2	1	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-012	<0.05	1	<0.05	<0.05	0	104	108
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-012	103	1	125	96	26	98	99

QUALI	TY CONTRO	L: PAHs	in Soil			Du	plicate		Spike Re	covery %
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	[NT]
Date extracted	-			[NT]	11	08/07/2019	08/07/2019		08/07/2019	
Date analysed	-			[NT]	11	09/07/2019	09/07/2019		09/07/2019	
Naphthalene	mg/kg	0.1	Org-012	[NT]	11	<0.1	<0.1	0	122	
Acenaphthylene	mg/kg	0.1	Org-012	[NT]	11	<0.1	<0.1	0	[NT]	
Acenaphthene	mg/kg	0.1	Org-012	[NT]	11	<0.1	<0.1	0	[NT]	
Fluorene	mg/kg	0.1	Org-012	[NT]	11	<0.1	<0.1	0	108	
Phenanthrene	mg/kg	0.1	Org-012	[NT]	11	<0.1	<0.1	0	106	
Anthracene	mg/kg	0.1	Org-012	[NT]	11	<0.1	<0.1	0	[NT]	
Fluoranthene	mg/kg	0.1	Org-012	[NT]	11	<0.1	<0.1	0	104	
Pyrene	mg/kg	0.1	Org-012	[NT]	11	<0.1	<0.1	0	108	
Benzo(a)anthracene	mg/kg	0.1	Org-012	[NT]	11	<0.1	<0.1	0	[NT]	
Chrysene	mg/kg	0.1	Org-012	[NT]	11	<0.1	<0.1	0	106	
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-012	[NT]	11	<0.2	<0.2	0	[NT]	
Benzo(a)pyrene	mg/kg	0.05	Org-012	[NT]	11	<0.05	<0.05	0	110	
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-012	[NT]	11	<0.1	<0.1	0	[NT]	
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-012	[NT]	11	<0.1	<0.1	0	[NT]	
Benzo(g,h,i)perylene	mg/kg	0.1	Org-012	[NT]	11	<0.1	<0.1	0	[NT]	
Surrogate p-Terphenyl-d14	%		Org-012	[NT]	11	92	94	2	103	

QUA	LITY CONTRO	L: PAHs	in Soil			Du	plicate		Spike Re	covery %
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	20	08/07/2019	08/07/2019			[NT]
Date analysed	-			[NT]	20	09/07/2019	09/07/2019			[NT]
Naphthalene	mg/kg	0.1	Org-012	[NT]	20	<0.1	<0.1	0		[NT]
Acenaphthylene	mg/kg	0.1	Org-012	[NT]	20	<0.1	<0.1	0		[NT]
Acenaphthene	mg/kg	0.1	Org-012	[NT]	20	<0.1	<0.1	0		[NT]
Fluorene	mg/kg	0.1	Org-012	[NT]	20	<0.1	<0.1	0		[NT]
Phenanthrene	mg/kg	0.1	Org-012	[NT]	20	<0.1	<0.1	0		[NT]
Anthracene	mg/kg	0.1	Org-012	[NT]	20	<0.1	<0.1	0		[NT]
Fluoranthene	mg/kg	0.1	Org-012	[NT]	20	<0.1	<0.1	0		[NT]
Pyrene	mg/kg	0.1	Org-012	[NT]	20	<0.1	<0.1	0		[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-012	[NT]	20	<0.1	<0.1	0		[NT]
Chrysene	mg/kg	0.1	Org-012	[NT]	20	<0.1	<0.1	0		[NT]
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-012	[NT]	20	<0.2	<0.2	0		[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-012	[NT]	20	<0.05	<0.05	0		[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-012	[NT]	20	<0.1	<0.1	0		[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-012	[NT]	20	<0.1	<0.1	0		[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-012	[NT]	20	<0.1	<0.1	0		[NT]
Surrogate p-Terphenyl-d14	%		Org-012	[NT]	20	91	110	19		[NT]

Envirolab Reference: 221119

QUALITY CO	NTROL: Organo	chlorine l	Pesticides in soil			Du	plicate		Spike Re	covery %
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-4	221119-2
Date extracted	-			08/07/2019	1	08/07/2019	08/07/2019		08/07/2019	08/07/2019
Date analysed	-			09/07/2019	1	09/07/2019	09/07/2019		09/07/2019	09/07/2019
нсв	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
alpha-BHC	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0	86	81
gamma-BHC	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0	83	77
Heptachlor	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0	78	74
delta-BHC	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0	84	80
Heptachlor Epoxide	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0	84	80
gamma-Chlordane	mg/kg	0.1	Org-005	<0.1	1	0.1	<0.1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0	85	78
Dieldrin	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0	99	94
Endrin	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0	81	76
pp-DDD	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0	71	64
Endosulfan II	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Endrin Aldehyde	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0	91	86
Methoxychlor	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-005	88	1	89	85	5	83	82

Envirolab Reference: 221119

QUALITY CO	ONTROL: Organo	chlorine F	Pesticides in soil			Du	plicate		Spike Red	covery %
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	[NT]
Date extracted	-			[NT]	11	08/07/2019	08/07/2019		08/07/2019	
Date analysed	-			[NT]	11	09/07/2019	09/07/2019		09/07/2019	
НСВ	mg/kg	0.1	Org-005	[NT]	11	<0.1	<0.1	0	[NT]	
alpha-BHC	mg/kg	0.1	Org-005	[NT]	11	<0.1	<0.1	0	83	
gamma-BHC	mg/kg	0.1	Org-005	[NT]	11	<0.1	<0.1	0	[NT]	
beta-BHC	mg/kg	0.1	Org-005	[NT]	11	<0.1	<0.1	0	81	
Heptachlor	mg/kg	0.1	Org-005	[NT]	11	<0.1	<0.1	0	71	
delta-BHC	mg/kg	0.1	Org-005	[NT]	11	<0.1	<0.1	0	[NT]	
Aldrin	mg/kg	0.1	Org-005	[NT]	11	<0.1	<0.1	0	84	
Heptachlor Epoxide	mg/kg	0.1	Org-005	[NT]	11	<0.1	<0.1	0	84	
gamma-Chlordane	mg/kg	0.1	Org-005	[NT]	11	<0.1	<0.1	0	[NT]	
alpha-chlordane	mg/kg	0.1	Org-005	[NT]	11	<0.1	<0.1	0	[NT]	
Endosulfan I	mg/kg	0.1	Org-005	[NT]	11	<0.1	<0.1	0	[NT]	
op-DDE	mg/kg	0.1	Org-005	[NT]	11	<0.1	<0.1	0	83	
Dieldrin	mg/kg	0.1	Org-005	[NT]	11	<0.1	<0.1	0	99	
Endrin	mg/kg	0.1	Org-005	[NT]	11	<0.1	<0.1	0	80	
pp-DDD	mg/kg	0.1	Org-005	[NT]	11	<0.1	<0.1	0	71	
Endosulfan II	mg/kg	0.1	Org-005	[NT]	11	<0.1	<0.1	0	[NT]	
pp-DDT	mg/kg	0.1	Org-005	[NT]	11	<0.1	<0.1	0	[NT]	
Endrin Aldehyde	mg/kg	0.1	Org-005	[NT]	11	<0.1	<0.1	0	[NT]	
Endosulfan Sulphate	mg/kg	0.1	Org-005	[NT]	11	<0.1	<0.1	0	77	
Methoxychlor	mg/kg	0.1	Org-005	[NT]	11	<0.1	<0.1	0	[NT]	
Surrogate TCMX	%		Org-005	[NT]	11	85	85	0	82	

QUALITY CON	NTROL: Organo	chlorine l	Pesticides in soil			Du	plicate		Spike Re	covery %
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	20	08/07/2019	08/07/2019			[NT]
Date analysed	-			[NT]	20	09/07/2019	10/07/2019			[NT]
HCB	mg/kg	0.1	Org-005	[NT]	20	<0.1	<0.1	0		[NT]
alpha-BHC	mg/kg	0.1	Org-005	[NT]	20	<0.1	<0.1	0		[NT]
gamma-BHC	mg/kg	0.1	Org-005	[NT]	20	<0.1	<0.1	0		[NT]
beta-BHC	mg/kg	0.1	Org-005	[NT]	20	<0.1	<0.1	0		[NT]
Heptachlor	mg/kg	0.1	Org-005	[NT]	20	<0.1	<0.1	0		[NT]
delta-BHC	mg/kg	0.1	Org-005	[NT]	20	<0.1	<0.1	0		[NT]
Aldrin	mg/kg	0.1	Org-005	[NT]	20	<0.1	<0.1	0		[NT]
Heptachlor Epoxide	mg/kg	0.1	Org-005	[NT]	20	<0.1	<0.1	0		[NT]
gamma-Chlordane	mg/kg	0.1	Org-005	[NT]	20	<0.1	<0.1	0		[NT]
alpha-chlordane	mg/kg	0.1	Org-005	[NT]	20	<0.1	<0.1	0		[NT]
Endosulfan I	mg/kg	0.1	Org-005	[NT]	20	<0.1	<0.1	0		[NT]
pp-DDE	mg/kg	0.1	Org-005	[NT]	20	<0.1	<0.1	0		[NT]
Dieldrin	mg/kg	0.1	Org-005	[NT]	20	<0.1	<0.1	0		[NT]
Endrin	mg/kg	0.1	Org-005	[NT]	20	<0.1	<0.1	0		[NT]
pp-DDD	mg/kg	0.1	Org-005	[NT]	20	<0.1	<0.1	0		[NT]
Endosulfan II	mg/kg	0.1	Org-005	[NT]	20	<0.1	<0.1	0		[NT]
pp-DDT	mg/kg	0.1	Org-005	[NT]	20	<0.1	<0.1	0		[NT]
Endrin Aldehyde	mg/kg	0.1	Org-005	[NT]	20	<0.1	<0.1	0		[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-005	[NT]	20	<0.1	<0.1	0		[NT]
Methoxychlor	mg/kg	0.1	Org-005	[NT]	20	<0.1	<0.1	0		[NT]
Surrogate TCMX	%		Org-005	[NT]	20	85	85	0		[NT]

Envirolab Reference: 221119

QUALITY CONT	ROL: Organ	ophospho	orus Pesticides			Du	plicate		Spike Re	covery %
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-4	221119-2
Date extracted	-			08/07/2019	1	08/07/2019	08/07/2019		08/07/2019	08/07/2019
Date analysed	-			09/07/2019	1	09/07/2019	09/07/2019		09/07/2019	09/07/2019
Azinphos-methyl (Guthion)	mg/kg	0.1	Org-008	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Bromophos-ethyl	mg/kg	0.1	Org-008	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Chlorpyriphos	mg/kg	0.1	Org-008	<0.1	1	<0.1	<0.1	0	98	105
Chlorpyriphos-methyl	mg/kg	0.1	Org-008	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Diazinon	mg/kg	0.1	Org-008	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Dichlorvos	mg/kg	0.1	Org-008	<0.1	1	<0.1	<0.1	0	98	101
Dimethoate	mg/kg	0.1	Org-008	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Ethion	mg/kg	0.1	Org-008	<0.1	1	<0.1	<0.1	0	92	93
Fenitrothion	mg/kg	0.1	Org-008	<0.1	1	<0.1	<0.1	0	106	104
Malathion	mg/kg	0.1	Org-008	<0.1	1	<0.1	<0.1	0	102	99
Parathion	mg/kg	0.1	Org-008	<0.1	1	<0.1	<0.1	0	112	107
Ronnel	mg/kg	0.1	Org-008	<0.1	1	<0.1	<0.1	0	93	99
Surrogate TCMX	%		Org-008	88	1	89	85	5	88	87

QUALITY CONT	ROL: Organ	ophospho	orus Pesticides			Du	plicate		Spike Red	covery %
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	[NT]
Date extracted	-			[NT]	11	08/07/2019	08/07/2019		08/07/2019	
Date analysed	-			[NT]	11	09/07/2019	09/07/2019		09/07/2019	
Azinphos-methyl (Guthion)	mg/kg	0.1	Org-008	[NT]	11	<0.1	<0.1	0	[NT]	
Bromophos-ethyl	mg/kg	0.1	Org-008	[NT]	11	<0.1	<0.1	0	[NT]	
Chlorpyriphos	mg/kg	0.1	Org-008	[NT]	11	<0.1	<0.1	0	103	
Chlorpyriphos-methyl	mg/kg	0.1	Org-008	[NT]	11	<0.1	<0.1	0	[NT]	
Diazinon	mg/kg	0.1	Org-008	[NT]	11	<0.1	<0.1	0	[NT]	
Dichlorvos	mg/kg	0.1	Org-008	[NT]	11	<0.1	<0.1	0	99	
Dimethoate	mg/kg	0.1	Org-008	[NT]	11	<0.1	<0.1	0	[NT]	
Ethion	mg/kg	0.1	Org-008	[NT]	11	<0.1	<0.1	0	92	
Fenitrothion	mg/kg	0.1	Org-008	[NT]	11	<0.1	<0.1	0	116	
Malathion	mg/kg	0.1	Org-008	[NT]	11	<0.1	<0.1	0	96	
Parathion	mg/kg	0.1	Org-008	[NT]	11	<0.1	<0.1	0	110	
Ronnel	mg/kg	0.1	Org-008	[NT]	11	<0.1	<0.1	0	99	
Surrogate TCMX	%		Org-008	[NT]	11	85	85	0	87	

Envirolab Reference: 221119

QUALITY CC	NTROL: Organ	ophospho	orus Pesticides			Du	plicate		Spike Re	covery %
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	20	08/07/2019	08/07/2019			[NT]
Date analysed	-			[NT]	20	09/07/2019	10/07/2019			[NT]
Azinphos-methyl (Guthion)	mg/kg	0.1	Org-008	[NT]	20	<0.1	<0.1	0		[NT]
Bromophos-ethyl	mg/kg	0.1	Org-008	[NT]	20	<0.1	<0.1	0		[NT]
Chlorpyriphos	mg/kg	0.1	Org-008	[NT]	20	<0.1	<0.1	0		[NT]
Chlorpyriphos-methyl	mg/kg	0.1	Org-008	[NT]	20	<0.1	<0.1	0		[NT]
Diazinon	mg/kg	0.1	Org-008	[NT]	20	<0.1	<0.1	0		[NT]
Dichlorvos	mg/kg	0.1	Org-008	[NT]	20	<0.1	<0.1	0		[NT]
Dimethoate	mg/kg	0.1	Org-008	[NT]	20	<0.1	<0.1	0		[NT]
Ethion	mg/kg	0.1	Org-008	[NT]	20	<0.1	<0.1	0		[NT]
Fenitrothion	mg/kg	0.1	Org-008	[NT]	20	<0.1	<0.1	0		[NT]
Malathion	mg/kg	0.1	Org-008	[NT]	20	<0.1	<0.1	0		[NT]
Parathion	mg/kg	0.1	Org-008	[NT]	20	<0.1	<0.1	0		[NT]
Ronnel	mg/kg	0.1	Org-008	[NT]	20	<0.1	<0.1	0		[NT]
Surrogate TCMX	%		Org-008	[NT]	20	85	85	0		[NT]

Envirolab Reference: 221119

QUALIT	Y CONTRO	L: PCBs	in Soil		Duplicate Spike Re						
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-4	221119-2	
Date extracted	-			08/07/2019	1	08/07/2019	08/07/2019		08/07/2019	08/07/2019	
Date analysed	-			09/07/2019	1	09/07/2019	09/07/2019		09/07/2019	09/07/2019	
Aroclor 1016	mg/kg	0.1	Org-006	<0.1	1	<0.1	<0.1	0	[NT]	[NT]	
Aroclor 1221	mg/kg	0.1	Org-006	<0.1	1	<0.1	<0.1	0	[NT]	[NT]	
Aroclor 1232	mg/kg	0.1	Org-006	<0.1	1	<0.1	<0.1	0	[NT]	[NT]	
Aroclor 1242	mg/kg	0.1	Org-006	<0.1	1	<0.1	<0.1	0	[NT]	[NT]	
Aroclor 1248	mg/kg	0.1	Org-006	<0.1	1	<0.1	<0.1	0	[NT]	[NT]	
Aroclor 1254	mg/kg	0.1	Org-006	<0.1	1	<0.1	<0.1	0	97	95	
Aroclor 1260	mg/kg	0.1	Org-006	<0.1	1	<0.1	<0.1	0	[NT]	[NT]	
Surrogate TCLMX	%		Org-006	88	1	89	85	5	88	87	

QUALIT	Y CONTRO	L: PCBs	in Soil			Du	plicate		Spike Re	covery %
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	[NT]
Date extracted	-			[NT]	11	08/07/2019	08/07/2019		08/07/2019	
Date analysed	-			[NT]	11	09/07/2019	09/07/2019		09/07/2019	
Aroclor 1016	mg/kg	0.1	Org-006	[NT]	11	<0.1	<0.1	0	[NT]	
Aroclor 1221	mg/kg	0.1	Org-006	[NT]	11	<0.1	<0.1	0	[NT]	
Aroclor 1232	mg/kg	0.1	Org-006	[NT]	11	<0.1	<0.1	0	[NT]	
Aroclor 1242	mg/kg	0.1	Org-006	[NT]	11	<0.1	<0.1	0	[NT]	
Aroclor 1248	mg/kg	0.1	Org-006	[NT]	11	<0.1	<0.1	0	[NT]	
Aroclor 1254	mg/kg	0.1	Org-006	[NT]	11	<0.1	<0.1	0	98	
Aroclor 1260	mg/kg	0.1	Org-006	[NT]	11	<0.1	<0.1	0	[NT]	
Surrogate TCLMX	%		Org-006	[NT]	11	85	85	0	87	

QUALIT	Y CONTRO	L: PCBs	in Soil			Du		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	20	08/07/2019	08/07/2019			
Date analysed	-			[NT]	20	09/07/2019	10/07/2019			
Aroclor 1016	mg/kg	0.1	Org-006	[NT]	20	<0.1	<0.1	0		
Aroclor 1221	mg/kg	0.1	Org-006	[NT]	20	<0.1	<0.1	0		
Aroclor 1232	mg/kg	0.1	Org-006	[NT]	20	<0.1	<0.1	0		
Aroclor 1242	mg/kg	0.1	Org-006	[NT]	20	<0.1	<0.1	0		
Aroclor 1248	mg/kg	0.1	Org-006	[NT]	20	<0.1	<0.1	0		
Aroclor 1254	mg/kg	0.1	Org-006	[NT]	20	<0.1	<0.1	0		
Aroclor 1260	mg/kg	0.1	Org-006	[NT]	20	<0.1	<0.1	0		
Surrogate TCLMX	%		Org-006	[NT]	20	85	85	0		

Envirolab Reference: 221119 Revision No: R00

QUALITY CONT	ROL: Acid E	xtractabl	e metals in soil			Du		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-4	221119-2
Date prepared	-			09/07/2019	1	08/07/2019	08/07/2019		08/07/2019	08/07/2019
Date analysed	-			09/07/2019	1	09/07/2019	09/07/2019		09/07/2019	09/07/2019
Arsenic	mg/kg	4	Metals-020	<4	1	9	10	11	111	97
Cadmium	mg/kg	0.4	Metals-020	<0.4	1	<0.4	<0.4	0	103	81
Chromium	mg/kg	1	Metals-020	<1	1	20	19	5	114	96
Copper	mg/kg	1	Metals-020	<1	1	31	33	6	110	105
Lead	mg/kg	1	Metals-020	<1	1	92	78	16	110	94
Mercury	mg/kg	0.1	Metals-021	<0.1	1	0.2	0.1	67	89	98
Nickel	mg/kg	1	Metals-020	<1	1	10	8	22	107	82
Zinc	mg/kg	1	Metals-020	<1	1	170	190	11	108	73

QUALITY CONT	ROL: Acid E	xtractable	e metals in soil			Du		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	[NT]
Date prepared	-			[NT]	11	08/07/2019	08/07/2019		08/07/2019	
Date analysed	-			[NT]	11	09/07/2019	09/07/2019		09/07/2019	
Arsenic	mg/kg	4	Metals-020	[NT]	11	12	13	8	107	
Cadmium	mg/kg	0.4	Metals-020	[NT]	11	<0.4	<0.4	0	100	
Chromium	mg/kg	1	Metals-020	[NT]	11	15	16	6	108	
Copper	mg/kg	1	Metals-020	[NT]	11	24	25	4	106	
Lead	mg/kg	1	Metals-020	[NT]	11	22	22	0	105	
Mercury	mg/kg	0.1	Metals-021	[NT]	11	<0.1	<0.1	0	88	
Nickel	mg/kg	1	Metals-020	[NT]	11	16	16	0	104	
Zinc	mg/kg	1	Metals-020	[NT]	11	45	46	2	106	

QUALITY CONT	ROL: Acid E	xtractabl	e metals in soil			Du		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	16	08/07/2019	08/07/2019		[NT]	
Date analysed	-			[NT]	16	09/07/2019	09/07/2019		[NT]	
Arsenic	mg/kg	4	Metals-020	[NT]	16	9	8	12	[NT]	
Cadmium	mg/kg	0.4	Metals-020	[NT]	16	1	2	67	[NT]	
Chromium	mg/kg	1	Metals-020	[NT]	16	20	20	0	[NT]	
Copper	mg/kg	1	Metals-020	[NT]	16	26	25	4	[NT]	
Lead	mg/kg	1	Metals-020	[NT]	16	31	40	25	[NT]	
Mercury	mg/kg	0.1	Metals-021	[NT]	16	0.1	0.2	67	[NT]	
Nickel	mg/kg	1	Metals-020	[NT]	16	13	13	0	[NT]	
Zinc	mg/kg	1	Metals-020	[NT]	16	950	1300	31	[NT]	[NT]

Envirolab Reference: 221119 Revision No: R00

QUALITY	CONTROL:	Misc Soi	l - Inorg			Du		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-4	221119-3
Date prepared	-			08/07/2019	1	08/07/2019	08/07/2019		08/07/2019	08/07/2019
Date analysed	-			08/07/2019	1	08/07/2019	08/07/2019		08/07/2019	08/07/2019
Total Phenolics (as Phenol)	mg/kg	5	Inorg-031	<5	1	<5	<5	0	102	104

Envirolab Reference: 221119

Revision No: R00

QUALITY	CONTROL:	Misc Ino	rg - Soil			Du		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-4	[NT]
Date prepared	-			08/07/2019	[NT]		[NT]	[NT]	08/07/2019	
Date analysed	-			08/07/2019	[NT]		[NT]	[NT]	08/07/2019	
pH 1:5 soil:water	pH Units		Inorg-001	[NT]	[NT]		[NT]	[NT]	102	
Electrical Conductivity 1:5 soil:water	μS/cm	1	Inorg-002	<1	[NT]		[NT]	[NT]	107	
Chloride, Cl 1:5 soil:water	mg/kg	10	Inorg-081	<10	[NT]		[NT]	[NT]	87	
Sulphate, SO4 1:5 soil:water	mg/kg	10	Inorg-081	<10	[NT]	[NT]	[NT]	[NT]	88	[NT]

Envirolab Reference: 221119

Revision No: R00

Result Definiti	ons
NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Co	ontro	ol Definitions
E	Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Dupl	licate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix S	Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Labora Control Sar	•	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate S	Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

Envirolab Reference: 221119 Revision No: R00

#### **Laboratory Acceptance Criteria**

Revision No:

R00

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Envirolab Reference: 221119 Page | 55 of 56

#### **Report Comments**

Asbestos: Excessive sample volumes were provided for asbestos analysis. A portion of the supplied samples were sub-sampled according to Envirolab

We cannot guarantee that these sub-samples are indicative of the entire sample.

Envirolab recommends supplying 40-50g (50mL) of sample in its own

container as per AS4964-2004.

Note: Samples 221119-1 to 15, 17 to 20 were sub-sampled from bags provided by the client.

Note: All samples analysed as received. However, sample 221119-16 is below the minimum 500mL sample volume as per National Environment Protection (Assessment of Site Contamination) Measure, Schedule B1, May 2013.

Envirolab Reference: 221119 Page | 56 of 56 R00

Revision No:

## Douglas Partners Geotechnics | Environment | Groundwater

Project Name:		Abbotts Ro	ad, KEMPS						1	To:	Envi	irolab Se	rvices	
Project No:	92352				Sampl	er:	Lachla	n Clement	t	_				atswood NSW 2067
Project Mgr:	Emily	McGinty			Mob. F	Phone:	0427 1			Attn:	<u> </u>		•	
Email:	Lachl	an.Clemer	nt@Dougla	asPartners.	com.au;	Emily.M	cGinty@	Douglas	Partners	Phone:	(02)	9910 62	200	Fax: (02) 9910 6201
Date Required:	Stand	ard								Email:	tnota	aras@er	rvirolabse	ervices.com.au
-		oled	Sample Type	Container Type					Analytes	- ·				-
Sample ID	Lab ID	Date Sampled	S - Soil W - Water M - Material	G - Glass P - Plastic	Combo 8a	Сотро ба	COMBO 8	pH,EC	Chloride, Sulfate, Chloride	TRH	втех	METALS	Asbestos ID	Notes/preservation
TP1/2.3	$\neg \top$	01-07-19	S	G/P	х									
TP2/0.1	2	02-07-19	S	G/P		X					Envi	rolab Servio	es	
TP3/0.05	×	02-07-19	S	G/P	X					EŲVIROL	B Charles	12 Ashley	St	
TP4/0.1	4	02-07-19	S	G/P	Х							(02) 9910 62		
TP5/0.1	5	02-07-19	S	G/P	X					<u>Job No</u>	2211			
TP6/0.1	6	02-07-19	S	G/P		Х				Date Re	ceived: 57/	1,1		
TP7/0.1	7	02-07-19	S	G/P	X					Time Re	ceived:	2 7		
TP8/0,1	g ·	02-07-19	S	G/P		Х		<u> </u>		1,000	-Z,	, ·		
TP9/0.1	9	02-07-19	S	G/P		Х				Cooling	cod/Ambien Ice cepaci LittaevBrei	on/None		
TP10/0.1	10	02-07-19	S	G/P		Х				Secuni		OIB ( TONO -	_	7
TP11/0.1	(1	02-07-19	S	G/P		X		_				_		£, #1
TP12/0.1	اکر	02-07-19	S	G/P	Х		_							
TP13/0.1	13.	01-07-19	S	G/P		Х								
TP14/0.1	14	01-07-19	S	G/P		Х								
TP15/0.1	17	01-07-19	S	G/P	Х									1.5
TP16/0.1	ما )	01-07-19	S	G/P	X					n) sa	NPLE 6	MIAIN	ASPES	9108·
TP17/0.1	17	01-07-19	S	G/P		X								, , , ,
Lab Report No:				Note	:									13%
Send Results to Relinquished by		Douglas Par Lachlan Cle		d Add	ress: 18 \	Waler Cre	scent, Sn		ange 256		Phone: (	02) 464	7 0075	Fax: (02) 4646 1886
· · · · · · · · · · · · · · · · · · ·		In a		Date & Ti	me:	05	5-07-19	Receive		Λ .	Zhan	LAZ		

Douglas Partners

Geotechnics | Environment | Groundwater

Project Name:		Abbotts Ro	ent <i>i Groui</i> ad, KEMPS			<u> </u>				To:	Env	irolab Se	rvices	<del></del>
Project No:	92352	.00			Sample	er:	Lachiar	Clemen	t					itswood NSW 2067
Project Mgr:	Emily	McGinty			Mob. P	hone:	0427 10	02 041		Attn:	_		<u> </u>	
Email:	Lachl	an.Clemer	nt@Dougla	sPartners.	com.au;	Emily.M	cGinty@	Douglas	Partners.	Phone	: (02)	9910 62	200	Fax: (02) 9910 6201
Date Required:	Stand	ard								Email:	tnot	aras@er	virolabse	ervices.com.au
		ıled	Sample Type	Container Type _		· .			Analytes					
Sample ID	Lab ID	Date Sampled	S - Soil W - Water M - Material	G - Glass P - Plastic	Сотро ва	Combo 6a	COMBO 8	pH,EC	Chloride, Sulfate, Chloride	TRH	втех	METALS	Asbestos ID	Notes/preservation
P18/0.1	13	01-07-19	S	G/P		Х								
ΓP19/0.5	17	01-07-19	s	G/P	Х						1			
ΓP20/0.1	>0	01-07-19	s	G/P		Х								
P21/0.1	似年	01-07-19	S	G/F			X							
P22/0.1	ME	02-07-19	S	G/ <b>I</b>		-								On Hold
P6/0.5	2	02-07-19	S	G/∯				х.						
P10/1.5	22	02-07-19	S	G/R				х	x					
P13/2.5	-23	01-07-19	S	G脚				X						
P17/1.5	924	01-07-19	S	GIR	•			х		;				
P20/3.0	が発	01-07-19	S	G/M/				х	χį					
							,							
В	26		S	G						Х	X	_ X		, -
S	27		S	G		-					X			
BD2 020719	>%	02-07-19	S	G						X	X		_	
P1/PACM 0.1	29.	01-07-19	М	P	•								х	
				189.4	<u>.</u>	<u></u>	<u> </u>				<u> </u>			<u> </u>
Lab Report No:		=		Note:				<del> </del>			<u> </u>	(00) (0)	7.00=	
Send Results to		ouglas Par achlan Cle		d Addı	ress 18 V		scent, Sm		range 256		Phone: (	02) 464	7 0075	Fax: (02) 4646 1886
Relinquished by			_						rted to la		/ by:		<u> </u>	
Signed:	Carrie .	an a		Date & Ti	me:	08	5-07-19	Receive	d by:	<del>(</del> <u>S</u>				



Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

#### **SAMPLE RECEIPT ADVICE**

Client Details	
Client	Douglas Partners Pty Ltd Smeaton Grange
Attention	Lachlan Clement, Emily McGinty

Sample Login Details	
Your reference	92352.00, Kemps Creek
Envirolab Reference	221119
Date Sample Received	05/07/2019
Date Instructions Received	05/07/2019
Date Results Expected to be Reported	12/07/2019

Sample Condition	
Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	28 Soil, 1 Material
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	12.3
Cooling Method	Ice Pack
Sampling Date Provided	YES

Comments	
Nil	

#### Please direct any queries to:

Aileen Hie Jacinta Hurst				
Phone: 02 9910 6200	Phone: 02 9910 6200			
Fax: 02 9910 6201	Fax: 02 9910 6201			
Email: ahie@envirolab.com.au	Email: jhurst@envirolab.com.au			

Analysis Underway, details on the following page:



**Envirolab Services Pty Ltd** ABN 37 112 535 645

12 Ashley St Chatswood NSW 2067 ph 02 9910 6200 fax 02 9910 6201 customerservice@envirolab.com.au www.envirolab.com.au

Sample ID	vTRH(C6-C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	PAHs in Soil	Organochlorine Pesticidesin soil	Organophosphorus Pesticides	PCBsin Soil	Acid Extractable metalsin soil	Misc Soil - Inorg	Misc Inorg - Soil	Asbestos ID - soils	Asbestos ID - soils NEPM	Asbestos ID - materials
TP1-2.3	✓	✓	✓	✓	✓	✓	✓	✓		✓		
TP2-0.1	✓	✓	✓	✓	✓	✓	✓			✓		
TP3-0.05	<b>✓</b>	✓	✓	✓	✓	✓	✓	✓		✓		
TP4-0.1	✓	✓	✓	✓	✓	✓	✓	✓		✓		
TP5-0.1	✓	✓	✓	✓	✓	✓	✓	✓		✓		
TP6-0.1	<b>✓</b>	✓	✓	✓	✓	✓	✓			✓		
TP7-0.1	<b>✓</b>	✓	✓	✓	✓	✓	✓	✓		✓		
TP8-0.1	✓	✓	✓	✓	✓	✓	✓			✓		
TP9-0.1	✓	✓	✓	✓	✓	✓	✓			✓		
TP10-0.1	✓	✓	✓	✓	✓	✓	✓			✓		
TP11-0.1	✓	✓	✓	✓	✓	✓	✓			✓		
TP12-0.1	✓	✓	✓	✓	✓	✓	✓	✓		✓		
TP13-0.1	✓	✓	✓	✓	✓	✓	✓			✓		
TP14-0.1	✓	✓	✓	✓	✓	✓	✓			✓		
TP15-0.1	✓	✓	✓	✓	✓	✓	✓	✓		✓		
TP16-0.1	✓	✓	✓	✓	✓	✓	✓	✓			✓	
TP17-0.1	✓	✓	✓	✓	✓	✓	✓			✓		
TP18-0.1	✓	✓	✓	✓	✓	✓	✓			✓		
TP19-0.5	✓	✓	✓	✓	✓	✓	✓	✓		✓		
TP20-0.1	✓	✓	✓	✓	✓	✓	✓			✓		
TP6-0.5									✓			
TP10-1.5									✓			
TP13-2.5									✓			
TP17-1.5									✓			
TP20-3.0									✓			
ТВ	✓	✓					✓					
TS	✓											
BD2 020719	✓	✓										
TP1/PACM -0.1												✓

The 'V' indicates the testing you have requested. THIS IS NOT A REPORT OF THE RESULTS.



Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

#### **Additional Info**

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt.

Requests for longer term sample storage must be received in writing.

Please contact the laboratory immediately if observed settled sediment present in water samples is to be included in the extraction and/or analysis (exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS analysis where solids are included by default.

TAT for Micro is dependent on incubation. This varies from 3 to 6 days.

### Appendix K

DQO and QA/QC



#### **Appendix K1: Data Quality Objectives**

This assessment has been devised broadly in accordance with the seven step data quality objective (DQO) process which is provided in Appendix B, Schedule B2 of the *National Environment Protection (Assessment of Site Contamination) Measure* 1999 as amended 2013 (NEPC, 2013). The DQO process is outlined below:

#### K1.1 State the Problem

The "problem" to be addressed is the extent and nature of potential contamination at the site which is unknown, and as such, it is unclear whether the site is suitable for the proposed subdivision.

The objectives of the investigation are as follows:

- Undertake intrusive investigations to assess and describe the nature and extent of contamination;
- Determine the suitability of the site for the proposed industrial land use; and
- Recommend further investigation and/or remediation where the investigation finds the site to be unsuitable for the proposed land use.

#### K1.2 Identify the Decision/Goal of the Study

The suitability of the site for the proposed industrial land use was assessed based on the findings of the site history review, site walkover, limited intrusive investigations and a comparison of the analytical results for contaminants of potential concern (COPC) with the adopted site assessment criteria (SAC).

Based on the results of the site history review, the main COPC are total recoverable hydrocarbons (TRH), benzene, toluene, ethyl benzene and xylenes (BTEX), polycyclic aromatic hydrocarbons (PAH), heavy metals and asbestos. Other commonly found contaminants which may be present include phenols, organochlorine pesticides (OCP), organophosphate pesticides (OPP) and polychlorinated biphenyls (PCB).

The following specific decisions were considered as part of the assessment:

- Did field observation and analytical results identify potential contamination sources which were not included in the preliminary CSM?
- Were COPC present in soil at concentrations that pose a potential risk to identified receptors?
- Does contamination at the site, if encountered, trigger the Duty to Report requirements under the CLM Act 1997?
- Are there any off-site migration issues that need to be considered?



#### **K1.3 Identify Information Inputs**

Inputs into the decisions are as follows:

- Review of regional geology and topography information;
- · Review of site history information;
- Completion of a site inspection;
- The lithology of the site as described in the soil logs (Appendix H);
- Field and laboratory QA/QC data to assess the suitability of the environmental data for the assessment (Appendix K2);
- Analytical results for the COPC; and
- Laboratory reported concentrations of COPC were compared with the NEPC (2013) criteria.

#### K1.4 Define the Study Boundaries

The subject property is identified as 59-63 Abbotts Road, Kemps Creek, NSW and has an approximate area of 22.15 ha and is located within the local government area of Penrith City Council.

The site location and boundaries are shown on Drawing 1, Appendix A. The investigation was undertaken to a depth up to 3 m below ground level or prior refusal on rock across the site.

Field investigations were undertaken between 2 and 4 July 2019 by a DP environmental scientist.

#### K1.5 Develop the Analytical Approach (or decision rule)

The information obtained during the assessment was used to characterise the site in terms of contamination issues and risk to human health and the environment. The decision rules used in characterising the site were as follows:

- The adopted SAC was the NSW Environment Protection Authority (EPA) endorsed criteria; and
- The contaminant concentrations in soil were compared to the adopted SAC to determine whether the site is suitable for the proposed use.

Field and laboratory test results were considered useable for the assessment after evaluation against the following data quality indicators (DQIs):

- Precision a measure of variability or reproducibility of data;
- Accuracy a measure of closeness of the data to the 'true' value;
- Representativeness the confidence (qualitative) of data representativeness of media present on site;
- Completeness a measure of the amount of usable data from a data collection activity; and
- Comparability the confidence (qualitative) that data may be considered to be equivalent for each sampling and analytical event.



The specific limits are outlined in the data QA/QC procedures and results (Appendix F).

#### K1.6 Specify the Performance or Acceptable Criteria

Decision errors for the respective COPC for fill and natural soils are:

- 1. Deciding that fill and natural soil at the site exceeds the adopted SAC when they truly do not; and
- 2. Deciding that fill and natural soil at the site is within the adopted SAC when they truly do not.

Decision errors for the assessment were minimised and measured by the following:

- The sampling regime targeted each stratum identified to account for site variability;
- Sample collection and handling techniques were in accordance with DP's Field Procedures
   Manual;
- Samples were prepared and analysed by a NATA-accredited laboratory with the acceptance limits for laboratory QA/QC parameters based on the laboratory reported acceptance limits and those stated in NEPC (2013);
- The analyte selection is based on the available site history, past site activities and site features. The potential for contaminants other than those proposed to be analysed is considered to be low;
- The SAC were adopted from established and NSW EPA endorsed guidelines. The SAC have risk probabilities already incorporated; and
- A NATA accredited laboratory using NATA endorsed methods are used to perform laboratory analysis.

#### K1.7 Optimise the design for obtaining data

Sampling design and procedures that were implemented to optimise data collection for achieving the DQOs included the following;

- A NATA accredited laboratory using NATA endorsed methods are used to perform laboratory analysis;
- Additional soil samples were collected but kept 'on hold' pending details of initial analysis so that they could be analysed if further delineation was required; and
- Adequately experienced environmental scientists/engineers were chosen to conduct field work and sample analysis interpretation.



#### Appendix K2

#### **Data Quality Assurance and Quality Control Assessment**

#### **K2.1 Data Quality Indicators**

Field and laboratory procedures were assessed against the following data quality indicators (DQIs):

**Table K1: Data Quality Indicators** 

DQI	Performance Indicator	Acceptable Range				
Precision						
Field considerations	SOPs appropriate and complied with	Field staff follow SOPs in the DP Field Procedures  Manual				
Laboratory considerations	field replicates	Precision average relative percent difference (RPD) result <5 times PQL, no limit; results >5 times PQL, 0% - 30%				
	laboratory duplicates	Precision average RPD result <5 times PQL, no limit; results >5 times PQL, 0% - 50%				
	laboratory-prepared volatile trip spikes	Recovery of 60-140%				
Accuracy (bias)						
Field considerations	SOPs appropriate and complied with	Field staff to follow SOPs in the DP Field Procedures  Manual				
Laboratory considerations	Analysis of:					
	laboratory-prepared volatile trip spikes	Recovery of 60-140%				
	Laboratory-prepared trip blanks (field blanks)	<pql< td=""></pql<>				
	method blanks (laboratory blanks)	Recovery of 60-140%				
	matrix spikes	Recovery of 70-130% (inorganics); 60-140% (organics)				
	matrix spike duplicates	Recovery of 70-130% (inorganics); 60-140% (organics); Recovery 70 "low" to 130% "high" indicates interference				
	surrogate spikes	Recovery of 70-130% (inorganics); 60-140% (organics)				
	laboratory control samples	Recovery of 70-130% (inorganics); 60-140% (organics)				
Completeness						
Field considerations	All critical locations sampled	All critical locations sampled in accordance with the DQO's (Appendix E)				
	SOPs appropriate and complied with	Field staff to follow SOPs in the DP Field Procedures  Manual				
	Experienced sampler	Experienced DP Environmental Engineer /Scientist to conduct field work and sampling				
	Documentation correct	Maintain COC documentation at all times				
	Sample holding times complied with	Sample holding times complied with				



DQI	Performance Indicator	Acceptable Range		
Laboratory considerations	All critical samples analysed according to DQO's	All critical locations analysed in accordance with the DQO's		
	Appropriate methods and PQLs	Appropriate methods and PQLs have been used by the contract laboratory		
	Sample documentation complete	Maintain COC documentation at all times		
Comparability				
Field considerations	Same SOPs used on each occasion	Field staff to follow SOPs in the DP Field Procedures  Manual		
	Experienced sampler	Experienced DP Environmental Scientist/Engineer to conduct field work and sampling		
	Same types of samples collected	Same types of samples collected		
Laboratory considerations	Sample analytical methods used (including clean-up)	Methods to be NATA accredited		
	Sample PQLs (justify/quantify if different)	Consistent PQLs to be used		
	Same laboratories (justify/quantify if different)	Same analytical laboratory for primary samples to be used		
Representativeness				
Field considerations	Appropriate media sampled according to DQO's (Appendix D)	Appropriate media sampled according to DQO's (Appendix K1)		
	All media identified in DQO's sampled	All media identified in DQO's sampled		
Laboratory considerations	All samples analysed according to DQO's	All samples analysed according to DQO's		

Notes to Table 1:

SOP - Standard Operating Procedure

DQO - Data Quality Objectives (Appendix D)

#### **K2.2 Field Quality Assurance and Quality Control**

The field QC procedures for sampling as prescribed in the standard operating procedures (SOPs) in the Douglas Partners *Field Procedures Manual* were followed at all times during the assessment. All sample locations and media were in accordance with the DQO (i.e. as per scope of work in DP's proposal).

#### **K2.2.1 Sampling Team**

Sampling was undertaken by an experienced DP Environmental Scientist.

#### **K2.2.2 Sample Collection**

Sample collection procedures and dispatch are reported in body of the report.



#### **K2.2.3 Logs**

Logs for each soil sampling location were recorded in the field. The individual samples were recorded on the field logs along with the sample identity, location, depth, initials of sampler, duplicate locations, duplicate type and site observations. Logs are presented in Appendix H.

#### **K2.2.4 Chain-of-Custody**

Chain-of-Custody information was recorded on the Chain-of-Custody (COC) sheets and accompanied samples to the analytical laboratory. Signed copies of COCs are presented in Appendix J.

#### **K2.2.5 Sample Splitting Techniques**

Replicate samples were collected in the field as a measure of precision of the results. Field replicates samples for soil were collected from the same location and an identical depth to the primary sample. Equal portions of the primary sample were placed into the sampling jars and sealed. The sample was not homogenised in a bowl to prevent the loss of volatiles from the soil. Replicate samples were labelled with a DP identification number, recorded on DP logs, so as to conceal their relationship to their primary sample from the analysing laboratory.

#### **K2.2.6 Duplicate Frequency**

Field sampling comprised intra-laboratory duplicate sampling, at a rate of approximately one duplicate sample for every 20 primary samples.

#### **K2.2.7 Relative Percentage Difference**

A measure of the consistency of results for field samples is derived by the calculation of relative percentage differences (RPDs) for duplicate samples. RPDs have only been considered where a concentration is greater than five times the practical quantitation limit (PQL).

#### **K2.2.7.1** Intra-Laboratory Replicate Analysis

Replicates were tested to assess data 'precision' and the reproducibility within the primary laboratory (Envirolab Pty Ltd) as a measure of consistency of sampling techniques. One replicate sample was analysed. The Relative Percent Difference (RPD) between replicate results is used as a measure of laboratory reproducibility and is given by the following:

$$RPD = \frac{(Replicate result 1 - Replicate result 2)}{(Replicate result 1 + Replicate result 2)/2} \times 100$$

The RPD can have a value between 0% and 200%. An RPD if up to between 30% and 50% is considered to be within the acceptable range.

The comparative results of analysis between primary and duplicate samples are summarised in the table below. Where one or both results were below the PQL, an RPD was not calculated.



Table K2: RPD Results

Sample	Σ	F2	Benzene	Toluene	Ethylbenzene	Total Xylenes
TP7/0 – 0.1 m	<25	<50	<0.2	<0.5	<1	<1
BD4 130219	<25	<50	<0.2	<0.5	<1	<1
Difference	0	0	0	0	0	0
RPD (%)	0	0	0	0	0	0
TP30/0.1	<25	<50	<0.2	<0.5	<1	<1
BD1 200219	<25	<50	<0.2	<0.5	<1	<1
Difference	0	0	0	0	0	0
RPD (%)	0	0	0	0	0	0

Notes:

Bold RPD >30

Concentration of either paired duplicate not greater than five times PQL

Mistakenly, the field duplicate was not analysed for metals. Given the general consistency in metals across the site (excluding TP16) DP considers this omission unlikely to impact on the assessment of reliability for the dataset as a whole. RPD valies for TRH and BTEX were all below the PQL and therefore within the acceptable range. Therefore, the intra-laboratory comparisons indicate that the sampling technique was consistent and repeatable and therefore acceptable precision was achieved.

#### K2.2.8 Trip (Field) Blank

The purpose of a trip blank is to assess the potential for transfer of contaminants into samples to have occurred between the time of collection and analysis of the sample by the laboratory. Laboratory prepared soil field blanks were taken out to the field unopened, subjected to the same preservation methods as the field samples, then analysed for the purposes of determining whether transfer of contaminants into the blank sample had occurred prior to reaching the laboratory. Marginal detections of chromium (total) and lead were recorded in the trip blank (sample 'TB') meaning that there is a small possibility that the transfer of chromium and lead may have occurred between samples during transit. All other compounds were below the PQL.

#### K2.2.9 Trip Spike

The purpose of a trip spike is to assess the potential for loss of volatile analytes to have occurred between the time of collection and analysis of the sample by the laboratory.



For soils, laboratory preparation of the trip spike involved putting 1 mL of BTEX (using a 1500 ppm BTEX trip spike standard) into two jars which were cross referenced and labelled 'trip spike' and 'control'. Both jars were sealed. The trip spike was taken onto site and subject to the same jar storage and transfer as the field samples. The control was stored by the laboratory in the refrigerator. Following receipt of the trip spike, the laboratory analysed both the trip spike and corresponding control with results of the trip spike being expressed as the % difference from the control sample.

The generally acceptance limit for trip spikes is 60 - 140% in difference compared to the control or standard. The results of the laboratory analysis for the trip spikes are shown in Table K3 below.

Benzene Toluene m+p-xylene o-Xylene

Table K3 Trip Spike Results – Soils (% Recovery)

99%

Results indicate that the percentage loss for BTEX during the trip was minimal and therefore appropriate preservation techniques were employed.

99%

99%

99%

99%

#### **K2.3** Laboratory Quality Assurance and Quality Control

Envirolab Services was used as the primary laboratory. Appropriate methods and PQLs were used by the laboratory. Sample methods were NATA accredited (noting the exception for fibrous asbestos (FA) and asbestos fines (AF) quantification to 0.001% w/w).

#### **K2.3.1 Surrogate Spike**

TS

This sample is prepared by adding a known amount of surrogate, which behaves similarly to the analyte, prior to analysis to each sample. The recovery result indicates the proportion of the known concentration of the surrogate that is detected during analysis and is used to assess data 'accuracy'. Results within acceptance limits indicate that the extraction technique was effective.

#### K2.3.2 Reference and Daily Check Sample Results – Laboratory Control Sample (LCS)

This sample comprises spiking either a standard reference material or a control matrix (such as a blank of sand or water) with a known concentration of specific analytes. The LCS is then analysed and results compared against each other to determine how the laboratory has performed with regard to sample preparation and analytical procedure and is used to assess data 'accuracy'. LCSs are analysed at a frequency of one in 20, with a minimum of one analysed per batch.



#### **K2.3.3 Laboratory Duplicate Results**

These are additional portions of a sample which are analysed in exactly the same manner as all other samples and is used to assess data 'precision'. The laboratory acceptance criteria for duplicate samples is: in cases where the level is <5XpqI - any RPD is acceptable; and in cases where the level is >5xPQL - 0.50% RPD is acceptable.

#### **K2.3.4 Laboratory Blank Results**

The laboratory blank, sometimes referred to as the method blank or reagent blank is the sample prepared and analysed at the beginning of every analytical run, following calibration of the analytical apparatus and is used to assess data 'accuracy'. This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, it can be determined by processing solvents and reagents in exactly the same manner as for samples. Laboratory blanks are analysed at a frequency of 1 in 20, with a minimum of one per batch.

#### **K2.3.5 Matrix Spike**

This is a sample duplicate prepared by adding a known amount of analyte prior to analysis, and then treated exactly the same as all other samples. The recovery result indicates the proportion of the known concentration of the analyte that is detected during analysis and is used to assess data 'accuracy'. The laboratory acceptance criteria for matrix spike samples is generally 70 - 130% for inorganic/metals; and 60 - 140% for organics; and 10 - 140% for SVOC and speciated phenols.

#### K2.3.6 Results of Laboratory QC

The laboratory QC for surrogate spikes, LCS, laboratory duplicate results, laboratory blanks and matrix spikes results are reported in the laboratory certificate of analysis.

The laboratory quality control samples were within the laboratory acceptance criteria. It is considered that an acceptable level of laboratory precision and accuracy was achieved and that surrogate spikes, LCS, laboratory duplicate results, laboratory blanks and matrix spike results were of an acceptable level overall. On the basis of this assessment, the laboratory data set is considered to have complied with the DQIs.

#### K2.3.7 Overall Assessment of QA/QC

A review of the adopted QA/QC procedures and results indicates that the DQIs have generally been met with compliance and a minor partial-compliance. On this basis, the sampling and laboratory methods used during the investigation were found to meet DQOs for this project.

# Appendix L

About this Report

# About this Report Douglas Partners O

#### Introduction

These notes have been provided to amplify DP's report in regard to classification methods, field procedures and the comments section. Not all are necessarily relevant to all reports.

DP's reports are based on information gained from limited subsurface excavations and sampling, supplemented by knowledge of local geology and experience. For this reason, they must be regarded as interpretive rather than factual documents, limited to some extent by the scope of information on which they rely.

#### Copyright

This report is the property of Douglas Partners Pty Ltd. The report may only be used for the purpose for which it was commissioned and in accordance with the Conditions of Engagement for the commission supplied at the time of proposal. Unauthorised use of this report in any form whatsoever is prohibited.

#### **Borehole and Test Pit Logs**

The borehole and test pit logs presented in this report are an engineering and/or geological interpretation of the subsurface conditions, and their reliability will depend to some extent on frequency of sampling and the method of drilling or excavation. Ideally, continuous undisturbed sampling or core drilling will provide the most reliable assessment, but this is not always practicable or possible to justify on economic grounds. In any case the boreholes and test pits represent only a very small sample of the total subsurface profile.

Interpretation of the information and its application to design and construction should therefore take into account the spacing of boreholes or pits, the frequency of sampling, and the possibility of other than 'straight line' variations between the test locations.

#### Groundwater

Where groundwater levels are measured in boreholes there are several potential problems, namely:

 In low permeability soils groundwater may enter the hole very slowly or perhaps not at all during the time the hole is left open;

- A localised, perched water table may lead to an erroneous indication of the true water table;
- Water table levels will vary from time to time with seasons or recent weather changes. They may not be the same at the time of construction as are indicated in the report;
- The use of water or mud as a drilling fluid will mask any groundwater inflow. Water has to be blown out of the hole and drilling mud must first be washed out of the hole if water measurements are to be made.

More reliable measurements can be made by installing standpipes which are read at intervals over several days, or perhaps weeks for low permeability soils. Piezometers, sealed in a particular stratum, may be advisable in low permeability soils or where there may be interference from a perched water table.

#### Reports

The report has been prepared by qualified personnel, is based on the information obtained from field and laboratory testing, and has been undertaken to current engineering standards of interpretation and analysis. Where the report has been prepared for a specific design proposal, the information and interpretation may not be relevant if the design proposal is changed. If this happens, DP will be pleased to review the report and the sufficiency of the investigation work.

Every care is taken with the report as it relates to interpretation of subsurface conditions, discussion of geotechnical and environmental aspects, and recommendations or suggestions for design and construction. However, DP cannot always anticipate or assume responsibility for:

- Unexpected variations in ground conditions.
   The potential for this will depend partly on borehole or pit spacing and sampling frequency:
- Changes in policy or interpretations of policy by statutory authorities; or
- The actions of contractors responding to commercial pressures.

If these occur, DP will be pleased to assist with investigations or advice to resolve the matter.

#### About this Report

#### **Site Anomalies**

In the event that conditions encountered on site during construction appear to vary from those which were expected from the information contained in the report, DP requests that it be immediately notified. Most problems are much more readily resolved when conditions are exposed rather than at some later stage, well after the event.

#### **Information for Contractual Purposes**

Where information obtained from this report is provided for tendering purposes, it is recommended that all information, including the written report and discussion, be made available. In circumstances where the discussion or comments section is not relevant to the contractual situation, it may be appropriate to prepare a specially edited document. DP would be pleased to assist in this regard and/or to make additional report copies available for contract purposes at a nominal charge.

#### **Site Inspection**

The company will always be pleased to provide engineering inspection services for geotechnical and environmental aspects of work to which this report is related. This could range from a site visit to confirm that conditions exposed are as expected, to full time engineering presence on site.