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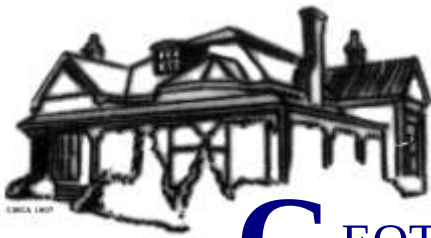


PRELIMINARY AND DETAILED SITE INVESTIGATION

LOT 11 IN DP833983 & LOT 12 IN DP833784

268-278 CATHERINE FIELDS ROAD, CATHERINE FIELD

REPORT NO 14892/2-AA 30 APRIL 2021



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Job No: 14892/2
Our Ref: 14892/2-AA
30 April 2021

Green Valley Islamic College
264 Wilson Road
GREEN VALLEY NSW 2154
Email: imam.director@gvic.nsw.edu.au

Attention: Mr I Ali

Dear Sir

Re: **Proposed School Development
Lot 11 in DP833983 & Lot 12 in DP833784
268-278 Catherine Fields Road, Catherine Field
Preliminary and Detailed Site Investigation**

This report presents a combined Preliminary and Detailed Site Investigation report for the proposed school development at 268-278 Catherine Fields Road, Catherine Field.

Reference should be made to the Executive Summary of this report.

If you have any questions, please do not hesitate to contact the undersigned.

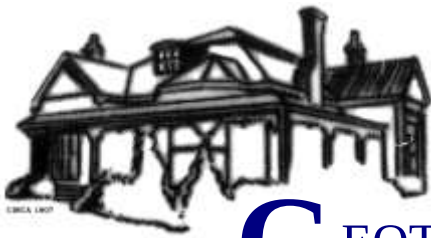
Yours faithfully
GEOTECHNIQUE PTY LTD

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EXECUTIVE SUMMARY

A preliminary site investigation (PSI) and detailed site investigation (DSI) was prepared by Geotechnique Pty Ltd (Geotechnique) for a parcel of land comprising of land currently registered as Lot 11 in DP833983 and Lot 12 in DP833784, located at 268-278 Catherine Fields Road, Catherine Field (referred to as the site), as indicated in Drawing No 14892/1-AA1 or Drawing No 14892/2-AA1, in the local government area of Camden.

Geotechnique Pty Limited (Geotechnique) was commissioned to prepare a combined preliminary and detailed contamination assessment report as part of due diligence for the acquisition of the site.

The site is proposed for new school development.

The objectives of the PSI and DSI are to identify any areas/locations of potential contamination at the site from the past and present activities, in consideration of State Environmental Planning Policy No. 55 – Remediation of Land (DUAP/EPA 1998), to assess if the site is likely to present a risk of harm to human health and the environment under the conditions of the proposed development, and to provide recommendation for further detailed assessment, and / or contamination management, if required, such that the site can be made suitable for the proposed use.

In order to achieve the objectives, the scope of works included a review of site historical and geological information, site reconnaissance, sampling and testing and preparation of an assessment report in accordance with the NSW Environment Protection Authority (EPA), "Consultants Reporting on Contaminated Land: Contaminated Land Guidelines" (NSW EPA 2020).

Based on the test results for this investigation, as presented in the summary tables (Tables E1 to I) and discussed in Section 13, all the laboratory test results satisfied the criteria for stating that the analytes selected are either not present i.e. concentrations less than laboratory limit of reporting (LOR), or present in the sampled soil at concentrations that do not pose a risk of harm to human health or the environment under the proposed land use, with the exception of one location, P1 (Drawing No14892/2-AA3), in the south-western portion of the site, with elevated concentration of zinc (Zn).

Based on this PSI and DSI, the site is considered environmentally suitable for the proposed use subject to the following:

- Assessment of soils in the footprints of existing site features, including the former building remnants and gravel pathway, as indicated in Drawing No 14892/1-AA1, after complete demolition and/or removal by a licensed contractor. The purpose of this is to ascertain the presence or otherwise of "suspect" materials (identified by unusual staining, odour, discolouration or inclusions such as building rubble, asbestos, ash particles, etc.) and fill. The small stockpile of ash resulting from wood/trees, as observed during the site inspection must be removed for aesthetic reason. Sampling and testing will be required to determine the contamination status of soils in the footprints of site features and in the vicinity. The type of testing on samples recovered from the footprints will depend on the materials (topsoil, natural soil, suspect materials or fill) encountered. In the event of contamination, the site can be made suitable by detailed assessment followed by remediation and validation.

- Hazardous material survey should be carried out for the presence of asbestos and possibly lead paints, etc., before the demolition of existing building features / structure and sheds with the site. A professional hygienist should be engaged for the hazardous building material survey
- Additional sampling in the vicinity of P1 to determine the extent of Zn contamination, followed by remediation and validation of the site after removal of zinc affected soil. This could be carried in conjunction with the assessment of the footprints of the existing feature after the completion and removal.
- Development of a remedial action plan (RAP) for the remediation of Zn impacted soils, plus any other contamination identified through the detailed, additional sampling and testing beneath the site features, followed by appropriate validation.
- Assessment of the dam water within the existing dams (Site feature No 11a and 11b) prior to de-watering, to determine the contamination status of the water and recommend the de-watering method.
- On completion of de-watering, contamination assessment of the dam sediment, dam walls and the associated drainage/creek lines to the dams should be carried out.

It is recommended that, inclusions such as gas cylinder, fibreglass sheets, timber tyres, scrap metals observed during the field sampling of fill (at depths ranging from 0.0 to 1m) at locations, TP37, P1, P2 and P5 (Drawing No 14892/1-AA2) should be segregated followed by appropriate disposal and/or reuse. After the segregation of inclusions, the remaining soil could be reused on site.

It should be noted that since that part of the site was part of the larger rural land that site might have been used in the past for agricultural activities, there is a potential for buried irrigation pipes to remain beneath the ground surface. If any asbestos pipes are uncovered, a qualified asbestos removal contractor must be engaged to carry out removal. Asbestos clearance will be required after removal

If any suspect materials (identified by unusual staining, odour, discolouration or inclusions such as building rubble, asbestos sheets/pieces/pipes, ash material, etc.) or any potentially contaminated area(s) and filled area(s) masked by the overgrown grass, as shown in Drawing No 14892/2-AA1, are encountered during any stage of future demolition and/or earthworks/site preparation, Unexpected Finds Management Protocol (Appendix J) should be implemented. In the event of contamination, the site can be made suitable by appropriate remediation followed by validation.

For any materials to be excavated and removed from the site, it is recommended that waste classification of the materials is undertaken, in accordance with the "Waste Classification Guidelines Part 1: Classifying Waste" NSW EPA 2014; NSW EPA resource recovery exemptions and orders under the POEO (Waste) Regulation 2014; or NSW EPA *Certification: Virgin excavated natural material*, prior to disposal at a facility that can lawfully accept the materials.

Any imported soil (fill) must be assessed by a qualified environmental consultant, prior to importation, to ensure suitability for the proposed use. In addition, the imported fill must not contain asbestos and ash, be free of unusual odour, and not be discoloured and not acid sulphate soil or potential acid sulphate soil. The imported fill should either be VENM or ENM.

Reference should be made to Section 15.0 of the report and Appendix K, which set out details of the limitations of the assessment.

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1.0 INTRODUCTION

This report presents the results of a preliminary and detailed contamination assessment for a parcel of land comprising Lot 11 in DP833983 and Lot 12 in DP833784, located at Catherine Fields Road, Catherine Field (referred to as the site), as indicated in Figure 1 below.

FIGURE 1



Map Data ©2021 Google

Geotechnique Pty Limited (Geotechnique) was commissioned to prepare a combined preliminary and detailed contamination assessment report as part of due diligence for the acquisition of the site.

The site is proposed for a new school development.

The investigation of a site for contamination is a process incorporating a set of formal methods used for determining the nature, extent and concentrations of chemical substances either on or off-site, and the actual or potential risk to human health or the environment, resulting from those substances for the proposed development.

The National Environment Protection (Assessment of Site Contamination) Measure 1999 (NEPM 1999) provides recommended methods for assessment and was amended in 2013 (NEPM 1999, April 2013).

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Schedule A of the NEPM (1999) describes the tiered or staged site assessment process. Tier 1 comprises preliminary site investigation (PSI) and detailed site investigation (DSI). Tier 2 and Tier 3 investigations include site-specific risk assessments. The recommended general process for the evaluation of site contamination is shown in the flow chart in Appendix A as gleaned from Schedule A of the NEPM (1999, April 2013).

Depending on the proposed land use and the results of initial site history investigations, the preliminary and detailed investigations may be incorporated into a single phase of investigation and accordingly Stages 1 and 2 Site Investigations are included in this report.

1.1 Objectives

The objectives of this preliminary and detailed site investigation PSI and DSI were to identify any areas/locations of potential contamination at the site from past and present activities, in consideration of State Environmental Planning Policy No. 55 – Remediation of Land (DUAP/EPA 1998) and National Environment Protection (Assessment of Site contamination) Measure (NEPM) 1999 (April 2013), to assess if the site is likely to present a risk of harm to human health and the environment under the conditions of the proposed development, and to provide recommendation for further assessment, and / or contamination management, if required, such that the site can be made suitable for the proposed use.

This report is generally prepared in accordance with the NSW Environment Protection Authority (EPA), "Consultants Reporting on Contaminated Land: Contaminated land Guidelines" (NSW EPA 2020).

1.2 Regulatory Framework

The PSI and DSI has been carried in consideration of the following regulatory framework and guideline documents:

- Contaminated Land Management Act 1997, NSW
- Managing Land Contamination: Planning Guidelines SEPP 55 – Remediation of Land, Department of Urban Affairs and Planning / NSW Environment Protection Authority, Sydney, Australia (DUAP/EPA 1998).
- National Environmental Protection (Assessment of Site Contamination) Amendment Measures, 1999 (April 2013), National Environmental Protection Council (NEPC), Australia (NEPM 1999 (April 2013).
- NSW EPA 2020, Consultants Reporting on Contaminated Land: Contaminated land Guidelines, New South Wales Environment Protection Authority, Sydney.
- Contaminated land Management: Guidelines for the NSW Site Auditor Scheme (3rd Edition), Environment Protection Authority, Sydney New South Wales.
- NSW EPA Sampling Design Guidelines, 1995 (NSW EPA 1995)

2.0 SCOPE OF WORK

In order to achieve the objectives of the preliminary and detailed site investigation, the following scope of work was conducted in accordance with the fee proposal emailed on 15 April 2021:

- A desktop study of;
 - Historical aerial photographs
 - NSW Land Registry Services records

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- Section 10.7 (2) Planning Certificates
 - NSW Environment Protection Authority (EPA) records
 - Groundwater bore records of Department of Primary Industries, Office of Water
 - Soil and geological maps
- Obtaining underground services plans from “Dial Before You Dig” and you/owner (if available).
 - Scanning of sample locations by a services locator.
 - An inspection of accessible open area by an Environmental Scientist/Engineer for current site conditions and identification of any environmental concerns based on visual and olfactory indicators of potential contamination.
 - Soil sampling by the Environmental Scientist / Engineer in accordance with a pre-determined sampling plan developed with reference to the NSW EPA *Sampling Design Guidelines*, aimed at ascertaining the presence or otherwise of soil contamination within the site.
 - Forwarding the soil and quality assurance (QA) / Quality Control (QC) samples to National Association of Testing Authorities (NATA) accredited laboratories for testing of potential contaminants of concern (PCOC) and/or Asbestos.
 - Chemical analysis by National Association of Testing Authorities (NATA) accredited testing laboratories, in accordance with chains of custody (COC) prepared by Geotechnique Pty Ltd (Geotechnique).
 - Assessment of the laboratory analytical results.
 - Assessment of the field and laboratory QA/QC.
 - Preparation of a combined Preliminary and Detailed Site Investigation report.

3.0 SITE IDENTIFICATION

The site is located at Catherine Fields Road, in the local government area of Camden and is registered as Lot 11 in DP833983 and Lot 12 in DP833784, located at Catherine Fields Road, Catherine Field, in the local government area of Camden, as shown in Drawing No 14892/1-AA1.

As shown in Drawing No 14892/1-AA1, the site is irregular in shape, measuring approximately 4.5 hectares (ha).

Reference may be made to the Lots and Deposited Plans for the site in Appendix B for details of the location and dimensions of lots associated with the site.

4.0 SITE HISTORY

In order to formulate a picture of the site history and to assist in identification of any potential contamination, information including historical aerial photographs, NSW Department of Lands records (deposited and cadastral plans), Section 10.7 Planning Certificates, NSW EPA record of notices for contaminated land and records of the Protection of Environment Operations (POEO) public register were reviewed. The information is presented in the following sub-sections.

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4.1 Aerial Photographs

Aerial photographs taken in 1965, 1975, 1983, 1990, 2002, November 2009 and December 2020 were examined. Reference can be made to Appendix C for the examined aerial photographs.

The site has been part of larger rural land and used for rural residential purposes from at least 1965 and continues as rural residential land until 2020. The southern portion of the site and adjoining properties were also observed as rural residential with or without market garden activities.

All the aerial photographs indicated that Catherine Fields Road is located to the west of the site.

1965	The site is rural residential land. There is a dam that can be observed in the northern direction from the site. Catherine Fields Road has already been formed, and surrounding properties are either vacant land, rural residential properties. Market garden activities can also be observed in the surrounding areas.
1975	The site and surrounding properties remain essentially unchanged; however, there seems to be an increase in the number of buildings in the surrounding properties. The southern portion of the site seems to be used for market garden purposes.
1983	The site and surrounding activities are essentially unchanged.
1990	The site and surrounding activities are essentially unchanged; however, there seem to be more structures which have been constructed on the south-western side of the property. The building structures which were in the centre of the site (eastern side) are no longer there.
2002	The site and surrounding properties are essentially unchanged. There has been the construction of a new residential building towards the northwest portion of the site. There are a couple of new dams which can be observed near the centre of the site.
November 2009	The site and surrounding properties are essentially unchanged.
December 2020	The site and surrounding properties remain essentially unchanged.

4.2 Lots and Deposited Plan associated with Site

Lots and Deposited Plan for the site are as presented in Appendix B. The site is registered as Lot 11 in DP833983 and Lot 12 in DP833784, located at Catherine Fields Road, Catherine Field and covers an area of approximately 4.5 ha.

Based on the Land title search for the site, a mechanical fitter owned Lot 11 in DP833983 of the site between 1978 and 1986. Prior to that time the lot was also owned by Narellan Farms Pty Ltd, from 1961 to 1971.

The Muslim League of New South Wales owned Lot 12 in DP833784 since 2021. A builder owned Lot 12 in DP833784 within the site between 1959 and 1996.

With the exception of the aforementioned information the site has been utilised for privately and/or commercial purposes.

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4.3 Section 10.7 (2) Planning Certificates

The Planning Certificates (Certificate Numbers: 20211545 and 20211527 under Section 10.7 (2) Environmental Planning and Assessment Act 1979 for Lot 11 in DP833983 and Lot 12 in DP833784, located at 268 to 278 Catherine Fields Road, Catherine Field issued by Camden Council on 8 and 9 April 2021 respectively, indicated the following:

- The site is zoned RU4 Primary Production Small Lots.
- The site does not include or comprise a critical habitat.
- The site is not located in a conservation area.
- The site does not contain an item of environmental heritage.
- The site is not affected by road widening or road realignment under Division 2 of Part 3 of the Roads Act 1993, any environmental planning instrument or any resolution of the Council.
- The council is not aware of the land or part of land being;
 - Declared Significantly Contaminated Land as defined under Section 11 of the Contaminated Land Management Act, 1997
 - Subject to a Management Order as defined under Section 14 (1) of the contaminated Land Management Act, 1997
 - Subject to an Ongoing Maintenance Order, as defined under Section 2892 of the Contaminated Land Management Act, 1997
 - Subject to a Site Audit Statement, as defined under Part 4 of the contaminated Land Management Act, 1997
- Council has no record of the subject site being identified on the NSW Fair Trading's loose-fill asbestos insulation register as containing loose fill asbestos insulation (sometimes called Mr Fluffy insulation)

Reference may be made to Appendix D for the Section 10.7 (2) Certificates.

4.4 NSW EPA Record of Notices and POEO Public Register

The NSW EPA publishes a record of EPA notices for contaminated lands under Section 58 of the Contaminated Land Management (CLM) Act 1997. The notices relate to the investigation and/or remediation of site contamination considered to pose a significant risk of harm under the definition in the CLM Act.

A search of the EPA record on 28 April 2021 revealed no notices issued for the site.

It should be noted that the NSW EPA record for Contaminated Land does not provide a record of all contaminated lands in NSW. At the time of searching the records, 405 sites in NSW were registered in the database.

The EPA issues environment protection licences to owners or operators of various industrial premises under the POEO Act to control the air, noise, water and waste impacts of an activity.

A search of the POEO Public Register on 28 April 2020 found no records for the site.

Reference may be made to Appendix E for the details of the NSW EPA record of notices and the POEO Public Register.

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4.5 Groundwater Bore Record

In order to obtain some understanding of regional groundwater conditions, a search was carried out through the website of the Department of Natural Resources for any registered groundwater bore data within a radius of 500m of the site. Based on the bore records, no bore information was available within the radius of 500m (Appendix F).

5.0 SITE CONDITION AND SURROUNDING ENVIRONMENT

At the time of site inspection on 8, 19 and 20 April 2021, the site consisted of two rural residential lots, with dwellings towards the western portion of the land. The site features can be observed on Drawing No 14892/1-AA1, the salient point of which are mentioned below:

- There are two brick residential houses with tiled roof
- There is a metal shelter in the northern portion of the site
- There are metal sheds on both properties within the site
- There is a fibro building on each of the properties within the site
- Two dams were observed in the southern property within the site
- There was a backfilled dam / burial pit in the southern portion of the site
- The front portion of the southern property had a mound covered with grass, where the overflow from the septic tank would proceed (there was grass on the surface overlaying gravel)
- There were gravel driveways and / or areas of gravel on both properties within the site
- There was a pile of ash (burnt wood) in the north eastern portion of the site
- The southern portion of the site consisted of land with long grass

The surrounding properties consisted of rural residential properties and Catherine Fields Road.

The site slopes in the north and south directions and also towards Catherine Fields Road.

The site photographs taken during the inspection and field sampling are as shown in Appendix C2.

There were no visual or olfactory indicators of potential contamination. There were no obvious features (bowzers, breather pipe, inlet valve and piping) associated with underground storage tanks, or petroleum hydrocarbon staining, observed on the ground surface of the property that would indicate the potential for contamination.

There were no air emissions emanating from the properties.

6.0 TOPOGRAPHY, GEOLOGY & HYDROGEOLOGY

In general, the ground surface was gently sloping towards the north and south and also towards Catherine Fields Road.

The Geological Map of Penrith (James and Clark 1991) indicates the residual soils within site to be underlain by Triassic Age Shale of the Wianamatta Group, comprising shale, carbonaceous claystone, claystone, and laminite, fine to medium-grained lithic sandstone, rare coal and tuff.

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The Soil Landscape Map of Penrith (Hazelton et al. 1989), prepared by the Soil Conservation Service of NSW, indicates that the site is located within the Blacktown landscape area and typically consists of highly plastic and relatively impermeable residual soil and /or Berkshire Park Landscape with undulating low rises on the Tertiary Terraces of the Hawkesbury Nepean River System.

Reference should be made to Appendix G for descriptions of the soils encountered during sampling for the Detailed Site Investigation. The sub-surface profile at the sampling locations is generalized as follows:

Topsoil	Silty Clay, low to medium plasticity, brown, with root fibres, was encountered to depths ranging from 200 millimetres (mm) to 300mm below the Existing Ground Level (EGL) at test pit locations at TP1 - TP35, TP38 - TP45, TP47 - TP52, B1 - B6, B8 and B9.
Fill	Type 1: Silty Clay, high plasticity, grey-brown, with gravel, was encountered to depths ranging from 300mm to 1m below the EGL at test pit locations TP36, TP37 (refusal in fill) and TP46. Type 2: Silty Clay, medium to high plasticity, brown, with gravel was encountered to depths ranging from 200mm to 900mm in test pit locations B7 and P1 – P5 (P2 was refusal in fill).
Natural Soil	(CH) Silty CLAY, high plasticity, red and yellow-brown, were encountered in the majority of the test pit locations underlying fill or topsoil (B10 it was encountered on the surface).

There were no detectable odour and no obvious discolouration of the soil at the sampling locations.

South Creek is located approximately 200m to the west of the site.

7.0 POTENTIAL FOR CONTAMINATION / CONCEPTUAL SITE MODEL

Based on the preceding sections, potential areas of environmental concern (PAEC) and associated contaminants of potential concern (CoPC) have been identified and are presented in the following table:

PAEC	Rational / Details	CoPC
Filling within site	➤ Fill could be imported and / or contaminated	➤ Metals ¹ ➤ Total Recoverable Hydrocarbons (TRH) and Benzene, Toluene, Ethyl Benzene and Xylenes (BTEX) ➤ Organochlorine Pesticides (OCP) ➤ Polycyclic Aromatic Hydrocarbons (PAH) ➤ Polychlorinated Biphenyls (PCB) ➤ Asbestos)
The site, Part of larger rural land	➤ Potential for applied chemicals and fertilizers for rural land with possible grazing / agricultural activities	➤ Metals ¹ ➤ Organochlorine Pesticides (OCP)
Burial Pit / buried dam	➤ Fill used to back fill could be imported and / or contaminated	➤ Metals ¹ ➤ Total Recoverable Hydrocarbons (TRH) and Benzene, Toluene, Ethyl Benzene and Xylenes (BTEX) ➤ Organochlorine Pesticides (OCP) ➤ Polycyclic Aromatic Hydrocarbons (PAH) ➤ Polychlorinated Biphenyls (PCB) ➤ Asbestos

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PAEC	Rational / Details	CoPC
Fibro building within the site	➤ Potential for the buildings to be built from asbestos containing material	➤ Asbestos
Footprints of existing features, such as building shed, shelter, septic tank and associated features such as gravel drive way, hardstands / building remnants, etc.	➤ Filling might have been carried out for levelling the surface. Fill could have been imported or generated within the site. The fill has the potential to be contaminated with common soil contaminants.	Depending on site observation soil profile after the demolition of the features, the CoPC might include: ➤ Metals; ➤ TRH/BTEX; ➤ PAH; ➤ OCP; ➤ PCB and /or ➤ Asbestos
A stockpile of Ash (burnt wood/trees), brick/concrete fragments, etc	➤ The potential aesthetic issue for the site	Ash material from burning woods/trees, brick and concrete fragments, etc., to be removed for aesthetic reason

¹ Metals suite includes arsenic, cadmium, chromium, copper, lead, mercury, nickel and zinc

Off-site impacts of contaminants in soil are generally governed by the transport media available and likely receptors. The most common transport media are water and wind, whilst receptors include initially uncontaminated soils, groundwater, surface waterbodies, humans, flora and fauna.

The site is covered by grass and scattered trees across the surface. The potential for migration of contaminants via wind-blown dust is considered low as a result of the exposed soils within site. The potential for migration of contamination via surface run-off is also expected to be minor. Some migration of contaminants via surface water may still occur in the event of heavy rain. Surface run-off would generally follow the topography.

Migration of any soil contaminants to the deeper and surrounding soil and / or groundwater regime would generally be via leaching from the surface soil, facilitated by infiltration of surface water. Given that the natural soil beneath the site is relatively impermeable (refer to Section 6.0 for the regional geology information), the potential for any contaminants migrating from the soil to the groundwater table below is considered low. Furthermore, the relatively impermeable clay layer would have minimized the potential for any contaminants migrating to deeper soil.

As mentioned earlier, South Creek is located approximately 200m to the west of the site.

8.0 DATA QUALITY OBJECTIVES (DQO)

Data quality objectives (DQO) are qualitative and quantitative statements that specify the quality of the data required for the contamination assessment. DQO must ensure that the data obtained is sufficient to characterize the contamination on a site, and enable appropriate assessment of health and environmental risks for the current or proposed use. The DQO were adopted as described in Schedule B2 of the NEPM 1999 (April 2013).

The DQO process adopted is detailed below:

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8.1 State the Problem

The site has been part of a larger rural land.

The 'problem' as it stands, is that previous and existing land uses may have given rise to potential soil contamination, which could impact on the proposed school development.

An investigation is to be undertaken in order to provide data on the status of the soil on site. The analytical data should then enable to inform any further assessment, remedial or management plan to make the site suitable for the proposed use.

The 'problems' to be addressed are:

- What is the overall contamination status of the site and what is the extent of contamination?
- Whether the site is considered suitable for proposed land use?

The following key professional personnel were involved in the contamination assessment:

Danda Sapkota	Associate (Environmental Engineer)
Saurabh Sapkota	Senior Environmental Engineer

8.2 Identify the Decisions

The decisions to be made in completing the assessment are as follows:

- Are there any unacceptable odours emanating from the site?
- Are there any unacceptable aesthetic issues within the site?
- Are there any unacceptable risks to site occupants or the environment under the proposed land use?
- Are there any background soil contaminant levels within the site that pose a risk to future site occupants or the environment under the proposed development?
- Are there any human health risks posed by potential chemical mixtures within site?
- Is there any potential for groundwater contamination?
- Is there any evidence of or potential for migration of contaminants from the site?
- Is the site currently suitable for the proposed land use?
- Is further investigation required to adequately address the abovementioned decisions?
- Is further investigation required to delineate the extent of contamination / locations of concern identified?
- Does the site require remediation or management to ensure suitability for the proposed land use?

8.3 Identify Inputs to the Decisions

The inputs into the decision process are as follows:

- Historical information (presented in Sections 4.0 and 5.0).
- Site conditions and observation details (presented in Section 3.0).
- Systematic soil sampling in accordance with the NSW EPA "Sampling Design Guidelines" (NSW EPA 1995).
- Soil profile information obtained through the sampling phase.

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- Develop conceptual site model (presented in Section 7.0).
- Laboratory test data on analysed samples.
- Assessment of test results against applicable soil investigation levels and screening levels in Schedule B1 of the National Environment Protection (Assessment of Site Contamination) Measure 1999 (April 2013).

8.4 Define the Study Boundaries

Spatial Boundaries: The spatial boundary of the site was defined by boundaries of the site as shown on Drawing No 14892/1-AA1 up to the depths of excavation ranging from about 0.5m to 1.0m (refer to Table 1 in Appendix G).

Temporal Boundaries: Soil sampling for the site was carried on 19 and 20 April 2021. The temporal boundaries were considered as the current status of the sampling locations at the time of the sampling.

8.5 Develop a Decision Rule

The information obtained through this assessment will be used to characterize the subject site in terms of contamination issues and risk to human health and the environment. The decision rule in characterizing the site will be as follows:

- The assessment criteria are the NSW EPA produced and / or endorsed criteria, as specified in Section 12.0 of this report.
- The subject site will be deemed contaminated if any of the above criteria are unfulfilled.
- Further investigation, remediation and / or management will be recommended if the site is found to be contaminated.

Laboratory test results will only be accepted and considered useable for this assessment under the following conditions:

- All laboratories used are accredited by NATA for the analyses undertaken.
- All detection limits set by the laboratories fall below the assessment criteria adopted.
- Analyte concentrations in the rinsate water sample should be less than laboratory limits of reporting or should not be detected significantly.
- Analyte concentrations in the rinsate water sample should be less than laboratory limits of reporting or should not be detected significantly.
- The differences between the reported concentrations of the analytes in the field duplicate and the corresponding original samples are within accepted limits (refer to Section 10.5).
- The differences between the reported concentrations of the analytes in the inter-laboratory duplicate (split) and the corresponding original samples are within accepted limits (refer to Section 10.6).
- The QA / QC protocols and results reported by the laboratories comply with the requirements of *Schedule B3 (Guideline on Laboratory Analysis of Potentially Contaminated Soils)* of NEPM 1999 (April 2013).

8.6 Specify Limits on Decision Errors

The limits on decision errors for this assessment are as follows:

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- Selection of sampling patterns complies with those recommended in the NSW EPA sampling design guidelines, which have risk probabilities already incorporated. Sample numbers and sampling plans are therefore considered to be adequate for site characterization.
- The analyte selection is based on the desktop study, site conditions and soil profiles. The possibility of any other potential contaminants that would be detected through field observation (odours, staining, and colouring) during sampling may need to be included. The potential for contaminants other than those analysed is considered remote.
- The assessment criteria adopted from the guidelines stated in Section 12.0 have risk probabilities already incorporated.
- The generally acceptable limits for duplicate and inter-laboratory duplicate comparisons are outlined in Sections 10.5 and 10.6 of this report.
- The acceptance limits for laboratory QA / QC parameters are based on the laboratory reported acceptance limits and those stated in Schedule B3 of the NEPM 1999 (April 2013).

8.7 Optimize the Design for Obtaining Data

The following measures were undertaken to ensure accurate data collection:

- The procedures adopted for the location and collection of environmental samples were developed prior to implementation, in accordance with NSW EPA guidelines and current industry practice. The sampling program was designed to ensure integrity of data collection during the assessment, including decontamination techniques, sample labelling, storage and chain of custody protocols.
- The analytical program was developed in theory prior to undertaking the sampling (based on the desktop study, site conditions and soil profiles) and refined on the basis of field observations (both surface and sub-surface) during the sampling phase. All potential contaminants have been covered.
- Only laboratories accredited by NATA for the analyses undertaken were used for this assessment. The laboratory performance is assessed through a review of statistics calculated for QA samples such as blanks, spikes, duplicates and surrogates.
- The field QA / QC protocols adopted are outlined in Section 9.0 of this report. The QA / QC program incorporates preparation of traceable documentation of procedures used in the sampling and analytical program and in data validation procedures.

Achieving the DQO will be assessed through the application of Data Quality Indicators (DQI), also known as PARCC parameters, defined as follows:

- Precision: A quantitative measure of the variability (or reproducibility) of data;
- Accuracy: A quantitative measure of the closeness of reported data to the “true” value;
- Representativeness: The confidence (expressed qualitatively) that data are representative of each media present on the site;
- Completeness: A measure of the amount of useable data from a data collection activity; and
- Comparability: The confidence (expressed qualitatively) that data may be considered to be equivalent for each sampling and analytical event.

Each of the above is defined in the following:

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Precision

The following are considered suitable criteria and/or performance indicators for assessment of precision:

- Performance of **intra-laboratory** and **inter-laboratory duplicates data sets**, through calculation of relative percentage differences (RPD).
- Performance of **blind field duplicate sets**, through calculation of RPD.
- The RPD are compared with acceptable criteria.

Accuracy (Bias)

The closeness of the reported data to the “true” value will be assessed through review of performance of:

- Blank samples.
- Method blanks are analysed for analytes targeted in the primary samples.
- Matrix spike and matrix spike duplicate samples.
- Laboratory control samples.

Representativeness

To ensure representativeness in sample analysis, i.e., to ensure the data produced by the laboratory is representative of conditions encountered in the field, the following steps will be taken by the laboratory and subsequently reviewed by Geotechnique:

- Review of results of rinsate blanks.
- Review of RPD values for field and laboratory duplicates.
- The appropriateness of collection methodologies, handling, storage and preservation techniques will be assessed to ensure/confirm there was minimal opportunity for sample interference or degradation (i.e. volatile loss during transport due to incorrect preservation / transport methods).

Based on the above, it is considered that the level of data representativeness will be acceptable for the purpose of the land use assessment.

Completeness

In addressing the degree of completeness of the analytical data acquired during the program the following were considered:

- Soil samples would be collected in accordance with the NSW EPA sampling Guideline (NSW EPA 1995). The systematic sampling location plan based on the above was deemed to be appropriate to assess the subject site.
- Copies of all COC documentation reviewed and provided.

It is therefore considered that the proportion of “useable data” resulting from the data collection activities will be sufficient for the assessment.

Comparability

Issues of comparability between data sets arising from separate site visits will be reduced through the following:

- The same Standard Operating Procedures (SOPs) are used on each data gathering activity.
- The data are collected by an experienced sampler; and
- NATA accredited laboratory methodologies will be employed in the entire laboratory program.

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9.0 SAMPLING & ANALYSIS PLAN AND SAMPLING METHODOLOGY

Sampling and analyses for the PSI and DSI was carried out within the site to obtain a reasonable assessment of the following:

1. Nature and location of any soil contaminant(s) within the site.
2. The risk(s) that the contaminant(s) (if present) pose to human health and / or the environment under the conditions of the proposed land use.

Soil sampling for the PSI and DSI were carried out on 8, 19 and 20 April 2021, by an Environmental Engineer from Geotechnique who was responsible for visually assessing the site, locating the nominated test pit locations, recovery of soil samples, preparation of samples for delivery to NATA accredited laboratories, and logging the sub-surface profile encountered at each test location.

Based on the "Sampling Design Guidelines for Contaminated Sites" 1995 EPA, fifty-two (52) test pits TP1 to TP52 were systematically excavated across the site and a number of representative soil samples were recovered. Additional judgemental sampling from ten (10) test pits, B1 to B10, were excavated around the buildings and sheds areas and an extra five (5) test pits were excavated in the area containing the burial pit.

The test pit locations are shown on Drawing No 14892/2-AA1.

Prior to sampling, the test pit locations were scanned by a services locator in order to avoid any underground services.

The sampling procedures adopted were as follows:

- The test pits were excavated using an excavator, over the depth interval nominated by the Environmental Engineer. The representative soil sample was recovered directly from the excavator bucket using a stainless steel trowel.
- The trowel was decontaminated prior to use in order to prevent cross contamination (refer to Section 10.2 for details of the procedures for decontamination of the trowel).
- To minimize the potential loss of volatiles, the laboratory soil sample was immediately transferred to a labelled, laboratory supplied, 250ml glass jar and sealed with an airtight, Teflon screw top lid. The fully filled jar was then placed in a chilled container.
- The recovered soil sample for asbestos analysis was transferred into a small plastic bag.

In order to ensure the analytical performance of the primary laboratory, duplicate and split samples were prepared for analyses. Samples were kept in labelled laboratory supplied glass jars (acid-washed and solvent-rinsed) and sealed with an airtight screw top Teflon lids. The fully filled jars were placed in a chilled container.

Rinsate water samples were collected and placed in a glass bottle and vial supplied by the laboratory at the completion of each day of field work. The fully filled bottle and vial were labelled and placed in a chilled container.

At the completion of field sampling, the chilled container was transported to our Penrith office and transferred to a refrigerator where the temperature was maintained below 4 °C.

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The primary samples and QA / QC chilled containers with trip spike sample and plastic bags were forwarded to the primary laboratory of SGS Environmental Services (SGS). Inter-laboratory duplicate (split) samples were forwarded to the secondary laboratory, Envirolab Services Pty Ltd (Envirolab). Both laboratories are NATA accredited.

On receipt of the samples and COC, the laboratories returned the Sample Receipt Advice, verifying the integrity of all samples received.

Based on site observation, the soil profiles encountered and the potential for contamination/conceptual site model presented in Section 7.0, the following laboratory analysis plan was implemented:

- 80 soil samples (including 57 for Topsoil/surface soil, 12 samples for fill and 11 samples for natural soil) were selected for analysis of metals.
- 21 samples (including for Topsoil/surface and fill) were analysed for TRH, BTEX, PAH
- 41 samples (including 29 samples for Topsoil/surface soil, 12 samples for fill) were analysed for OCP.
- 12 fill samples were selected for the analysis of PCB.
- 11 fill samples were selected for analysis of asbestos.
- Two rinsate samples (RS1 and RS2) were analysed for metals, TRH, BTEX, PAH, OCP and PCB.
- Two trip spike samples (TS1 and TS2) was analysed for BTEX.

10.0 FIELD QUALITY ASSURANCE AND QUALITY CONTROL

10.1 Sampling Personnel

Geotechnique undertook all the sampling associated with this assessment. An Environmental Engineer from Geotechnique (Saurabh Sapkota), nominated sampling positions based on consultation with the Project Manager, supervised (full time) the excavation of each test pit.

Saurabh has a Bachelor of Civil Engineering degree and has been employed by Geotechnique as an Environmental Scientist since 2014. At commencement of employment, Saurabh underwent supervised training in Geotechnique procedures for sampling and logging.

10.2 Decontamination Procedures

As stated in Section 8.0 of this report, soil sampling was carried out using an excavator. The stainless steel trowel was used to transfer the soil sample from the excavator bulk sample to the laboratory supplied glass jar. The stainless steel trowel was decontaminated prior to use. Decontamination of the trowel involved the following:

- Removal of soils adhering to the trowel by scrubbing with a brush.
- Washing the trowel thoroughly in a solution of phosphate free detergent (Decon 90) using brushes and disposable towels.
- Rinsing the trowel thoroughly with distilled water.
- Repeating the washing / rinsing steps and rinsing with water.
- Drying the trowel with a clean cloth.

A sample of the final rinsate water was recovered at completion of sampling for each day.

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10.3 Rinsate Samples

Two rinsate water samples were recovered on completion of field work (Rinsate RS1 and RS2) in order to identify possible cross contamination between the sampling locations.

The rinsate water samples were analysed for metals, TRH, BTEX, PAH, OCP and PCB. The test results for the rinsate water samples are summarised in Table A of the laboratory summary tables. A copy of the laboratory analytical report is included in Appendix H of this report.

As indicated in Table A, all concentrations in the rinsate samples were less than laboratory limits of reporting (LOR), which indicates that adequate decontamination had been carried out in the field.

10.4 Trip Spike Samples

Trip spike samples are obtained from the laboratory on a regular basis, prior to conducting field sampling where volatile substances are suspected. The samples are held in the Penrith office of Geotechnique, at less than 4°C, for a period of not more than fourteen days. During the field work, the trip spike samples were kept in the chilled container with soil samples recovered from the site. The trip spike samples were then forwarded to the primary laboratory together with the soil samples recovered from the site.

The laboratory prepares the trip spike by adding a known amount of pure petrol standard to a clean sand sample. The sample is mixed thoroughly to ensure a relatively homogenous distribution of the spike throughout the sample. When the sample is submitted for analysis, the same procedure is adopted for testing as for the soil samples being analysed from the site.

The purpose of the trip spike is to detect any loss or potential loss of volatiles from the soil samples during field work, transportation, sample extraction or testing.

Two spike samples (TS1 and TS2) were forwarded to the primary analytical laboratory with the samples collected from the site and was tested for BTEX. The test results for the trip spike samples, reported as a percentage recovery of the applied and known spike concentrations, are shown in Table B. A copy of the actual laboratory analytical report is included in Appendix H.

As indicated in Table B, the results show a good recovery of the spike concentrations, ranging between 94% and 97%, which were within the acceptable ranges (60% - 130%). Furthermore, all BTEX results were less than laboratory LOR and there were no visible or olfactory indications of hydrocarbon contamination.

Based on the above, it is considered that any loss of volatiles from the recovered samples that might have occurred would not affect the outcome / conclusion of this report.

10.5 Duplicate Samples

A field duplicate sample was prepared in the field through the following processes:

- A larger than normal quantity of soil was recovered from the sample location selected for duplication.
- The sample was divided into two portions, using the decontaminated trowel.
- One portion of the sample was immediately transferred, using the decontaminated trowel, into a labelled, laboratory supplied, 250ml glass jar and sealed with an airtight, Teflon screw top lid. The fully filled jar was labelled as the duplicate sample and immediately placed in a chilled container.
- The remaining portion was stored in the same way and labelled as the original sample.

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The duplicate sample was prepared on the basis of sample numbers recovered during the field work. The duplicate sample frequency was computed using the total number of samples analysed as part of this assessment. The duplicate sample frequencies computed are as follows:

• Metals:	80 samples analysed;	4 duplicates;	5% frequency
• TRH/BTEX/PAH:	21 samples analysed;	3 duplicates;	14% frequency
• OCP:	41 samples analysed;	4 duplicates;	10% frequency
• PCB:	12 samples analysed;	3 duplicates;	25% frequency

The duplicate frequency adopted complies with Schedule B3 Guideline on Laboratory Analysis of Potentially Contaminated Soils of the National Environment Protection (Assessment of Site Contamination) Measure (NEPM) 1999 (April 2013), which recommends a duplicate frequency of at least 5%.

The laboratory test results are summarised in Tables C1 to C4. A copy of the laboratory analytical report is included in Appendix H.

A comparison was made of the laboratory test results for the duplicate samples with the original samples and the Relative Percentage Differences (RPD) was computed to assess the accuracy of the laboratory test procedures. RPD within 30% are generally considered acceptable. However, this variation can be higher for organic analysis than for inorganics and for low concentrations of analytes or non-homogeneous samples.

As shown in Table C1 to C4, the comparisons between the duplicate and corresponding original sample indicated acceptable RPD with the exception of higher RPD (ranging from 37% to 123%) for metals, considered due the relatively lower concentrations of analytes detected and/or heterogeneity of the samples analysed.

All the concentrations with RPD in excess of 30% in the split pairs of samples were below the assessment criteria.

Based on the overall duplicate sample numbers and comparisons, it is concluded that the test results provided by the primary laboratory SGS are of adequate accuracy and reliability for this assessment.

10.6 Inter-laboratory Duplicate (Split) Samples

The inter-laboratory duplicate (split) sample provides a check on the analytical performance of the primary laboratory. The split sample was prepared in the same manner as the duplicate sample. Reference should be made to Section 9.5. Split samples were forwarded to the secondary laboratory of Envirolab.

The split sample frequency was computed using the total number of samples analysed as part of this assessment. The split sample frequencies computed are as follows:

• Metals:	80 samples analysed;	4 splits;	5% frequency
• TRH/BTEX/PAH:	21 samples analysed;	2 splits;	10% frequency
• OCP:	41 samples analysed;	4 splits;	10% frequency
• PCB:	12 samples analysed;	1 split;	8% frequency

The split sample frequency adopted complies with the Schedule B3 of the NEPM 1999 (April 2013), which recommends a frequency of 5%.

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The results are summarised in Tables D1 to D4. A copy of the laboratory analytical report / certificate of analysis is included in Appendix H.

Based on Schedule B3 of the NEPM 1999 (April 2013) the difference in the results between the split samples should generally be within 30% of the mean concentration determined by both laboratories, i.e., RPD should be within 30%. However, this variation can be higher for organic analysis than for inorganics and for low concentrations of analytes or non-homogeneous samples.

As shown in Tables D1 to D4, the comparisons between the splits and corresponding original samples in general indicated acceptable RPD, with the exception of marginally higher RPD ranging from 33% to 98% which were in excess of 30%, considered due the relatively lower concentrations of analytes detected and/or heterogeneity of the samples analysed.

All the concentrations with RPD in excess of 30% in the split pairs of samples were below the assessment criteria.

Based on the above, the variations are not considered critical. Based on the overall split sample numbers and comparisons, it is concluded that the test results provided by the primary laboratory can be relied upon for this assessment.

The data quality indicator for the sampling phase is provided in the following table:

DATA QUALITY INDICATOR	METHODS OF ACHIEVEMENT
Documentation Completeness	Preparation of sample location plans and sampling logs. Preparation of chain of custody records. Laboratory sample receipt information received. NATA registered laboratory results certificates acquired.
Data Completeness	Sampling density meets the requirements of the EPA sampling design guidelines. Analysis for all potential contaminants of concern.
Data Comparability	Using appropriate techniques for sample recovery. Using the same sampling and decontamination procedures for each day of field work. Using appropriate sample storage and transportation methods. Use of NATA registered laboratories.
Data Representativeness	Good sampling coverage of site, in accordance with the sampling and testing plan. Collection of and rinsate blank samples. Representative coverage of potential contaminants.
Data Precision and Accuracy	Use of trained and qualified field staff. Use of analytical laboratories experienced in the analyses undertaken. Appropriate industry standard decontamination procedures adopted. Field duplicate (one in 20 samples), inter-laboratory triplicate/duplicate (split) one in 20 samples, trip spike and rinsate blank water (at least one at each day's field work) prepared and analysed. Acceptable RPD for comparison of duplicate samples, overall. Acceptable concentrations in trips spike and rinsate blank water sample. Check of laboratory quality control methods and results.

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11.0 LABORATORY QUALITY ASSURANCE AND QUALITY CONTROL

Geotechnique uses only laboratories accredited by the NATA for chemical analyses. The laboratories also incorporate quality laboratory management systems to ensure that trained analysts using validated methods and suitably calibrated equipment produce reliable results.

In addition to the quality control samples, the laboratories also ensure that all analysts receive certification as to their competence in carrying out the analysis and participate in national and international proficiency studies.

SGS and Envirolab are accredited by NATA and operate a Quality System designed to comply with ISO / IEC 17025.

Within the allowable holding times, detailed in Schedule B3 of the NEPM 1999 (April 2013), the discrete and composited soil samples were analysed. It should be noted that there is no specific holding time for asbestos analysis. Within the allowable holding times for water detailed in Standard Methods for the Examination of Water and Wastewater (APHA) the rinsate samples were analysed.

The test methods and LOR / practical quantitation limits (PQL) adopted by the laboratories are indicated with the laboratory analytical reports/certificates of analysis. A copy of the laboratory analytical reports / certificate of analysis is included in Appendix G.

As part of the analytical run for the project the laboratories included laboratory blanks, duplicate samples, laboratory control samples, matrix spikes and surrogate spikes.

The QA / QC procedures adopted by the laboratories and the results, have been checked and considered to be generally complied with Schedule B3 of the NEPM 1999 (April 2013).

Overall, the QA / QC adopted by SGS and Envirolab indicated the analytical data to fall within acceptable levels of accuracy and precision. The analytical data provided is therefore considered to be reliable and useable for this assessment.

The data quality indicator for sampling phase is provided in the following table:

DATA QUALITY INDICATOR	METHODS OF ACHIEVEMENT
Documentation Completeness	Chain of custody records followed Laboratory sample receipt information provided NATA registered laboratory results certificates provided All laboratory internal QA/QC documented with certificates
Data Completeness	Trips spike, Field duplicate sample numbers generally complying with NEPM 1999 (April 2013) and AS4482.1 Inter-laboratory triplicate and duplicate numbers generally complying with NEPM and AS4482.1 Rinsate samples recovered
Data Comparability	Test methods consistent for each sample Test methods comparably between primary and secondary laboratory Generally, acceptable Relative Percentage Differences (RPD) between original samples and field duplicates and split samples. Some high RPD recorded at low concentrations and due to non-homogeneous soil matrix Using appropriate sample storage and transportation methods Use of NATA registered laboratories

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DATA QUALITY INDICATOR	METHODS OF ACHIEVEMENT
Data Representativeness	Adequate duplicate, split, trip spike and rinsate numbers Generally, acceptable Relative Percentage Differences (RPD) between original samples and field duplicates and split samples Acceptable test results for trip spike and rinsate samples Adequate laboratory internal quality control and quality assurance methods, complying with the NEPM (1999, April 2013)
Data Precision and Accuracy	NATA accreditation of the laboratories requires adequately trained and experienced testing staff Acceptable Relative Percentage Difference for duplicate comparison overall Acceptable Relative Percentage Difference for split sample comparison overall Acceptable concentrations in general in rinsate blank water Appropriate laboratory test methods Adequate laboratory performance based on results of the blank samples, matrix spike samples, control samples, duplicates and surrogate spike samples

Overall, the quality control elements adopted by SGS and Envirolab indicate that the analytical data falls within acceptable levels of accuracy and precision for the analysis of soils. The analytical data provided is therefore considered to be reliable and useable for this assessment.

Based on the above it is concluded that the quality assurance and quality control data quality objectives have been complied with both in the field and in the laboratory and the laboratory test data obtained as part of this assessment are reliable and useable for this assessment.

12.0 ASSESSMENT CRITERIA

Investigation levels and screening levels developed in the NEPM 1999 (April 2013) were used in this assessment, as follows:

- Risk-based Health Investigation Levels (HIL) for a broad range of metals and organic substances. The HIL are applicable for assessing human health risk via all relevant pathways of exposure. The HIL as listed in Table 1A (1) of Schedule B1 “*Guideline on Investigation Levels for Soil and Groundwater*” are provided for different land uses.

The site is proposed for a school development. As such, with regard to human health, analytical results were assessed against the stringent risk based health-based investigation (HIL) for *residential with garden / accessible soil* (HILA).

- Health Screening Levels (HSL) for Total Recoverable Petroleum Hydrocarbons (TRH) fractions and Naphthalene are applicable for assessing human health risk via inhalation and direct contact pathways. The HSL depend on specific soil physicochemical properties, land use scenarios and the characteristics of building structures. The HSL listed in Table 1A (3) of Schedule B1 “*Guideline on Investigation Levels for Soil and Groundwater*” apply to different soil types and depths below surface to >4 m.

For this assessment, the analytical results were assessed against the available HSL for *low density residential* (HSL A) for Clay to depth of 0m to <1m.

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- Ecological Screening Levels (ESL) for selected recoverable/petroleum hydrocarbon compounds, TRH/ fractions and Benzo (a) Pyrene are applicable for assessing the risk to terrestrial ecosystems. ESL listed in Table 1B(6) of Schedule B1 “*Guideline on Investigation Levels for Soil and Groundwater*” broadly apply to coarse and fine-grained soils and various land uses and are generally applicable to the top 2m of soil.

The analytical results were assessed against the available ESL for *urban residential* for fine-grained soil (Clay).

- Ecological Investigation Levels (EIL), a specific type of Soil Quality Guidelines (SQG) for selected metals, Naphthalene and DDT, are applicable for assessing the risk to terrestrial ecosystems. EIL listed in Table 1B(1-5) of Schedule B1 “*Guideline on Investigation Levels for Soil and Groundwater*” depend on specific soil physicochemical properties and land use scenarios and generally apply to the top 2m of soil.

For this assessment, the analytical results were assessed against the available EIL for *urban residential* land use.

For arsenic, Naphthalene and DDT, generic EIL for urban residential are adopted for aged contaminants. For other metals, EIL are the sum of the added contaminant limit (ACL) and the ambient background concentration (ABC). Where available, EIL are calculated using the EIL calculator developed by CSIRO for NEPC.

For all discrete soil samples, the individual concentration of analyte will be assessed against the relevant criteria.

Statistical analysis of the test results, if carried out wherever deemed applicable, the site will be deemed not significantly impacted by past and present usage if the following criteria are fulfilled:

- the 95% upper confidence limit (UCL) of the arithmetic mean of the data set is less than the assessment criteria
- the standard deviation of the data set is less than 50% of the assessment criteria
- no individual sample result is greater than 250% of the assessment criteria

For asbestos, the assessed soil must not contain asbestos-containing material (ACM) greater than 0.01%w/w, as well as asbestos fines (AF) and fibrous asbestos (FA) greater than 0.001% w/w. There must be no visible asbestos for surface soil within the site.

The soil/site will be deemed contaminated if any of the above criteria are unfulfilled. Further investigation, remediation and / or management will be recommended if the soil is found to be contaminated.

13.0 LABORATORY TEST RESULTS, ASSESSMENT & DISCUSSION

The test results are presented in Tables E1 to I together with the assessment criteria adopted. A copy of the laboratory analytical reports from SGS is included in Appendix G. A discussion of the test data is presented in the following sub-sections.

13.1 Metals (As, Cd, Cr, Cu, Pb, Hg, Ni & Zn)

Discrete Sample

The test results of CEC and pH in Tables E1 to E4 were adopted to calculate the relevant EIL.

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As indicated in Tables E1 to E3, the 95% UCL on the mean concentrations for all metals for the soil samples analysed were below the relevant available HIL A and EIL. The standard deviation of the data set is less than 50% of the assessment criteria and no individual sample result is greater than 250% of the assessment criteria. The 95% UCL calculation was carried out using PROUCL Ver 5.1 (a USEPA Software for 95% UCL calculation). The 95% UCL calculation are presented in Appendix I.

As indicated in Table E4, the Zn concentration for the soil recovered from location P1, exceeding the EIL would present a risk of harm to the environment (terrestrial ecosystems) but would not pose a risk of harm to human health for the proposed use of the site.

13.2 TRH and BTEX

As shown in Table F, the concentrations of F1 (TRH C6-C10 less BTEX), F2 (TRH >C10-C16 less Naphthalene and TRH >C10-C16), F3 (TRH >C16-C34), F4 (TRH >C34-C40) and BTEX were below the HSL A and / or ESL adopted.

There was not limiting of HSL A for Clay for Ethyl Benzene.

13.3 Polycyclic Aromatic Hydrocarbons (PAH)

As indicated in Table G, concentrations of Benzo (a) Pyrene (BaP) TEQ, Total PAH, Naphthalene and BaP were well below the HIL A, HSL A, and EIL and / or ESL adopted. Moreover, all of the test results for BaP TEQ, Total PAH, Naphthalene and BaP were less than the laboratory LOR.

13.4 Organochlorine Pesticides (OCP)

As shown in Tables H1 and H2, the concentrations of OCP were well below the HIL A, and less than the laboratory LOR. Concentrations of DDT were also below the EIL.

13.5 Polychlorinated Biphenyls (PCB)

As shown in Table H2, the concentrations of PCB were below the HIL A and less than the laboratory LOR.

13.6 Asbestos

As indicated in Table I, no >7mm ACM was found at the LOR of 0.01% w/w and no <7mm AF / FA was found at the LOR of 0.001% w/w for the soil samples analysed.

14.0 CONCLUSION AND RECOMMENDATIONS

Based on the test results for this investigation, as presented in the summary tables (Tables E1 to I) and discussed in Section 13, all the laboratory test results satisfied the criteria for stating that the analytes selected are either not present i.e. concentrations less than laboratory limit of reporting (LOR), or present in the sampled soil at concentrations that do not pose a risk of harm to human health or the environment under the proposed land use, with the exception of one location P1 (Drawing No 14892/2-AA3), with the elevated concentration of zinc (Zn).

Based on this PSI and DSI, the site is considered environmentally suitable for the proposed use subject to following:

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- Assessment of soils in the footprints of existing site features, including the former building remnants and gravel pathway, as indicated in Drawing No 14892/1-AA1, after complete demolition and/or removal by a licensed contractor. The purpose of this is to ascertain the presence or otherwise of “suspect” materials (identified by unusual staining, odour, discolouration or inclusions such as building rubble, asbestos, ash particles, etc.) and fill. The small stockpile of ash resulting from burnt wood/trees, as observed during site inspection must be removed for aesthetic reasons. Sampling and testing will be required to determine the contamination status of soils in the footprints of site features and in the vicinity. The type of testing on samples recovered from the footprints will depend on the materials (topsoil, natural soil, suspect materials or fill) encountered. In the event of contamination, the site can be made suitable by detailed assessment followed by remediation and validation.
- A hazardous material survey should be carried out for the presence of asbestos and possibly lead paints, etc., before the demolition of existing building features/structure and sheds with the site. A professional hygienist should be engaged for the hazardous building material survey.
- Additional sampling in the vicinity of P1 to determine the extent of Zn contamination, followed by remediation and validation of the site after removal of the zinc affected soil. This could be carried out in conjunction with the assessment of the footprints of the existing features after their complete demolition and removal.
- Development of a remedial action plan (RAP) for the remediation of asbestos Zn impacted soils, plus any other contamination identified through the detailed, additional sampling and testing beneath the site features, followed by appropriate validation.
- Assessment of the dam water prior to de-watering, to determine the contamination status of the water and recommend the de-watering method.
- On completion of de-watering, contamination assessment of the dam sediment, dam walls and the associated drainage/creek lines to the dams should be carried out.

It is recommended that, inclusions such as gas cylinder, fibreglass sheets, timber tyres, scrap metals observed during the field sampling of fill (at depths ranging from 0.0 to 1m) at locations, TP37, P1, P2 and P5 (Drawing No 14892/1-AA2) should be segregated followed by appropriate disposal and/or reuse. After the segregation of inclusions, the remaining soil could be reused on site.

It should be noted that since that part of the site was part of the larger rural land that site might have been used in the past for agricultural activities, there is a potential for buried irrigation pipes to remain beneath the ground surface. If any asbestos pipes are uncovered, a qualified asbestos removal contractor must be engaged to carry out removal. Asbestos clearance will be required after removal.

If any suspect materials (identified by unusual staining, odour, discolouration or inclusions such as building rubble, asbestos sheets/pieces/pipes, ash material, etc.) or any potentially contaminated area(s) and filled area(s) masked by overgrown grass, as shown in Drawing No 14892/2-AA1, are encountered during any stage of future demolition and/or earthworks/site preparation, Unexpected Finds Management Protocol (Appendix J) should be implemented. In the event of contamination, the site can be made suitable by appropriate remediation followed by validation.

14892/2-AA
268-278 Catherine Fields Road, Catherine Field

For any materials to be excavated and removed from the site, it is recommended that waste classification of the materials is undertaken, in accordance with the "Waste Classification Guidelines Part 1: Classifying Waste" NSW EPA 2014; NSW EPA resource recovery exemptions and orders under the POEO (Waste) Regulation 2014; or NSW EPA *Certification: Virgin excavated natural material*, prior to disposal at a facility that can lawfully accept the materials.

Any imported soil (fill) must be assessed by a qualified environmental consultant, prior to importation, to ensure suitability for the proposed use. In addition, the imported fill must not contain asbestos and ash, be free of unusual odour, and not be discoloured and not acid sulphate soil or potential acid sulphate soil. The imported fill should either be VENM or ENM.

Reference should be made to Section 15.0 of the report and Appendix K, which set out details of the limitations of the assessment.

15.0 LIMITATIONS

Within the scope of work outlined in the fee proposal (emailed on 15 April 2021), the services performed by Geotechnique were conducted in a manner consistent with the level of quality and skill generally exercised by members of the profession and consulting practice.

To the best of our knowledge, all information obtained and contained in this report is true and accurate. No further investigation has been carried out to authenticate the information provided. Supporting documentation was obtained where possible, some of which is contained in this report.

This report has been prepared for the purpose stated within based on the agreed scope of work. Camden Council may rely upon the report for development and / or construction application determinations. Any reliance on this report by other parties shall be at such parties' sole risk, as the report might not contain sufficient information for other purposes.

The information in this report is considered accurate at the completion of field sampling (8, 19 and 20 April 2020). Any variations to the site form or use beyond that date will nullify the conclusion stated.

No environmental site assessment can eliminate all risk. Whilst the assessments conducted at the site were carried out in accordance with current NSW guidelines, the potential always exists for contaminated soils to be present between sampled locations and in the grass covered areas.

Presented in Appendix K is a document entitled "Environmental Notes", which should be read in conjunction with this report.

LIST OF REFERENCES

AS4482.1-2005, *Guide to the Sampling and Investigation of Potentially Contaminated Soil Part 1: Non-volatile and semi-volatile compounds*, Standards Australia.

AS4482.2-1999, *Guide to the Sampling and Investigation of Potentially Contaminated Soil Part 2: Volatile substances*, Standards Australia.

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DUAP/EPA 1998, *Managing Land Contamination: Planning Guidelines SEPP 55 – Remediation of Land*, Department of Urban Affairs and Planning / NSW Environment Protection Authority, Sydney, Australia

NEPM 1999 (April 2013), *National Environmental Protection (Assessment of Site Contamination) Amendment Measures, 1999 (April 2013)*, National Environmental Protection Council (NEPC), Australia.

NSW EPA 2020, *Consultants Reporting on Contaminated Land: Contaminated land Guidelines*, New South Wales Environment Protection Authority, Sydney.

NSW EPA 2017, *Contaminated land Management: Guidelines for the NSW Site Auditor Scheme (3rd Edition)*, New South Wales Environment Protection Authority.

NSW EPA 2014, *Waste Classification Guidelines, Part 1: Classifying Waste*, New South Wales Environment Protection Authority.

Olszowy H, Torr P, Imray P in collaboration with Smith P, Hegarty J and Hastie G (Editors), *Trace Element Concentrations in Soils from rural and Urban Areas of Australia – Contaminated Site Monograph Series No 4*, 1995, South Australian Health Commission.

DRAWING

<i>Drawing No 14892/1-AA1</i>	<i>Lot Layout and Site Features</i>
<i>Drawing No 14892/2-AA1</i>	<i>Test Pit Locations</i>
<i>Drawing No 14892/2-AA2</i>	<i>Location of Concern</i>



SF#	Description
1	Brick house, metal roof and fibro eaves
2	Swimming pool
3	Large metal shed
4	Shipping containers
5	Fibro building, metal roof
6	Backfilled area/dam
7	Metal shed with cars, etc (partly concrete)
8	Long grass
9	Pile of ash
10	Chicken coop
11	Dam
12	Metal shelter
13	Rainwater tank
14	Septic tank
15	Brick house, tiled roof, built on fill
16	Timber fencing
17	Remnant of former building
18	Septic tank overflow (gravel)

SF#: Site Feature Number

LEGEND

Site Feature Number

— Slope

Imagery ©2021 NearMap.com

0 20 40 60 80 100m

Scale 1:2000



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NOTES

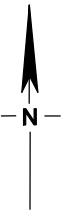
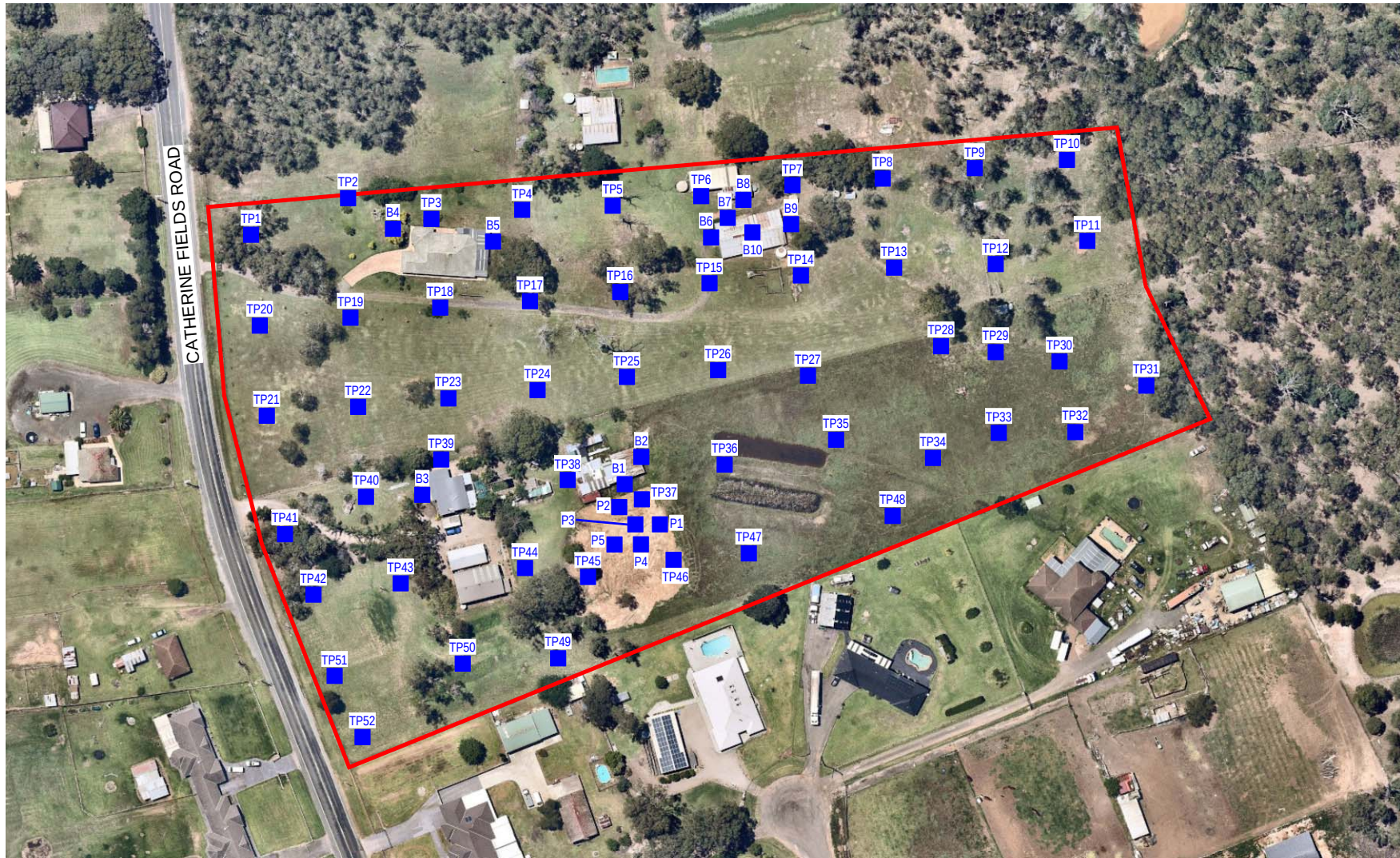
1. Site features are indicative and are not to scale.
2. This drawing has been produced using a base plan provided by others to which additional information e.g test pits, borehole locations or notes have been added. Some or all of the plan may not be relevant at the time of producing this drawing

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Catherine Field

Site Features

Drawing No: 14892/1-AA1
Job No: 14892/1
Drawn By: MH
Date: 23 April 2021
Checked By: SS/DS

File No: 14892-1
Layers: 0, AA1



LEGEND

■ Test Pit

Imagery ©2021 NearMap.com

0 20 40 60 80 100m

Scale 1:2000



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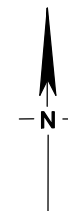
1. Site features are indicative and are not to scale.
2. This drawing has been produced using a base plan provided by others to which additional information e.g test pits, borehole locations or notes have been added. Some or all of the plan may not be relevant at the time of producing this drawing

Green Valley Islamic College
268-278 Catherine Fields Road
Catherine Field

Test Pit Locations

Drawing No: 14892/2-AA1
Job No: 14892/2
Drawn By: MH
Date: 23 April 2021
Checked By: SS/DS

File No: 14892-2
Layers: 0, AA1



Location	Depth (m)	Contaminant	Concentration (mg/kg)
P1	0.45-0.55	Zinc (Zn)	1500
Assessment Criteria	Zn = 220 mg/kg (EIL- Urban Residential)		

LEGEND

■ Test Pit

Imagery ©2021 NearMap.com

0 20 40 60 80 100m

Scale 1:2000



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NOTES

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Green Valley Islamic College
268-278 Catherine Fields Road
Catherine Field

Location of Concern

Drawing No: 14892/2-AA2
Job No: 14892/2
Drawn By: MH
Date: 30 April 2021
Checked By: SS/DS

File No: 14892-2
Layers: 0, AA2

TABLES

TABLES

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<i>Table B</i>	<i>Trip Spike samples</i>
<i>Tables C1 to C4</i>	<i>Duplicate Samples</i>
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<i>Table F</i>	<i>Total Recoverable Hydrocarbons (TRH) & BTEX Test Results – Discrete Samples (Topsoil and Fill)</i>
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<i>Table I</i>	<i>Asbestos Test Results – Discrete Samples (Fill)</i>

TABLE A
RINSATE
(Ref No: 14892/2)

SAMPLE DATE	RS1 19/04/2021	RS2 20/04/2021
METAL	(mg/L)	(mg/L)
Arsenic	<0.02	<0.02
Cadmium	<0.001	<0.001
Chromium	<0.005	<0.005
Copper	<0.005	<0.005
Lead	<0.02	<0.02
Manganese	<0.005	<0.005
Mercury	<0.00005	<0.00005
Nickel	<0.005	<0.005
Zinc	<0.01	<0.01
TOTAL RECOVERABLE HYDROCARBON (TRH)	(µg/L)	(µg/L)
F1 (C6-C10 less BTEX)	<50	<50
F2 (>C10-C16)	<60	<60
F3 (>C16-C34)	<500	<500
F4 (>C34-C40)	<500	<500
BTEX	(µg/L)	(µg/L)
Benzene	<0.5	<0.5
Toluene	<0.5	<0.5
Ethyl Benzene	<0.5	<0.5
Xylenes	<1.5	<1.5
POLYCYCLIC AROMATIC HYDROCARBON (PAH)	(µg/L)	(µg/L)
Total PAH	<1	<1
Naphthalene	<0.1	<0.1
Benzo(a)Pyrene	<0.1	<0.1
ORGANOCHLORINE PESTICIDE (OCP)	(µg/L)	(µg/L)
Hexachlorobenzene (HCB)	<0.1	<0.1
Heptachlor	<0.1	<0.1
Aldrin+Dieldrin	<0.2	<0.2
Endrin	<0.1	<0.1
Methoxychlor	<0.1	<0.1
Mirex	<0.1	<0.1
Endosulfan (Alpha, Beta & Sulphate)	<0.3	<0.3
DDD+DDE+DDT	<0.6	<0.6
Chlordane (alpha & gamma)	<0.2	<0.2
POLYCHLORINATED BIPHENYL (PCB)	(µg/L)	(µg/L)
PCB	<5	<5

TABLE B
TRIP SPIKE
(Ref No: 14892/2)

Sample	Sampling Date	BTEX			
		Benzene	Toluene	Ethylbenzene	Xylenes
TS1	19/04/2021	97%	97%	97%	97%
TS2	20/04/2021	91%	94%	97%	97%

Note : results are reported as percentage recovery of known spike concentrations

TABLE C1
DUPLICATE SAMPLE
(Ref No: 14892/2)

ANALYTE	P5 0.0-0.15 (m) mg/kg	DDS1 mg/kg	RELATIVE PERCENTAGE DIFFERENCES (RPD) %
Arsenic	7	9	25
Cadmium	<0.3	<0.3	-
Chromium	15	13	14
Copper	24	22	9
Lead	17	20	16
Manganese	890	1500	51
Mercury	<0.05	<0.05	-
Nickel	10	12	18
Zinc	84	350	123
TOTAL RECOVERABLE HYDROCARBONS (TRH)			
F1 (C6-C10 less BTEX)	<25	<25	-
BTEX			
Benzene	<0.1	<0.1	-
Toluene	<0.1	<0.1	-
Ethyl Benzene	<0.1	<0.1	-
Xylenes	<0.3	<0.3	-
POLYCYCLIC AROMATIC HYDROCARBONS			
Benzo(a)Pyrene TEQ	<0.3	<0.3	-
Total PAH	<0.8	<0.8	-
Naphthalene	<0.1	<0.1	-
Benzo(a)Pyrene	<0.1	<0.1	-
ORGANOCHLORINE PESTICIDES (OCP)			
Hexachlorobenzene (HCB)	<0.1	<0.1	-
Heptachlor	<0.1	<0.1	-
Aldrin+Dieldrin	<0.19	<0.15	-
Endrin	<0.2	<0.2	-
Methoxychlor	<0.1	<0.1	-
Mirex	<0.1	<0.1	-
Endosulfan (alpha, beta & sulphate)	<0.5	<0.5	-
DDD+DDE+DDT	<0.6	<0.6	-
Chlordane (alpha & gamma)	<0.2	<0.2	-
POLYCHLORINATED BIPHENYLS (PCB)			
Total PCB	<1	<1	-

TABLE C2
DUPLICATE SAMPLE
(Ref No: 14892/2)

ANALYTE	TP36 0.0-0.15 (m) mg/kg	DDS2 mg/kg	RELATIVE PERCENTAGE DIFFERENCES (RPD) %
Arsenic	21	5	123
Cadmium	<0.3	<0.3	-
Chromium	7.6	11	37
Copper	26	27	4
Lead	18	17	6
Manganese	1100	480	78
Mercury	<0.05	<0.05	-
Nickel	15	16	6
Zinc	72	87	19
TOTAL RECOVERABLE HYDROCARBONS (TRH)			
F1 (C6-C10 less BTEX)	<25	<25	-
F2 (>C10-C16)	<25	<25	-
F3 (>C16-C34)	<90	<90	-
F4 (>C34-C40)	<120	<120	-
BTEX			
Benzene	<0.1	<0.1	-
Toluene	<0.1	<0.1	-
Ethyl Benzene	<0.1	<0.1	-
Xylenes	<0.3	<0.3	-
POLYCYCLIC AROMATIC HYDROCARBONS			
Benzo(a)Pyrene TEQ	<0.3	<0.3	-
Total PAH	<0.8	<0.8	-
Naphthalene	<0.1	<0.1	-
Benzo(a)Pyrene	<0.1	<0.1	-
ORGANOCHLORINE PESTICIDES (OCP)			
Hexachlorobenzene (HCB)	<0.1	<0.1	-
Heptachlor	<0.1	<0.1	-
Aldrin+Dieldrin	<0.16	<0.16	-
Endrin	<0.2	<0.2	-
Methoxychlor	<0.1	<0.1	-
Mirex	<0.1	<0.1	-
Endosulfan (alpha, beta & sulphate)	<0.5	<0.5	-
DDD+DDE+DDT	<0.6	<0.6	-
Chlordane (alpha & gamma)	<0.2	<0.2	-
POLYCHLORINATED BIPHENYLS (PCB)			
Total PCB	<1	<1	-

TABLE C3
DUPLICATE SAMPLE
(Ref No: 14892/2)

ANALYTE	B7 0.0-0.15 (m) mg/kg	DDS3 mg/kg	RELATIVE PERCENTAGE DIFFERENCES (RPD) %
Arsenic	8	8	0
Cadmium	1.3	0.5	89
Chromium	14	15	7
Copper	18	16	12
Lead	27	28	4
Manganese	1000	1300	26
Mercury	<0.05	<0.05	-
Nickel	7.9	7.2	9
Zinc	210	220	5
TOTAL RECOVERABLE HYDROCARBONS (TRH)			
F1 (C6-C10 less BTEX)	<25	<25	-
BTEX			
Benzene	<0.1	<0.1	-
Toluene	<0.1	<0.1	-
Ethyl Benzene	<0.1	<0.1	-
Xylenes	<0.3	<0.3	-
POLYCYCLIC AROMATIC HYDROCARBONS			
Benzo(a)Pyrene TEQ	<0.3	<0.3	-
Total PAH	<0.8	<0.8	-
Naphthalene	<0.1	<0.1	-
Benzo(a)Pyrene	<0.1	<0.1	-
ORGANOCHLORINE PESTICIDES (OCP)			
Hexachlorobenzene (HCB)	<0.1	<0.1	-
Heptachlor	<0.1	<0.1	-
Aldrin+Dieldrin	<0.16	<0.16	-
Endrin	<0.2	<0.2	-
Methoxychlor	<0.1	<0.1	-
Mirex	<0.1	<0.1	-
Endosulfan (alpha, beta & sulphate)	<0.5	<0.5	-
DDD+DDE+DDT	<0.6	<0.6	-
Chlordane (alpha & gamma)	<0.2	<0.2	-
POLYCHLORINATED BIPHENYLS (PCB)			
Total PCB	<1	<1	-

TABLE C4
DUPLICATE SAMPLE
(Ref No: 14892/2)

ANALYTE	TP31 0.0-0.15 (m) mg/kg	DDS4 mg/kg	RELATIVE PERCENTAGE DIFFERENCES (RPD) %
Arsenic	10	10	0
Cadmium	<0.3	<0.3	-
Chromium	11	11	0
Copper	11	9.2	18
Lead	19	17	11
Manganese	970	550	55
Mercury	<0.05	<0.05	-
Nickel	5.6	5	11
Zinc	22	21	5
ORGANOCHLORINE PESTICIDES (OCP)			
Hexachlorobenzene (HCB)	<0.1	<0.1	-
Heptachlor	<0.1	<0.1	-
Aldrin+Dieldrin	<0.16	<0.15	-
Endrin	<0.2	<0.2	-
Methoxychlor	<0.1	<0.1	-
Mirex	<0.1	<0.1	-
Endosulfan (alpha, beta & sulphate)	<0.5	<0.5	-
DDD+DDE+DDT	<0.6	<0.6	-
Chlordane (alpha & gamma)	<0.2	<0.2	-

TABLE D1
SPLIT SAMPLE
(Ref No: 14892/2)

ANALYTE	TP37 0.5-0.8 (m) mg/kg (SGS)	DSS1 mg/kg (ENVIROLAB)	RELATIVE PERCENTAGE DIFFERENCES (RPD) %
Arsenic	5	6	18
Cadmium	<0.3	<0.4	-
Chromium	11	12	9
Copper	24	29	19
Lead	13	13	0
Manganese	400	320	22
Mercury	<0.05	<0.1	-
Nickel	13	14	7
Zinc	58	64	10
TOTAL RECOVERABLE HYDROCARBONS (TRH)			
F1 (C6-C10 less BTEX)	<25	<25	-
F2 (>C10-C16)	<25	<50	-
F3 (>C16-C34)	<90	<100	-
F4 (>C34-C40)	<120	<100	-
BTEX			
Benzene	<0.1	<0.2	-
Toluene	<0.1	<0.5	-
Ethyl Benzene	<0.1	<1	-
Xylenes	<0.3	<3	-
POLYCYCLIC AROMATIC HYDROCARBONS (PAH)			
Benzo(a)Pyrene TEQ	<0.3	<0.5	-
Total PAH	<0.8	<0.05	-
Naphthalene	<0.1	<0.1	-
Benzo(a)Pyrene	<0.1	<0.05	-
ORGANOCHLORINE PESTICIDES (OCP)			
Hexachlorobenzene (HCB)	<0.1	<0.1	-
Heptachlor	<0.1	<0.1	-
Aldrin+Dieldrin	<0.17	<0.2	-
Endrin	<0.2	<0.1	-
Methoxychlor	<0.1	<0.1	-
Endosulfan (alpha (I), beta (II) & sulphate)	<0.5	<0.3	-
DDD+DDE+DDT	<0.6	<0.1	-
Chlordane (alpha & gamma)	<0.2	<0.2	-
POLYCHLORINATED BIPHENYLS (PCB)			
Total PCB	<1	<0.1	-

TABLE D2
SPLIT SAMPLE
(Ref No: 14892/2)

ANALYTE	B4 0.0-0.15 (m) mg/kg (SGS)	DSS2 mg/kg (ENVIROLAB)	RELATIVE PERCENTAGE DIFFERENCES (RPD) %
Arsenic	7	11	44
Cadmium	<0.3	<0.4	-
Chromium	9.8	16	48
Copper	23	22	4
Lead	24	22	9
Manganese	490	380	25
Mercury	<0.05	<0.1	-
Nickel	10	11	10
Zinc	78	56	33
TOTAL RECOVERABLE HYDROCARBONS (TRH)			
F1 (C6-C10 less BTEX)	<25	<25	-
F2 (>C10-C16)	<25	<50	-
F3 (>C16-C34)	180	110	48
F4 (>C34-C40)	120	<100	-
BTEX			
Benzene	<0.1	<0.2	-
Toluene	<0.1	<0.5	-
Ethyl Benzene	<0.1	<1	-
Xylenes	<0.3	<3	-
POLYCYCLIC AROMATIC HYDROCARBONS (PAH)			
Benzo(a)Pyrene TEQ	<0.3	<0.5	-
Total PAH	<0.8	0.81	-
Naphthalene	<0.1	<0.1	-
Benzo(a)Pyrene	<0.1	0.09	-
ORGANOCHLORINE PESTICIDES (OCP)			
Hexachlorobenzene (HCB)	<0.1	<0.1	-
Heptachlor	<0.1	<0.1	-
Aldrin+Dieldrin	<0.15	<0.2	-
Endrin	<0.2	<0.1	-
Methoxychlor	<0.1	<0.1	-
Endosulfan (alpha (I), beta (II) & sulphate)	<0.5	<0.3	-
DDD+DDE+DDT	<0.6	<0.1	-
Chlordane (alpha & gamma)	<0.2	<0.2	-

TABLE D3
SPLIT SAMPLE
(Ref No: 14892/2)

ANALYTE	TP22 0.0-0.15 (m) mg/kg (SGS)	DSS3 mg/kg (ENVIROLAB)	RELATIVE PERCENTAGE DIFFERENCES (RPD) %
Arsenic	6	5	18
Cadmium	<0.3	<0.4	-
Chromium	18	16	12
Copper	12	16	29
Lead	25	19	27
Manganese	2900	990	98
Mercury	<0.05	<0.1	-
Nickel	11	10	10
Zinc	26	27	4
ORGANOCHLORINE PESTICIDES (OCP)			
Hexachlorobenzene (HCB)	<0.1	<0.1	-
Heptachlor	<0.1	<0.1	-
Aldrin+Dieldrin	<0.16	<0.2	-
Endrin	<0.2	<0.1	-
Methoxychlor	<0.1	<0.1	-
Endosulfan (alpha (I), beta (II) & sulphate)	<0.5	<0.3	-
DDD+DDE+DDT	<0.6	<0.1	-
Chlordane (alpha & gamma)	<0.2	<0.2	-

TABLE D4
SPLIT SAMPLE
(Ref No: 14892/2)

ANALYTE	TP13 0.0-0.15 (m) mg/kg (SGS)	DSS4 mg/kg (ENVIROLAB)	RELATIVE PERCENTAGE DIFFERENCES (RPD) %
Arsenic	10	5	67
Cadmium	<0.3	<0.4	-
Chromium	12	16	29
Copper	14	18	25
Lead	18	16	12
Manganese	860	670	25
Mercury	<0.05	<0.1	-
Nickel	7.3	7	4
Zinc	30	25	18
ORGANOCHLORINE PESTICIDES (OCP)			
Hexachlorobenzene (HCB)	<0.1	<0.1	-
Heptachlor	<0.1	<0.1	-
Aldrin+Dieldrin	<0.17	<0.2	-
Endrin	<0.2	<0.1	-
Methoxychlor	<0.1	<0.1	-
Endosulfan (alpha (I), beta (II) & sulphate)	<0.5	<0.3	-
DDD+DDE+DDT	<0.6	<0.1	-
Chlordane (alpha & gamma)	<0.2	<0.2	-

TABLE E1
METAL, CATION EXCHANGE CAPACITY (CEC) & pH TEST RESULTS-TOPSOIL/SURFACE SOIL
DISCRETE SAMPLES
(Ref No: 14892/2)

Sample Location	Depth (m)	METAL (mg/kg)									CEC (cmol/kg)	pH
		ARSENIC	CADMIUM	CHROMIUM (Total)	COPPER	LEAD	MANGANESE	MERCURY	NICKEL	ZINC		
TP1	0.0-0.15	8	<0.3	11	19	15	300	<0.05	6.5	32	18	5.8
TP2	0.0-0.15	9	<0.3	14	17	33	2200	<0.05	9.2	41	-	-
TP3	0.0-0.15	11	<0.3	14	20	27	510	<0.05	6.4	63	-	-
TP4	0.0-0.15	13	<0.3	13	21	18	760	<0.05	11	43	-	-
TP5	0.0-0.15	7	<0.3	16	19	28	1700	<0.05	11	98	-	-
TP6	0.0-0.15	7	<0.3	15	19	27	1900	<0.05	11	95	-	-
TP7	0.0-0.15	6	<0.3	13	21	22	2500	<0.05	13	560	-	-
TP8	0.0-0.15	5	<0.3	17	22	20	1300	<0.05	8.7	34	-	-
TP9	0.0-0.15	10	<0.3	16	16	24	2200	<0.05	10	74	-	-
TP10	0.0-0.15	9	<0.3	18	15	32	1600	<0.05	9.7	33	10	5.5
TP11	0.0-0.15	8	<0.3	21	12	21	1300	<0.05	6.2	22	-	-
TP12	0.0-0.15	6	<0.3	17	18	19	2200	<0.05	14	43	-	-
TP13	0.0-0.15	10	<0.3	12	14	18	860	<0.05	7.3	30	12	5.6
TP14	0.0-0.15	8	<0.3	14	15	18	1500	<0.05	7.9	40	-	-
TP15	0.0-0.15	38	0.3	16	28	20	1200	<0.05	15	32	-	-
TP16	0.0-0.15	5	<0.3	15	17	17	1200	<0.05	9.3	37	12	5.4
TP17	0.0-0.15	11	<0.3	11	19	14	880	<0.05	9.8	34	-	-
TP18	0.0-0.15	9	<0.3	15	8.9	19	1600	<0.05	9.3	23	-	-
TP19	0.0-0.15	6	<0.3	13	18	19	1900	0.05	11	30	-	-
TP20	0.0-0.15	8	<0.3	12	16	23	2700	<0.05	17	34	-	-
TP21	0.0-0.15	8	<0.3	13	17	21	1200	<0.05	11	25	-	-
TP22	0.0-0.15	6	<0.3	18	12	25	2900	<0.05	11	26	7	5.8
TP23	0.0-0.15	9	<0.3	14	10	16	1100	<0.05	9.6	28	-	-
TP24	0.0-0.15	6	<0.3	12	12	22	1700	0.05	9.8	42	-	-
TP25	0.0-0.15	3	<0.3	12	12	15	1500	<0.05	15	52	-	-
TP26	0.0-0.15	8	<0.3	14	14	18	780	<0.05	6.4	35	-	-
TP27	0.0-0.15	6	<0.3	12	7.7	12	1600	<0.05	6.2	21	-	-
TP28	0.0-0.15	5	<0.3	12	16	110	1100	<0.05	8	140	-	-
TP29	0.0-0.15	9	<0.3	14	23	30	1300	0.06	12	190	-	-
TP30	0.0-0.15	4	<0.3	20	13	21	1100	<0.05	7.7	26	-	-
TP31	0.0-0.15	10	<0.3	11	11	19	970	<0.05	5.6	22	7.1	5.5
TP32	0.0-0.15	5	<0.3	15	14	18	1200	<0.05	5.7	21	-	-
TP33	0.0-0.15	6	<0.3	14	14	26	3800	<0.05	12	41	-	-
TP34	0.0-0.15	11	<0.3	13	16	20	1800	<0.05	11	39	15	6
TP35	0.0-0.15	11	<0.3	14	16	21	1600	<0.05	6.3	29	-	-
TP38	0.0-0.15	12	0.4	15	22	44	910	<0.05	9.2	230	-	-
TP39	0.0-0.15	6	<0.3	13	14	15	800	<0.05	7.8	26	12	7.4
TP40	0.0-0.15	6	<0.3	12	16	26	2800	0.05	13	51	-	-
TP41	0.0-0.15	8	<0.3	11	19	22	860	<0.05	7.3	31	-	-
TP42	0.0-0.15	6	<0.3	11	11	17	3200	<0.05	5.9	15	-	-
TP43	0.0-0.15	7	<0.3	18	15	22	930	<0.05	7.2	32	-	-
TP44	0.0-0.15	10	<0.3	16	15	25	3200	<0.05	13	43	12	6.6
TP45	0.0-0.15	6	<0.3	16	14	20	1900	<0.05	7.9	37	-	-
TP47	0.0-0.15	8	<0.3	13	15	21	4300	<0.05	12	25	9.4	6.1
TP48	0.0-0.15	8	<0.3	18	11	25	3400	<0.05	8	28	-	-
TP49	0.0-0.15	8	<0.3	14	14	23	3700	<0.05	7.2	20	-	-
TP50	0.0-0.15	9	<0.3	17	14	27	1900	<0.05	6.8	34	-	-
TP51	0.0-0.15	6	<0.3	14	10	21	1700	<0.05	5.6	26	5.7	5.9
TP52	0.0-0.15	8	<0.3	15	10	23	2600	<0.05	5.7	19	-	-
B1	0.0-0.15	6	0.3	11	17	18	2000	<0.05	9.9	91	-	-
B2	0.0-0.15	7	0.4	15	22	27	1900	<0.05	9.8	120	-	-
B3	0.0-0.15	8	<0.3	15	15	23	2100	0.06	8.8	34	6.5	5.5
B4	0.0-0.15	7	<0.3	9.8	23	24	490	<0.05	10	78	17	5.2
B5	0.0-0.15	10	<0.3	14	13	23	1200	<0.05	9.1	42	9.8	5.7
B6	0.0-0.15	8	<0.3	22	26	73	2200	<0.05	21	130	-	-
B8	0.0-0.15	5	<0.3	19	16	30	1900	<0.05	13	250	13	6.5
B9	0.0-0.15	6	<0.3	12	17	18	1800	<0.05	8.8	91	-	-
Limit of Reporting (LOR)		1	0.3	0.5	0.5	1	1	0.05	0.5	2	0.02	0.1
NATIONAL ENVIRONMENT PROTECTION AMENDMENT MEASURE (2013)												
Health-based Investigation Levels (HIL) ^a A - Residential A		100	20	100 ^c	6000	300	3800	10 ^d	400	7400		
Ecological Investigation Levels (EIL) ^b Urban residential		100 ^e	-	410 ^f	120	1200 ^g	-	-	50	240		
ProUCL 5.1 ^h												
Number of Sample		57	57	57	57	57	57	57	57	57		
Mean ⁱ		8.2	0.3	14	16	24	1750	0.05	9.6	63		
Standard Deviation		4.5	0.02	2.7	4.2	14	878	0.002	3.1	83		
95% Upper Confidence Limit (UCL)		9.2	0.3	15	17	28	1963	0.05	10.3	111		

- Notes: a: Residential with garden / accessible soil (home grown produce <10% fruit and vegetable intake (no poultry)), also includes childcare centres, preschools and primary schools.
b: EIL of aged chromium (III), copper, nickel & zinc were derived from calculation spreadsheet developed by CSIRO for NEPC; Old Suburb with Low Traffic; the lowest CEC=5.7 cmol/kg & pH=5.2; the assumed clay content=10 % were selected for derivation of EIL; a conservative approach.
c: Chromium (VI)
d: Methyl Mercury
e: Generic EIL for aged arsenic
f: Chromium (III)
g: Generic added contaminant limit for aged lead + ambient background concentration; Old Suburb with Low Traffic.
h: Refer to Attachment I of the report for details of ProUCL (Version 5.1) calculations.
i: For statistical purposes, concentration less than LOR is assumed equal to LOR.

TABLE E2
METAL, CATION EXCHANGE CAPACITY (CEC) & pH TEST RESULTS-FILL
DISCRETE SAMPLES
(Ref No: 14892/2)

		METAL (mg/kg)									CEC (cmol _c /kg)	pH
		ARSENIC	CADMIUM	CHROMIUM (Total)	COPPER	LEAD	MANGANESE	MERCURY	NICKEL	ZINC		
Sample Location	Depth (m)											
TP36	0.0-0.15	21	<0.3	7.6	26	18	1100	<0.05	15	72	-	-
TP36	0.5-0.8	3	<0.3	9.4	28	13	190	<0.05	12	73	-	-
TP37	0.0-0.15	8	<0.3	15	16	21	2200	<0.05	14	44	12	6.1
TP37	0.5-0.8	5	<0.3	11	24	13	400	<0.05	13	58	-	-
TP46	0.0-0.15	10	<0.3	17	17	24	2700	<0.05	11	48	-	-
P1	0.0-0.15	1	<0.3	7.3	21	10	470	<0.05	18	79	-	-
P2	0.0-0.15	5	<0.3	15	27	18	300	<0.05	11	61	-	-
P2	0.5-0.8	5	<0.3	10	24	14	240	<0.05	10	60	13	5.9
P3	0.0-0.15	6	<0.3	11	28	11	140	<0.05	14	62	12	5.8
P4	0.0-0.15	7	<0.3	15	16	19	1900	<0.05	8	38	-	-
Limit of Reporting (LOR)		1	0.3	0.5	0.5	1	1	0.05	0.5	2	0.02	0.1
NATIONAL ENVIRONMENT PROTECTION AMENDMENT MEASURE (2013)												
Health-based Investigation Levels (HIL) ^a A - Residential A		100	20	100 ^c	6000	300	3800	10 ^d	400	7400		
Ecological Investigation Levels (EIL) ^b - Urban residential		100 ^e	-	410 ^f	180	1200 ^g	-	-	190	420		
ProUCL 5.1 ^h												
Number of Sample		12	12	12	12	12	12	-	12	12		
Mean ⁱ		7.3	0.3	12	22	17	1037	-	12	97		
Standard Deviation		5.0	0.1	3.2	4.8	5.4	883	-	3.0	93		
95% Upper Confidence Limit (UCL)		9.9	0.3	14	25	20	1494	-	14	214		

- Notes:
- a: Residential with garden / accessible soil (home grown produce <10% fruit and vegetable intake (no poultry)), also includes childcare centres, preschools and primary schools.
 - b: EIL of aged chromium (III), copper, nickel & zinc were derived from calculation spreadsheet developed by CSIRO for NEPC; Old Suburb with Low Traffic; the lowest CEC=12 cmol_c/kg & pH=5.8; the assumed clay content=10 % were selected for derivation of EIL; a conservative approach.
 - c: Chromium (VI)
 - d: Methyl Mercury
 - e: Generic EIL for aged arsenic
 - f: Chromium (III)
 - g: Generic added contaminant limit for aged lead + ambient background concentration; Old Suburb with Low Traffic.
 - h: Refer to Attachment I of the report for details of ProUCL (Version 5.1) calculations.
 - i: For statistical purposes, concentration less than LOR is assumed equal to LOR.

TABLE E3
METAL, CATION EXCHANGE CAPACITY (CEC) & pH TEST RESULTS-NATURAL SOIL
DISCRETE SAMPLES
(Ref No: 14892/2)

		METAL (mg/kg)									CEC (cmol _c /kg)	pH
		ARSENIC	CADMIUM	CHROMIUM (Total)	COPPER	LEAD	MANGANESE	MERCURY	NICKEL	ZINC		
Sample Location	Depth (m)											
TP5	0.25-0.35	4	<0.3	14	12	13	120	<0.05	6	26	-	-
TP13	0.25-0.35	5	<0.3	13	21	13	210	<0.05	6	31	-	-
TP21	0.25-0.35	7	<0.3	13	31	14	62	<0.05	4.7	29	14	5
TP31	0.25-0.35	11	<0.3	14	15	13	77	<0.05	6.2	28	14	5.3
TP46	0.35-0.45	6	<0.3	13	12	22	2300	<0.05	6.1	23	-	-
TP48	0.25-0.35	5	<0.3	13	12	16	880	<0.05	7.2	30	-	-
B10	0.0-0.15	7	<0.3	16	23	54	1100	0.11	12	300	-	-
P3	0.55-0.65	3	<0.3	13	26	11	110	<0.05	12	70	-	-
P4	0.55-0.65	9	<0.3	12	18	16	150	<0.05	5.6	25	-	-
P5	0.55-0.65	6	<0.3	15	16	16	330	<0.05	15	36	-	-
Limit of Reporting (LOR)		1	0.3	0.5	0.5	1	1	0.05	0.5	2	0.02	0.1
NATIONAL ENVIRONMENT PROTECTION AMENDMENT MEASURE (2013)												
Health-based Investigation Levels (HIL) ^a A - Residential A		100	20	100 ^c	6000	300	3800	10 ^d	400	7400		
Ecological Investigation Levels (EIL) ^b - Urban residential		100 ^e	-	410 ^f	100	1200 ^g	-	-	200	260		
ProUCL 5.1 ^h												
Number of Sample		10	-	10	10	10	10	10	10	10		
Mean ⁱ		6.3	-	14	19	19	534	0.06	8.1	60		
Standard Deviation		2.4	-	1.2	6.5	13	718	0.02	3.5	85		
95% Upper Confidence Limit (UCL)		7.7	-	14	22	26	1372	0.07	11	178		

- Notes:
- a: Residential with garden / accessible soil (home grown produce <10% fruit and vegetable intake (no poultry)), also includes childcare centres, preschools and primary schools.
 - b: EIL of aged chromium (III), copper, nickel & zinc were derived from calculation spreadsheet developed by CSIRO for NEPC; Old Suburb with Low Traffic; the lowest CEC=14 cmol_c/kg & pH=5; the assumed clay content=10 % were selected for derivation of EIL; a conservative approach.
 - c: Chromium (VI)
 - d: Methyl Mercury
 - e: Generic EIL for aged arsenic
 - f: Chromium (III)
 - g: Generic added contaminant limit for aged lead + ambient background concentration; Old Suburb with Low Traffic.
 - h: Refer to Attachment I of the report for details of ProUCL (Version 5.1) calculations.
 - i: For statistical purposes, concentration less than LOR is assumed equal to LOR.

TABLE E4
METAL, CATION EXCHANGE CAPACITY (CEC) & pH TEST RESULTS-NATURAL SOIL
DISCRETE SAMPLES
(Ref No: 14892/2)

Sample Location	Depth (m)	METAL (mg/kg)									CEC (cmol _c /kg)	pH
		ARSENIC	CADMIUM	CHROMIUM (Total)	COPPER	LEAD	MANGANESE	MERCURY	NICKEL	ZINC		
P1	0.45-0.55	5	<0.3	13	16	19	740	<0.05	11	1500	13	7.6
Limit of Reporting (LOR)		1	0.3	0.5	0.5	1	1	0.05	0.5	2	0.02	0.1
NATIONAL ENVIRONMENT PROTECTION AMENDMENT MEASURE (2013)												
Health-based Investigation Levels (HIL) ^a A - Residential A		100	20	100 ^c	6000	300	3800	10 ^d	400	7400		
Ecological Investigation Levels (EIL) ^b - Urban residential		100 ^e	-	410 ^f	220	1200 ^g	-	-	200	570		

- Notes:
- a: Residential with garden / accessible soil (home grown produce <10% fruit and vegetable intake (no poultry)), also includes childcare centres, preschools and primary schools.
 - b: EIL of aged chromium (III), copper, nickel & zinc were derived from calculation spreadsheet developed by CSIRO for NEPC; Old Suburb with Low Traffic; the lowest CEC=13 cmol_c/kg & pH=7.6; the assumed clay content=10 % were selected for derivation of EIL; a conservative approach.
 - c: Chromium (VI)
 - d: Methyl Mercury
 - e: Generic EIL for aged arsenic
 - f: Chromium (III)
 - g: Generic added contaminant limit for aged lead + ambient background concentration; Old Suburb with Low Traffic.

TABLE F
TOTAL RECOVERABLE HYDROCARBONS (TRH) AND BTEX TEST RESULTS
DISCRETE SAMPLES-TOPSOIL AND FILL
(Ref No: 14892/2)

												NATIONAL ENVIRONMENT PROTECTION AMENDMENT MEASURE (2013)															
			TRH (mg/kg)					BTEX (mg/kg)				Health Screening Levels (HSL) A Low density residential						Ecological Screening Levels for fine-grained soil Urban residential									
Sample Location	Depth (m)	Soil type	F1	F2*	F2**	F3	F4	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES	F1	F2*	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES	F1	F2**	F3	F4	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES		
TP36	0.0-0.15	Clay	<25	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3	50	280	0.7	480	NL	110	180	120	1300	5600	65	105	125	45		
TP36	0.5-0.8	Clay	<25	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3	50	280	0.7	480	NL	110	180	120	1300	5600	65	105	125	45		
TP37	0.0-0.15	Clay	<25	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3	50	280	0.7	480	NL	110	180	120	1300	5600	65	105	125	45		
TP37	0.5-0.8	Clay	<25	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3	50	280	0.7	480	NL	110	180	120	1300	5600	65	105	125	45		
TP46	0.0-0.15	Clay	<25	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3	50	280	0.7	480	NL	110	180	120	1300	5600	65	105	125	45		
B1	0.0-0.15	Clay	<25	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3	50	280	0.7	480	NL	110	180	120	1300	5600	65	105	125	45		
B2	0.0-0.15	Clay	<25	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3	50	280	0.7	480	NL	110	180	120	1300	5600	65	105	125	45		
B3	0.0-0.15	Clay	<25	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3	50	280	0.7	480	NL	110	180	120	1300	5600	65	105	125	45		
B4	0.0-0.15	Clay	<25	<25	<25	180	120	<0.1	<0.1	<0.1	<0.3	50	280	0.7	480	NL	110	180	120	1300	5600	65	105	125	45		
B5	0.0-0.15	Clay	<25	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3	50	280	0.7	480	NL	110	180	120	1300	5600	65	105	125	45		
B6	0.0-0.15	Clay	<25	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3	50	280	0.7	480	NL	110	180	120	1300	5600	65	105	125	45		
B7	0.0-0.15	Clay	<25	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3	50	280	0.7	480	NL	110	180	120	1300	5600	65	105	125	45		
B8	0.0-0.15	Clay	<25	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3	50	280	0.7	480	NL	110	180	120	1300	5600	65	105	125	45		
B9	0.0-0.15	Clay	<25	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3	50	280	0.7	480	NL	110	180	120	1300	5600	65	105	125	45		
B10	0.0-0.15	Clay	<25	76	76	330	150	<0.1	<0.1	<0.1	<0.3	50	280	0.7	480	NL	110	180	120	1300	5600	65	105	125	45		
P1	0.0-0.15	Clay	<25	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3	50	280	0.7	480	NL	110	180	120	1300	5600	65	105	125	45		
P2	0.0-0.15	Clay	<25	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3	50	280	0.7	480	NL	110	180	120	1300	5600	65	105	125	45		
P2	0.5-0.8	Clay	<25	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3	50	280	0.7	480	NL	110	180	120	1300	5600	65	105	125	45		
P3	0.0-0.15	Clay	<25	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3	50	280	0.7	480	NL	110	180	120	1300	5600	65	105	125	45		
P4	0.0-0.15	Clay	<25	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3	50	280	0.7	480	NL	110	180	120	1300	5600	65	105	125	45		
P5	0.0-0.15	Clay	<25	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3	50	280	0.7	480	NL	110	180	120	1300	5600	65	105	125	45		
Limit of Reporting (LOR)			25	25	25	90	120	0.1	0.1	0.1	0.3																

Notes:
F1: C6-C10 less BTEX
F2*: >C10-C16 less Naphthalene
F2**: >C10-C16
F3: >C16-C34
F4: >C34-C40
NL: Not Limiting

TABLE G
POLYCYCLIC AROMATIC HYDROCARBONS (PAH) TEST RESULTS
DISCRETE SAMPLES -TOPSOIL/SURFACE SOIL & FILL
(Ref No: 14892/2)

							NATIONAL ENVIRONMENT PROTECTION AMENDMENT MEASURE (2013)				
			PAH (mg/kg)				Health-based Investigation Levels (HIL) A - Residential A		Health Screening Level (HSL) A - Low density residential	Generic Ecological Investigation Level (EIL) - Urban residential	Ecological Screening Level (ESL) - Urban residential
			BaP TEQ	TOTAL PAHs	NAPHTHALENE	BENZO(a)PYRENE (BaP)	BaP TEQ	TOTAL PAHs	NAPHTHALENE	NAPHTHALENE	BENZO(a)PYRENE (BaP)
Sample Location	Depth (m)	Soil type	BaP TEQ	TOTAL PAHs	NAPHTHALENE	BENZO(a)PYRENE (BaP)	BaP TEQ	TOTAL PAHs	NAPHTHALENE	NAPHTHALENE	BENZO(a)PYRENE (BaP)
TP36	0.0-0.15	Clay	<0.3	<0.8	<0.1	<0.1	3	300	5	170	0.7
TP36	0.5-0.8	Clay	<0.3	<0.8	<0.1	<0.1	3	300	5	170	0.7
TP37	0.0-0.15	Clay	<0.3	<0.8	<0.1	<0.1	3	300	5	170	0.7
TP37	0.5-0.8	Clay	<0.3	<0.8	<0.1	<0.1	3	300	5	170	0.7
TP46	0.0-0.15	Clay	<0.3	<0.8	<0.1	<0.1	3	300	5	170	0.7
B1	0.0-0.15	Clay	<0.3	<0.8	<0.1	<0.1	3	300	5	170	0.7
B2	0.0-0.15	Clay	<0.3	<0.8	<0.1	<0.1	3	300	5	170	0.7
B3	0.0-0.15	Clay	<0.3	<0.8	<0.1	<0.1	3	300	5	170	0.7
B4	0.0-0.15	Clay	<0.3	<0.8	<0.1	<0.1	3	300	5	170	0.7
B5	0.0-0.15	Clay	<0.3	<0.8	<0.1	<0.1	3	300	5	170	0.7
B6	0.0-0.15	Clay	<0.3	<0.8	<0.1	<0.1	3	300	5	170	0.7
B7	0.0-0.15	Clay	<0.3	<0.8	<0.1	<0.1	3	300	5	170	0.7
B8	0.0-0.15	Clay	<0.3	<0.8	<0.1	<0.1	3	300	5	170	0.7
B9	0.0-0.15	Clay	<0.3	<0.8	<0.1	<0.1	3	300	5	170	0.7
B10	0.0-0.15	Clay	<0.3	<0.8	<0.1	<0.1	3	300	5	170	0.7
P1	0.0-0.15	Clay	<0.3	<0.8	<0.1	<0.1	3	300	5	170	0.7
P2	0.0-0.15	Clay	<0.3	<0.8	<0.1	<0.1	3	300	5	170	0.7
P2	0.5-0.8	Clay	<0.3	<0.8	<0.1	<0.1	3	300	5	170	0.7
P3	0.0-0.15	Clay	<0.3	<0.8	<0.1	<0.1	3	300	5	170	0.7
P4	0.0-0.15	Clay	<0.3	<0.8	<0.1	<0.1	3	300	5	170	0.7
P5	0.0-0.15	Clay	<0.3	<0.8	<0.1	<0.1	3	300	5	170	0.7
Limit of Reporting (LOR)			0.3	0.8	0.1	0.1					

Notes: a: Residential with garden / accessible soil (home grown produce <10% fruit and vegetable intake (no poultry)), also includes childcare centres, preschools and primary schools.

NL: Not Limiting

TABLE H1
ORGANOCHLORINE PESTICIDES (OCP) & POLYCHLORINATED BIPHENYLS (PCB) TEST RESULTS
DISCRETE SAMPLES-TOPSOIL/SURFACE SOIL
(Ref No: 14892/2)

Sample Location	Depth (m)	OCP (mg/kg)										PCB (mg/kg)
		HEXACHLOROBENZENE (HCB)	HEPTACHLOR	ALDRIN+DIELDRIN	ENDRIN	METHOXYCHLOR	MIREX	ENDOSULFAN (alpha, beta & sulphate)	DDD+DDE+DDT	DDT	CHLORDANE (alpha & gamma)	
TP1	0.0-0.15	<0.1	<0.1	<0.15	<0.2	<0.1	<0.1	<0.5	<0.6	<0.2	<0.2	-
TP3	0.0-0.15	<0.1	<0.1	<0.15	<0.2	<0.1	<0.1	<0.5	<0.6	<0.2	<0.2	-
TP5	0.0-0.15	<0.1	<0.1	<0.15	<0.2	<0.1	<0.1	<0.5	<0.6	<0.2	<0.2	-
TP6	0.0-0.15	<0.1	<0.1	<0.15	<0.2	<0.1	<0.1	<0.5	<0.6	<0.2	<0.2	-
TP7	0.0-0.15	<0.1	<0.1	<0.15	<0.2	<0.1	<0.1	<0.5	<0.6	<0.2	<0.2	-
TP10	0.0-0.15	<0.1	<0.1	<0.15	<0.2	<0.1	<0.1	<0.5	<0.6	<0.2	<0.2	-
TP13	0.0-0.15	<0.1	<0.1	0.17	<0.2	<0.1	<0.1	<0.5	<0.6	<0.2	<0.2	-
TP14	0.0-0.15	<0.1	<0.1	0.16	<0.2	<0.1	<0.1	<0.5	<0.6	<0.2	<0.2	-
TP15	0.0-0.15	<0.1	<0.1	0.16	<0.2	<0.1	<0.1	<0.5	<0.6	<0.2	<0.2	-
TP16	0.0-0.15	<0.1	<0.1	0.17	<0.2	<0.1	<0.1	<0.5	<0.6	<0.2	<0.2	-
TP18	0.0-0.15	<0.1	<0.1	0.16	<0.2	<0.1	<0.1	<0.5	<0.6	<0.2	<0.2	-
TP19	0.0-0.15	<0.1	<0.1	0.17	<0.2	<0.1	<0.1	<0.5	<0.6	<0.2	<0.2	-
TP22	0.0-0.15	<0.1	<0.1	0.16	<0.2	<0.1	<0.1	<0.5	<0.6	<0.2	<0.2	-
TP31	0.0-0.15	<0.1	<0.1	0.16	<0.2	<0.1	<0.1	<0.5	<0.6	<0.2	<0.2	-
TP34	0.0-0.15	<0.1	<0.1	0.17	<0.2	<0.1	<0.1	<0.5	<0.6	<0.2	<0.2	-
TP35	0.0-0.15	<0.1	<0.1	0.17	<0.2	<0.1	<0.1	<0.5	<0.6	<0.2	<0.2	-
TP38	0.0-0.15	<0.1	<0.1	0.17	<0.2	<0.1	<0.1	<0.5	<0.6	<0.2	<0.2	-
TP39	0.0-0.15	<0.1	<0.1	0.16	<0.2	<0.1	<0.1	<0.5	<0.6	<0.2	<0.2	-
TP44	0.0-0.15	<0.1	<0.1	0.16	<0.2	<0.1	<0.1	<0.5	<0.6	<0.2	<0.2	-
TP47	0.0-0.15	<0.1	<0.1	0.17	<0.2	<0.1	<0.1	<0.5	<0.6	<0.2	<0.2	-
TP48	0.0-0.15	<0.1	<0.1	0.17	<0.2	<0.1	<0.1	<0.5	<0.6	<0.2	<0.2	-
B1	0.0-0.15	<0.1	<0.1	0.16	<0.2	<0.1	<0.1	<0.5	<0.6	<0.2	<0.2	-
B2	0.0-0.15	<0.1	<0.1	0.17	<0.2	<0.1	<0.1	<0.5	<0.6	<0.2	<0.2	-
B3	0.0-0.15	<0.1	<0.1	0.16	<0.2	<0.1	<0.1	<0.5	<0.6	<0.2	<0.2	-
B4	0.0-0.15	<0.1	<0.1	0.15	<0.2	<0.1	<0.1	<0.5	<0.6	<0.2	<0.2	-
B5	0.0-0.15	<0.1	<0.1	<0.15	<0.2	<0.1	<0.1	<0.5	<0.6	<0.2	<0.2	-
B6	0.0-0.15	<0.1	<0.1	0.16	<0.2	<0.1	<0.1	<0.5	<0.6	<0.2	<0.2	-
B8	0.0-0.15	<0.1	<0.1	0.15	<0.2	<0.1	<0.1	<0.5	<0.6	<0.2	<0.2	-
B9	0.0-0.15	<0.1	<0.1	0.15	<0.2	<0.1	<0.1	<0.5	<0.6	<0.2	<0.2	-
Limit of Reporting (LOR)		0.1	0.1	0.15	0.2	0.1	0.1	0.5	0.6	0.2	0.2	1
NATIONAL ENVIRONMENT PROTECTION AMENDMENT MEASURE (2013)												
Health-based Investigation Levels (HIL) A ^a - Residential A		10	6	6	10	300	10	270	240		50	1
Ecological Investigation Levels (EIL) - Urban residential		180 ^b										

Notes: a: Residential with garden / accessible soil (home grown produce <10% fruit and vegetable intake (no poultry)), also includes childcare centres, preschools and primary schools.

b: Generic EIL for DDT

TABLE H2
ORGANOCHLORINE PESTICIDES (OCP) & POLYCHLORINATED BIPHENYLS (PCB) TEST RESULTS
DISCRETE SAMPLES- FILL
(Ref No: 14892/2)

		OCP (mg/kg)										(mg/kg)
		HEXACHLOROBENZENE (HCB)	HEPTACHLOR	ALDRIN+DIELDRIN	ENDRIN	METHOXYCHLOR	MIREX	ENDOSULFAN (alpha, beta & sulphate)	DDD+DDE+DDT	DDT	CHLORDANE (alpha & gamma)	
Sample Location	Depth (m)											PCB
TP36	0.0-0.15	<0.1	<0.1	0.16	<0.2	<0.1	<0.1	<0.5	<0.6	<0.2	<0.2	<1
TP36	0.5-0.8	<0.1	<0.1	0.17	<0.2	<0.1	<0.1	<0.5	<0.6	<0.2	<0.2	<1
TP37	0.0-0.15	<0.1	<0.1	0.17	<0.2	<0.1	<0.1	<0.5	<0.6	<0.2	<0.2	<1
TP37	0.5-0.8	<0.1	<0.1	0.17	<0.2	<0.1	<0.1	<0.5	<0.6	<0.2	<0.2	<1
TP46	0.0-0.15	<0.1	<0.1	0.16	<0.2	<0.1	<0.1	<0.5	<0.6	<0.2	<0.2	<1
B7	0.0-0.15	<0.1	<0.1	0.16	<0.2	<0.1	<0.1	<0.5	<0.6	<0.2	<0.2	<1
P1	0.0-0.15	<0.1	<0.1	<0.15	<0.2	<0.1	<0.1	<0.5	<0.6	<0.2	<0.2	<1
P2	0.0-0.15	<0.1	<0.1	0.16	<0.2	<0.1	<0.1	<0.5	<0.6	<0.2	<0.2	<1
P2	0.5-0.8	<0.1	<0.1	<0.15	<0.2	<0.1	<0.1	<0.5	<0.6	<0.2	<0.2	<1
P3	0.0-0.15	<0.1	<0.1	<0.15	<0.2	<0.1	<0.1	<0.5	<0.6	<0.2	<0.2	<1
P4	0.0-0.15	<0.1	<0.1	0.16	<0.2	<0.1	<0.1	<0.5	<0.6	<0.2	<0.2	<1
P5	0.0-0.15	<0.1	<0.1	0.19	<0.2	<0.1	<0.1	<0.5	<0.6	<0.2	<0.2	<1
Limit of Reporting (LOR)		0.1	0.1	0.15	0.2	0.1	0.1	0.5	0.6	0.2	0.2	1
NATIONAL ENVIRONMENT PROTECTION AMENDMENT MEASURE (2013)												1
Health-based Investigation Levels (HIL) A ^a - Residential A		10	6	6	10	300	10	270	240		50	
Ecological Investigation Levels (EIL) - Urban residential		180 ^b										

Notes: a: Residential with garden / accessible soil (home grown produce <10% fruit and vegetable intake (no poultry)), also includes childcare centres, preschools and primary schools.

b: Generic EIL for DDT

TABLE I
ASBESTOS TEST RESULTS
DISCRETE SAMPLES-FILL
(Ref No:)

Sample Location	Depth (m)	ASBESTOS (% w/w)	
Soil Sample		ACM (>7mm)	AF and FA
TP36	0.0-0.15	<0.01	<0.001
TP36	0.5-0.8	<0.01	<0.001
TP37	0.0-0.15	<0.01	<0.001
TP37	0.5-0.8	<0.01	<0.001
TP46	0.0-0.15	<0.01	<0.001
P1	0.0-0.15	<0.01	<0.001
P2	0.0-0.15	<0.01	<0.001
P2	0.5-0.8	<0.01	<0.001
P3	0.0-0.15	<0.01	<0.001
P4	0.0-0.15	<0.01	<0.001
P5	0.0-0.15	<0.01	<0.001
Limits of Reporting (LOR)		0.01	0.001
NATIONAL ENVIRONMENT PROTECTION AMENDMENT MEASURE (2013)			
Health Screening Levels ^a - Residential A		0.01	0.001

Notes:

ACM: Asbestos Containing Material

AF: Asbestos Fines

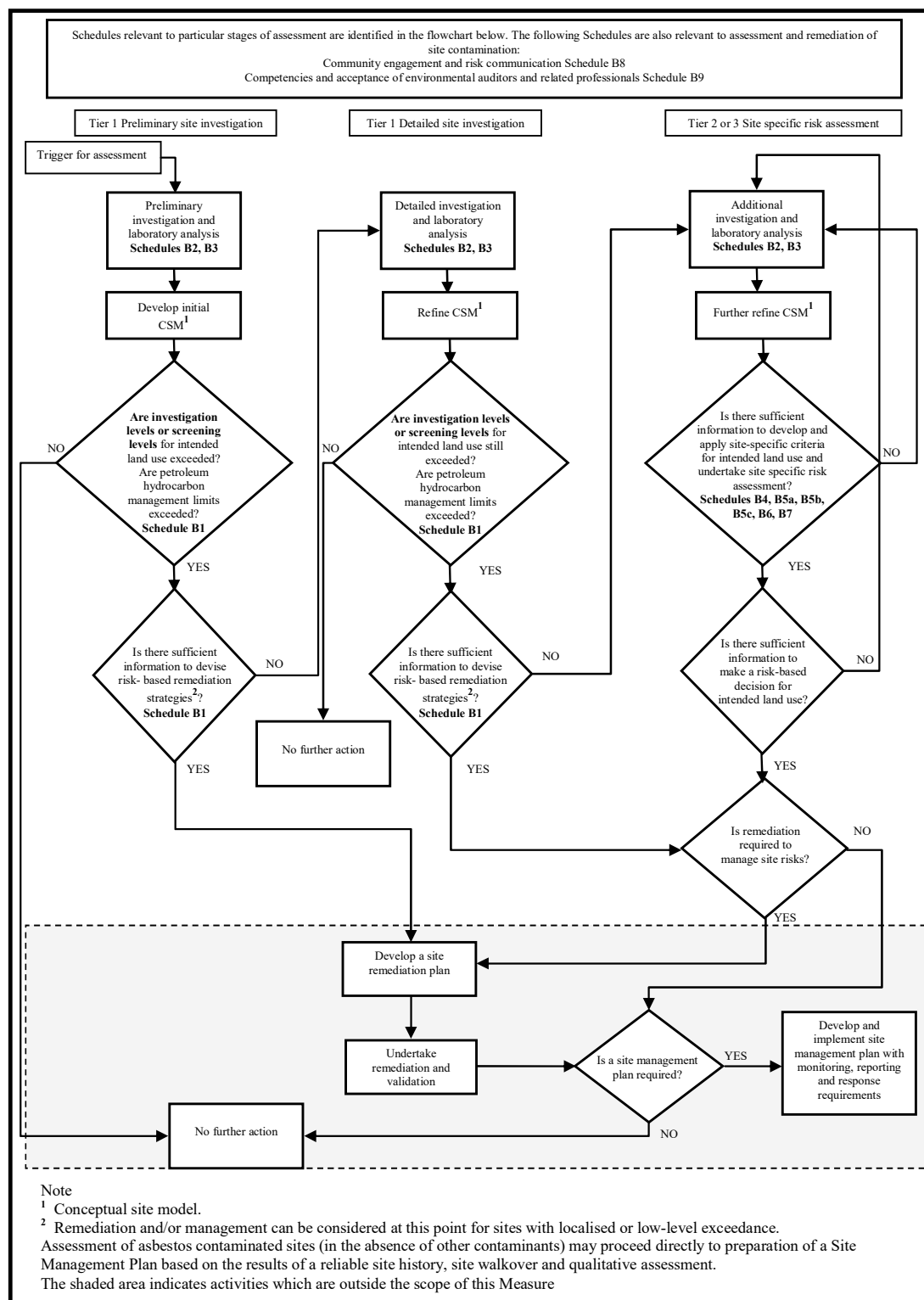
FA: Fibrous Asbestos

a: Residential with garden / accessible soil (home grown produce <10% fruit and vegetable intake (no poultry)), also includes childcare centres, preschools and primary schools.

APPENDIX A

RECOMMENDED GENERAL PROCESS FOR ASSESSMENT OF SITE CONTAMINATION - FLOW CHART

Schedule A—Recommended general process for assessment of site contamination



APPENDIX B

NSW LAND REGISTRY SERVICES RECORDS

14892/1**Summary of Proprietors****Lot 11 DP833983**

Year	Proprietor
1986 - 2021	Anthony Martin and Nancy Martin
1978 - 1986	Alexander King Barn, mechanical fitter and Alice Emily Barn, wife
1971 - 1978	David Bradshaw, clerk
1961 - 1971	Narellan Farms Pty Limited

Lot 12 DP833784

Year	Proprietor
2021	The Muslim League of New South Wales Incorporated
2013 - 2021	Stanley Robert McWilliam, Margaret Ellen McWilliam
2007- 2013	Stanley Robert McWilliam
1997 - 2007	Stanley Robert McWilliam, Annabelle Margaret McWilliam
1996 - 1997	Patsy Love McWilliam
1959 – 1996	Stanley James McWilliam, builder
1959	George Andrew Clatworthy, moulder

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

IT IS INTENDED TO DEDICATE THE ROAD WIDENINGS SHOWN HEREON TO THE PUBLIC AS ROADS

[Signature]
[Signature]

Signed by the Surveyor General for the State of New South Wales
at Sydney on 14 APRIL 1993

[Signature]
Surveyor General

Crown Lands Office Approval

Authorised Officer: _____

Land District: _____

Paper No.: _____

Field Book: _____

Council Clerk's Certificate

I hereby certify that -

(a) the requirements of the Local Government Act, 1919 (other than the requirements for the registration of plans), and

(b) the requirements of Part 3 Division 2 of the Water Board Act 1987 and the Water Supply Authorities Act 1987

have been complied with by the applicant in relation to the proposed SUBDIVISION

Division No. 50/95

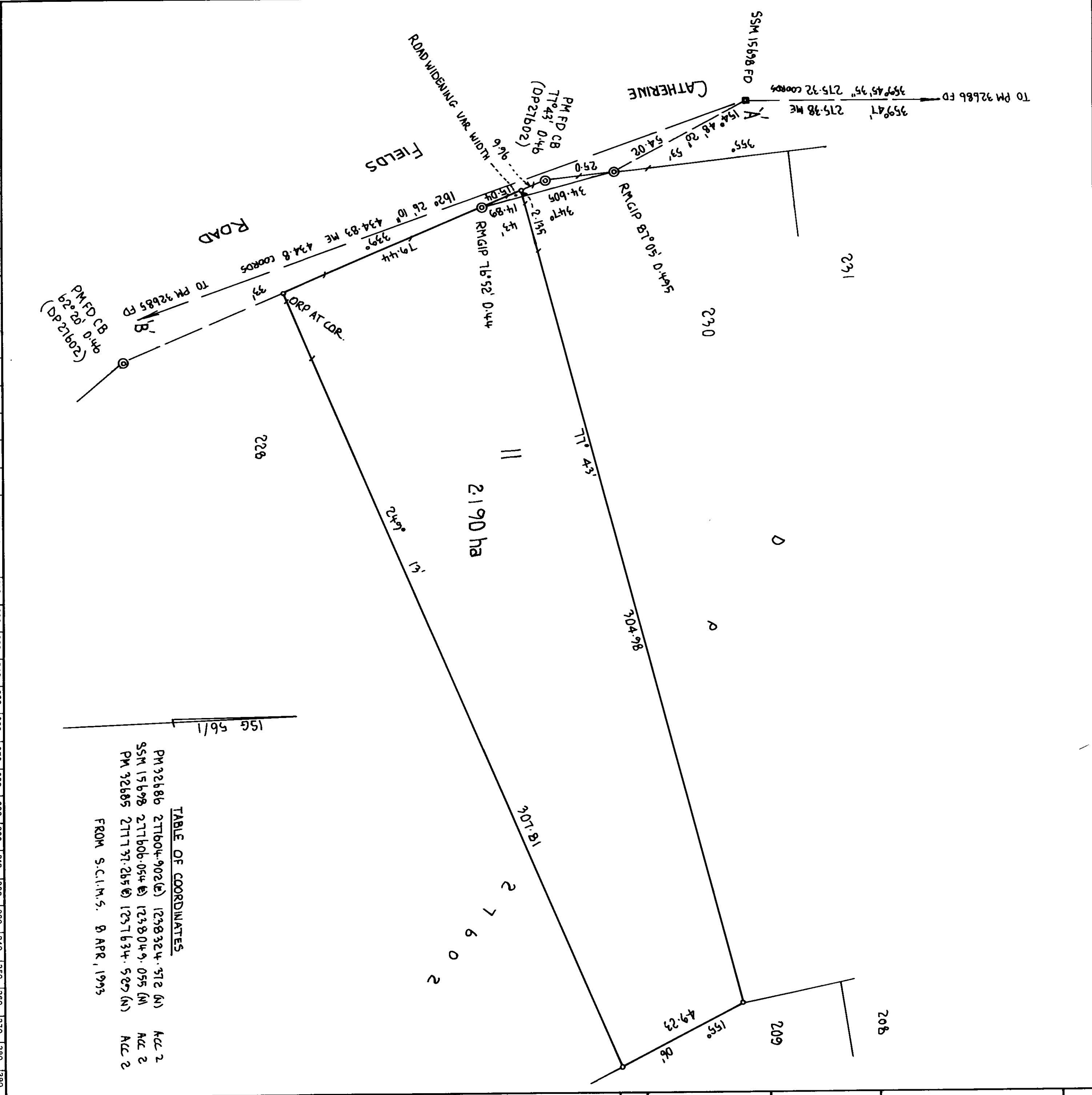
25TH AUGUST 1993

Uncol File No. 715/

Council Clerk

This part of certificate to be deleted where the application is only for a isolated lot or the opening of a new road or where the land to be dedicated is wholly outside the areas of operations of the Metropolitan Water Sewerage and Drainage Board and the Hunter District Water

UNRECORDED REFERENCE: 645 D-93-229



DP 833983

Registered: 25-10-1993

C.A. No 50/93 OF 25-8-1993

Title System: TORRENS

Purpose: SUBDIVISION

Ref. Map: U7337-B #

Last Plan: DP27602

PLAN OF SUBDIVISION OF LOT 228 IN DP27602.

Lengths are in metres. Reduction Ratio 1:1000

Mun./City: CAMDEN

Locality: CATHERINE FIELD

Parish: COOK

County: CUMBERLAND

I, BARRY JAMES LUNNARD of J.P. BATES & LUNNARD of 15 OLD HOME HIGHWAY, CAMDEN, a surveyor registered under the Surveyors Act, 1929, as amended, hereby certify that the survey represented in this plan is accurate and has been made in accordance with the Survey Practice Regulations, 1933 and any special requirements of the Department of Lands, and was completed on 14 APRIL 1993.

Signature: *[Signature]*
Surveyor registered under Surveyors Act, 1929, as amended.
Datum Line of Azimuth: N 1° 8'

Plans used in preparation of survey/compilation.

PANEL FOR USE ONLY for statements of intention to dedicate public roads or to create public reserves, drainage reserves, easements, restrictions on the use of land or positive covenants.

IT IS INTENDED TO DEDICATE THE ROAD WIDENING V.M. WIDTH SHOWN HEREON TO THE PUBLIC AS ROAD.

IT IS UNDERTOOD TO DEDICATE THE ROAD
WIDENING SHOWN HEREON TO THE PUBLIC
KS ROAD.

Crown Lands Office Approval

Authorised Officer

Land District

Field Book **pag**

Council Clerk's Certificate

hereby certify that –

(g) the requirements of the Local Government Act, 1972 (General) and the requirements for the registration of plans, and

(b) the requirements of Part 3 Division 2 of the Water Board Act 1987 and † Water Supply Authorities Act 1987

have been complied with by the applicant in relation to the proposed SUBDIVISION

Subdivision No. 51/93

Date 25TH AUGUST 1993

(Signature)

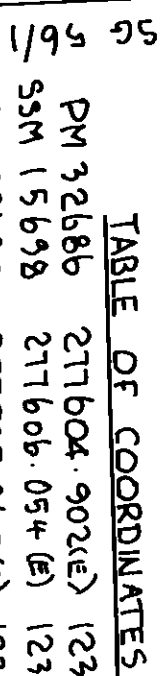
Council File No. 715/1

• This part of certificate to be deleted where the application is only for a right of way for the opening of a new road or where the land to be

subdivided is wholly outside the areas of operations of the Metropolitan Water Sewerage and Drainage Board and the Hunter District Water

Board.
↑ Delete if inapplicable.

1



DP 833784

8-10-1993

51/93 OF 25-8-1993

⚡ TORRENTS

UB DIVISION

UJ7337-8#

DP 27602

SUBDIVISION OF LOT

50 IN DP 27b02.

Reduction Ratio 1: 1000
in metres.

CAMDEN

CATHERINE FIELD

COOK

~~of my plan is~~ sheets
(Delete if inapplicable)

..... J.P. BAILEY & WOODS
..... HUME HIGHWAY CANEEN

registered under the Surveyors Act, 1929, as duly certified that the survey represented in this

17. Pursued
under Surveyor's Act, 1929, as amended
of Azimuth.
A-B
of survey.

in preparation of survey/compilation.

FOR USE ONLY for statements of
to dedicate public roads or to create
reserves, drainage reserves, easements,
on the use of land or positive

STENDED TO DEDICATE
AND WIDENING VAR WIDTH
HEREON TO THE PUBLIC
AD.

Parish : COOK

County : CUMBERLAND



NEW SOUTH WALES LAND REGISTRY SERVICES - TITLE SEARCH

FOLIO: 11/833983

SEARCH DATE	TIME	EDITION NO	DATE
-----	----	-----	----
8/4/2021	12:21 PM	4	17/11/2020

LAND

LOT 11 IN DEPOSITED PLAN 833983
AT CATHERINE FIELD
LOCAL GOVERNMENT AREA CAMDEN
PARISH OF COOK COUNTY OF CUMBERLAND
TITLE DIAGRAM DP833983

FIRST SCHEDULE

ANTHONY MARTIN
NANCY MARTIN
AS JOINT TENANTS

SECOND SCHEDULE (1 NOTIFICATION)

1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)

NOTATIONS

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

advlgeo

PRINTED ON 8/4/2021



NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE

8/4/2021 12:36PM

FOLIO: 11/833983

First Title(s): OLD SYSTEM

Prior Title(s): 229/27602

Recorded	Number	Type of Instrument	C.T. Issue
25/10/1993	DP833983	DEPOSITED PLAN	FOLIO CREATED EDITION 1
19/4/1995	0168364	DISCHARGE OF MORTGAGE	
19/4/1995	0168365	MORTGAGE	EDITION 2
15/9/2018	AN713175	DEPARTMENTAL DEALING	EDITION 3 CORD ISSUED
17/11/2020	AQ561538	DISCHARGE OF MORTGAGE	EDITION 4

*** END OF SEARCH ***

advlgeo

PRINTED ON 8/4/2021

NEW SOUTH WALES

CERTIFICATE OF TITLE
PROPERTY ACT, 1900.



11549089

Appln. No.1746

Prior Title Vol.8136 Fol. 38

Vol. 11549 Fol. 89

Edition issued 31-3-1971
M175994

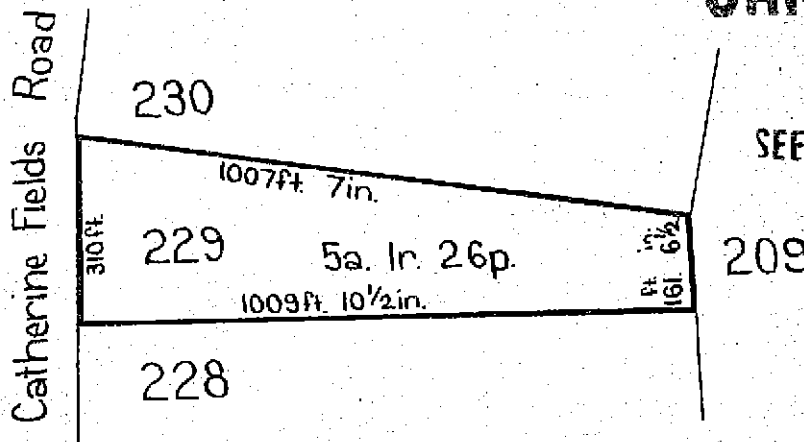


I certify that the person described in the First Schedule is the registered proprietor of the undermentioned estate in the land within described subject nevertheless to such exceptions encumbrances and interests as are shown in the Second Schedule.

J. J. J. J.
Registrar General.



PLAN SHOWING LOCATION OF LAND



CANCELLED

SEE AUTO FOLIO

Scale: 300 feet to one inch.

ESTATE AND LAND REFERRED TO

Estate in Fee Simple in Lot 229 in Deposited Plan 27602 in the Municipality of Camden Parish of Cook and County of Cumberland being part of Portion 61 granted to Garnham Blaxcell on 10-6-1815 and part of Portion 58 granted to George Molle on 24-1-1817.

FIRST SCHEDULE

~~NARELLAN FARMS (1911) LIMITED.~~

SECOND SCHEDULE

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

J. J. J. J.
Registrar General

REGISTERED PROPRIETOR

SECOND SCHEDULE (continued)

SEE AUTO FOLIO
CANCELLED

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

For Grant and prior Titles References
see Deposited Plan.

New South Wales.

B ICE



08136038



REGISTER BOOK.
VOL. 8136 Fol. 38

CANCELLED W

NARELLAN FARMS PTY. LIMITED, is now the proprietor of an Estates in Fee Simple, subject nevertheless to the reservations and conditions if any contained in the Grant referred to in the Deposited Plan hereinafter mentioned and also subject to such encumbrances, liens and interests as are notified hereon in That piece of land in the Municipality of Camden Parish of Cook and County of Cumberland shown in the plan hereon being Lot 229 in Deposited Plan No. 27602.

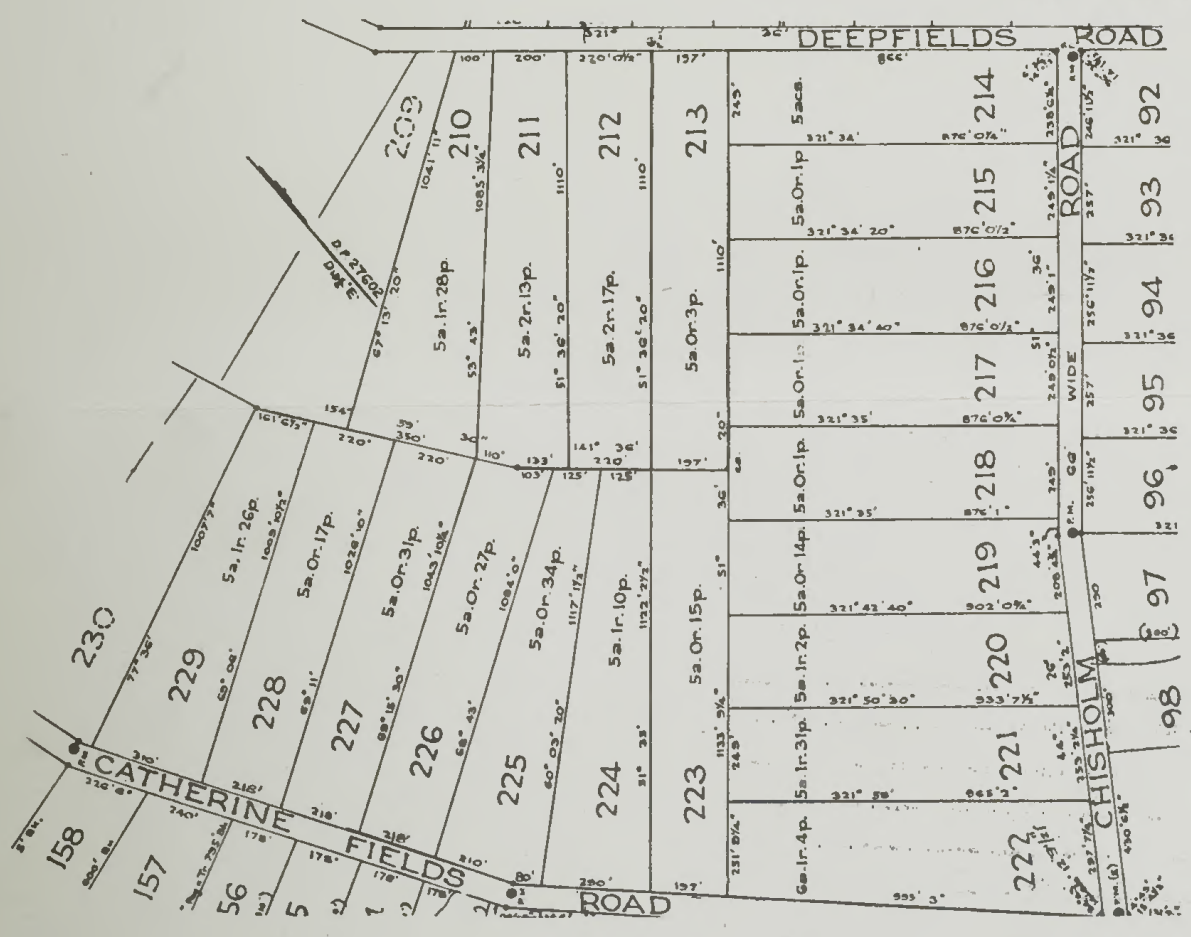
In witness whereof I have hereunto signed my name and affixed my Seal, this Twenty-first day of March, 1961.

Signed in the presence of J. Jora

Jawatson
Registrar-General.



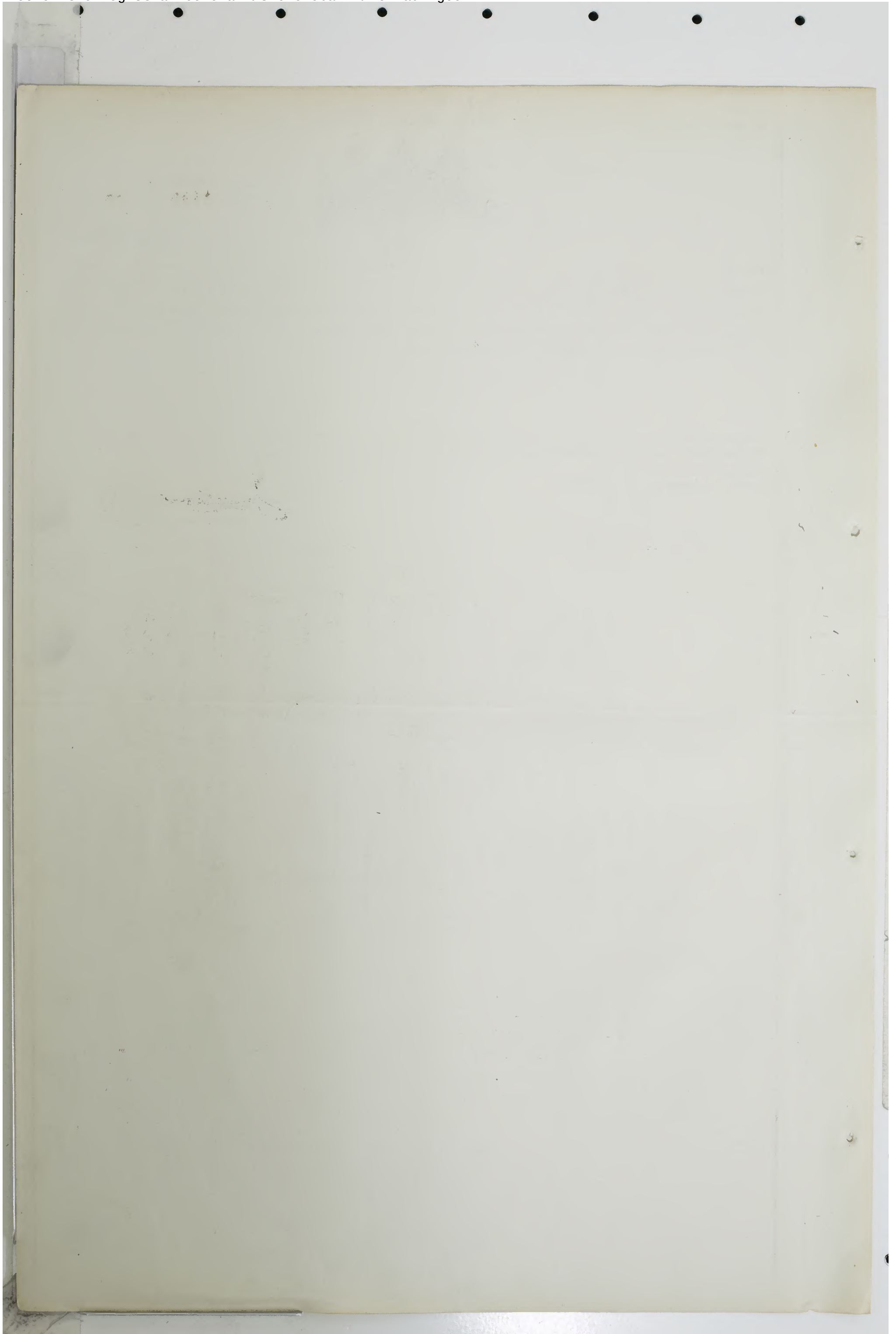
Persons are cautioned against altering or adding to this Certificate or any notification thereon.



NOTIFICATION REFERRED TO

This Deed is cancelled and Certificate of Title issued.
Vol. 11549 Fol. 89 dated 31.3.1971
Vide M175994 Prov. Appl.
Duplicate Lost.
Jawatson
REGISTRAR GENERAL

M175994 Prov. Appl.





NEW SOUTH WALES LAND REGISTRY SERVICES - TITLE SEARCH

FOLIO: 12/833784

SEARCH DATE	TIME	EDITION NO	DATE
-----	----	-----	----
8/4/2021	12:18 PM	6	19/2/2021

LAND

LOT 12 IN DEPOSITED PLAN 833784
AT CAMDEN FIELD
LOCAL GOVERNMENT AREA CAMDEN
PARISH OF COOK COUNTY OF CUMBERLAND
TITLE DIAGRAM DP833784

FIRST SCHEDULE

THE MUSLIM LEAGUE OF NEW SOUTH WALES INCORPORATED (T AQ812533)

SECOND SCHEDULE (1 NOTIFICATION)

1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)

NOTATIONS

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

advlgeo

PRINTED ON 8/4/2021



NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE

8/4/2021 12:35PM

FOLIO: 12/833784

First Title(s): OLD SYSTEM

Prior Title(s): 230/27602

Recorded	Number	Type of Instrument	C.T. Issue
11/10/1993	DP833784	DEPOSITED PLAN	FOLIO CREATED EDITION 1
27/9/1996	2495491	TRANSMISSION APPLICATION	EDITION 2
24/12/1997	3695291	TRANSFER	EDITION 3
29/12/2007	AD665801	TRANSFER	EDITION 4
29/12/2007	AD665802	MORTGAGE	
8/2/2013	AH543379	DISCHARGE OF MORTGAGE	EDITION 5
8/2/2013	AH543380	TRANSFER WITHOUT MONETARY CONSIDERATION	
19/2/2021	AQ812533	TRANSFER	EDITION 6

*** END OF SEARCH ***

advlgeo

PRINTED ON 8/4/2021

System Document Identification

Form Number: 01T-e
Template Number: t_nsw18
ELN Document ID: 555065085
ELN NOS ID: 555065086

TRANSFER
New South Wales
Real Property Act 1900

Land Registry Document Identification

AQ812533

Stamp Duty: 10011971-001

PRIVACY NOTE: Section 31B of the Real Property Act 1900 (RP Act) authorises the Registrar General to collect the information required by this form for the establishment and maintenance of the Real Property Act Register. Section 96B RP Act requires that the Register is made available to any person for search upon payment of a fee, if any.

LODGED BY:

Responsible Subscriber: RAJESH CHAND & ASSOCIATES ABN 14251530603
Address: 76 Bathurst ST
Liverpool 2170
Email: rajesh.rcassoc@hotmail.com
ELNO Subscriber Number: 24686
Customer Account Number: 503909
Document Collection Box: 1W
Client Reference: McWILLIAM:19439

LAND TITLE REFERENCE

12/833784

TRANSFEROR

STANLEY ROBERT MCWILLIAM
MARGARET ELLEN MCWILLIAM

TRANSFeree

THE MUSLIM LEAGUE OF NEW SOUTH WALES INCORPORATED
Charitable body
Tenancy: Sole Proprietor

CONSIDERATION

The transferor acknowledges receipt of the consideration of \$3,750,000.00

ESTATE TRANSFERRED

FEE SIMPLE

The Transferor transfers to the Transferee the Estate specified in this Instrument and acknowledges receipt of any Consideration shown.

SIGNING FOR TRANSFEROR

I certify that:

1. The Certifier has taken reasonable steps to ensure that this Registry Instrument or Document is correct and compliant with relevant legislation and any Prescribed Requirement.
2. The Certifier has retained the evidence supporting this Registry Instrument or Document.
3. The Certifier holds a properly completed Client Authorisation for the Conveyancing Transaction including this Registry Instrument or Document.
4. The Certifier has taken reasonable steps to verify the identity of the transferor or his, her or its administrator or attorney.

Party Represented by Subscriber:

STANLEY ROBERT MCWILLIAM
MARGARET ELLEN MCWILLIAM

Signed By: Anthony John Hailes
ELNO Signer Number: 62276

Signer Capacity: Practitioner Certifier
Digital Signing Certificate Number:

**Signed for
Subscriber:**

WARREN & WARREN HOLDINGS PTY LTD ABN 50158354628
WARREN & WARREN
WARREN & WARREN/SUTHERLAND SHIRE CONVEYANCING

Subscriber Capacity:Representative Subscriber

ELNO Subscriber Number: 22701

Customer Account Number:502573

Date: 18/02/2021

SIGNING FOR TRANSFeree

I certify that:

1. The Certifier has taken reasonable steps to ensure that this Registry Instrument or Document is correct and compliant with relevant legislation and any Prescribed Requirement.
2. The Certifier has retained the evidence supporting this Registry Instrument or Document.
3. The Certifier holds a properly completed Client Authorisation for the Conveyancing Transaction including this Registry Instrument or Document.
4. The Certifier has taken reasonable steps to verify the identity of the transferee or his, her or its administrator or attorney.

Party Represented by Subscriber:

THE MUSLIM LEAGUE OF NEW SOUTH WALES INCORPORATED

Signed By:Rajesh Chand

Signer Capacity:Practitioner Certifier

ELNO Signer Number: 63349

Digital Signing Certificate Number:

**Signed for
Subscriber:**

RAJESH CHAND ABN 14251530603

RAJESH CHAND & ASSOCIATES

Subscriber Capacity:Representative Subscriber

ELNO Subscriber Number: 24686

Customer Account Number:503839

Date: 19/02/2021

Form: 01T
Licence: 01-Q5-025
Licensee: LEAP Legal Software Pty Limited
Firm name: Sheree Hayden Conveyancing

TRANSFER

New South Wales
Real Property Act 1900



AH543380E

PRIVACY NOTE: Section 31B of the Real Property Act 1900 (RP Act) authorises the Registrar General to collect the information required by this form for the establishment and maintenance of the Real Property Act Register. Section 96B RP Act requires that the Register is made available to any person for search upon payment of a fee, if any.

STAMP DUTY

Office of State Revenue use only

(1)

Office of State Revenue	
NSW Treasury	
Client No: 119626738	3564
Duty: <u>Exempt</u>	Trans No: <u>6986270</u>
Asst details: <u>868 (1A)</u>	

(A) TORRENS TITLE

12/833784

(B) LODGED BY

Document Collection Box 312D	Name, Address or DX, Telephone, and Customer Account Number if any Lawagents 123202Y Reference: SHC / McWilliam	CODES T TW

(C) TRANSFEROR

Stanley Robert MCWILLIAM

(D) CONSIDERATION

The transferor acknowledges receipt of the consideration of Natural love & affection and as regards

(E) ESTATE

the abovementioned land transfers to the transferee an estate in fee simple.

(F) SHARE

100%

TRANSFERRED

(G)

Encumbrances (if applicable):

(H) TRANSFEE

Margaret Ellen MCWILLIAM and Stanley Robert MCWILLIAM

(I)

TENANCY: Joint Tenants

DATE

(J) I certify I am an eligible witness and that the transferor signed this dealing in my presence.

[See note* below]

Signature of witness:

Rodolfo SIMIC

Name of witness:

Address of witness: **844 Henry Lawson**

Drive, Picnic Point N.S.W.

Certified correct for the purposes of the Real Property Act 1900 by the transferor.

Signature of transferor:

Certified correct for the purposes of the Real Property Act 1900 on behalf of the transferee by the person whose signature appears below.

Signature:

Signatory's name:

Sheree Hayden

Signatory's capacity:

Licensed Conveyancer for the Transferee

(K) The transferee certifies that the eNOS data relevant to this dealing has been submitted and stored under

eNOS ID No. **381475** Full name: **Sheree Hayden**

Signature: **Sheree Hayden**

* s117 RP Act requires that you must have known the signatory for more than 12 months or have sighted identifying documentation.

Form: 01T
 Licence: 98M111
 Edition: 0702

TRANSFER

New South Wales
 Real Property Act 1900



AD665801A

PRIVACY NOTE: Section 31B of the Real Property Act 1900 (RP Act) authorises the Registrar to use the information provided on this form for the establishment and maintenance of the Real Property Register. The Register is made available to any person for search upon payment of a fee, if any.

NEW SOUTH WALES DUTY
 15-11-2007 0004694453-001
 SECTION 68(1)-ORIGINAL
 NO DUTY PAYABLE

STAMP DUTY

Office of State Revenue use only

(A) FOLIO OF THE REGISTER

If appropriate, specify the part transferred

LOT 12 in Deposited Plan 833784

(B) LODGED BY

Document Collection Box	Name, Address or DX, Telephone and LLPN if any ST GEORGE BANK C/- ESPREON DX 1494 SYDNEY 02 9283 5111 Reference (optional): 211 7620069 00	LLPN:123131V McWilliam (Sheriff)	CODES T TW

(C) TRANSFEROR

ANNABELLE MARGARET McWILLIAM

(D) CONSIDERATION

The transferor acknowledges receipt of the consideration and as regards

(E) ESTATE

the folio of the Register specified above transfers the transferee an estate in fee simple.

(F) SHARE TRANSFERRED

(G)

Encumbrances (if applicable): 1. 2. 3.

(H) TRANSFEREE

STANLEY ROBERT McWILLIAM

(I)

TENANCY:

DATE

dd mm yyyy

(J) I certify that the transferor, with whom I am personally acquainted or as to whose identity I am otherwise satisfied, signed this transfer in my presence.

Signature of witness:

Benny Michael Radburn

Name of witness:

Benny Michael Radburn

Address of witness:

LOT 122 150 ARBOTSFORD RD
 PICTON NSW 2571

I certify that the transferee, with whom I am personally acquainted or as to whose identity I am otherwise satisfied, signed this transfer in my presence.

Signature of witness:

Rodolfo Simic

Name of witness:

RODOLFO SIMIC

Address of witness:

844 HENRY LAWSON DRIVE
 PICNIC POINT N.S.W.

Certified correct for the purposes of the Real Property Act 1900 by the transferor.

Signature of transferor:

McWilliam

Certified correct for the purposes of the Real Property Act 1900 by the transferee.

Signature of transferee:

DR McWilliam

If signed on the transferee's behalf by a solicitor, licensed conveyancer or barrister, insert the signatory's full name and capacity below:

Form: 97-011

Licence: AUS/0634/96

TRANSFERNew South Wales
Real Property Act 1900**3695291 C**Instructions for filling out
this form are available
from the Land Titles Office

Office of State Revenue use only

00.2%

241297 2125 04 201381228/03

N.S.W. STAMP DUTY

\$2.00

- (A) **LAND TRANSFERRED**
If appropriate, specify the
share or part transferred.

12/833784

- (B) **LODGED BY**

LTO Box

447D

Name, Address or DX and Telephone

KENDAW & RIMES

Reference (15 character maximum):

1/970131

- (C) **TRANSFEROR** **PATSY LOVE MCWILLIAM**

- (D) acknowledges receipt of the consideration of ..\$1.00.....
and as regards the land specified above transfers to the transferee an estate in fee simple.

- (E) Encumbrances (if applicable): 1. 2. 3.

- (F) **TRANSFEE**

T**TS**

(s/13 LGA)

TW

(Sheriff)

**STANLEY ROBERT MCWILLIAM and
ANNABELLE MARGARET MCWILLIAM**

- (G) **TENANCY: joint tenants**

- (H) We certify this dealing correct for the purposes of the Real Property Act 1900. sealed and DATED 19-12-1997
Signed in my presence by the transferor who is personally known to me.

Signature of Witness

JOHN MONTGOMERY

Name of Witness (BLOCK LETTERS)

85-87 MOORE ST. LIVERPOOL

Address of Witness

Signature of Transferor

- Signed in my presence by the transferee who is personally known to me.

Signature of Witness

M. A. KENDAW

Name of Witness (BLOCK LETTERS)

Solicitor Liverpool

Address of Witness

Signature of Transferee

If signed on the transferee's behalf by a solicitor or licensed
conveyancer, show the signatory's full name in block letters.

RP3



B TRANSMISSIO APPLICATIO

Section 93 Real Property Act 19



2495491 J

ly

00*074

10/190891107 71 SZ89 9AA0/7

Office of State Revenue use only

(A) **LAND**

Show no more than 20 References to Title.

fol id 12/833784
vol 7679 fol 137 NOW BEING 232/27602
vol 7679 fol 138 NOW BEING 231/27602

(B) **REGISTERED DEALING**

If applicable.

(C) **LODGED BY**

L.T.O. Box

1157H

Name, Address or DX and Telephone

D MORGAN JONES

Solicitor

P O Box 201

PANANIA NSW 2213 (tel. 9773 6912)

REFERENCE (max. 15 characters): McWilliam

(D) **DECEASED REGISTERED PROPRIETOR**

STANLEY JAMES MCWILLIAM

(E) **APPLICANT**

TA

PATSY LOVE MCWILLIAM

S.

(F) I, the Applicant, being entitled as beneficiary of the will/estate of the Deceased Registered Proprietor (who died on 14 December 1995) pursuant to Probate/Letters of Administration No. 106622/96 granted on 14 May 1996 to me apply to be registered as proprietor of the estate or interest of the Deceased Registered Proprietor in the Land/Registered Dealing specified above.

(G) Certified correct for the purposes of the Real property Act 1900.

DATE 24 September 1996

Signed in my presence by the Applicant who is personally known to me.

David Morgan Jones
Signature of Witness

DAVID MORGAN JONES
Name of Witness (BLOCK LETTERS)

SOLICITOR, PANANIA
Address of Witness

EVIDENCE SIGHTED (office use only)

ORIGINAL
PROBATE

CT SIGHTED
CANC. & RET.

27.9.96

Patsy Love McWilliam
Signature of Applicant

CHECKED BY (office use only)

[Signature]

(H)

CONSENT OF EXECUTOR OR ADMINISTRATOR

I, PATSY LOVE MCWILLIAM 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.

1. 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.
2. 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 date of death of the Deceased Registered Proprietor, 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 must 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.

202 Primary Appn. No. 1746
Reference to Last Title
Vol. 7495 Fol. 208

New South Wales.

[CERTIFICATE OF TITLE.]



REGISTER BOOK.
VOL. 7679 Fol. 139
DW Issued on Transfer No. H177963

S
GRY

C
ON ISSU
230/27602 W

76559 257 K 2006-2 A. H. Pettifer, Government Printer

GEORGE ANDREW CLATWORTHY, of Sutherland, Moulder, is now the proprietor of an Estate in Fee Simple,
subject nevertheless to the reservations and conditions, if any, contained in the Grant hereinafter referred to, and also subject to such encumbrances,
liens, and interests as are notified hereon, in that piece of land
in the Municipality of Camden Parish of Cook, and County of Cumberland
being Lot 230 in Deposited Plan No.27602 and being part of Portion 58 granted to George Molle on 24th January 1817.

In witness whereof I have hereunto signed my name and affixed my Seal, this Twenty-third day of April, 19 59
Signed in the presence of [Signature] }
[Signature] Registrar-General.

NOTIFICATION REFERRED TO
No. H28965 Caveat Entered 22nd October 1958.

[Signature] Registrar General.

COMPUTER FOLIO NO FURTHER
DEALINGS TO BE REGISTERED.

Persons are cautioned against altering or adding to this Certificate or any notification thereon.

X
Te H247009
Stanley James Mc William Leppington,
Builder
now the registered proprietor of the land within described
See TRANSFER No. H247009 dated 26th February 19 59
Entered 24th September 19 59
[Signature] REGISTRAR GENERAL

X
CAVEAT No H28965 has been withdrawn.
See H28965 Entered 24th September 19 59.
[Signature] REGISTRAR GENERAL

APPENDIX C1

AERIAL PHOTOGRAPHS

14892/1



December 2020



November 2009

14892/1



2002



1990

14892/1



1983



1975

14892/1



1965

APPENDIX C2

SITE PHOTOGRAPHS (TAKEN DURING THE INSPECTION AND FIELD SOIL SAMPLING)

14892/2-AA
268-278 Catherine Fields Road, Catherine Field

Lot 11 in DP833983



Photograph 1: Burial Pit / Back filled Dam Area (SF# 6)



Photograph 2: Test Pit TP37

14892/2-AA
268-278 Catherine Fields Road, Catherine Field



Photograph 3: Test Pit P2



Photograph 4: Remnants of former building (SF# 17a)

14892/2-AA
268-278 Catherine Fields Road, Catherine Field



Photograph 5: Remnants of former building (SF# 17c)



Photograph 6: Dam (SF# 11a and 11b)

14892/2-AA
268-278 Catherine Fields Road, Catherine Field



Photograph 7: Long grass area (SF# 8)



Photograph 8: Fibro building, metal roof (SF# 5a)

14892/2-AA
268-278 Catherine Fields Road, Catherine Field



Photograph 9: Gravel area (SF# 19b)

Lot 12 in DP833784



Photograph 10: Viewing south side of property

14892/2-AA
268-278 Catherine Fields Road, Catherine Field



Photograph 11: Viewing south of site toward SF#7



Photograph 12: Fibro building, metal roof (SF# 5a)

14892/2-AA
268-278 Catherine Fields Road, Catherine Field



Photograph 13: Chicken Coop (SF# 10)



Photograph 14: Metal shed with cars, etc. (partly concrete) (SF# 7)

14892/2-AA
268-278 Catherine Fields Road, Catherine Field



Photograph 15: Timber fencing (SF# 16)

APPENDIX D

SECTION 10.7 (2) PLANNING CERTIFICATES

PLANNING CERTIFICATE UNDER SECTION 10.7 ENVIRONMENTAL PLANNING & ASSESSMENT ACT 1979

APPLICANT: Geotechnique Pty Ltd
1 Lemko Place 2570

Certificate number: 20211545
Reference number: 435720
Certificate issue date: 09/04/2021
Certificate fee: \$53.00
Applicant's reference: 14892/1
Property number: 102144

DESCRIPTION OF PROPERTY

Land Description: LOT: 11 DP: 833983
Address: 268 Catherine Fields Road CATHERINE FIELD NSW 2557

BACKGROUND INFORMATION

This certificate provides information on how a property (such as land, a house, commercial building, etc.,) may be used and the limits on its development. The certificate contains information Council is aware of through records and environmental plans with data supplied by the State Government. The details contained in this certificate are limited to that required by Section 10.7 of the Environmental Planning and Assessment Act. 1979

1. NAMES OF RELEVANT PLANNING INSTRUMENTS AND DCPS

- (1) The name of each environmental planning instrument that applies to the carrying out of development on the land.
- (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 (unless the Secretary has notified the council that the making of the proposed instrument has been deferred indefinitely or has not been approved).
- (3) The name of each development control plan that applies to the carrying out of development on the land.
- (4) In this clause, proposed environmental planning instrument includes a planning proposal for a LEP or a draft environmental planning instrument.

LOCAL ENVIRONMENTAL PLANS (LEP'S)

Camden Local Environmental Plan 2010.

STATE ENVIRONMENTAL PLANNING POLICIES (SEPP'S)

SEPP No 19 - Bushland in Urban Areas

SEPP No 33 - Hazardous and Offensive Development

SEPP No 50 - Canal Estates

SEPP No 55 - Remediation of Land

SEPP No 64 - Advertising and Signage

SEPP No 65 - Design Quality of Residential Apartment Development

SEPP No 70 - Affordable Housing (Revised Schemes)

SEPP (Housing for Seniors or People with a Disability) 2004

SEPP (Building Sustainability Index: BASIX) 2004

SEPP (State Significant Precincts) 2005

SEPP (Mining, Petroleum Production and Extractive Industries) 2007

SEPP (Infrastructure) 2007

SEPP (Exempt and Complying Development Codes) 2008

SEPP (Affordable Rental Housing) 2009

SEPP (State and Regional Development) 2011

SEPP (Educational Establishments and Child Care Facilities) 2017

SEPP (Concurrences and Consents) 2018

SEPP No 21 - Caravan Parks

SEPP (Primary Production and Rural Development) 2019

SEPP (Sydney Region Growth Centres) 2006

SEPP (Western Sydney Aerotropolis) 2020

Note: The above SEPP's may apply subject to the relevant criteria and requirements as listed in each of the SEPP's.

DEEMED STATE ENVIRONMENTAL PLANNING POLICIES (SEPP'S)

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

Sydney Regional Environmental Plan No 9 - Extractive Industry (No 2 - 1995)

DRAFT LOCAL ENVIRONMENTAL PLAN (LEP'S)

No.

DRAFT STATE ENVIRONMENTAL PLANNING POLICY (SEPP'S)

SEPP (Remediation of Land) 2018

SEPP (Environment) 2017

SEPP (Short Term Rental Accommodation) 2019

SEPP (Housing Diversity) 2020

SEPP (Sydney Region Growth Centres) Housekeeping Amendment 2020

SEPP (Infrastructure) Amendment (Health Services Facilities) 2020

SEPP (Educational Establishments and Child Care Facilities) Amendment 2020

SEPP (Design and Place) 2021

SEPP No 65 (Design Quality of Residential Apartment Development) 2005 Amendment (Design and Place) 2021

SEPP (Building Sustainability Index: BASIX) Amendment (Design and Place) 2021

Note: The above draft LEP's or draft SEPP's may apply subject to the relevant criteria and requirements as listed in each of these draft instruments.

DEVELOPMENT CONTROL PLANS

Camden Development Control Plan 2019, as amended

2/2A. ZONING AND LAND USE UNDER RELEVANT LEPS AND/OR UNDER STATE ENVIRONMENTAL PLANNING POLICY (SYDNEY REGION GROWTH CENTRES) 2006

This section contains information required under clauses 2 and 2A of Schedule 4 of the EP&A Regulation 2000, relating to zoning and land use under relevant Environmental Planning Instruments.

Clause 2 of Schedule 4 of the Regulation requires Council to provide information with respect to zoning and land-use in areas zoned under a Local Environmental Plan, or zoning and land use under a proposed instrument referred to in clause 1(2).

Clause 2A of Schedule 4 of the Regulation requires Council to provide information with respect to zoning and land-use in areas which are zoned, or proposed to be zoned, under the State Environmental Planning Policy (Sydney Region Growth Centres) 2006. This includes a Precinct Plan or a proposed Precinct Plan that is or has been the subject of community consultation or on public exhibition under the Act.

A. ZONE RU4 PRIMARY PRODUCTION SMALL LOTS - CAMDEN LOCAL ENVIRONMENTAL PLAN 2010

Objectives of zone

- * To enable sustainable primary industry and other compatible land uses.
- * To encourage and promote diversity and employment opportunities in relation to primary industry enterprises particularly those that require smaller lots or that are more intensive in nature.
- * To minimise conflict between land uses within the zone and land uses within adjoining zones.

B. Permitted without consent

Home occupations

C. Permitted with consent

Aquaculture; Bed and breakfast accommodation; Cellar door premises; Dual occupancies (attached); Dwelling houses; Extensive agriculture; Farm buildings; Farm stay accommodation; Garden centres; Home-based child care; Home businesses; Home industries; Intensive plant agriculture; Landscaping material supplies; Plant nurseries; Roads; Roadside stalls; Rural workers' dwellings; Secondary dwellings; Stock and sale yards; Any other development not specified in item B or D

D. Prohibited

Agriculture; Air transport facilities; Amusement centres; Animal boarding or training establishments; Camping grounds; Car parks; Caravan parks; Commercial premises; Correctional centres; Crematoria; Eco-tourist facilities; Entertainment facilities; Exhibition homes; Exhibition villages; Extractive industries; Freight transport facilities; Function centres; Heavy industrial storage establishments; Highway service centres; Home occupations (sex services); Industrial retail outlets; Industries; Information and education facilities; Mortuaries; Port facilities; Recreation facilities (indoor); Recreation facilities (major); Residential accommodation; Restricted premises; Rural industries; Service stations; Sex services premises; Storage premises; Tourist and visitor accommodation; Transport depots; Vehicle body repair workshops; Vehicle repair stations; Warehouse or distribution centres; Waste or resource management facilities; Wharf or boating facilities; Wholesale supplies

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

RU4 Primary Production Small Lots: Under clause 4.2A of Camden Local Environmental Plan 2010 a minimum lot size applies for the erection of a dwelling house as specified by the Lot Size Maps in Camden Local Environmental Plan 2010, subject to the exceptions as set out in clauses 4.2A(3) and 4.2A(4)

F. Whether the land includes or comprises critical habitat

No.

G. Whether the land is in a conservation area (however described)

No.

H. Whether an item of environmental heritage (however described) is situated on the land.

No.

3. COMPLYING DEVELOPMENT

(1) The extent to which the land is land on which complying development may be carried out under each of the codes for complying development because of the provisions of clauses 1.17A (1) (c) to (e), (2), (3) and (4), 1.18 (1) (c3) and 1.19 of State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.

(2) The extent to which complying development may not be carried out on that land because of the provisions of clauses 1.17A (1) (c) to (e), (2), (3) and (4), 1.18 (1) (c3) and 1.19 of that Policy and the reasons why it may not be carried out under those clauses.

(3) If the council does not have sufficient information to ascertain the extent to which complying development may or may not be carried out on the land, a statement that a restriction applies to the land, but it may not apply to all of the land, and that council does not have sufficient information to ascertain the extent to which complying development may or may not be carried out on the land.

HOUSING CODE

Complying development MAY be carried out on the land.

LOW RISE HOUSING DIVERSITY CODE

Complying development MAY be carried out on the land.

RURAL HOUSING CODE

Complying development MAY be carried out on the land.

GREENFIELD HOUSING CODE

Complying development MAY be carried out on the land.

Note: The Greenfield Housing Code only applies to certain land within the Camden Local Government Area. Under Clause 3C.1 of the State Environmental Planning Policy (Exempt and Complying Development Codes) 2008, the code applies to land identified within the Greenfield Housing Code Area, as shown on the Greenfield Housing Code Area Maps.

INLAND CODE

The Inland Code does not apply to the Camden Local Government Area.

HOUSING ALTERATIONS CODE

Complying development MAY be carried out on the land.

GENERAL DEVELOPMENT CODE

Complying development MAY be carried out on the land.

COMMERCIAL AND INDUSTRIAL ALTERATIONS CODE

Complying development MAY be carried out on the land.

COMMERCIAL AND INDUSTRIAL NEW BUILDINGS AND ADDITIONS CODE

Complying development MAY be carried out on the land.

CONTAINER RECYCLING FACILITIES CODE

Complying development MAY be carried out on the land.

SUBDIVISION CODE

Complying development MAY be carried out on the land.

DEMOLITION CODE

Complying development MAY be carried out on the land.

FIRE SAFETY CODE

Complying development MAY be carried out on the land.

Where complying development MAY be carried out, on land not affected by exclusions, it is subject to the requirements and standards of the SEPP and the relevant Codes, including requirements relating to the zoning of the land.

4B. ANNUAL CHARGES UNDER LOCAL GOVERNMENT ACT 1993 FOR COASTAL PROTECTION SERVICES THAT RELATE TO EXISTING COASTAL PROTECTION WORKS

Not Applicable.

5. MINE SUBSIDENCE

Whether or not the land is proclaimed to be a mine subsidence district within the meaning of the Coal Mine Subsidence Compensation Act 2017.

No.

6. ROAD WIDENING AND ROAD REALIGNMENT

Whether or not the land is affected by any road widening or road realignment under:

(a) Division 2 of Part 3 of the Roads Act 1993, or

(b) any environmental planning instrument, or

(c) any resolution of the council.

No.

7. COUNCIL AND OTHER PUBLIC AUTHORITY POLICIES ON HAZARD RISK RESTRICTIONS

Whether or not the land is affected by a policy:

(a) Adopted by the council, or

(b) 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, bushfire, tidal inundation, subsidence, acid sulphate soils or any other risk (other than flooding).

LAND SLIP

The subject land is not affected by a policy adopted by the Council or with Council being notified of a policy adopted by any other public authority that restricts the development of the subject land because of the likelihood of landslip.

BUSHFIRE

The land is affected by the provisions of a Development Control Plan and by Planning for Bushfire Protection (NSW Rural Fire Service) that may restrict the development of the land because of the likelihood of bushfire.

TIDAL INUNDATION

The subject land is not affected by a policy adopted by the Council or with Council being notified of a policy adopted by any other public authority that restricts the development of the subject land because of the likelihood of tidal inundation.

SUBSIDENCE

The subject land is not affected by a policy adopted by the Council or with Council being notified of a policy adopted by any other public authority that restricts the development of the subject land because of the likelihood of subsidence.

ACID SULPHATE SOILS

The subject land is not affected by a policy adopted by the Council or with Council being notified of a policy adopted by any other public authority that restricts the development of the subject land because of the likelihood of acid sulphate soils.

OTHER RISK

Contamination:

Council's policy 'Management of Contaminated Lands' applies to the whole of the council area and may restrict, development of land. The policy is implemented when zoning or land use changes are proposed, or when further development is proposed, where land has been used for contaminating or potentially contaminating activities, including those activities listed in schedule 1 of the policy. A copy of the policy is available on Council's website.

Salinity:

There are requirements for salinity and salinity assessment for specific types of development within the Camden local government area. This includes mandatory building requirements, unless other

requirements are identified in any site specific salinity risk assessment or salinity management plan applying to the land. Please refer to Council's policy 'Building in a Salinity Prone Environment' and to requirements in the relevant Development Control Plan that applies to the land.

7A. FLOOD RELATED DEVELOPMENT CONTROLS INFORMATION

(1) Whether or not development on that 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 senior housing) is subject to flood related development controls.

Yes.

(2) Whether or not development on that land or part of the land for any other purpose is subject to flood related development controls.

Yes.

(3) Words and expressions in this clause have the same meanings as in the standard instrument set out in the Standard Instrument (Local Environmental Plans) Order 2006.

8. LAND RESERVED FOR ACQUISITION

Whether or not any 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.

No.

9. CONTRIBUTION PLANS

The name of each contributions plan applying to the land

Camden Contributions Plan 2011

9A. BIO-DIVERSITY CERTIFIED LAND

If the land is biodiversity certified land under Part 8 of the Biodiversity Conservation Act 2016, a statement to that effect.

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.

The subject land is biodiversity certified land, under Part 8 of the Biodiversity Conservation Act 2016, or under Part 7AA and/or Schedule 7 Part 7 of the Threatened Species Conservation Act 1995, which remain in force under the Biodiversity Conservation (Savings and Transitional) Regulation 2017.

For more information about biodiversity certification, and the extent of the property that is certified, please visit: www.camden.nsw.gov.au/environment/biodiversity

10. BIODIVERSITY STEWARDSHIP SITES

If the land is a biodiversity stewardship site under a biodiversity stewardship agreement under Part 5 of the Biodiversity Conservation Act 2016, a statement to that effect (but only if the council has been

notified of the existence of the agreement by the Chief Executive of the Office of Environment and Heritage).

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

No.

10A. NATIVE VEGETATION CLEARING SET ASIDES

If the land contains a set aside area under section 60ZC of the Local Land Services Act 2013, a statement to that effect (but only if the council has been notified of the existence of the set aside area by Local Land Services or it is registered in the public register under that section).

No.

11. BUSH FIRE PRONE LAND

Is the land or some of the land bush fire prone land (as defined in the Environmental Planning and Assessment Act, 1979)?

Some of the land has been identified as bush fire prone land on the Camden Council Bush Fire Prone Land Mapping, as certified by the Commissioner of the NSW Rural Fire Service under Section 10.3(2) of the Environmental Planning and Assessment Act, 1979.

12. PROPERTY VEGETATION PLANS

If the land is land to which a property vegetation plan approved under Part 4 of the Native Vegetation Act 2003 (and that continues in force) applies, a statement to that effect (but only if the council has been notified of the existence of the plan by the person or body that approved the plan under that Act).

No.

13. ORDERS UNDER TREES (DISPUTES BETWEEN NEIGHBOURS) ACT 2006

Whether 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 (but only if the council has been notified of the order).

No.

14. DIRECTIONS UNDER PART 3A

If there is a direction by the Minister in force under section 75P (2) (c1) of the Act that a provision of an environmental planning instrument prohibiting or restricting the carrying out of project or a stage of a project on the land under Part 4 of the Act does not have effect, a statement to that effect identifying the provision that does not have effect.

No.

15. SITE COMPATIBILITY CERTIFICATES AND CONDITIONS FOR SENIORS HOUSING

If the land is land to which State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004 applies.

(a) Is there a current site compatibility certificate (seniors housing) of which the council is aware, in respect of proposed development on the land?

No.

(b) Are there any terms of a kind referred to in clause 18(2) of that Policy that have been imposed as a condition to a development application granted after 11 October 2007 in respect of the land?

No.

16. SITE COMPATIBILITY CERTIFICATES FOR INFRASTRUCTURE, SCHOOLS OR TAFE ESTABLISHMENTS

Is there a valid site compatibility certificate (infrastructure) or site compatibility certificate (schools or TAFE establishments), of which the council is aware, in respect of proposed development on the land?

- (a) the period for which the certificate is valid, and
- (b) that a copy may be obtained from the head office of the Department.

No.

17. SITE COMPATIBILITY CERTIFICATES AND CONDITIONS FOR AFFORDABLE RENTAL HOUSING

(1) Is there a current site compatibility certificate (affordable rental housing), of which the council is aware, in respect of proposed development on the land?

No.

(2) Are there any terms of a kind referred to in clause 17(1) or 38(1) of State Environmental Planning Policy (Affordable Rental Housing) 2009 that have been imposed as a condition of consent to a development application in respect of the land?

No.

18. PAPER SUBDIVISION INFORMATION

(1) The name of any development plan adopted by a relevant authority that applies to the land or that is proposed to be subject to a consent ballot.

(2) The date of any subdivision order that applies to the land.

(3) Words and expressions used in this clause have the same meaning as they have in Part 16C of this Regulation.

Not Applicable.

19. SITE VERIFICATION CERTIFICATES

Is there a current site verification certificate, of which the council is aware, in respect of the land?

Note: A site verification certificate sets out the Secretary's opinion as to whether the land concerned is or is not biophysical strategic agricultural land or critical industry cluster land - see Division 3 of Part 4AA of State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries) 2007

No.

20. LOOSE-FILL ASBESTOS INSULATION

If the land includes any residential premises (within the meaning of Division 1A of Part 8 of the Home Building Act 1989) that are listed on the register that is required to be maintained under that Division, a statement to that effect.

No.

21. AFFECTED BUILDING NOTICES AND BUILDING PRODUCT RECTIFICATION ORDERS

A statement of whether there is any affected building notice of which the council is aware that is in force in respect of the land.

A statement of:

whether there is any building product rectification order of which the council is aware that is in force in respect of the land and has not been fully complied with, and

whether any notice of intention to make a building product rectification order of which the council is aware has been given in respect of the land and is outstanding.

In this clause:

affected building notice has the same meaning as in Part 4 of the Building Products (Safety) Act 2017.

building product rectification order has the same meaning as in the Building Products (Safety) Act 2017.

No.

22. STATE ENVIRONMENTAL PLANNING POLICY (WESTERN SYDNEY AEROTROPOLIS) 2020

For land to which State Environmental Planning Policy (Western Sydney Aerotropolis) 2020 applies, whether the land is –

(a) in an ANEF or ANEC contour of 20 or greater as referred to in clause 19 of that Policy, or

No.

(b) shown on the Lighting Intensity and Wind Shear Map under that Policy, or

No.

(c) shown on the Obstacle Limitation Surface Map under that Policy, or

Yes, the subject land is shown on the Obstacle Limitation Surface Map.

(d) in the “public safety area” on the Public Safety Area Map under that Policy, or

No.

(e) in the “3 kilometre wildlife buffer zone” or the “13 kilometre wildlife buffer zone” on the Wildlife Buffer Zone Map under that Policy.

Yes, the subject land is located within the 13 kilometre Wildlife Buffer Zone.

MATTERS PRESCRIBED BY SECTION 59 (2) OF THE CONTAMINATED LAND MANAGEMENT ACT 1997

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) that the land to which the certificate relates is significantly contaminated land within the meaning of that Act—if the land (or part of the land) is significantly contaminated land at the date when the certificate is issued,

No.

(b) that the land to which the certificate relates is subject to a management order within the meaning of that Act—if it is subject to such an order at the date when the certificate is issued,

No.

(c) that the land to which the certificate relates is the subject of an approved voluntary management proposal within the meaning of that Act - if it is the subject of such an approved proposal at the date when the certificate is issued,

No.

(d) that the land to which the certificate relates is subject to an ongoing maintenance order within the meaning of that Act - if it is subject to such an order at the date when the certificate is issued,

No.

(e) that the land to which the certificate relates is the subject of a site audit statement within the meaning of that Act - if a copy of such a statement has been provided at any time to the local authority issuing the certificate.

No.

DISCLAIMER AND CAUTION

The information on zones, controls etc., given below relates to the land for which the certificate was sought. If enquirers wish to know what zones, other controls, etc., apply or are proposed on nearby land then they should make enquiries in person at Council's offices.

The information contained in this certificate is accurate as at the date of this certificate.

In providing this certificate Council has in good faith relied upon information provided to it or sourced from third parties. Where Council has obtained the information from third parties, either exclusively or in conjunction with information held by Council, the Certificate details the source of that third party information. Council cautions persons against relying upon information in the Certificate sourced from third parties as to its accuracy, applicability to specific lands and its currency without verification from the specified third party and, where appropriate, professional advice and the adoption of prudent land acquisition measures and appropriate professional advice. To the full extent permitted by law Council disclaims liability with respect to any information in this Certificate sourced from third parties.

Ron Moore

General Manager

PLANNING CERTIFICATE UNDER SECTION 10.7 ENVIRONMENTAL PLANNING & ASSESSMENT ACT 1979

APPLICANT: Geotechnique Pty Ltd
1 Lemko Place

Certificate number: 20211527
Reference number: 435118
Certificate issue date: 08/04/2021
Certificate fee: \$53.00
Applicant's reference: 14892/1
Property number: 102148

DESCRIPTION OF PROPERTY

Land Description: LOT: 12 DP: 833784
Address: 278 Catherine Fields Road CATHERINE FIELD NSW 2557

BACKGROUND INFORMATION

This certificate provides information on how a property (such as land, a house, commercial building, etc.,) may be used and the limits on its development. The certificate contains information Council is aware of through records and environmental plans with data supplied by the State Government. The details contained in this certificate are limited to that required by Section 10.7 of the Environmental Planning and Assessment Act. 1979

1. NAMES OF RELEVANT PLANNING INSTRUMENTS AND DCPS

- (1) The name of each environmental planning instrument that applies to the carrying out of development on the land.
- (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 (unless the Secretary has notified the council that the making of the proposed instrument has been deferred indefinitely or has not been approved).
- (3) The name of each development control plan that applies to the carrying out of development on the land.
- (4) In this clause, proposed environmental planning instrument includes a planning proposal for a LEP or a draft environmental planning instrument.

LOCAL ENVIRONMENTAL PLANS (LEP'S)

Camden Local Environmental Plan 2010.

STATE ENVIRONMENTAL PLANNING POLICIES (SEPP'S)

SEPP No 19 - Bushland in Urban Areas

SEPP No 33 - Hazardous and Offensive Development

SEPP No 50 - Canal Estates

SEPP No 55 - Remediation of Land

SEPP No 64 - Advertising and Signage

SEPP No 65 - Design Quality of Residential Apartment Development

SEPP No 70 - Affordable Housing (Revised Schemes)

SEPP (Housing for Seniors or People with a Disability) 2004

SEPP (Building Sustainability Index: BASIX) 2004

SEPP (State Significant Precincts) 2005

SEPP (Mining, Petroleum Production and Extractive Industries) 2007

SEPP (Infrastructure) 2007

SEPP (Exempt and Complying Development Codes) 2008

SEPP (Affordable Rental Housing) 2009

SEPP (State and Regional Development) 2011

SEPP (Educational Establishments and Child Care Facilities) 2017

SEPP (Concurrences and Consents) 2018

SEPP No 21 - Caravan Parks

SEPP (Primary Production and Rural Development) 2019

SEPP (Sydney Region Growth Centres) 2006

SEPP (Western Sydney Aerotropolis) 2020

Note: The above SEPP's may apply subject to the relevant criteria and requirements as listed in each of the SEPP's.

DEEMED STATE ENVIRONMENTAL PLANNING POLICIES (SEPP'S)

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

Sydney Regional Environmental Plan No 9 - Extractive Industry (No 2 - 1995)

DRAFT LOCAL ENVIRONMENTAL PLAN (LEP'S)

No.

DRAFT STATE ENVIRONMENTAL PLANNING POLICY (SEPP'S)

SEPP (Remediation of Land) 2018

SEPP (Environment) 2017

SEPP (Short Term Rental Accommodation) 2019

SEPP (Housing Diversity) 2020

SEPP (Sydney Region Growth Centres) Housekeeping Amendment 2020

SEPP (Infrastructure) Amendment (Health Services Facilities) 2020

SEPP (Educational Establishments and Child Care Facilities) Amendment 2020

SEPP (Design and Place) 2021

SEPP No 65 (Design Quality of Residential Apartment Development) 2005 Amendment (Design and Place) 2021

SEPP (Building Sustainability Index: BASIX) Amendment (Design and Place) 2021

Note: The above draft LEP's or draft SEPP's may apply subject to the relevant criteria and requirements as listed in each of these draft instruments.

DEVELOPMENT CONTROL PLANS

Camden Development Control Plan 2019, as amended

2/2A. ZONING AND LAND USE UNDER RELEVANT LEPS AND/OR UNDER STATE ENVIRONMENTAL PLANNING POLICY (SYDNEY REGION GROWTH CENTRES) 2006

This section contains information required under clauses 2 and 2A of Schedule 4 of the EP&A Regulation 2000, relating to zoning and land use under relevant Environmental Planning Instruments.

Clause 2 of Schedule 4 of the Regulation requires Council to provide information with respect to zoning and land-use in areas zoned under a Local Environmental Plan, or zoning and land use under a proposed instrument referred to in clause 1(2).

Clause 2A of Schedule 4 of the Regulation requires Council to provide information with respect to zoning and land-use in areas which are zoned, or proposed to be zoned, under the State Environmental Planning Policy (Sydney Region Growth Centres) 2006. This includes a Precinct Plan or a proposed Precinct Plan that is or has been the subject of community consultation or on public exhibition under the Act.

A. ZONE RU4 PRIMARY PRODUCTION SMALL LOTS - CAMDEN LOCAL ENVIRONMENTAL PLAN 2010

Objectives of zone

- * To enable sustainable primary industry and other compatible land uses.
- * To encourage and promote diversity and employment opportunities in relation to primary industry enterprises particularly those that require smaller lots or that are more intensive in nature.
- * To minimise conflict between land uses within the zone and land uses within adjoining zones.

B. Permitted without consent

Home occupations

C. Permitted with consent

Aquaculture; Bed and breakfast accommodation; Cellar door premises; Dual occupancies (attached); Dwelling houses; Extensive agriculture; Farm buildings; Farm stay accommodation; Garden centres; Home-based child care; Home businesses; Home industries; Intensive plant agriculture; Landscaping material supplies; Plant nurseries; Roads; Roadside stalls; Rural workers' dwellings; Secondary dwellings; Stock and sale yards; Any other development not specified in item B or D

D. Prohibited

Agriculture; Air transport facilities; Amusement centres; Animal boarding or training establishments; Camping grounds; Car parks; Caravan parks; Commercial premises; Correctional centres; Crematoria; Eco-tourist facilities; Entertainment facilities; Exhibition homes; Exhibition villages; Extractive industries; Freight transport facilities; Function centres; Heavy industrial storage establishments; Highway service centres; Home occupations (sex services); Industrial retail outlets; Industries; Information and education facilities; Mortuaries; Port facilities; Recreation facilities (indoor); Recreation facilities (major); Residential accommodation; Restricted premises; Rural industries; Service stations; Sex services premises; Storage premises; Tourist and visitor accommodation; Transport depots; Vehicle body repair workshops; Vehicle repair stations; Warehouse or distribution centres; Waste or resource management facilities; Wharf or boating facilities; Wholesale supplies

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

RU4 Primary Production Small Lots: Under clause 4.2A of Camden Local Environmental Plan 2010 a minimum lot size applies for the erection of a dwelling house as specified by the Lot Size Maps in Camden Local Environmental Plan 2010, subject to the exceptions as set out in clauses 4.2A(3) and 4.2A(4)

F. Whether the land includes or comprises critical habitat

No.

G. Whether the land is in a conservation area (however described)

No.

H. Whether an item of environmental heritage (however described) is situated on the land.

No.

3. COMPLYING DEVELOPMENT

(1) The extent to which the land is land on which complying development may be carried out under each of the codes for complying development because of the provisions of clauses 1.17A (1) (c) to (e), (2), (3) and (4), 1.18 (1) (c3) and 1.19 of State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.

(2) The extent to which complying development may not be carried out on that land because of the provisions of clauses 1.17A (1) (c) to (e), (2), (3) and (4), 1.18 (1) (c3) and 1.19 of that Policy and the reasons why it may not be carried out under those clauses.

(3) If the council does not have sufficient information to ascertain the extent to which complying development may or may not be carried out on the land, a statement that a restriction applies to the land, but it may not apply to all of the land, and that council does not have sufficient information to ascertain the extent to which complying development may or may not be carried out on the land.

HOUSING CODE

Complying development MAY be carried out on the land.

LOW RISE HOUSING DIVERSITY CODE

Complying development MAY be carried out on the land.

RURAL HOUSING CODE

Complying development MAY be carried out on the land.

GREENFIELD HOUSING CODE

Complying development MAY be carried out on the land.

Note: The Greenfield Housing Code only applies to certain land within the Camden Local Government Area. Under Clause 3C.1 of the State Environmental Planning Policy (Exempt and Complying Development Codes) 2008, the code applies to land identified within the Greenfield Housing Code Area, as shown on the Greenfield Housing Code Area Maps.

INLAND CODE

The Inland Code does not apply to the Camden Local Government Area.

HOUSING ALTERATIONS CODE

Complying development MAY be carried out on the land.

GENERAL DEVELOPMENT CODE

Complying development MAY be carried out on the land.

COMMERCIAL AND INDUSTRIAL ALTERATIONS CODE

Complying development MAY be carried out on the land.

COMMERCIAL AND INDUSTRIAL NEW BUILDINGS AND ADDITIONS CODE

Complying development MAY be carried out on the land.

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Complying development MAY be carried out on the land.

SUBDIVISION CODE

Complying development MAY be carried out on the land.

DEMOLITION CODE

Complying development MAY be carried out on the land.

FIRE SAFETY CODE

Complying development MAY be carried out on the land.

Where complying development MAY be carried out, on land not affected by exclusions, it is subject to the requirements and standards of the SEPP and the relevant Codes, including requirements relating to the zoning of the land.

4B. ANNUAL CHARGES UNDER LOCAL GOVERNMENT ACT 1993 FOR COASTAL PROTECTION SERVICES THAT RELATE TO EXISTING COASTAL PROTECTION WORKS

Not Applicable.

5. MINE SUBSIDENCE

Whether or not the land is proclaimed to be a mine subsidence district within the meaning of the Coal Mine Subsidence Compensation Act 2017.

No.

6. ROAD WIDENING AND ROAD REALIGNMENT

Whether or not the land is affected by any road widening or road realignment under:

(a) Division 2 of Part 3 of the Roads Act 1993, or

- (b) any environmental planning instrument, or
- (c) any resolution of the council.

No.

7. COUNCIL AND OTHER PUBLIC AUTHORITY POLICIES ON HAZARD RISK RESTRICTIONS

Whether or not the land is affected by a policy:

- (a) Adopted by the council, or
- (b) 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, bushfire, tidal inundation, subsidence, acid sulphate soils or any other risk (other than flooding).

LAND SLIP

The subject land is not affected by a policy adopted by the Council or with Council being notified of a policy adopted by any other public authority that restricts the development of the subject land because of the likelihood of landslip.

BUSHFIRE

The land is affected by the provisions of a Development Control Plan and by Planning for Bushfire Protection (NSW Rural Fire Service) that may restrict the development of the land because of the likelihood of bushfire.

TIDAL INUNDATION

The subject land is not affected by a policy adopted by the Council or with Council being notified of a policy adopted by any other public authority that restricts the development of the subject land because of the likelihood of tidal inundation.

SUBSIDENCE

The subject land is not affected by a policy adopted by the Council or with Council being notified of a policy adopted by any other public authority that restricts the development of the subject land because of the likelihood of subsidence.

ACID SULPHATE SOILS

The subject land is not affected by a policy adopted by the Council or with Council being notified of a policy adopted by any other public authority that restricts the development of the subject land because of the likelihood of acid sulphate soils.

OTHER RISK

Contamination:

Council's policy 'Management of Contaminated Lands' applies to the whole of the council area and may restrict, development of land. The policy is implemented when zoning or land use changes are proposed, or when further development is proposed, where land has been used for contaminating or potentially contaminating activities, including those activities listed in schedule 1 of the policy. A copy of the policy is available on Council's website.

Salinity:

There are requirements for salinity and salinity assessment for specific types of development within the Camden local government area. This includes mandatory building requirements, unless other

requirements are identified in any site specific salinity risk assessment or salinity management plan applying to the land. Please refer to Council's policy 'Building in a Salinity Prone Environment' and to requirements in the relevant Development Control Plan that applies to the land.

7A. FLOOD RELATED DEVELOPMENT CONTROLS INFORMATION

(1) Whether or not development on that 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 senior housing) is subject to flood related development controls.

No.

(2) Whether or not development on that land or part of the land for any other purpose is subject to flood related development controls.

No.

(3) Words and expressions in this clause have the same meanings as in the standard instrument set out in the Standard Instrument (Local Environmental Plans) Order 2006.

8. LAND RESERVED FOR ACQUISITION

Whether or not any 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.

No.

9. CONTRIBUTION PLANS

The name of each contributions plan applying to the land

Camden Contributions Plan 2011

9A. BIO-DIVERSITY CERTIFIED LAND

If the land is biodiversity certified land under Part 8 of the Biodiversity Conservation Act 2016, a statement to that effect.

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.

The subject land is biodiversity certified land, under Part 8 of the Biodiversity Conservation Act 2016, or under Part 7AA and/or Schedule 7 Part 7 of the Threatened Species Conservation Act 1995, which remain in force under the Biodiversity Conservation (Savings and Transitional) Regulation 2017.

For more information about biodiversity certification, and the extent of the property that is certified, please visit: www.camden.nsw.gov.au/environment/biodiversity

10. BIODIVERSITY STEWARDSHIP SITES

If the land is a biodiversity stewardship site under a biodiversity stewardship agreement under Part 5 of the Biodiversity Conservation Act 2016, a statement to that effect (but only if the council has been

notified of the existence of the agreement by the Chief Executive of the Office of Environment and Heritage).

Note: Biodiversity stewardship agreements include biobanking agreements under Part7A of the Threatened Species Conservation Act 1995 that are taken to be biodiversity stewardship agreements under Part 5 of the Biodiversity Conservation Act 2016.

No.

10A. NATIVE VEGETATION CLEARING SET ASIDES

If the land contains a set aside area under section 60ZC of the Local Land Services Act 2013, a statement to that effect (but only if the council has been notified of the existence of the set aside area by Local Land Services or it is registered in the public register under that section).

No.

11. BUSH FIRE PRONE LAND

Is the land or some of the land bush fire prone land (as defined in the Environmental Planning and Assessment Act, 1979?

Some of the land has been identified as bush fire prone land on the Camden Council Bush Fire Prone Land Mapping, as certified by the Commissioner of the NSW Rural Fire Service under Section 10.3(2) of the Environmental Planning and Assessment Act, 1979.

12. PROPERTY VEGETATION PLANS

If the land is land to which a property vegetation plan approved under Part 4 of the Native Vegetation Act 2003 (and that continues in force) applies, a statement to that effect (but only if the council has been notified of the existence of the plan by the person or body that approved the plan under that Act).

No.

13. ORDERS UNDER TREES (DISPUTES BETWEEN NEIGHBOURS) ACT 2006

Whether 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 (but only if the council has been notified of the order).

No.

14. DIRECTIONS UNDER PART 3A

If there is a direction by the Minister in force under section 75P (2) (c1) of the Act that a provision of an environmental planning instrument prohibiting or restricting the carrying out of project or a stage of a project on the land under Part 4 of the Act does not have effect, a statement to that effect identifying the provision that does not have effect.

No.

15. SITE COMPATIBILITY CERTIFICATES AND CONDITIONS FOR SENIORS HOUSING

If the land is land to which State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004 applies.

(a) Is there a current site compatibility certificate (seniors housing) of which the council is aware, in respect of proposed development on the land?

No.

(b) Are there any terms of a kind referred to in clause 18(2) of that Policy that have been imposed as a condition to a development application granted after 11 October 2007 in respect of the land?

No.

16. SITE COMPATIBILITY CERTIFICATES FOR INFRASTRUCTURE, SCHOOLS OR TAFE ESTABLISHMENTS

Is there a valid site compatibility certificate (infrastructure) or site compatibility certificate (schools or TAFE establishments), of which the council is aware, in respect of proposed development on the land?

- (a) the period for which the certificate is valid, and
- (b) that a copy may be obtained from the head office of the Department.

No.

17. SITE COMPATIBILITY CERTIFICATES AND CONDITIONS FOR AFFORDABLE RENTAL HOUSING

(1) Is there a current site compatibility certificate (affordable rental housing), of which the council is aware, in respect of proposed development on the land?

No.

(2) Are there any terms of a kind referred to in clause 17(1) or 38(1) of State Environmental Planning Policy (Affordable Rental Housing) 2009 that have been imposed as a condition of consent to a development application in respect of the land?

No.

18. PAPER SUBDIVISION INFORMATION

(1) The name of any development plan adopted by a relevant authority that applies to the land or that is proposed to be subject to a consent ballot.

(2) The date of any subdivision order that applies to the land.

(3) Words and expressions used in this clause have the same meaning as they have in Part 16C of this Regulation.

Not Applicable.

19. SITE VERIFICATION CERTIFICATES

Is there a current site verification certificate, of which the council is aware, in respect of the land?

Note: A site verification certificate sets out the Secretary's opinion as to whether the land concerned is or is not biophysical strategic agricultural land or critical industry cluster land - see Division 3 of Part 4AA of State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries) 2007

No.

20. LOOSE-FILL ASBESTOS INSULATION

If the land includes any residential premises (within the meaning of Division 1A of Part 8 of the Home Building Act 1989) that are listed on the register that is required to be maintained under that Division, a statement to that effect.

No.

21. AFFECTED BUILDING NOTICES AND BUILDING PRODUCT RECTIFICATION ORDERS

A statement of whether there is any affected building notice of which the council is aware that is in force in respect of the land.

A statement of:

whether there is any building product rectification order of which the council is aware that is in force in respect of the land and has not been fully complied with, and

whether any notice of intention to make a building product rectification order of which the council is aware has been given in respect of the land and is outstanding.

In this clause:

affected building notice has the same meaning as in Part 4 of the Building Products (Safety) Act 2017.

building product rectification order has the same meaning as in the Building Products (Safety) Act 2017.

No.

22. STATE ENVIRONMENTAL PLANNING POLICY (WESTERN SYDNEY AEROTROPOLIS) 2020

For land to which State Environmental Planning Policy (Western Sydney Aerotropolis) 2020 applies, whether the land is –

(a) in an ANEF or ANEC contour of 20 or greater as referred to in clause 19 of that Policy, or

No.

(b) shown on the Lighting Intensity and Wind Shear Map under that Policy, or

No.

(c) shown on the Obstacle Limitation Surface Map under that Policy, or

Yes, the subject land is shown on the Obstacle Limitation Surface Map.

(d) in the “public safety area” on the Public Safety Area Map under that Policy, or

No.

(e) in the “3 kilometre wildlife buffer zone” or the “13 kilometre wildlife buffer zone” on the Wildlife Buffer Zone Map under that Policy.

Yes, the subject land is located within the 13 kilometre Wildlife Buffer Zone.

MATTERS PRESCRIBED BY SECTION 59 (2) OF THE CONTAMINATED LAND MANAGEMENT ACT 1997

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) that the land to which the certificate relates is significantly contaminated land within the meaning of that Act—if the land (or part of the land) is significantly contaminated land at the date when the certificate is issued,

No.

(b) that the land to which the certificate relates is subject to a management order within the meaning of that Act—if it is subject to such an order at the date when the certificate is issued,

No.

(c) that the land to which the certificate relates is the subject of an approved voluntary management proposal within the meaning of that Act - if it is the subject of such an approved proposal at the date when the certificate is issued,

No.

(d) that the land to which the certificate relates is subject to an ongoing maintenance order within the meaning of that Act - if it is subject to such an order at the date when the certificate is issued,

No.

(e) that the land to which the certificate relates is the subject of a site audit statement within the meaning of that Act - if a copy of such a statement has been provided at any time to the local authority issuing the certificate.

No.

DISCLAIMER AND CAUTION

The information on zones, controls etc., given below relates to the land for which the certificate was sought. If enquirers wish to know what zones, other controls, etc., apply or are proposed on nearby land then they should make enquiries in person at Council's offices.

The information contained in this certificate is accurate as at the date of this certificate.

In providing this certificate Council has in good faith relied upon information provided to it or sourced from third parties. Where Council has obtained the information from third parties, either exclusively or in conjunction with information held by Council, the Certificate details the source of that third party information. Council cautions persons against relying upon information in the Certificate sourced from third parties as to its accuracy, applicability to specific lands and its currency without verification from the specified third party and, where appropriate, professional advice and the adoption of prudent land acquisition measures and appropriate professional advice. To the full extent permitted by law Council disclaims liability with respect to any information in this Certificate sourced from third parties.

Ron Moore
General Manager

APPENDIX E

NSW EPA RECORD OF NOTICES AND POEO PUBLIC REGISTER

[Home](#) [Public registers](#) [Contaminated land record of notices](#)

Contaminated land - record of notices

Record under section 58 of the Contaminated Land Management Act 1997

This record is maintained by OEH in accordance with Part 5 of the [Contaminated Land Management Act 1997](#) (CLM Act).

The record **does** provide

- ✓ a record of written notices issued by OEH under the CLM Act, including preliminary investigation orders.
- ✓ the names of the sites, owners or occupiers **at the time of OEH action** in relation to the site
- ✓ copies of site audit statements (SAS) provided to OEH under section 52 of the CLM Act and relating to significantly contaminated land.

The record **does not** provide

- ✗ a record of all contaminated land in NSW. [See frequently asked questions](#)
- ✗ a list of [notifications of contamination](#) that OEH receives.
- ✗ the names of the sites, owners or occupiers if it changes **after OEH action** in relation to the site.
- ✗ some [personal information](#).

... [more about the CLM record of notices](#)

From 1 July 2009 there were changes to the terminology of certain OEH actions under the CLM Act. See the [list of these changes](#).

The record includes notices issued under sections 35 and 36 of the Environmentally Hazardous Chemicals Act 1985. These sections have been repealed. These notices are treated by the CLM Act as management orders.

Before using the record of notices see the [Disclaimer and terms of use](#).

As at Wednesday, 28 April 2021 there are 1849 notices in the record relating to 405 sites.

[Show me the entire record](#) or [Search the record](#)

28 April 2021

131 555 (tel:131555)

Online (<https://yoursay.epa.nsw.gov.au/epa-website-feedback>)

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Search results

Your search for: LGA: CAMDEN COUNCIL

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](#).

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](#).

[Search Again](#)

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Search TIP

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

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Search results

Your search for: Suburb: CATHERINE FIELD

did not find any records in our database.

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- 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](#).

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](#).

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Search results

Your search for:FULL REGISTER

Matched 1849 notices relating to 405 sites.

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Suburb	Address	Site Name	Notices related to this site
CARINGBAH	105 Cawarra ROAD	Spirent Australia	4 former
CASINO	86 Johnston STREET	Casino Roadhouse	2 current
CHARLESTOWN	273 Charlestown ROAD	7-Eleven Charlestown	2 former
CHARLESTOWN	81 Pacific HIGHWAY	Caltex Service Station	2 current and 3 former
CHARLESTOWN	91-93 Pacific HIGHWAY	Caltex Woolworths (Former BP)	5 former
CHATSWOOD	728 Pacific HIGHWAY	Chatswood Toyota	6 former
CHATSWOOD	607 Pacific HIGHWAY	Former Caltex Chatswood Service Station	8 former
CHESTER HILL	127 Orchard ROAD	Former Orica, Chester Hill	4 former
CHIPPENDALE	Wellington STREET	Cnr Regent Street & Wellington Street, Chippendale	3 current and 4 former
CHIPPING NORTON	85-107 Alfred STREET	Former ACR	3 current and 1 former
COFFS HARBOUR	134-136 Pacific HIGHWAY	BP Service Station	6 former
COFFS HARBOUR	Aviation DRIVE	Mobil Coffs Harbour Airport	1 former
COFFS HARBOUR	314-316 Harbour DRIVE	Mobil Service Station	9 former
COLYTON	86-88 Great Western HIGHWAY	Coles Express (former Ampol) Service Station	4 former
CONCORD	Nullawarra AVENUE	Concord RSL Club	2 current
CONCORD	Nullawarra AVENUE	Majors Bay Reserve	1 current and 1 former
CONDOBOLIN	6 Burnett STREET	Former Mobil Depot	5 former
COOMA	48-52 Sharp STREET	Former Shell Service Station	4 former
COOTAMUNDRA	140-146 Hovell STREET	Cootamundra Gasworks	2 current
COOTAMUNDRA	68-72 Hovell STREET	Former Amoco Depot	2 current

[1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) ...

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Search results

Your search for: **General Search** with the following criteria

Suburb - Catherine Field

returned 13 results

[Export to excel](#)

1 of 1 Pages

[Search Again](#)

Number	Name	Location	Type	Status	Issued date
1573951	ANTHONY ABI-MERHI	445 Catherine Field Rd, CATHERINE FIELD, NSW 2557	s.91 Clean Up Notice	Issued	07 Jan 2019
3173527455	ANTHONY ABI-MERHI	445 Catherine Field Rd, CATHERINE FIELD, NSW 2557	Penalty Notice	Issued	12 Mar 2019
13173	DART WEST DEVELOPMENTS PTY LIMITED	IN THE VICINITY OF 668 CAMDEN VALLEY WAY, CATHERINE FIELD, NSW 2557	POEO licence	Surrendered	08 Sep 2009
1128724	DART WEST DEVELOPMENTS PTY LIMITED	IN THE VICINITY OF 668 CAMDEN VALLEY WAY, CATHERINE FIELD, NSW 2557	s.80 Surrender of a Licence	Issued	01 Jun 2011
1513868	FREDERICK TRUNZO	174 Deepfields Road, CATHERINE FIELD, NSW 2171	s.91 Clean Up Notice	Issued	30 May 2013
3275	KARYATES ENTERPRISE PTY LIMITED	108 DEEPFIELDS ROAD, CATHERINE FIELD, NSW 2171	POEO licence	Issued	12 Jan 2000
1022049	KARYATES ENTERPRISE PTY LIMITED	108 DEEPFIELDS ROAD, CATHERINE FIELD, NSW 2171	s.58 Licence Variation	Issued	12 Nov 2002
1089258	KARYATES ENTERPRISE PTY LIMITED	108 DEEPFIELDS ROAD, CATHERINE FIELD, NSW 2171	s.58 Licence Variation	Issued	24 Jun 2008
1107081	KARYATES ENTERPRISE PTY LIMITED	108 DEEPFIELDS ROAD, CATHERINE FIELD, NSW 2171	s.58 Licence Variation	Issued	19 Oct 2009
1504624	KARYATES ENTERPRISE PTY LIMITED	108 DEEPFIELDS ROAD, CATHERINE FIELD, NSW 2171	s.58 Licence Variation	Issued	29 Mar 2012
1617	THE RUGBY LEAGUE COUNTRY CLUB LTD	810 CAMDEN VALLEY WAY, CATHERINE FIELD, NSW 2171	POEO licence	Surrendered	16 Jun 2001
1525367	THE RUGBY LEAGUE COUNTRY CLUB LTD	810 CAMDEN VALLEY WAY, CATHERINE FIELD, NSW 2171	s.80 Surrender of a Licence	Issued	02 Oct 2014
1573969	WALTER DAILEY	445 Catherine Field Rd, CATHERINE FIELD, NSW 2557	s.91 Clean Up Notice	Issued	20 Dec 2018

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Background

A strategy to systematically prioritise, assess and respond to notifications under Section 60 of the *Contaminated Land Management Act 1997* (CLM Act) has been developed by the EPA. This strategy acknowledges the EPA's obligations to make information available to the public under *Government Information (Public Access) Act 2009*.

When a site is notified to the EPA, it may be accompanied by detailed site reports where the owner has been proactive in addressing the contamination and its source. However, often there is minimal information on the nature or extent of the contamination.

After receiving a report, the first step is to confirm that the report does not relate to a pollution incident. The Protection of the Environment Operations Act 1997 (POEO Act) deals with pollution incidents, waste stockpiling or dumping. The EPA also has an incident management process to manage significant incidents (<https://www.epa.nsw.gov.au/reporting-and-incidents/incident-management>).

In many cases, the information indicates the contamination is securely immobilised within the site, such as under a building or carpark, and is not currently causing any significant risks for the community or environment. Such sites may still need to be cleaned up, but this can be done in conjunction with any subsequent building or redevelopment of the land. These sites do not require intervention under the CLM Act, and are dealt with through the planning and development consent process. In these cases, the EPA informs the local council or other planning authority, so that the information can be recorded and considered at the appropriate time (<https://www.epa.nsw.gov.au/your-environment/contaminated-land/managing-contaminated-land/role-of-planning-authorities>).

Where indications are that the contamination could cause actual harm to the environment or an unacceptable offsite impact (i.e. the land is 'significantly contaminated'), the EPA would apply the regulatory provisions of the CLM Act to have the responsible polluter and/or landowner investigate and remediate the site. If the reported contamination could present an immediate or long-term threat to human health NSW Health will be consulted. SafeWork NSW and Water NSW can also be consulted if there appear to be occupational health and safety risks or an impact on groundwater quality.

As such, the sites notified to the EPA and presented in the list of contaminated sites notified to the EPA are at various stages of the assessment and remediation process. Understanding the nature of the underlying contamination, its implications and implementing a remediation program where required, can take a considerable period of time. The list provides an indication, in relation to each nominated site, as to the management status of that particular site. Further detailed information may be available from the EPA or the person who notified the site.

The following questions and answers may assist those interested in this issue.

Frequently asked questions

Why does my land appear on the list of notified sites?

Your land may appear on the list because:

- the site owner and/or the polluter has notified the EPA under section 60 of the CLM Act
- the EPA has been notified via other means and is satisfied that the site is or was contaminated.

If a site is on the list, it does not necessarily mean the contamination is significant enough to regulate under the CLM Act.

Does the list contain all contaminated sites in NSW?

No. The list only contains contaminated sites that EPA is aware of. If a site is not on the list, it does not necessarily mean the site is not contaminated.

The EPA relies on responsible parties and the public to notify contaminated sites.

How are notified contaminated sites managed by the EPA?

There are different ways the EPA can manage notified contaminated sites. Options include:

- regulation under the CLM Act, POEO Act, or both
- notifying the relevant planning authority for management under the planning and development process
- managing the site under the Protection of the Environment Operation (Underground Petroleum Storage Systems) Regulation 2014.

There are specific cases where contamination is managed under a tailored program operated by another agency (for example, the Resources & Geoscience's Legacy Mines Program).

What should I do if I am a potential buyer of a site that appears on the list?

You should seek advice from the seller to understand the contamination issue. You may need to seek independent contamination or legal advice.

The information provided in the list is indicative only and a starting point for your own assessment. Land contamination from past site uses is common, mainly in urban environments. If the site is properly remediated or managed, it may not affect the intended future use of the site.

Who can I contact if I need more information about a site?

You can contact the Environment Line at any time by calling 131 555 or by emailing info@environment.nsw.gov.au.

List of NSW Contaminated Sites Notified to the EPA

Disclaimer

The EPA has taken all reasonable care to ensure that the information in the list of contaminated sites notified to the EPA (the list) is complete and correct. The EPA does not, however, warrant or represent that the list is free from errors or omissions or that it is exhaustive.

The EPA may, without notice, change any or all of the information in the list at any time.

You should obtain independent advice before you make any decision based on the information in the list.

The list is made available on the understanding that the EPA, its servants and agents, to the extent permitted by law, accept no responsibility for any damage, cost, loss or expense incurred by you as a result of:

1. any information in the list; or
2. any error, omission or misrepresentation in the list; or
3. any malfunction or failure to function of the list;
4. without limiting (2) or (3) above, any delay, failure or error in recording, displaying or updating information.

Site Status	Explanation
Under assessment	The contamination is being assessed by the EPA to determine whether regulation is required. The EPA may require further information to complete the assessment. For example, the completion of management actions regulated under the planning process or <i>Protection of the Environment Operations Act 1997</i> .
Under Preliminary Investigation Order	The EPA has issued a Preliminary Investigation Order under s10 of the <i>Contaminated Land Management Act 1997</i> , to obtain additional information needed to complete the assessment.
Regulation under CLM Act not required	The EPA has completed an assessment of the contamination and decided that regulation under the <i>Contaminated Land Management Act 1997</i> is not required.

Regulation being finalised	The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation under the <i>Contaminated Land Management Act 1997</i> . A regulatory approach is being finalised.
Contamination currently regulated under CLM Act	The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation under the Contaminated Land Management Act 1997 (CLM Act). Management of the contamination is regulated by the EPA under the CLM Act. Regulatory notices are available on the EPA's Contaminated Land Public Record.
Contamination currently regulated under POEO Act	Contamination is currently regulated under the Protection of the Environment Operations Act 1997 (POEO Act). The EPA as the appropriate regulatory authority reasonably suspects that a pollution incident is occurring/ has occurred and that it requires regulation under the POEO Act. The EPA may use environment protection notices, such as clean up notices, to require clean up action to be taken. Such regulatory notices are available on the POEO public register.
Contamination being managed via the planning process (EP&A Act)	The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation. The contamination of this site is managed by the consent authority under the <i>Environmental Planning and Assessment Act 1979</i> (EP&A Act) planning approval process, with EPA involvement as necessary to ensure significant contamination is adequately addressed. The consent authority is typically a local council or the Department of Planning and Environment.
Contamination formerly regulated under the CLM Act	The EPA has determined that the contamination is no longer significant enough to warrant regulation under the <i>Contaminated Land Management Act 1997</i> (CLM Act). The contamination was addressed under the CLM Act.
Contamination formerly regulated under the POEO Act	The EPA has determined that the contamination is no longer significant enough to warrant regulation. The contamination was addressed under the <i>Protection of the Environment Operations Act 1997</i> (POEO Act).

Contamination was addressed via the planning process (EP&A Act)	The EPA has determined that the contamination is no longer significant enough to warrant regulation. The contamination was addressed by the appropriate consent authority via the planning process under the <i>Environmental Planning and Assessment Act 1979</i> (EP&A Act).
Ongoing maintenance required to manage residual contamination (CLM Act)	The EPA has determined that ongoing maintenance, under the Contaminated Land Management Act 1997 (CLM Act), is required to manage the residual contamination. Regulatory notices under the CLM Act are available on the EPA's Contaminated Land Public Record.

Background

A strategy to systematically prioritise, assess and respond to notifications under Section 60 of the *Contaminated Land Management Act 1997* (CLM Act) has been developed by the EPA. This strategy acknowledges the EPA's obligations to make information available to the public under *Government Information (Public Access) Act 2009*.

When a site is notified to the EPA, it may be accompanied by detailed site reports where the owner has been proactive in addressing the contamination and its source. However, often there is minimal information on the nature or extent of the contamination.

After receiving a report, the first step is to confirm that the report does not relate to a pollution incident. The Protection of the Environment Operations Act 1997 (POEO Act) deals with pollution incidents, waste stockpiling or dumping. The EPA also has an incident management process to manage significant incidents (<https://www.epa.nsw.gov.au/reporting-and-incidents/incident-management>).

In many cases, the information indicates the contamination is securely immobilised within the site, such as under a building or carpark, and is not currently causing any significant risks for the community or environment. Such sites may still need to be cleaned up, but this can be done in conjunction with any subsequent building or redevelopment of the land. These sites do not require intervention under the CLM Act, and are dealt with through the planning and development consent process. In these cases, the EPA informs the local council or other planning authority, so that the information can be recorded and considered at the appropriate time (<https://www.epa.nsw.gov.au/your-environment/contaminated-land/managing-contaminated-land/role-of-planning-authorities>).

Where indications are that the contamination could cause actual harm to the environment or an unacceptable offsite impact (i.e. the land is 'significantly contaminated'), the EPA would apply the regulatory provisions of the CLM Act to have the responsible polluter and/or landowner investigate and remediate the site. If the reported contamination could present an immediate or long-term threat to human health NSW Health will be consulted. SafeWork NSW and Water NSW can also be consulted if there appear to be occupational health and safety risks or an impact on groundwater quality.

As such, the sites notified to the EPA and presented in the list of contaminated sites notified to the EPA are at various stages of the assessment and remediation process. Understanding the nature of the underlying contamination, its implications and implementing a remediation program where required, can take a considerable period of time. The list provides an indication, in relation to each nominated site, as to the management status of that particular site. Further detailed information may be available from the EPA or the person who notified the site.

The following questions and answers may assist those interested in this issue.

Frequently asked questions

Why does my land appear on the list of notified sites?

Your land may appear on the list because:

- the site owner and/or the polluter has notified the EPA under section 60 of the CLM Act
- the EPA has been notified via other means and is satisfied that the site is or was contaminated.

If a site is on the list, it does not necessarily mean the contamination is significant enough to regulate under the CLM Act.

Does the list contain all contaminated sites in NSW?

No. The list only contains contaminated sites that EPA is aware of. If a site is not on the list, it does not necessarily mean the site is not contaminated.

The EPA relies on responsible parties and the public to notify contaminated sites.

How are notified contaminated sites managed by the EPA?

There are different ways the EPA can manage notified contaminated sites. Options include:

- regulation under the CLM Act, POEO Act, or both
- notifying the relevant planning authority for management under the planning and development process
- managing the site under the Protection of the Environment Operation (Underground Petroleum Storage Systems) Regulation 2014.

There are specific cases where contamination is managed under a tailored program operated by another agency (for example, the Resources & Geoscience's Legacy Mines Program).

What should I do if I am a potential buyer of a site that appears on the list?

You should seek advice from the seller to understand the contamination issue. You may need to seek independent contamination or legal advice.

The information provided in the list is indicative only and a starting point for your own assessment. Land contamination from past site uses is common, mainly in urban environments. If the site is properly remediated or managed, it may not affect the intended future use of the site.

Who can I contact if I need more information about a site?

You can contact the Environment Line at any time by calling 131 555 or by emailing info@environment.nsw.gov.au.

List of NSW Contaminated Sites Notified to the EPA

Disclaimer

The EPA has taken all reasonable care to ensure that the information in the list of contaminated sites notified to the EPA (the list) is complete and correct. The EPA does not, however, warrant or represent that the list is free from errors or omissions or that it is exhaustive.

The EPA may, without notice, change any or all of the information in the list at any time.

You should obtain independent advice before you make any decision based on the information in the list.

The list is made available on the understanding that the EPA, its servants and agents, to the extent permitted by law, accept no responsibility for any damage, cost, loss or expense incurred by you as a result of:

1. any information in the list; or
2. any error, omission or misrepresentation in the list; or
3. any malfunction or failure to function of the list;
4. without limiting (2) or (3) above, any delay, failure or error in recording, displaying or updating information.

Site Status	Explanation
Under assessment	The contamination is being assessed by the EPA to determine whether regulation is required. The EPA may require further information to complete the assessment. For example, the completion of management actions regulated under the planning process or <i>Protection of the Environment Operations Act 1997</i> .
Under Preliminary Investigation Order	The EPA has issued a Preliminary Investigation Order under s10 of the <i>Contaminated Land Management Act 1997</i> , to obtain additional information needed to complete the assessment.
Regulation under CLM Act not required	The EPA has completed an assessment of the contamination and decided that regulation under the <i>Contaminated Land Management Act 1997</i> is not required.

Regulation being finalised	The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation under the <i>Contaminated Land Management Act 1997</i> . A regulatory approach is being finalised.
Contamination currently regulated under CLM Act	The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation under the Contaminated Land Management Act 1997 (CLM Act). Management of the contamination is regulated by the EPA under the CLM Act. Regulatory notices are available on the EPA's Contaminated Land Public Record.
Contamination currently regulated under POEO Act	Contamination is currently regulated under the Protection of the Environment Operations Act 1997 (POEO Act). The EPA as the appropriate regulatory authority reasonably suspects that a pollution incident is occurring/ has occurred and that it requires regulation under the POEO Act. The EPA may use environment protection notices, such as clean up notices, to require clean up action to be taken. Such regulatory notices are available on the POEO public register.
Contamination being managed via the planning process (EP&A Act)	The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation. The contamination of this site is managed by the consent authority under the <i>Environmental Planning and Assessment Act 1979</i> (EP&A Act) planning approval process, with EPA involvement as necessary to ensure significant contamination is adequately addressed. The consent authority is typically a local council or the Department of Planning and Environment.
Contamination formerly regulated under the CLM Act	The EPA has determined that the contamination is no longer significant enough to warrant regulation under the <i>Contaminated Land Management Act 1997</i> (CLM Act). The contamination was addressed under the CLM Act.
Contamination formerly regulated under the POEO Act	The EPA has determined that the contamination is no longer significant enough to warrant regulation. The contamination was addressed under the <i>Protection of the Environment Operations Act 1997</i> (POEO Act).

Contamination was addressed via the planning process (EP&A Act)	The EPA has determined that the contamination is no longer significant enough to warrant regulation. The contamination was addressed by the appropriate consent authority via the planning process under the <i>Environmental Planning and Assessment Act 1979</i> (EP&A Act).
Ongoing maintenance required to manage residual contamination (CLM Act)	The EPA has determined that ongoing maintenance, under the Contaminated Land Management Act 1997 (CLM Act), is required to manage the residual contamination. Regulatory notices under the CLM Act are available on the EPA's Contaminated Land Public Record.

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
ABBOTSFORD	Former Gasworks	83 Wymston PARADE	Gasworks	Contamination formerly regulated under	-33.85288351	151.1265979
ABBOTSFORD	Former Gasworks	82, 83, 84 Wymston Pde, & 37, 39, 43, 45	Gasworks	Contamination formerly regulated under	-33.85288316	151.1267729
ABBOTSFORD	Former Gasworks	85 Wymston PARADE	Gasworks	Regulation under CLM Act not required	-33.85265214	151.1266277
ABBOTSFORD	Former Gasworks	80-81 Wymston Pde and 35 and 41 St Alb	Gasworks	Regulation under CLM Act not required	-33.85306653	151.1268142
ABBOTSFORD	Former Gasworks	43 St Albans STREET	Gasworks	Contamination formerly regulated under	-33.85270604	151.126976
ABERDEEN	Former Transport Depot	87-89 St Andrew STREET	Other Industry	Regulation under CLM Act not required	-32.17160931	150.8972859
ALBION PARK	Caltex Albion Park Service Station	1 Calderwood ROAD	Service Station	Regulation under CLM Act not required	-34.57131362	150.7647971
ALBION PARK RAIL	Caltex Service Station	174 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-34.56134097	150.7953663
ALBION PARK RAIL	Caltex Service Station	31 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-34.55162786	150.7880626
ALBION PARK RAIL	Former Timber Storage Area	36 Rivulet CRESCENT	Other Industry	Regulation under CLM Act not required	-34.54872597	150.7899351
ALBURY	Mobil Depot, Railway Place Albury	1 Railway PLACE	Other Petroleum	Regulation under CLM Act not required	-36.08526805	146.9236999
ALBURY	Woolworths Petrol	515 Young STREET	Service Station	Regulation under CLM Act not required	-36.08073723	146.92351
ALBURY	Former Caltex Service Station	842 David STREET	Service Station	Regulation under CLM Act not required	-36.06398743	146.9252143
ALBURY	SRA Land, 514 to 526 Young Street	514 to 526 Young STREET	Other Petroleum	Regulation under CLM Act not required	-36.08084123	146.9241682
ALBURY	Former Gasworks and surrounding comm	441 Kiewa STREET	Gasworks	Contamination currently regulated under	-36.08416926	146.9137704
ALBURY	Coles Express Albury	465 Guinea STREET	Service Station	Regulation under CLM Act not required	-36.07513665	146.9213077

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
ALBURY	Former Thales Australia site, Albury	161 Fallon STREET	Other Industry	Contamination formerly regulated under	-36.064966	146.9434831
ALBURY	Xpress Service Station	616-624 Young STREET	Service Station	Contamination formerly regulated under	-36.07555262	146.9256466
ALBURY	Albury Plaza	Cnr Smollett Street and Townsend STREET	Other Industry	Regulation under CLM Act not required	-36.08112933	146.9135719
ALBURY	Mobil Albury Aviation Fuel Depot	Hangar 8 (Albury Airport), Ogden PLACE	Other Petroleum	Regulation under CLM Act not required	-36.07178139	146.9530165
ALBURY	SRA Land	448 and 452 Young STREET	Unclassified	Regulation under CLM Act not required	-36.08438605	146.9235454
ALBURY	Caltex Service Station	Dean Street, Corner Creek STREET	Service Station	Regulation under CLM Act not required	-36.07978937	146.9110825
ALEXANDRIA	Former Mobil Service Station	20 O'Riordan STREET	Service Station	Regulation under CLM Act not required	-33.9075539	151.2014811
ALEXANDRIA	Caltex Alexandria Service Station	133 Wyndham St, cnr McEvoy STREET	Service Station	Regulation under CLM Act not required	-33.90220927	151.2000425
ALEXANDRIA	Former Cadbury Schweppes	49-59 O'Riordan STREET	Other Industry	Contamination formerly regulated under	-33.91406619	151.195067
ALEXANDRIA	Formerly Gas N Go Alexandria (fully redeve	10-20 Botany ROAD	Service Station	Regulation under CLM Act not required	-33.89536227	151.1987818
ALEXANDRIA	Mascot Developments	494-504 Gardeners ROAD	Other Industry	Regulation under CLM Act not required	-33.9198218	151.191282
ALEXANDRIA	Alexandria GoGas	562 Botany ROAD	Service Station	Regulation under CLM Act not required	-33.91577222	151.2000753
ALEXANDRIA	Australian Refined Alloys	202-212 Euston ROAD	Metal Industry	Regulation under CLM Act not required	-33.91505136	151.185872
ALEXANDRIA	Alexandra Canal Sediments	Off Huntley STREET	Other Industry	Contamination currently regulated under	-33.92204213	151.1770009
ALEXANDRIA	Australia Post	10-24 Ralph STREET	Other Industry	Contamination was addressed via the pla	-33.91583041	151.197997
ALEXANDRIA	Perry Park	1B Maddox STREET	Landfill	Regulation under CLM Act not required	-33.90809949	151.1962945

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
ALEXANDRIA	Alexandria Gardens	146-156 Wyndham Street & 146-156 Bot	Unclassified	Regulation under CLM Act not required	-33.89956961	151.1997377
ALEXANDRIA	Sydney Park	Sydney Park ROAD	Landfill	Contamination currently regulated under	-33.91031048	151.1844672
ALEXANDRIA	Former Industrial Site (now Value Suites)	16 O'Riordan STREET	Other Industry	Regulation under CLM Act not required	-33.9069796	151.201902
ALEXANDRIA	205-225 Euston Road, Alexandria	205-225 Euston ROAD	Other Industry	Regulation under CLM Act not required	-33.912258	151.185878
ALEXANDRIA	The Gentry Alexandria	31-41 William STREET	Unclassified	Regulation under CLM Act not required	-33.91258565	151.1981861
ALSTONVILLE	Caltex Service Station Alstonville	73 Main STREET	Service Station	Regulation under CLM Act not required	-28.84115994	153.4388699
AMBARVALE	Caltex Service Station	37 Woodhouse DRIVE	Service Station	Regulation under CLM Act not required	-34.08438034	150.8019168
ANNANDALE	7-Eleven (former Mobil) Annandale Servi	198 Parramatta ROAD	Service Station	Regulation under CLM Act not required	-33.88706434	151.1741135
ANNANDALE	Shell Coles Express Service Station	124-126 Johnston STREET	Service Station	Regulation under CLM Act not required	-33.88085651	151.1704805
APPIN	Elladale Creek Aqueduct Upper Canal	Macquariedale ROAD	Unclassified	Regulation under CLM Act not required	-34.18867067	150.7539597
APPIN	West Cliff Colliery	Wedderburn ROAD	Other Petroleum	Regulation under CLM Act not required	-34.21970612	150.8217522
ARDLETHAN	Landmark Fertiliser Storage Facility	18 & 24-26 Ariah STREET	Chemical Industry	Regulation under CLM Act not required	-34.35696645	146.9007084
ARGENTON	NSW Mines Rescue Services - Argenton	533 Lake ROAD	Other Industry	Regulation under CLM Act not required	-32.93807208	151.6269664
ARMIDALE	Former Mobil Depot	132 Niagara STREET	Other Petroleum	Contamination formerly regulated under	-30.51115918	151.6490343
ARMIDALE	Caltex Service Station	146 Miller STREET	Service Station	Regulation under CLM Act not required	-30.51362759	151.6481123
ARMIDALE	RTA land adjoining Martin Street estate	Martin STREET	Other Industry	Contamination formerly regulated under	-30.5045	151.6433

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
ARMIDALE	Shell Service Station	93 Marsh STREET	Service Station	Regulation under CLM Act not required	-30.51299824	151.6697557
ARMIDALE	Parklands near the former gasworks	Beardy Street and Allingham STREET	Gasworks	Regulation under CLM Act not required	-30.51013465	151.6652722
ARMIDALE	Gasworks and portion of Harris Park	Corner of Beardy Street and Allingham ST	Gasworks	Contamination currently regulated under	-30.51157374	151.6623009
ARMIDALE	Former Lot 3 Martin Street	89 Martin STREET	Other Industry	Regulation under CLM Act not required	-30.50675009	151.6453558
ARMIDALE	Martin Street Estate	Martin STREET	Other Industry	Regulation under CLM Act not required	-30.50559024	151.6431854
ARMIDALE	Caltex Armidale Girraween Service Station	6-8 Queen Elizabeth DRIVE	Service Station	Regulation under CLM Act not required	-30.50348872	151.6510748
ARMIDALE	Martin Street, Crown Land	Martin STREET	Other Industry	Contamination formerly regulated under	-30.50414076	151.6429516
ARMIDALE	Former Shell Depot	134 Niagara STREET	Other Petroleum	Regulation under CLM Act not required	-30.51180178	151.6488634
ARMIDALE	Caltex Service Station	144 Marsh STREET	Service Station	Regulation under CLM Act not required	-30.51709925	151.6675802
ARMIDALE	Caltex North Hill Service Station	2-4 Marsh STREET	Service Station	Regulation under CLM Act not required	-30.50320439	151.6727051
ARMIDALE	Mobil Armidale Service Station and Form	10-12 McLennan STREET	Service Station	Regulation under CLM Act not required	-30.51107573	151.648242
ARMIDALE	Caltex Service Station	19/10541 New England HIGHWAY	Service Station	Regulation under CLM Act not required	-30.53210764	151.6160492
ARMIDALE	Armidale Dumaresq Council Grafton Road	15-25 Grafton ROAD	Other Petroleum	Regulation under CLM Act not required	-30.52058076	151.6815261
ARNCLIFFE	7-Eleven Arncliffe	28 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-33.93428397	151.1525438
ARNCLIFFE	Combined Projects Arncliffe	104-128 Princes HIGHWAY	Other Industry	Regulation under CLM Act not required	-33.93783874	151.1494559
ARTARMON	7-Eleven (former Mobil) Artarmon Service	477 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.81053826	151.1774248

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
ASHBY	Ashby Dry Dock	via Clarence STREET	Other Industry	Contamination formerly regulated under	-29.44158377	153.1972304
ASHFIELD	7-Eleven Ashfield	132 Liverpool Road STREET	Service Station	Under assessment	-33.8902785	151.1297902
ASHFIELD	Vehicle Workshop	445-449 Liverpool ROAD	Service Station	Regulation under CLM Act not required	-33.88826829	151.1167477
ASQUITH	BP Service Station	462 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.68982678	151.106156
ATTUNGA	Attunga Limestone Mine (Waste Oil Site)	Garthowen ROAD	Other Industry	Regulation under CLM Act not required	-30.92920627	150.8579435
AUBURN	DIC Australia	323 Chisholm ROAD	Other Industry	Regulation under CLM Act not required	-33.87228962	151.0157032
AUBURN	Former Ajax Chemical Factory	9 Short STREET	Other Industry	Contamination formerly regulated under	-33.83671601	151.0292071
AUBURN	Janyon	Manchester ROAD	Other Industry	Regulation under CLM Act not required	-33.84467826	151.020745
AUBURN	Maintrain Facility - Sydney Trains Auburn	Manchester ROAD	Other Industry	Regulation under CLM Act not required	-33.84410947	151.0242502
AUBURN	Department of Corrective Services land a	Jamieson STREET	Landfill	Contamination formerly regulated under	-33.82928257	151.0590653
AUBURN	Commercial Premises	11-13 Percy STREET	Other Industry	Under assessment	-33.849939	151.040642
AWABA	Awaba Colliery	Wilton ROAD	Other Industry	Regulation under CLM Act not required	-33.02098186	151.5383612
BALGOWLAH	BP Service Station	Cnr Sydney Road and Maretimo STREET	Service Station	Regulation under CLM Act not required	-33.79546175	151.2559309
BALGOWLAH	Part of Manly Council Maintenance Depo	8-10 Roseberry STREET	Other Petroleum	Regulation under CLM Act not required	-33.78928907	151.2679557
BALGOWNIE	Fuel Power Plus	99 Balgownie ROAD	Service Station	Contamination currently regulated under	-34.38925632	150.8808544
BALLINA	Former Mobil Service Station	37-41 Cherry STREET	Service Station	Regulation under CLM Act not required	-28.86952673	153.5624436

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
BALLINA	Ballina Shell	273 River STREET	Service Station	Regulation under CLM Act not required	-28.86809272	153.5552789
BALLINA	Woolworths Petrol	Kerr STREET	Service Station	Regulation under CLM Act not required	-28.85824461	153.5605439
BALLINA	Ballina Mays Motors	River STREET	Other Petroleum	Regulation under CLM Act not required	-28.86935402	153.5585931
BALRANALD	Caltex Service Station	Sturt HIGHWAY	Service Station	Regulation under CLM Act not required	-34.66747746	143.5662034
BANKSIA	Woolworths Petrol Service Station Banksi	314 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-33.94567308	151.1416884
BANKSIA	Cooks Cove Development	Cooks Cove PARK	Landfill	Regulation under CLM Act not required	-33.94492759	151.1549947
BANKSMEADOW	Orica Botany Groundwater Project	16-20 Beauchamp ROAD	Chemical Industry	Contamination currently regulated under	-33.95526361	151.2152005
BANKSMEADOW	Discovery Cove, Former Ampol Rail Termi	1801 Botany ROAD	Other Petroleum	Regulation being finalised	-33.96162178	151.2184122
BANKSMEADOW	Caltex Terminal	1-3 Penrhyn ROAD	Other Petroleum	Contamination currently regulated under	-33.96335328	151.2171062
BANKSMEADOW	Orica Botany (Pre-2003 Regulation)	Denison STREET	Chemical Industry	Contamination currently regulated under	-33.9516159	151.2195804
BANKSMEADOW	Veolia Waste Transfer Terminal (former K	34-36 McPherson STREET	Other Industry	Regulation under CLM Act not required	-33.95811039	151.2195225
BANKSMEADOW	Orica Former Chlor Alkali Plant (same site	Botany Industrial Park, off Denison STREE	Chemical Industry	Contamination currently regulated under	-33.95664283	151.221685
BANKSMEADOW	Former Pipeline	Corish CIRCLE	Other Petroleum	Regulation being finalised	-33.94705787	151.2209919
BANKSMEADOW	Pacific National Rail Siding	1 Beauchamp ROAD	Chemical Industry	Contamination currently regulated under	-33.95757712	151.2204974
BANKSMEADOW	Former Mobil Banksmeadow Terminal	Coal Pier ROAD	Other Petroleum	Regulation under CLM Act not required	-33.95405624	151.2142048
BANKSMEADOW	Orica Car Park Waste Encapsulation	Corish CIRCLE	Landfill	Contamination formerly regulated under	-33.94703665	151.22083

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
BANKSTOWN	7-Eleven Service Station	689 Henry Lawson DRIVE	Service Station	Regulation under CLM Act not required	-33.92749953	150.9804784
BANORA POINT	Caltex Service Station	Corner Leisure Drive and Darlington DRIV	Service Station	Regulation under CLM Act not required	-28.21390712	153.5417434
BARGO	Tahmoor Colliery	Remembrance DRIVE	Other Industry	Regulation under CLM Act not required	-34.25090795	150.5793631
BARMEDMAN	Caltex - Barmedman	Corner Watson Street and Star STREET	Other Petroleum	Regulation under CLM Act not required	-34.14351302	147.3824934
BARRACK HEIGHTS	Caltex Service Station	332-336 Shellharbour ROAD	Service Station	Regulation under CLM Act not required	-34.56489171	150.8597814
BASS HILL	Woolworths Caltex Bass Hill	862 Hume HIGHWAY	Service Station	Under preliminary investigation order	-33.9008648	150.9991181
BATEAU BAY	Former landfill	The Entrance ROAD	Landfill	Contamination currently regulated under	-33.3938305	151.4699046
BATEAU BAY	Woolworths Service Station Bateau Bay	9 Bay Village ROAD	Service Station	Regulation under CLM Act not required	-33.37316432	151.4737125
BATEHAVEN	Caltex Service Station	264 Beach ROAD	Service Station	Regulation under CLM Act not required	-35.73255166	150.1997536
BATEHAVEN	Coles Express Service Station Batehaven	198 Beach ROAD	Service Station	Regulation under CLM Act not required	-35.72671807	150.1944931
BATEMANS BAY	Caltex Service Station	87-89 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-35.71940701	150.1762788
BATHURST	Shell Coles Express Service Station	(Cnr Stewart and Rocket Street) 298 Stew	Service Station	Regulation under CLM Act not required	-33.41910999	149.5677773
BATHURST	Former Shell Depot Bathurst	56 Bant STREET	Other Petroleum	Regulation under CLM Act not required	-33.43471575	149.5774595
BATHURST	Bathurst Rail Fabrication Centre	34 Alpha STREET	Other Industry	Regulation under CLM Act not required	-33.42805153	149.5829156
BATHURST	Bathurst - Former Caltex Depot	114 Howick STREET	Other Petroleum	Regulation under CLM Act not required	-33.42296963	149.5862574
BATHURST	Caltex Bathurst Service Station	53 Durham STREET	Service Station	Regulation under CLM Act not required	-33.41689545	149.5848527

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
BATHURST	Former Police Station	Corner of William Street and Durham STR	Other Petroleum	Contamination formerly regulated under	-33.41592424	149.5842233
BATHURST	Former Mobil Depot	1 Lambert STREET	Other Petroleum	Regulation under CLM Act not required	-33.42875534	149.5806344
BATHURST	Crago Mill site	Piper STREET	Other Industry	Regulation under CLM Act not required	-33.42777602	149.5809428
BATHURST	Former Mobil Depot	Lower Russell STREET	Other Petroleum	Regulation under CLM Act not required	-33.42497876	149.585128
BATHURST	Shell Coles Express Bathurst Service Stati	59 Durham STREET	Service Station	Regulation under CLM Act not required	-33.41639415	149.5843243
BATHURST	Former Gasworks	71 Russell STREET	Gasworks	Contamination formerly regulated under	-33.42420302	149.5864517
BATHURST	Former Devro Cattle Hide Processing Plan	46 Vale ROAD	Other Industry	Regulation under CLM Act not required	-33.43926137	149.5803563
BATLOW	Crown Reserves	Mill ROAD	Other Industry	Under assessment	-35.529397	148.154051
BAULKHAM HILLS	Caltex Baulkham Hills Service Station	117 Seven Hills ROAD	Service Station	Regulation under CLM Act not required	-33.76139872	150.9750767
BAULKHAM HILLS	Caltex Service Station	130 Seven Hills ROAD	Service Station	Regulation under CLM Act not required	-33.76180431	150.9746297
BAULKHAM HILLS	Shell Coles Express Service Station	363 Windsor ROAD	Service Station	Regulation under CLM Act not required	-33.7601819	150.9916224
BAULKHAM HILLS	IBM Baulkham Hills Data Centre	3 Brookhollow AVENUE	Other Petroleum	Regulation under CLM Act not required	-33.733008	150.971079
BEACON HILL	Caltex Service Station	176 Warringah ROAD	Service Station	Contamination currently regulated under	-33.75381485	151.2602617
BEACON HILL	Former 7-Eleven Service Station, Beacon	312 Warringah ROAD	Service Station	Regulation under CLM Act not required	-33.75129647	151.2469656
BEACONSFIELD	63-85 Victoria St, Beaconsfield	63-85 Victoria STREET	Other Industry	Regulation under CLM Act not required	-33.9102929	151.2016275
BEGA	Coles Express (former Caltex) Service Stat	2-6 Swan (Corner Carp) STREET	Service Station	Regulation under CLM Act not required	-36.67388263	149.838163

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
BEGA	Former BP Service Station	100 - 102 Gipps STREET	Service Station	Regulation under CLM Act not required	-36.67563094	149.8433291
BEGA	Former Bega Gasworks	19-29 Upper STREET	Gasworks	Under preliminary investigation order	-36.67710613	149.8480253
BEGA	Caltex Service Station	36-40 Lagoon STREET	Service Station	Regulation under CLM Act not required	-36.66832965	149.8289048
BEGA	Lands Adjoining the Former Bega Gaswor	Part of Upper, East, Gordon & Gloucester	Gasworks	Under preliminary investigation order	-36.67704706	149.848425
BEGA	Spenco Site - owned by Bega Spotlight Pr	53-65 Bega Street STREET	Other Industry	Regulation under CLM Act not required	-36.67135539	149.8450828
BELMONT	Coles Express Belmont Service Station	502 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.03317155	151.6605194
BELMONT	Former Ampol Service Station	467-469 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.0299728	151.6613301
BELMONT NORTH	Woolworths Service Station Belmont Nor	399 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.02454211	151.6634893
BELMONT NORTH	Caltex Belmont North Service Station	406 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.02476876	151.6623655
BELMONT NORTH	Belmont Bus Depot	2 Floraville ROAD	Other Petroleum	Regulation under CLM Act not required	-33.02476269	151.6606657
BELMORE	SRA Land	348 Burwood ROAD	Unclassified	Regulation under CLM Act not required	-33.91753611	151.0859487
BELMORE	7-Eleven Service Station	792-794 Canterbury ROAD	Service Station	Regulation under CLM Act not required	-33.92567992	151.0873469
BELROSE	Glenrose Shopping Centre	56-58 Glen STREET	Unclassified	Contamination currently regulated under	-33.73917996	151.2101029
BELROSE	Woolworths Petrol	60 Glen STREET	Service Station	Regulation under CLM Act not required	-33.74009002	151.2091045
BELROSE	Caltex Service Station	157 Forest WAY	Service Station	Regulation under CLM Act not required	-33.7347675	151.2212004
BENNETTS GREEN	Former Windale Wastewater Treatment	8 Templar PLACE	Other Industry	Regulation under CLM Act not required	-33.00317523	151.6936636

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
BERESFIELD	BP Beresfield Truckstop	2 Kinta Drive, corner John Renshaw DRIVE	Service Station	Regulation under CLM Act not required	-32.81122768	151.6393427
BERESFIELD	Former Koppers Timber Treatment Site	53 Weakleys DRIVE	Other Industry	Regulation under CLM Act not required	-32.79902937	151.6358846
BERKELEY VALE	Former Berkeley Vale Service Station	121-123 Lakedge AVENUE	Service Station	Regulation under CLM Act not required	-33.34899186	151.4423109
BERKSHIRE PARK	Shell Coles Express Berkshire Park	746 - 752 Richmond ROAD	Service Station	Regulation under CLM Act not required	-33.66508654	150.7990243
BEROWRA	Caltex Berowra Service Station	12-14 Berowra Waters ROAD	Service Station	Regulation under CLM Act not required	-33.6233827	151.1505554
BEROWRA	7-Eleven Berowra Service Station	965-969 Pacific (Cnr Waratah Rd) HIGHWAY	Service Station	Regulation under CLM Act not required	-33.62673163	151.1479171
BEROWRA	Shell Coles Express Berowra	955 Pacific (Cnr Yallambee Rd) HIGHWAY	Service Station	Regulation under CLM Act not required	-33.62818015	151.1475736
BEROWRA	42 Berowra Waters Road	42 Berowra Waters ROAD	Unclassified	Regulation under CLM Act not required	-33.6203823	151.1481246
BERRIGAN	Caltex Service Station Berrigan	155-165 Chanter STREET	Service Station	Regulation under CLM Act not required	-35.6557616	145.8015557
BERRY	Berry Service Centre - Shell Branded	88 Queen STREET	Service Station	Regulation under CLM Act not required	-34.77571634	150.6961713
BERRY	BP branded service station Berry (Former	75 Queen STREET	Service Station	Contamination currently regulated under	-34.77500516	150.695167
BEXLEY	7-Eleven Bexley	474 Forest ROAD	Service Station	Regulation under CLM Act not required	-33.95160096	151.1252355
BEXLEY	7-Eleven (former Mobil) Service Station B	613 Forest ROAD	Service Station	Regulation under CLM Act not required	-33.95539246	151.118447
BILAMBIL HEIGHTS	Former Banana Plantation Land	38 McAllisters ROAD	Other Industry	Regulation under CLM Act not required	-28.21218056	153.4778762
BILLINUDGEL	CSR Readymix	Mogo PLACE	Other Industry	Regulation under CLM Act not required	-28.50210255	153.5278161
BILLINUDGEL	Billinudgel General Store	2A Wilfred STREET	Service Station	Under assessment	-28.504355	153.527039

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
BLACKMANS FLAT	Mount Piper Extension Development Site	2847 Boulder ROAD	Other Industry	Regulation under CLM Act not required	-33.35619968	150.0279881
BLACKMANS FLAT	Western Coal Services (former Lamberts	Castlereagh HIGHWAY	Other Industry	Regulation under CLM Act not required	-33.36713827	150.0483236
BLACKTOWN	Former Caltex Service Station	131 Richmond ROAD	Service Station	Regulation under CLM Act not required	-33.75866104	150.8962614
BLACKTOWN	Valspar Blacktown	4 Steel STREET	Chemical Industry	Regulation under CLM Act not required	-33.75425018	150.9127714
BLACKTOWN	Harpers Bush (Reserve 752)	Reservoir ROAD	Unclassified	Regulation under CLM Act not required	-33.79119448	150.8967838
BLACKTOWN	7-Eleven Service Station	60 Walters ROAD	Service Station	Regulation under CLM Act not required	-33.77599783	150.8948926
BLAKEHURST	Woolworths Service Station Blakehurst	390 Princes HIGHWAY	Service Station	Contamination currently regulated under	-33.99019694	151.1135663
BLAKEHURST	The Bay Nursing Home	392 & 394 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-33.99030465	151.1140293
BLAXLAND	7-Eleven (former Mobil) Service Station	137 Great Western HIGHWAY	Service Station	Regulation under CLM Act not required	-33.74627	150.6137669
BOAMBEE	Lindsay Bros transport depot site	542 Pacific HIGHWAY	Other Petroleum	Regulation under CLM Act not required	-30.33106848	153.0802985
BOAMBEE	BP-branded (former Mobil) Boambee Ser	601 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-30.33544287	153.0817266
BOBS FARM	Bob's Farm	15 Fenningham Island ROAD	Other Industry	Regulation under CLM Act not required	-32.74867207	152.0316217
BOGGABILLA	Former Caltex Service Station	90 Simpson Street, corner Newell HIGHW	Service Station	Regulation under CLM Act not required	-28.60654029	150.3571056
BOGGABILLA	Lowes (Former Mobil) Depot	Newell HIGHWAY	Other Petroleum	Regulation under CLM Act not required	-28.61023985	150.3529156
BOMADERRY	Caltex Service Station	341 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-34.84561952	150.5946978
BOMADERRY	Caltex Service Station Bomaderry	246 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-34.83833824	150.5958799

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
BOMADERRY	Former Mobil Emoleum Depot	7 Victa WAY	Other Petroleum	Regulation under CLM Act not required	-34.84454618	150.6139462
BOMADERRY	Former Shell Depot	44 Railway STREET	Other Petroleum	Regulation under CLM Act not required	-34.85193621	150.6117038
BOMADERRY	SRA Land	Lot 2 Meroo STREET	Unclassified	Regulation under CLM Act not required	-34.85314813	150.6099573
BOMADERRY	Bomaderry Works Depot	10 McIntyre WAY	Other Petroleum	Regulation under CLM Act not required	-34.84576748	150.6131411
BOMADERRY	Commercial Land	320 Princes HIGHWAY	Other Industry	Contamination currently regulated under	-34.84424073	150.5958149
BOMBALA	Caltex Service Station Bombala	159-161 Maybe STREET	Service Station	Regulation under CLM Act not required	-36.91234945	149.2374622
BOMBALA	Former Bright Street Timber Mill	Bright STREET	Other Industry	Regulation under CLM Act not required	-36.91547645	149.2302454
BOMBALA	Caltex Bombala Service Station	High Street corner Stephen STREET	Service Station	Regulation under CLM Act not required	-36.90447935	149.241292
BOMBALA	Prime Pine site	Sandy LANE	Other Industry	Regulation under CLM Act not required	-36.9315425	149.2110959
BOMEN	Caltex Terminal	34 Lewington STREET	Other Petroleum	Regulation under CLM Act not required	-35.0700202	147.4121955
BOMEN	Enirgi Power Storage Recycling	509 Byrnes ROAD	Other Industry	Under assessment	-35.085202	147.404909
BONDI	BP-branded Service Station	185 Bondi ROAD	Service Station	Regulation under CLM Act not required	-33.89432208	151.2647671
BONDI	Caltex Service Station Bondi	51 Bondi ROAD	Service Station	Regulation under CLM Act not required	-33.8936307	151.260001
BONDI JUNCTION	Waverley Bus Depot	1-15 Oxford STREET	Other Industry	Regulation under CLM Act not required	-33.89165341	151.2421246
BONNY HILLS	Bonny View Store	923 Ocean DRIVE	Service Station	Regulation under CLM Act not required	-31.59075636	152.8392935
BONNYRIGG	Metro (Formerly United & AP SAVER) Ser	709 Cabramatta (W) ROAD	Service Station	Regulation under CLM Act not required	-33.89297085	150.8925935

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
BONNYRIGG HEIGHTS	BP-Branded Service Station Bonnyrigg	451 North Liverpool ROAD	Service Station	Regulation under CLM Act not required	-33.89416327	150.8578378
BOOLAROO	Cardiff West Estate - Pasminco Cockle Creek	Adjacent to PCC Smelter at 13A Main ROAD	Metal Industry	Regulation under CLM Act not required	-32.93950137	151.6349183
BOOLAROO	Cockle Creek and Cockle Bay Sediments	Off Creek Reserve ROAD	Metal Industry	Contamination currently regulated under	-32.96079541	151.6141327
BOOLAROO	Pasminco Cockle Creek Smelter	Lake ROAD	Metal Industry	Ongoing maintenance required to manag	-32.94434593	151.6307345
BOOLAROO	Incitec Pivot	13 Main STREET	Other Industry	Contamination formerly regulated under	-32.94803538	151.6302187
BOOLAROO	Bunnings Site - Pasminco Cockle Creek	13a Main ROAD	Metal Industry	Contamination formerly regulated under	-32.94364503	151.6252316
BOOLAROO	Part Lot 2 DP1127713 (proposed Lot G) -	13a Main ROAD	Metal Industry	Contamination formerly regulated under	-32.94404392	151.6267695
BOOLAROO	Lot 600 DP1228699 (formerly Part Lot 2 D	Main ROAD	Metal Industry	Contamination formerly regulated under	-32.94440875	151.6264143
BOOROWA	Former Mobil Depot	14-16 Brial STREET	Other Petroleum	Regulation under CLM Act not required	-34.43673234	148.7300821
BOOROWA	Mobil Service Station	63-69 Marsden STREET	Service Station	Contamination formerly regulated under	-34.44157331	148.7162391
BOTANY	Former Aerosols of Australia	1617 Botany ROAD	Chemical Industry	Regulation under CLM Act not required	-33.9529386	151.2037468
BOTANY	Allnex	49-61 Stephen ROAD	Chemical Industry	Contamination currently regulated under	-33.952588	151.21101
BOTANY	Former Tannery	2 Daniel STREET	Other Industry	Regulation under CLM Act not required	-33.94126194	151.1991087
BOTANY	Botany, Underwood	14a Underwood AVENUE	Unclassified	Contamination being managed via the pla	-33.94508532	151.1947626
BOTANY	Roads and Maritime Service	5 - 9 Lord STREET	Other Industry	Regulation under CLM Act not required	-33.94100279	151.1968763
BOTANY	Former Industrial Site	28 Folkestone PARADE	Unclassified	Contamination being managed via the pla	-33.95187539	151.1960537

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
BOURKE	Caltex Service Station	82-86 Anson STREET	Service Station	Regulation under CLM Act not required	-30.09500388	145.9414388
BOURKE	Former Shell Bourke Depot	94-106 Anson STREET	Service Station	Regulation under CLM Act not required	-30.09548497	145.9436745
BOWENFELS	Bowenfels Field Support Centre	9-13 Coerwull ROAD	Other Petroleum	Regulation under CLM Act not required	-33.47514572	150.1323899
BOWRAL	Shell Coles Express Bowral Service Station	430 Bong Bong STREET	Service Station	Regulation under CLM Act not required	-34.48269596	150.417389
BOWRAL	Former Gasworks	Merrigang STREET	Gasworks	Contamination currently regulated under	-34.4783957	150.4255053
BOX HILL	Former Waste Management Facility	25 Terry ROAD	Landfill	Regulation under CLM Act not required	-33.65559259	150.8977986
BOX HILL	Former Poultry Farm	27-33 Boundary ROAD	Other Industry	Regulation under CLM Act not required	-33.64866563	150.8815467
BOX HILL	Former Poultry Farm	19-25 Boundary ROAD	Other Industry	Regulation under CLM Act not required	-33.65038071	150.8813725
BRANXTON	Former Service Station Branxton	Part of 70 Maitland STREET	Service Station	Contamination currently regulated under	-32.65631582	151.3516243
BRANXTON	Branxton Wastewater Treatment Works	2151 New England HIGHWAY	Other Industry	Regulation under CLM Act not required	-32.66069944	151.3625572
BREWARRINA	Dowell's Fuel	39 Doyle STREET	Service Station	Regulation under CLM Act not required	-29.96152786	146.8612561
BRIGHTON-LE-SANDS	Shell Service Station Brighton Le Sands &	2 General Holmes DRIVE	Service Station	Contamination formerly regulated under	-33.9579214	151.1578665
BRIGHTON-LE-SANDS	Cook Park	General Holmes DRIVE	Service Station	Contamination formerly regulated under	-33.9581072	151.1579572
BROADMEADOW	Former Industrial Site	16 Broadmeadow ROAD	Service Station	Regulation under CLM Act not required	-32.91444096	151.7300112
BROADMEADOW	Nineways Broadmeadow Coles Express S	Corner Brunker Road and Lambton ROAD	Service Station	Regulation under CLM Act not required	-32.92511185	151.7364247
BROADMEADOW	2 Georgetown Road, Broadmeadow NSW	2 Georgetown ROAD	Metal Industry	Under assessment	-32.912288	151.732197

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
BROKEN HEAD	South Byron Sewage Treatment Works	Broken Head ROAD	Other Industry	Regulation under CLM Act not required	-28.67233626	153.6148974
BROKEN HILL	Former Caltex Depot	3 Kanandah ROAD	Service Station	Regulation under CLM Act not required	-31.98341823	141.4332211
BROKEN HILL	Former Caltex Service Station	167-173 Argent STREET	Service Station	Regulation under CLM Act not required	-31.96066663	141.4624175
BROKEN HILL	Caltex Service Station	535 Argent STREET	Service Station	Regulation under CLM Act not required	-31.95311924	141.4745274
BROKEN HILL	Tasco Petroleum (Former Mobil) Depot	5 Kanandah ROAD	Other Petroleum	Regulation under CLM Act not required	-31.9843986	141.4329127
BROKEN HILL	Former Mobil Aviation Refuelling Facility,	Airport ROAD	Other Petroleum	Regulation under CLM Act not required	-31.99928312	141.4685759
BROKEN HILL	Caltex Service Station	73-87 Oxide STREET	Service Station	Contamination formerly regulated under	-31.95519591	141.4658647
BROKEN HILL	Former Mobil Depot	Corner Of Talc Street and Gossan STREET	Other Petroleum	Regulation under CLM Act not required	-31.96018102	141.4514752
BROKEN HILL	Former Gasworks	Cornish STREET	Gasworks	Contamination formerly regulated under	-31.96330562	141.4470611
BROOKLYN	Former Oyster Farm	139 Brooklyn (Off Government) ROAD	Unclassified	Regulation under CLM Act not required	-33.54716867	151.2229744
BROOKVALE	Coles Express Service Station Brookvale	198 Harbord ROAD	Service Station	Regulation under CLM Act not required	-33.76332299	151.2794028
BROOKVALE	Woolworths Petrol Brookvale	756 Pittwater ROAD	Service Station	Regulation under CLM Act not required	-33.76170587	151.2762411
BROOKVALE	Caltex Service Station Brookvale	740-742 Pittwater ROAD	Service Station	Regulation under CLM Act not required	-33.76146721	151.2745358
BROOKVALE	Harrison Manufacturing	75 Old Pittwater ROAD	Other Industry	Regulation under CLM Act not required	-33.76497282	151.2637961
BROOKVALE	Brookvale Bus Depot	630-636 Pittwater ROAD	Other Petroleum	Regulation under CLM Act not required	-33.76641698	151.2705659
BROOKVALE	Warringah Mall	Cnr Condamine Street, Old Pittwater Rd &	Other Industry	Regulation under CLM Act not required	-33.76729923	151.2657272

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
BROOKVALE	Littles Dry Cleaning	123 Old Pittwater ROAD	Other Industry	Regulation under CLM Act not required	-33.76759121	151.2625932
BROOMS HEAD	Former Brooms Head General Store and	392 Ocean ROAD	Service Station	Regulation under CLM Act not required	-29.60711599	153.3346312
BROWNSVILLE	Caltex Service Station	342 Kanahooka ROAD	Service Station	Regulation under CLM Act not required	-34.48591734	150.8064373
BRUNSWICK HEADS	Caltex Service Station	5 Tweed STREET	Service Station	Regulation under CLM Act not required	-28.5381619	153.5487135
BUDGEWOI	Colongra Power Station	Off Scenic DRIVE	Other Industry	Under assessment	-33.21463137	151.5529338
BULAHDELAH	Caltex Service Station	8 Red Gum Road, Corner Mahogany STRE	Service Station	Regulation under CLM Act not required	-32.39837094	152.2106015
BULAHDELAH	Former Caltex Service Station	53-59 Bulahdelah WAY	Service Station	Regulation under CLM Act not required	-32.40721638	152.2110291
BULAHDELAH	BP-branded (former Mobil) Service Statio	73-75 Bulahdelah WAY	Service Station	Regulation under CLM Act not required	-32.40971018	152.2105785
BULLABURRA	Former Burmah Bullaburra Service Station	367 - 369 Great Western HIGHWAY	Service Station	Regulation under CLM Act not required	-33.72482995	150.4124537
BULLI	Scrap Yard	7 Molloy STREET	Other Industry	Contamination formerly regulated under	-34.33663195	150.9131154
BULLI	Bulli Brickworks	Quilkey PLACE	Other Industry	Regulation under CLM Act not required	-34.33263113	150.9086247
BUNGALORA	Former landfill area	Part of 840 Terranora ROAD	Other Industry	Regulation under CLM Act not required	-28.2424318	153.4789209
BUNGENDORE	Former Timber Treatment Plant	Corner King Street and Butmaroo STREET	Other Industry	Contamination formerly regulated under	-35.26151273	149.4434907
BURONGA	Caltex Service Station	Sturt Hwy Cnr Silver City HIGHWAY	Service Station	Regulation under CLM Act not required	-34.17056496	142.1813847
BURWOOD	Burwood STA Depot	Cnr Shaftesbury and Parramatta ROADS	Other Industry	Contamination formerly regulated under	-33.86982934	151.1089057
BYRON BAY	Residential Development	Lot 15 Seaview STREET	Unclassified	Regulation under CLM Act not required	-28.65214464	153.6165573

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
BYRON BAY	Butler Street Reserve Byron Bay	Butler STREET	Landfill	Under assessment	-28.64340617	153.6099674
CABARITA	Dulux (Orica Australia)	Cabarita ROAD	Chemical Industry	Contamination formerly regulated under	-33.84643972	151.1157115
CABARITA	Wellcome Soil Containment Cells Cabarita	47 and 48 Phillips STREET	Other Industry	Ongoing maintenance required to manag	-33.85250251	151.1176366
CABRAMATTA	Caltex (former Mobil) Lansvale Service St	141 Hume HIGHWAY	Service Station	Contamination formerly regulated under	-33.89442261	150.9571507
CABRAMATTA	Caltex Service Station Cabramatta	168 John STREET	Service Station	Regulation under CLM Act not required	-33.89422314	150.9279279
CABRAMATTA	Cabramatta Creek	17 A and 19A Liverpool Street STREET	Unclassified	Regulation under CLM Act not required	-33.90284952	150.9415616
CABRAMATTA WEST	BP Lansvale	115-119 Hume HIGHWAY	Service Station	Regulation being finalised	-33.893716	150.958743
CABRAMURRA	Selwyn Snowfields / Selwyn Snow Resort	213A Kings Cross ROAD	Other Industry	Regulation under CLM Act not required	-35.90578	148.4501785
CALGA	Former service station	101 Peats Ridge ROAD	Service Station	Contamination formerly regulated under	-33.37592138	151.2254951
CALLALA BEACH	Callala Beach General Store	(formerly 1 Quay Rd) 114A Quay ROAD	Service Station	Regulation under CLM Act not required	-35.0101817	150.6964322
CAMBRIDGE GARDENS	Caltex Cambridge Park	1 Boomerang PLACE	Service Station	Regulation under CLM Act not required	-33.74068794	150.717174
CAMDEN	Camden High School (former)	John STREET	Gasworks	Regulation under CLM Act not required	-34.05114079	150.6951285
CAMDEN	Caltex Camden Service Station	21 Barsden STREET	Service Station	Regulation under CLM Act not required	-34.05808413	150.6914744
CAMDEN SOUTH	Coles Express Service Station Camden Sou	273 Old Hume HIGHWAY	Service Station	Regulation under CLM Act not required	-34.08660995	150.6945444
CAMELLIA	Hymix Concrete	14 Grand AVENUE	Metal Industry	Contamination currently regulated under	-33.82243454	151.044789
CAMELLIA	Mauri Foods	15 Grand AVENUE	Other Industry	Regulation being finalised	-33.81996985	151.0335725

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
CAMELLIA	James Hardie Factory (former, eastern po	1 Grand AVENUE	Other Industry	Ongoing maintenance required to manag	-33.8182384	151.0261019
CAMELLIA	Bitumen Manufacturer	12 Grand AVENUE	Other Industry	Contamination currently regulated under	-33.82189695	151.0429251
CAMELLIA	Hambear	14 Thackeray STREET	Metal Industry	Regulation under CLM Act not required	-33.81920482	151.0419394
CAMELLIA	Former Asciano Properties	39 Grand AVENUE	Chemical Industry	Contamination currently regulated under	-33.82056014	151.0443331
CAMELLIA	Railway Land	27 Grand AVENUE	Other Industry	Regulation under CLM Act not required	-33.81910822	151.0382483
CAMELLIA	Wrigg	13 Grand AVENUE	Metal Industry	Under preliminary investigation order	-33.81971361	151.0321525
CAMELLIA	Former Akzo Nobel site	6 Grand AVENUE	Chemical Industry	Contamination currently regulated under	-33.82238826	151.0319264
CAMELLIA	Former Shell Clyde Refinery	Durham STREET	Other Industry	Contamination currently regulated under	-33.82804924	151.0378966
CAMELLIA	Council Reserve	11B Grand AVENUE	Metal Industry	Regulation under CLM Act not required	-33.81850502	151.0302425
CAMELLIA	Veolia	37 Grand AVENUE	Chemical Industry	Contamination currently regulated under	-33.81980027	151.0430689
CAMELLIA	Sydney Water	41 Grand AVENUE	Chemical Industry	Contamination formerly regulated under	-33.8217493	151.0453367
CAMELLIA	Maritime Services Board	33A Grand AVENUE	Metal Industry	Regulation under CLM Act not required	-33.81836086	151.0401249
CAMMERAY	Tunks Park	Brothers AVENUE	Landfill	Contamination formerly regulated under	-33.81734704	151.2113338
CAMMERAY	Coles Express Cammeray	477-483 Miller STREET	Service Station	Regulation under CLM Act not required	-33.82141124	151.2108658
CAMPBELLTOWN	Mobil Service Station	96-98 Queen STREET	Service Station	Regulation under CLM Act not required	-34.06407588	150.8170082
CAMPBELLTOWN	BP Macarthur Service Station	Cnr Blaxland ROAD and Campbelltown RO	Service Station	Regulation under CLM Act not required	-34.05312872	150.8234349

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
CAMPBELLTOWN	Former vehicle wrecking yard	38 Blaxland ROAD	Other Industry	Regulation under CLM Act not required	-34.06055735	150.8130598
CAMPERDOWN	Former Gee Graphics	27 Church STREET	Other Industry	Regulation under CLM Act not required	-33.88737747	151.1773616
CAMPERDOWN	O'Dea Reserve	Salisbury LANE	Landfill	Contamination formerly regulated under	-33.89072786	151.1736948
CAMPERDOWN	The Spruce	12-14 Marsden STREET	Other Industry	Regulation under CLM Act not required	-33.88720632	151.1784514
CAMPSIE	Budget Petroleum and adjacent property	403 Canterbury Road and 1 Una STREET	Service Station	Contamination currently regulated under	-33.91605617	151.1086596
CAMPSIE	Former Sunbeam factory	60 Charlotte STREET	Other Industry	Contamination formerly regulated under	-33.92254225	151.1025796
CANLEY HEIGHTS	Former Caltex Canley Heights	368 Canley Vale ROAD	Service Station	Regulation under CLM Act not required	-33.88271081	150.9154176
CANLEY HEIGHTS	Caltex Canley Heights Service Station	280-286 Canley Vale ROAD	Service Station	Regulation under CLM Act not required	-33.88393501	150.9241656
CANLEY VALE	Coles Express Lansvale	99 Hume HIGHWAY	Service Station	Regulation under CLM Act not required	-33.89295753	150.9606136
CANLEY VALE	Former Mobil Service Station	96 Canley Vale ROAD	Service Station	Regulation under CLM Act not required	-33.88591573	150.9369801
CANOWINDRA	BP-branded Jasbe Service Station	76 Rodd STREET	Service Station	Regulation under CLM Act not required	-33.56131773	148.6682805
CANTERBURY	Metro Petroleum Service Station	13-19 Canterbury ROAD	Service Station	Contamination currently regulated under	-33.90783455	151.125207
CAPTAINS FLAT	Rail corridor adjacent to Lake George Min	Miners ROAD	Other Industry	Under assessment	-35.589815	149.444632
CARDIFF	7-Eleven Service Station	399 Main ROAD	Service Station	Regulation under CLM Act not required	-32.93391137	151.6562111
CARDIFF	Former Caltex Service Station	367 Main ROAD	Service Station	Regulation under CLM Act not required	-32.93761223	151.6577781
CARDIFF	Maneela Oval	Main ROAD	Other Industry	Regulation under CLM Act not required	-32.93018443	151.6435559

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
CARDIFF	Former Mobil Depot	7 Ranton STREET	Other Petroleum	Regulation under CLM Act not required	-32.94516764	151.6470387
CARDIFF	BP Service Station (Reliance Petroleum)	Corner Sturt and Main ROADS	Service Station	Regulation under CLM Act not required	-32.93792229	151.6569905
CARDIFF	Woolworths (former Mobil) Cardiff Servi	43 Macquarie ROAD	Service Station	Regulation under CLM Act not required	-32.94118246	151.6578195
CARINGBAH	Adjacent to Spirent Australia	101-103 Cawarra ROAD	Other Industry	Contamination formerly regulated under	-34.03360747	151.1245577
CARINGBAH	Former Consumer Health Products Manu	32-40 Cawarra ROAD	Other Industry	Regulation under CLM Act not required	-34.03024369	151.1277755
CARINGBAH	Caltex Lilli Pilli Service Station	477-481 Port Hacking ROAD	Service Station	Regulation under CLM Act not required	-34.05243807	151.1216353
CARINGBAH	7-Eleven Service Station	367 The KINGSWAY	Service Station	Regulation under CLM Act not required	-34.03948677	151.1203268
CARINGBAH	Spirent Australia	105 Cawarra ROAD	Other Industry	Contamination formerly regulated under	-34.03425343	151.1245092
CARINGBAH	BP Service Station Caringbah	54 Captain Cook DRIVE	Service Station	Regulation under CLM Act not required	-34.032986	151.1250656
CARLINGFORD	Caltex Service Station Carlingford	131 Pennant Hills ROAD	Service Station	Regulation under CLM Act not required	-33.78762398	151.0279422
CARLINGFORD	Caltex Service Station	797 Pennant Hills ROAD	Service Station	Regulation under CLM Act not required	-33.7757819	151.0516532
CARLTON	Shell Coles Express Service Station	277 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-33.9748579	151.1272732
CARRINGTON	Commercial Metals Company (CMC) Aust	117-121 Bourke STREET	Other Industry	Regulation under CLM Act not required	-32.9148832	151.7677193
CARRINGTON	Carrington redevelopment site	11 Howden STREET	Other Industry	Regulation under CLM Act not required	-32.91309509	151.7625341
CARRINGTON	Forgacs Dockyard	81 Denison STREET	Other Industry	Regulation under CLM Act not required	-32.9207441	151.764816
CARRINGTON	NAT vacant land	Bourke STREET	Unclassified	Regulation under CLM Act not required	-32.91276029	151.7685894

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
CARRINGTON	Dyke Point Containment Cell	Dyke ROAD	Other Industry	Regulation under CLM Act not required	-32.91763422	151.7727101
CARRINGTON	Carrington Coal Tar Pavements	Bourke Street to Dyke ROAD	Other Industry	Regulation under CLM Act not required	-32.91441348	151.770271
CARRINGTON	Pasminco Ship Loader	Dyke Berth 2 (off Bourke Street) OTHER	Metal Industry	Regulation under CLM Act not required	-32.9148698	151.7716837
CARSS PARK	Vacant Property	334 Princes HIGHWAY	Other Industry	Regulation under CLM Act not required	-33.98628486	151.1133908
CARSS PARK	Kogarah War Memorial Pool	78 Carwar AVENUE	Other Industry	Under assessment	-33.9894	151.119828
CARWELL	Cement Australia Carwell Creek Quarries	Quarry ROAD	Other Industry	Regulation under CLM Act not required	-32.85570277	149.9170908
CASINO	Caltex Service Station and Depot Casino	28 & 32 Dyraaba STREET	Service Station	Regulation under CLM Act not 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	Former Gasworks	134-136 North STREET	Gasworks	Regulation under CLM Act not required	-28.86080712	153.0526043
CASINO	Woolworths Service Station Casino	130 Canterbury STREET	Service Station	Regulation under CLM Act not required	-28.86231341	153.0464642
CASINO	18 Beith Street, Casino	18 Beith STREET	Unclassified	Regulation under CLM Act not required	-28.84951426	153.0446585
CASINO	Corner Store	30 Barker STREET	Service Station	Regulation under CLM Act not required	-28.86316792	153.0389124
CASINO	Casino Roadhouse	86 Johnston STREET	Service Station	Contamination currently regulated under	-28.85960698	153.0562429
CASULA	Caltex Casula Service Station	646 Hume HIGHWAY	Service Station	Regulation under CLM Act not required	-33.95641262	150.8934783
CATHERINE HILL BAY	Catherine Hill Bay Coal Handling and Prep	1A Keene STREET	Other Industry	Regulation under CLM Act not required	-33.16120556	151.6302456
CESSNOCK	Caltex Cessnock Service Station	103-105 Wollombi (Cnr James Street) RO	Service Station	Regulation under CLM Act not required	-32.83936243	151.3430078

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
CESSNOCK	Former Mobil Service Station	102 Wollombi ROAD	Service Station	Regulation under CLM Act not required	-32.83844074	151.3436022
CESSNOCK	Former Service Station	2-4 Allandale ROAD	Service Station	Regulation under CLM Act not required	-32.83118911	151.3560677
CHARBON	Charbon Colliery	Charbon ROAD	Other Industry	Regulation under CLM Act not required	-32.92390131	149.9839098
CHARLESTOWN	7-Eleven Charlestown	273 Charlestown ROAD	Service Station	Regulation under CLM Act not required	-32.95802555	151.6897931
CHARLESTOWN	Caltex Service Station	81 Pacific HIGHWAY	Service Station	Contamination currently regulated under	-32.96715274	151.6955462
CHARLESTOWN	Caltex Woolworths (Former BP)	91-93 Pacific HIGHWAY	Service Station	Contamination formerly regulated under	-32.96631255	151.6959086
CHARLESTOWN	Ausgrid Powell Street Depot	8 Powell STREET	Other Industry	Regulation under CLM Act not required	-32.95912375	151.6944136
CHARMHAVEN	Caltex Charmhaven Service Station	13-15 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.21655768	151.5091452
CHATSWOOD	Former Caltex Chatswood Service Station	607 Pacific HIGHWAY	Service Station	Contamination formerly regulated under	-33.80396472	151.1795766
CHATSWOOD	Woolworths Chatswood	364-366 Eastern Valley WAY	Service Station	Regulation under CLM Act not required	-33.78667419	151.2010828
CHATSWOOD	Caltex Service Station Chatswood	572 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.80381271	151.1789656
CHATSWOOD	Auto Repairs	2 Devonshire STREET	Service Station	Regulation under CLM Act not 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 Toyota	728 Pacific HIGHWAY	Service Station	Contamination formerly regulated under	-33.79654247	151.1776136
CHERRYBROOK	Caltex Service Station	67 Shepherds DRIVE	Service Station	Regulation under CLM Act not required	-33.72069183	151.0451415
CHESTER HILL	Former Orica, Chester Hill	127 Orchard ROAD	Chemical Industry	Contamination formerly regulated under	-33.8869823	150.9952873

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
CHESTER HILL	Various industrial premises	191 Miller ROAD	Chemical Industry	Under assessment	-33.883926	150.994941
CHESTER HILL	Integrated Packaging	149 Orchard ROAD	Other Industry	Under assessment	-33.885636	150.995188
CHIPPENDALE	Cnr Regent Street & Wellington Street, Chippendale	Wellington STREET	Chemical Industry	Contamination currently regulated under	-33.88668912	151.2015246
CHIPPING NORTON	Former Solchem (Mobil) Depot Chipping Norton	49-51 Riverside ROAD	Other Petroleum	Regulation under CLM Act not required	-33.91621314	150.9696948
CHIPPING NORTON	Former ACR	85-107 Alfred STREET	Chemical Industry	Contamination currently regulated under	-33.92226795	150.9586496
CHISWICK	Former Sydney Wiremills (BHP) site	Blackwall Point ROAD	Other Industry	Regulation under CLM Act not required	-33.85131849	151.1369131
CHITTAWAY BAY	Former Caltex Chittaway Point	100 Chittaway ROAD	Service Station	Regulation under CLM Act not required	-33.32707555	151.4293546
CHULLORA	Chullora Railway Workshops	Worth STREET	Other Industry	Regulation under CLM Act not required	-33.88639388	151.0598201
CLARENCE	Clarence Colliery	Chifley ROAD	Other Industry	Regulation under CLM Act not required	-33.46450217	150.2522729
CLARENDON	Coles Express Clarendon Service Station	244 Hawkesbury Valley WAY	Service Station	Regulation under CLM Act not required	-33.6083729	150.7890956
CLEARFIELD	Former Pamplings Dip Site	Off Clearfield ROAD	Cattle Dip	Regulation under CLM Act not required	-29.16287185	152.882974
CLYBUCCA	BP Service Station	2171 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-30.93845014	152.9422791
CLYDE	7-Eleven Clyde	3 Parramatta Road, corner Harbord STREET	Service Station	Regulation under CLM Act not required	-33.83494433	151.0222628
CLYDE	4 Tennyson Street, Clyde NSW 2142	4 Tennyson STREET	Other Industry	Regulation under CLM Act not required	-33.83268843	151.0267361
COBAR	Former Caltex (Bogas) Service Station Cobar	56-58 Marshall STREET	Service Station	Regulation under CLM Act not required	-31.49793339	145.8346684
COBAR	Mckinnons Gold Mine	Cobar ROAD	Metal Industry	Regulation under CLM Act not required	-31.78179755	145.693

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
COBAR	Caltex Service Station Cobar	99 Marshall (formerly Cnr Barrier Highway	Service Station	Regulation under CLM Act not required	-31.49631924	145.8275727
COBAR	Caltex Service Station	Lot 10 Railway PARADE	Service Station	Regulation under CLM Act not required	-31.49350124	145.8442372
COFFS HARBOUR	BP Service Station	134-136 Pacific HIGHWAY	Service Station	Contamination formerly regulated under	-30.29187037	153.1182106
COFFS HARBOUR	Dan Murphy's Coffs Harbour	10 Elbow STREET	Service Station	Regulation under CLM Act not required	-30.29439262	153.115069
COFFS HARBOUR	Mobil Service Station	314-316 Harbour DRIVE	Service Station	Contamination formerly regulated under	-30.3056983	153.131966
COFFS HARBOUR	Mobil Coffs Harbour Airport	Aviation DRIVE	Other Petroleum	Contamination formerly regulated under	-30.313385	153.1175018
COFFS HARBOUR	Woolworths Petrol	Park Beach Plaza, Arthur STREET	Service Station	Regulation under CLM Act not required	-30.28101154	153.132027
COFFS HARBOUR	Caltex Service Station	157 Orlando STREET	Service Station	Regulation under CLM Act not required	-30.28975334	153.1306354
COFFS HARBOUR	Coffs Harbour Slipway	38 Marina DRIVE	Other Industry	Regulation under CLM Act not required	-30.30325637	153.1441437
COFFS HARBOUR	Aussitel Backpackers Hostel	312 Harbour DRIVE	Service Station	Contamination formerly regulated under	-30.30585731	153.131645
COLEAMBALLY	Former Mobil Coleambally Depot	19 Bencubbin AVENUE	Other Petroleum	Regulation under CLM Act not required	-34.80279552	145.8945239
COLLARENEBRI	Former Shell Depot	Corner Narran Street and Queen STREET	Other Petroleum	Regulation under CLM Act not required	-29.54114772	148.5789365
COLONGRA	Munmorah Colliery	Scenic DRIVE	Other Industry	Regulation under CLM Act not required	-33.21297737	151.5416882
COLONGRA	Endeavour Colliery	Scenic DRIVE	Other Industry	Regulation under CLM Act not required	-33.21297737	151.5416882
COLYTON	Coles Express (former Ampol) Service Sta	86-88 Great Western HIGHWAY	Service Station	Contamination formerly regulated under	-33.77552363	150.7953105
CONCORD	Caltex Service Station	89 Parramatta ROAD	Service Station	Regulation under CLM Act not required	-33.86785624	151.0993769

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
CONCORD WEST	Caltex Service Station - 369 -375 Concord	369-375 Concord ROAD	Service Station	Regulation under CLM Act not required	-33.84113835	151.0888843
CONDOBOLIN	BP-Branded Service Station	38 Denison Street, corner Molong STREET	Service Station	Regulation under CLM Act not required	-33.08520378	147.1524976
CONDOBOLIN	Former Mobil Depot	6 Burnett STREET	Other Petroleum	Contamination formerly regulated under	-33.08010515	147.1642972
CONDOBOLIN	Former Ampol Depot	Cnr Parkes Road and Goobang STREET	Service Station	Regulation under CLM Act not required	-33.08034753	147.1642436
CONDOBOLIN	Former Caltex Depot	Parkes ROAD	Service Station	Regulation under CLM Act not required	-33.08255593	147.1585922
CONDOBOLIN	Mobil Condobolin Depot Railway Siding	Railway Siding behind 6 Burnett STREET	Other Petroleum	Regulation under CLM Act not required	-33.08058612	147.164225
CONSTITUTION HILL	Sydney Water Land	Caloola ROAD	Unclassified	Regulation under CLM Act not required	-33.79781738	150.9697436
COOGEE	Caltex Coogee Service Station	146-148 Coogee Bay Road, corner Mount	Service Station	Regulation under CLM Act not required	-33.91989232	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
COOLAC	Coolac Service Station	Corner Hume Highway and Coleman STREET	Service Station	Regulation under CLM Act not required	-34.95435052	148.1595525
COOLAH	BP Depot (Reliance Petroleum)	72 (formerly 17-23) Cunningham STREET	Other Petroleum	Regulation under CLM Act not required	-31.82275896	149.7243171
COOLONGOLOOK	Caltex Service Station	Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-32.21648325	152.322813
COOMA	Caltex Cooma Service Station	44 Sharp Street, corner Baron STREET	Service Station	Regulation under CLM Act not required	-36.23323489	149.1304134
COOMA	Former Mobil Cooma Depot	2 Commissioner STREET	Other Petroleum	Regulation under CLM Act not required	-36.23266081	149.1346674
COOMA	Former Caltex Cooma Depot	2 Short STREET	Service Station	Regulation under CLM Act not required	-36.2338672	149.1348862
COOMA	Lowes Petroleum Cooma Depot and Serv	2-4 Sharp STREET	Other Petroleum	Regulation under CLM Act not required	-36.22819468	149.1357696

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
COOMA	Woolworths Caltex Cooma Service Station	Bombala Street Cnr Massie STREET	Service Station	Regulation under CLM Act not required	-36.23364626	149.1267469
COOMA	Former Shell Depot	48-50 Bradley STREET	Other Petroleum	Regulation under CLM Act not required	-36.23448955	149.1347987
COOMA	Former Shell Service Station	48-52 Sharp STREET	Service Station	Contamination formerly regulated under	-36.23350402	149.1299514
COONABARABRAN	Former Mobil Depot	49 Cowper STREET	Other Petroleum	Regulation under CLM Act not required	-31.27096226	149.2818461
COONABARABRAN	Shell Coles Express Service Station	2-6 John STREET	Service Station	Regulation under CLM Act not required	-31.27706775	149.27836
COONABARABRAN	Former Shell Coonabarabran CVRO	Corner Cowper St and Dawson St, former	Other Petroleum	Regulation under CLM Act not required	-31.27003745	149.281788
COONABARABRAN	Caltex Service Station	Cnr Dawson & Drummond STREET	Service Station	Regulation under CLM Act not required	-31.26994941	149.28183
COONABARABRAN	Caltex Service Station	85-87 John STREET	Service Station	Regulation under CLM Act not required	-31.27231215	149.2771297
COONAMBLE	Former Shell Coonamble Depot	Corner Aberford Street and Quambone R	Other Petroleum	Regulation under CLM Act not required	-30.95349182	148.3793432
COONAMBLE	Caltex Service Station	Quambone ROAD	Service Station	Regulation under CLM Act not required	-30.95410067	148.3792167
COORANBONG	Former Poultry Farm - 91 Alton Road, Co	64 - 98 Alton ROAD	Unclassified	Regulation under CLM Act not required	-33.06860138	151.4512156
COORANBONG	Avondale Auto Centre	679 Freemans DRIVE	Service Station	Regulation under CLM Act not required	-33.06968809	151.4636293
COOTAMUNDRA	Former BP Depot	1-5 Murray STREET	Other Petroleum	Regulation under CLM Act not required	-34.62915841	148.0306962
COOTAMUNDRA	Caltex Service Station	26-34 Hovell STREET	Service Station	Regulation under CLM Act not required	-34.63624703	148.0347479
COOTAMUNDRA	Former Caltex Depot	219 Sutton STREET	Other Petroleum	Regulation under CLM Act not required	-34.65126548	148.0145283
COOTAMUNDRA	Former Ampol Service Station	72 Parker STREET	Service Station	Regulation under CLM Act not required	-34.63471008	148.0296112

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
COOTAMUNDRA	Cootamundra Gasworks	140-146 Hovell STREET	Gasworks	Contamination currently regulated under	-34.64572841	148.0255049
COOTAMUNDRA	Former Amoco Depot	68-72 Hovell STREET	Other Petroleum	Contamination currently regulated under	-34.63871124	148.0321134
COOTAMUNDRA	Former Ampol Cootamundra Rail Siding	Back Brawlin ROAD	Other Petroleum	Regulation under CLM Act not required	-34.65326425	148.0143068
CORAMBA	Martin Street	End of Martin Street and adjacent car park	Service Station	Ongoing maintenance required to manage	-30.22125208	153.0156997
CORNWALLIS	532 Cornwallis Road, Cornwallis	532 Cornwallis ROAD	Other Industry	Regulation under CLM Act not required	-33.57473895	150.7792839
COROWA	Corowa Shire Council Works Depot	24 Poseidon ROAD	Other Petroleum	Regulation under CLM Act not required	-35.98807923	146.3652266
COROWA	Former Ampol Corowa	10 Bow STREET	Service Station	Regulation under CLM Act not required	-35.99364786	146.3901259
COROWA	Cignall Corowa	280 Hume STREET	Service Station	Under preliminary investigation order	-36.00996015	146.3760437
CORRIMAL	Woolworths Petrol - Corrimal	275 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-34.37527426	150.8962637
CORRIMAL	7-Eleven Corrimal	138-146 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-34.36986818	150.8978241
COWRA	Landmark Fertiliser Storage Facility	Corner Young Road & Waratah STREET	Chemical Industry	Regulation under CLM Act not 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
COWRA	Former Gasworks	30 Brougham STREET	Gasworks	Contamination currently regulated under	-33.8389659	148.6963482
COWRA	Shell Depot	34 Brougham STREET	Other Petroleum	Contamination formerly regulated under	-33.83913341	148.6973491
CRANGAN BAY	Big T Roadhouse	555 and 565 Pacific HIGHWAY	Service Station	Contamination currently regulated under	-33.17306517	151.6084446
CREMORNE	Shell Coles Express Service Station	225 Military ROAD	Service Station	Regulation under CLM Act not required	-33.83063306	151.226223

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
CRESTWOOD	Former Caltex Depot Queanbeyan	36 Kendall (Cnr Stephens Rd) AVENUE	Other Petroleum	Regulation under CLM Act not required	-35.34615546	149.207807
CRESTWOOD	Former BP Queanbeyan	64 Uriarra ROAD	Service Station	Regulation under CLM Act not required	-35.34646177	149.2246263
CRONULLA	Breen Holdings	Bate Bay ROAD	Other Industry	Regulation under CLM Act not required	-34.03861737	151.1614114
CROWS NEST	Caltex Service Station	111-121 Falcon STREET	Service Station	Regulation under CLM Act not required	-33.82868236	151.2060317
CROYDON	Caltex Service Station	404-410 Liverpool ROAD	Service Station	Regulation under CLM Act not required	-33.88853994	151.115879
CROYDON	BP Ashfield	584 Parramatta ROAD	Service Station	Regulation under CLM Act not required	-33.87399409	151.1267296
CROYDON PARK	Mobil Service Station	334 Georges River ROAD	Service Station	Regulation under CLM Act not required	-33.89771626	151.0999194
CULCAIRN	Caltex Service Station	2883 Olympic HIGHWAY	Service Station	Regulation under CLM Act not required	-35.67441635	147.0356845
CULLEN BULLEN	Baal Bone Colliery	Castlereagh HIGHWAY	Other Industry	Regulation under CLM Act not required	-33.27193875	150.0587194
CUNDELTOWN	Caltex Service Station (1 Manning River D	Old Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-31.89329598	152.5068225
CURL CURL	John Fisher Park	Corner Harbord and Abbott ROADS	Landfill	Regulation under CLM Act not required	-33.76622613	151.2860705
DACEYVILLE	Astrolabe Park	Cook AVENUE	Landfill	Regulation under CLM Act not required	-33.92963704	151.221773
DAPTO	RailCorp Dapto	(Rear of property) 12-14 Hamilton STREET	Other Industry	Regulation under CLM Act not required	-34.50045405	150.787353
DAPTO	Nicheinvest Pty Ltd (Former service stati	133-139 Lakelands DRIVE	Service Station	Regulation under CLM Act not required	-34.503327	150.803209
DARLINGHURST	Proposed Retail Unit	139-155 Palmer STREET	Unclassified	Regulation under CLM Act not required	-33.87504688	151.2168106
DARLINGHURST	Cross City Tunnel	Riley Street and William STREET	Service Station	Contamination was addressed via the pla	-33.87424636	151.2158305

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
DARLINGHURST	18-28 Neild Avenue, Darlinghurst	18-28 Neild AVENUE	Landfill	Regulation under CLM Act not required	-33.87876581	151.2276546
DEE WHY	United Dee Why	148 Pacific Parade STREET	Service Station	Contamination currently regulated under	-33.75569536	151.295963
DEE WHY	United Dee Why Pittwater	625 Pittwater (Cnr Mooramba Road) ROAD	Service Station	Under assessment	-33.7549455	151.2828442
DEE WHY	Caltex Service Station	793-797 Pittwater ROAD	Service Station	Regulation under CLM Act not 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	Roche Products Dee Why Facility	Inman ROAD	Other Industry	Contamination currently regulated under	-33.73893118	151.2870389
DENHAM COURT	Denham Court Caravan Park and Service	505 Campbelltown ROAD	Service Station	Contamination currently regulated under	-33.98208395	150.8459471
DENILIQUIN	Shell Coles Express Service Station	336 Victoria STREET	Service Station	Contamination formerly regulated under	-35.52373613	144.9807345
DENILIQUIN	Former Deniliquin Gasworks	365, 369 and 329-331 George and 380 and 381	Gasworks	Under assessment	-35.52670898	144.9634996
DENILIQUIN	Landmark Fertiliser Storage Facility	99-101 Davidson STREET	Chemical Industry	Regulation under CLM Act not required	-35.52534735	144.975142
DENILIQUIN	Former Deniliquin Caltex Depot	116-118 Hardinge (Cnr Wood St) STREET	Service Station	Regulation under CLM Act not required	-35.53196985	144.9544597
DENILIQUIN	BP Depot (Reliance Petroleum)	125 - 127 Hardinge STREET	Service Station	Regulation under CLM Act not required	-35.53222124	144.9517397
DENILIQUIN	Former Shell Depot	143-147 Napier STREET	Other Petroleum	Regulation under CLM Act not required	-35.5342355	144.953169
DENMAN	Former Industrial Site	10 Fontana WAY	Metal Industry	Regulation under CLM Act not required	-32.37945456	150.6868239
DENMAN	Former Industrial Site	9 Fontana WAY	Metal Industry	Regulation under CLM Act not required	-32.37911159	150.6869866
DORA CREEK	Former Service Station	4 Doree PLACE	Service Station	Regulation under CLM Act not required	-33.08452746	151.502415

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
DOUBLE BAY	64 Suttie Road, Double Bay NSW 2028	64 Suttie ROAD	Other Industry	Regulation under CLM Act not required	-33.885237	151.247231
DOYALSON	Part Lot 3 DP 259306	Off David STREET	Other Industry	Regulation under CLM Act not required	-33.20436131	151.5232558
DOYALSON	Munmorah Power Station	(Central Coast Highway) Scenic DRIVE	Unclassified	Regulation under CLM Act not required	-33.20678347	151.540795
DOYALSON	Mannering Colliery (formerly Wyee)	Rutleys ROAD	Other Industry	Regulation under CLM Act not required	-33.17179576	151.5419248
DOYALSON NORTH	Caltex Service Station	235 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.18501024	151.5526114
DOYALSON NORTH	Shell Coles Express Service Station	260-270 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.18636608	151.5482399
DRUMMOYNE	Coles Express Service Station Drummoyne	36-46 Victoria ROAD	Service Station	Regulation under CLM Act not required	-33.85576628	151.1593519
DRUMMOYNE	Former Dry Cleaners	225 Victoria ROAD	Chemical Industry	Regulation under CLM Act not required	-33.8507152	151.1537113
DRUMMOYNE	Coles Express Service Station Drummoyne	39-45 Victoria ROAD	Service Station	Regulation under CLM Act not required	-33.85606575	151.1589061
DRUMMOYNE	Caltex Service Station	191-195 Lyons ROAD	Service Station	Regulation under CLM Act not required	-33.85699216	151.1460356
DUBBO	BP Reliance Petroleum Service Station (Formerly Mobil)	107 Erskine STREET	Other Petroleum	Regulation under CLM Act not required	-32.24441287	148.6111704
DUBBO	Dubbo Police Station	143 Brisbane STREET	Other Petroleum	Regulation under CLM Act not required	-32.24652288	148.6034702
DUBBO	Shell Coles Express Service Station	131-133 Cobra STREET	Service Station	Regulation under CLM Act not required	-32.25511317	148.6126147
DUBBO	Shell Coles Express Service Station	45-49 Whylandra STREET	Service Station	Regulation under CLM Act not required	-32.2474598	148.5932769
DUBBO	Former Mobil depot	40-44 Morgan STREET	Other Petroleum	Regulation under CLM Act not required	-32.23912277	148.6182711
DUBBO	Caltex Service Station, Dubbo	60 Windsor PARADE	Service Station	Regulation under CLM Act not required	-32.25459322	148.6318

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
DUBBO	BP-Branded Service Station Dubbo West	51-63 Whylandra STREET	Service Station	Regulation under CLM Act not required	-32.24827657	148.5927084
DUBBO	Lowes Petroleum (BP-Branded) Depot, Dubbo	105 Erskine STREET	Service Station	Regulation under CLM Act not required	-32.24423247	148.6101676
DUBBO	Inland Petroleum (Former Shell) Depot	109 Erskine STREET	Other Petroleum	Regulation under CLM Act not required	-32.24470512	148.6124108
DUBBO	Former Caltex Depot	Phillip (corner Fitzroy) STREET	Service Station	Regulation under CLM Act not required	-32.24534863	148.6150144
DUBBO	Caltex Service Station	119 Bourke STREET	Service Station	Regulation under CLM Act not required	-32.24336464	148.6091931
DUBBO	Former Ambulance Station	165 Brisbane STREET	Other Petroleum	Contamination formerly regulated under	-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
DUBBO	Caltex Service Station, Dubbo	Cnr Brisbane Street and Cobra STREET	Service Station	Contamination currently regulated under	-32.25322183	148.603164
DULWICH HILL	Former Tyre Recapping	115-117 Constitution ROAD	Other Industry	Regulation under CLM Act not required	-33.90300876	151.1387724
DULWICH HILL	Denison Road Playground	194 Denison ROAD	Landfill	Regulation under CLM Act not required	-33.90121956	151.1404637
DUNEDOO	Former Shell Depot Dunedoo	Cnr Bolaro and Redbank STREET	Other Petroleum	Regulation under CLM Act not required	-32.01565761	149.3922418
DUNGOG	Lot 54 Common Rd	54 Common ROAD	Unclassified	Regulation under CLM Act not required	-32.39490989	151.739821
DUNGOG	Former HWC Maintenance Depot for Civilian	86 Abelard STREET	Other Industry	Regulation under CLM Act not required	-32.40429396	151.7514073
DUNMORE	Equestrian Centre	71 Fig Hill LANE	Unclassified	Regulation under CLM Act not required	-34.62313393	150.8421544
DURAL	Caltex Dural Service Station	917-923 Old Northern ROAD	Service Station	Regulation under CLM Act not 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

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
DURAL	Caltex Service Station	530 Old Northern ROAD	Service Station	Regulation under CLM Act not required	-33.69348472	151.0202716
DURAL	Woolworths Service Station	532 Old Northern ROAD	Service Station	Regulation under CLM Act not required	-33.69348472	151.0202716
DURI	Duri Store	13 Railway AVENUE	Service Station	Contamination currently regulated under	-31.21710021	150.8183675
EAGLE VALE	BP Service Station	Corner Eagle Vale Drive and Gould ROAD	Service Station	Regulation under CLM Act not required	-34.03128043	150.816363
EARLWOOD	RTA Land	3 Jackson PLACE	Unclassified	Contamination being managed via the pla	-33.92724512	151.1433382
EARLWOOD	Wolli Creek Aqueduct	Unwin STREET	Unclassified	Regulation under CLM Act not required	-33.92788788	151.1480807
EARLWOOD	2, 4 & 6 Unwin Street Earlwood	2, 4 & 6 Unwin STREET	Landfill	Regulation under CLM Act not required	-33.92683761	151.149505
EAST BALLINA	Caltex East Ballina Service Station	34 Links AVENUE	Service Station	Regulation under CLM Act not required	-28.85009113	153.5829246
EAST GOSFORD	Presbyterian Aged Care Facility	8-18 Enid CRESCENT	Landfill	Regulation under CLM Act not required	-33.4376675	151.3577947
EAST GOSFORD	Mobil Service Station	44 Victoria STREET	Service Station	Contamination formerly regulated under	-33.43804781	151.353303
EAST GOSFORD	Hylton Moore Park	Althrop STREET	Landfill	Contamination currently regulated under	-33.4352203	151.3601193
EAST MAITLAND	United Service Station East Maitland	164 (also known as 250) Newcastle STRE	Service Station	Regulation under CLM Act not required	-32.75245246	151.5869136
EAST MAITLAND	Woolworths Caltex Green Hills	14 Mitchell DRIVE	Service Station	Regulation under CLM Act not required	-32.76182386	151.5927863
EAST MAITLAND	Former Gasworks Site	Corner Melbourne Street and Brisbane ST	Gasworks	Regulation under CLM Act not required	-32.74939199	151.5788783
EAST MAITLAND	Caltex East Maitland Service Station	Newcastle Road, Corner William STREET	Service Station	Regulation under CLM Act not required	-32.74883712	151.5829296
EAST TAMWORTH	Caltex Service Station	350-362 Armidale ROAD	Service Station	Regulation under CLM Act not required	-31.11401974	150.9613327

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
EASTERN CREEK	Caltex Service Station	M4 (Eastbound) MOTORWAY	Service Station	Regulation under CLM Act not required	-33.801607	150.8857989
EASTERN CREEK	Caltex Service Station M4 Motorway West	M4 (Westbound) MOTORWAY	Service Station	Regulation under CLM Act not required	-33.80255701	150.8829211
EASTERN CREEK	Fulton Hogan Industries (formerly Pioneer)	Honeycomb DRIVE	Other Industry	Regulation under CLM Act not required	-33.80231274	150.8288299
EASTGARDENS	130-150 Bunnerong Road Eastgardens	130 - 150 Bunnerong ROAD	Other Industry	Regulation under CLM Act not required	-33.94230414	151.2248138
EASTLAKES	Former Shell Rosebery service station and	275-279 Gardeners ROAD	Service Station	Contamination formerly regulated under	-33.92470279	151.2100722
EASTLAKES	Eastlakes Reserve	Evans AVENUE	Service Station	Contamination formerly regulated under	-33.92497291	151.2102725
EASTLAKES	Budget Petroleum Eastlakes	102 Maloney STREET	Service Station	Contamination formerly regulated under	-33.93120382	151.2054267
EASTLAKES	73 Gardeners Road	73 Gardeners ROAD	Unclassified	Regulation under CLM Act not required	-33.92541594	151.2182856
EASTWOOD	Former Mobil Service Station Eastwood	3-5 Trelawney (Cnr Rutledge St) STREET	Service Station	Regulation under CLM Act not required	-33.79273381	151.079584
EDEN	Caltex Service Station	159 Imlay STREET	Service Station	Regulation under CLM Act not required	-37.06324099	149.9044022
EDEN	Former Caltex Eden Depot	80-82 Imlay STREET	Service Station	Contamination currently regulated under	-37.0570984	149.9038538
EDENSOR PARK	Caltex Bonnyrigg Service Station, Edensor	549 Elizabeth DRIVE	Service Station	Regulation under CLM Act not required	-33.88840816	150.8822609
EDENSOR PARK	7-Eleven (former Mobil) Service Station	615-621 Cowpasture Road, corner Elizabeth	Service Station	Regulation under CLM Act not required	-33.88326139	150.865591
EDGECLIFF	BP-branded (former Coles Express) Service	73-85A New South Head ROAD	Service Station	Regulation under CLM Act not required	-33.8769602	151.2311617
EDGEWORTH	Caltex Service Station	662 Main ROAD	Service Station	Regulation under CLM Act not required	-32.92566329	151.6278888
EDGEWORTH	Caltex-Woolworths Branded Service Station	738-742 Main ROAD	Service Station	Regulation under CLM Act not required	-32.92455492	151.6202897

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
EMERALD BEACH	Shell Coles Express Woolgoolga Service St	1850 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-30.16450856	153.1826673
EMERTON	7-Eleven Emerton	135-137 Popondetta ROAD	Service Station	Regulation under CLM Act not required	-33.74463908	150.8102251
EMU HEIGHTS	7-Eleven Service Station	126 Old Bathurst ROAD	Service Station	Regulation under CLM Act not required	-33.74299098	150.6547098
EMU HEIGHTS	Woolworths Service Station	132 Old Bathurst ROAD	Service Station	Regulation under CLM Act not required	-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
ENGADINE	Former Caltex Service Station	995 Old Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-34.06413459	151.0155734
ENGADINE	BP Service Station	1234 Princes HIGHWAY	Service Station	Contamination currently regulated under	-34.07735416	151.01121
ENGADINE	BP Branded Service Station	963 Old Princes HIGHWAY	Service Station	Contamination currently regulated under	-34.06428454	151.0167121
EPPING	7-Eleven (former Mobil) Service Station	246 Beecroft ROAD	Service Station	Regulation under CLM Act not required	-33.77073552	151.080581
ERINA	Coles Express Service Station Erina	211 The Entrance ROAD	Service Station	Regulation under CLM Act not required	-33.43547804	151.3850522
ERINA	7-Eleven Erina	214 The Entrance ROAD	Service Station	Regulation under CLM Act not required	-33.43494257	151.3879511
ERINA	7-Eleven Service Station	96 The Entrance ROAD	Service Station	Regulation under CLM Act not required	-33.43786868	151.3729331
ERINA	Jaycar Electronics Store	1 Aston ROAD	Other Petroleum	Contamination currently regulated under	-33.434878	151.3845431
ERINA	Caltex Service Station	155 The Entrance ROAD	Service Station	Regulation under CLM Act not required	-33.43824871	151.3801096
ERMINGTON	Blue Star Ermington	700 Victoria ROAD	Service Station	Regulation under CLM Act not required	-33.80859566	151.0660133
ERMINGTON	Caltex Service Station	562 Victoria ROAD	Service Station	Regulation under CLM Act not required	-33.81392814	151.0547543

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
ERSKINE PARK	Western Sydney Service Centre	25-55 Templar ROAD	Other Industry	Regulation under CLM Act not required	-33.81897822	150.7937394
ERSKINEVILLE	Redevelopment Site (Former Industrial Park)	36/1A Coulson STREET	Other Industry	Regulation under CLM Act not required	-33.90325501	151.1855668
ERSKINEVILLE	Department of Housing	52 John STREET	Other Industry	Regulation under CLM Act not required	-33.8982925	151.1840284
ERSKINEVILLE	RailCorp land	Coulson STREET	Other Industry	Regulation under CLM Act not required	-33.90483899	151.1838804
ERSKINEVILLE	Lot 4/1A Coulson Street	Coulson STREET	Other Industry	Regulation under CLM Act not required	-33.90316549	151.1867963
ERSKINEVILLE	Area B - Public Domain / The Roadway	1A Coulson STREET	Other Petroleum	Regulation under CLM Act not required	-33.90499999	151.1873028
EUABALONG WEST	BP Euabalong West Depot (Reliance Petroleum)	12 Illewong STREET	Other Petroleum	Regulation under CLM Act not required	-33.05720426	146.3946386
EVANS HEAD	Evans Head Aerodrome	Memorial Airport DRIVE	Other Industry	Regulation under CLM Act not required	-29.10389976	153.4216791
EVANS HEAD	Bundjalung National Park	The Gap ROAD	Unclassified	Regulation under CLM Act not required	-29.24433977	153.3626472
EVANS HEAD	Evans Head Residential subdivision	Bounded by Currajong, Woodburn, Carrathool	Unclassified	Regulation under CLM Act not required	-29.1080969	153.4243577
EVELEIGH	Macdonaldtown Triangle	Burren STREET	Gasworks	Contamination being managed via the plan	-33.89803492	151.186059
EVELEIGH	Australian Technology Park	Henderson ROAD	Other Industry	Regulation under CLM Act not required	-33.89634136	151.1944915
FAIRFIELD	Endeavour Energy Fairfield Zone Substation	22 Hedges STREET	Other Industry	Regulation under CLM Act not required	-33.86133019	150.9555899
FAIRFIELD EAST	Speedway-Branded Service Station Fairfield East	251 The Horsley DRIVE	Service Station	Regulation under CLM Act not required	-33.8711661	150.9630077
FAIRFIELD HEIGHTS	7-Eleven Fairfield Heights	234 Hamilton (Cnr The Boulevard) ROAD	Service Station	Regulation under CLM Act not 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

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
FAIRY MEADOW	Caltex Fuel Depot and adjoining land	46 Montague STREET	Service Station	Contamination formerly regulated under	-34.40050499	150.8953125
FAIRY MEADOW	Deynal (Seeman)	51-59 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-34.39437085	150.8924666
FARLEY	Farley Wastewater Treatment Works	Owlpen LANE	Other Industry	Regulation under CLM Act not required	-32.74431314	151.5194217
FASSIFERN	Newstan Colliery	Fassifern ROAD	Other Industry	Regulation under CLM Act not required	-32.97942521	151.5660046
FASSIFERN	Former Arsenic Smelter	Fassifern ROAD	Other Industry	Regulation under CLM Act not required	-32.99649819	151.5618283
FEDERAL	Federal General Store	3-6 Federal DRIVE	Service Station	Contamination formerly regulated under	-28.65190728	153.4552976
FERN BAY	Former service station	37 Fullerton (1006 Nelson Bay Road) STREET	Service Station	Regulation under CLM Act not required	-32.87245004	151.7939904
FIVE DOCK	7-Eleven Five Dock Service Station	231-235 Great North ROAD	Service Station	Regulation under CLM Act not required	-33.86488376	151.130002
FIVE DOCK	Caltex Five Dock Service Station	47 Ramsay Road, corner Fairlight STREET	Service Station	Regulation under CLM Act not required	-33.87002804	151.1301835
FORBES	BP (Former Mobil) Depot Forbes	3-15 Union STREET	Other Petroleum	Regulation under CLM Act not required	-33.37751977	148.0101422
FORBES	Former Gasworks	24-26 Union STREET	Gasworks	Contamination currently regulated under	-33.37752036	148.0090064
FORBES	Woolworths (Former Save on Fuel) Service Station	26 Dowling STREET	Service Station	Regulation under CLM Act not required	-33.38148764	148.0109845
FORBES	BP Service Station Forbes	29 Dowling STREET	Service Station	Regulation under CLM Act not required	-33.38121776	148.0100351
FORBES	Former Shell Depot	Stephen STREET	Other Petroleum	Regulation under CLM Act not required	-33.37704755	148.0103001
FORBES	Caltex Service Station Forbes	Parkes ROAD	Service Station	Regulation under CLM Act not required	-33.36333714	148.0223727
FORESTVILLE	BP Service Station	632 Warringah ROAD	Service Station	Contamination currently regulated under	-33.75997969	151.2142944

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
FORESTVILLE	Shell Service Station	667 Warringah ROAD	Service Station	Contamination formerly regulated under	-33.76035336	151.2184929
FORRESTERS BEACH	Caltex Service Station	The Entrance Rd Cnr Bellevue ROAD	Service Station	Regulation under CLM Act not required	-33.40057818	151.4687631
FORSTER	Caltex Service Station	16-18 Lake STREET	Service Station	Regulation under CLM Act not required	-32.18306967	152.5162492
FORSTER	Shell (Kneebone's) Service Station	2-6 The Lakes WAY	Service Station	Regulation under CLM Act not required	-32.1946108	152.5145662
FORSTER	Enhance (Former Mobil) Service Station	86-88 Macintosh STREET	Service Station	Regulation under CLM Act not required	-32.19079468	152.5154847
FREDERICKTON	Former Service station	2-4 Great North ROAD	Service Station	Regulation under CLM Act not required	-31.03513998	152.8794105
FRENCHS FOREST	Former BP Service Station	Russell AVENUE	Service Station	Regulation under CLM Act not required	-33.75018093	151.2245005
FRENCHS FOREST	Former 7-Eleven / Mobil Beacon Hill Serv	312 Warringah ROAD	Service Station	Regulation under CLM Act not 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
FRESHWATER	Former Dry Cleaners	121 Wyndora AVENUE	Other Industry	Regulation under CLM Act not required	-33.77425321	151.2821553
GEORGETOWN	Former Caltex Service Station	4 Georgetown ROAD	Service Station	Regulation under CLM Act not required	-32.91121105	151.7319693
GERRINGONG	Gerringong Cooperative	18 Belinda STREET	Other Petroleum	Regulation under CLM Act not required	-34.74518835	150.8181054
GILGANDRA	United (Former Mobil) Service Station	13 Castlereagh STREET	Service Station	Regulation under CLM Act not required	-31.71715641	148.6581574
GILGANDRA	Former Mobil Depot	2 Federation STREET	Other Petroleum	Regulation under CLM Act not required	-31.70937362	148.6522102
GILGANDRA	Former Mobil Depot	20 Federation STREET	Other Petroleum	Regulation under CLM Act not required	-31.70771744	148.6514198
GILGANDRA	Caltex Service Station Gilgandra	6425 Newell HIGHWAY	Service Station	Regulation under CLM Act not required	-31.72545524	148.65281

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
GILLENBAH	Caltex (Former Mobil) Narrandera Service	16321 - 16335 Newell HIGHWAY	Service Station	Regulation under CLM Act not required	-34.76124219	146.5398604
GIRRAWEE	Industrial Galvanizers site	20-22 Amax AVENUE	Metal Industry	Under assessment	-33.80500693	150.9396743
GIRRAWEE	Caltex Pendle Hill Service Station Girrawe	602 Great Western HIGHWAY	Service Station	Regulation under CLM Act not required	-33.80827518	150.9421511
GLADESVILLE	Caltex Service Station	287-295 Victoria ROAD	Service Station	Regulation under CLM Act not required	-33.8285374	151.1268639
GLADESVILLE	Road Reserve	Pittwater ROAD	Other Industry	Regulation under CLM Act not required	-33.81603924	151.1355085
GLADESVILLE	Caltex Service Station	116 Victoria ROAD	Service Station	Regulation under CLM Act not required	-33.83575319	151.1277863
GLADESVILLE	Glade View Business Park	436-484 Victoria ROAD	Other Industry	Contamination currently regulated under	-33.82382382	151.1223941
GLADSTONE	Barbers Auto Port	52-53 Barnard STREET	Service Station	Under assessment	-31.023021	152.948309
GLEBE	The Hill and Jubilee Embankment	12 Maxwell ROAD	Other Industry	Regulation under CLM Act not required	-33.87573032	151.1776027
GLEN INNES	Ambulance Station	106 Bourke STREET	Unclassified	Regulation under CLM Act not required	-29.73805854	151.7313138
GLEN INNES	Telstra Depot Glen Innes	126 Lambeth STREET	Unclassified	Regulation under CLM Act not required	-29.73565341	151.7278271
GLEN INNES	Caltex Glen Innes Service Station	Meade Street, corner Church STREET	Service Station	Regulation under CLM Act not required	-29.73699014	151.7379335
GLEN INNES	Former Shell Depot	Lambeth STREET	Other Petroleum	Regulation under CLM Act not required	-29.7376309	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
GLEN INNES	Council-owned Laneway	Lot 2 Lang STREET	Gasworks	Regulation under CLM Act not required	-29.74385432	151.7323049
GLEN INNES	Caltex Service Station	Cnr Taylor Street & Church STREET	Service Station	Regulation under CLM Act not required	-29.73289036	151.739653

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
GLEN INNES	Caltex Glen Innes Paddock	9979 New England HIGHWAY	Service Station	Regulation under CLM Act not required	-29.75608853	151.7344106
GLENBROOK	Caltex Service Station Glenbrook	78 Great Western HIGHWAY	Service Station	Regulation under CLM Act not required	-33.76545234	150.6215447
GLENDALE	Coles Express Glendale	593 Main ROAD	Service Station	Regulation under CLM Act not required	-32.92709242	151.637946
GLENDALE	Settlement Pond	65 Glendale DRIVE	Unclassified	Regulation under CLM Act not required	-32.93411399	151.6483695
GLENDALE	Former Service Station	334-342 Lake ROAD	Unclassified	Regulation under CLM Act not required	-32.92775076	151.6433463
GLENDALE	Woolworths Service Station	Stockland DRIVE	Service Station	Regulation under CLM Act not required	-32.93250548	151.6404097
GLENDENNING	7-Eleven Plumpton Service Station Glend	1 Dublin Street, corner Richmond ROAD	Service Station	Regulation under CLM Act not required	-33.73988232	150.8603323
GLENORIE	Caltex Glenorie Service Station	912 Old Northern ROAD	Service Station	Regulation under CLM Act not required	-33.60550946	151.0126731
GLENTHORNE	Caltex Taree Service Station	Manning River DRIVE	Service Station	Regulation under CLM Act not required	-31.94415251	152.4703511
GLOUCESTER	Caltex Service Station	141 Church STREET	Service Station	Regulation under CLM Act not required	-32.01222514	151.9579521
GOOLMANGAR	Goolmangar General Store	851 Nimbin ROAD	Service Station	Regulation under CLM Act not required	-28.74694441	153.225401
GOONELLABAH	Former Invercauld Road Cattle Dip	161 Invercauld ROAD	Cattle Dip	Contamination formerly regulated under	-28.8308417	153.3098878
GOSFORD	United (former Mobil) Depot	Corner Merinee Road and Bowen CRESC	Other Petroleum	Regulation under CLM Act not required	-33.41523225	151.3257069
GOULBURN	Former Goulburn Gasworks	1 Blackshaw ROAD	Gasworks	Contamination currently regulated under	-34.75313166	149.725032
GOULBURN	Goulburn Tannery	13 Gibson STREET	Other Industry	Regulation under CLM Act not required	-34.73756525	149.72059
GOULBURN	Caltex Depot	13 Sloane STREET	Other Petroleum	Regulation under CLM Act not required	-34.77423152	149.7088626

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
GOULBURN	Metro Goulburn Depot	23 Braidwood ROAD	Other Petroleum	Regulation under CLM Act not required	-34.76217302	149.7170897
GOULBURN	Caltex Service Station	72-74 Clinton STREET	Service Station	Regulation under CLM Act not required	-34.75728157	149.7135824
GOULBURN	Caltex Service Station	68 Goldsmith STREET	Service Station	Regulation under CLM Act not required	-34.75054432	149.7192098
GOULBURN	Former Shell Autoport Service Station	Corner Bruce Street and Lagoon STREET	Service Station	Regulation under CLM Act not required	-34.74807885	149.7266246
GOULBURN	Coles Express Service Station	90 Cowper (Corner Clinton Street) STREET	Service Station	Regulation under CLM Act not required	-34.75566648	149.7107831
GOULBURN	Mobil Service Station	129 Lagoon STREET	Service Station	Contamination formerly regulated under	-34.74618793	149.7330484
GOULBURN	Caltex Service Station	315 Auburn, corner Bradley STREET	Service Station	Regulation under CLM Act not required	-34.74942293	149.7232692
GOULBURN	Former Mobil Service Station Goulburn	422-426 Auburn STREET	Service Station	Regulation under CLM Act not required	-34.74869879	149.7229392
GRAFTON	Former General Store and Service Station	161 Turf STREET	Service Station	Regulation under CLM Act not required	-29.67412811	152.9336609
GRAFTON	Lowes Petroleum (BP-Branded) Depot, G	13 Orara STREET	Other Petroleum	Regulation under CLM Act not required	-29.67016421	152.918161
GRAFTON	Former Shell Depot	2 Milton STREET	Other Petroleum	Regulation under CLM Act not required	-29.67723019	152.9205374
GRAFTON	Grafton Works Depot	26-28 Bruce STREET	Other Petroleum	Regulation under CLM Act not required	-29.67975507	152.9249357
GRAFTON	Former BP Service Station (Reliance Petro	202 Queen STREET	Service Station	Regulation under CLM Act not required	-29.67645469	152.9423977
GRAFTON	Woolworths Petrol	75 - 77 Fitzroy Street Cnr of Duke STREET	Service Station	Regulation under CLM Act not required	-29.69221713	152.9343562
GRAFTON	Caltex Service Station	Corner Villiers St and Fitzroy STREET	Service Station	Regulation under CLM Act not required	-29.69296308	152.9366431
GRAFTON	BP Service Station (Reliance Petroleum)	14 Villiers (Cnr Fitzroy) STREET	Service Station	Regulation under CLM Act not required	-29.69345456	152.9373123

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
GRAFTON	Former Mobil Depot Grafton	2-16 Bruce STREET	Other Petroleum	Regulation under CLM Act not required	-29.68093591	152.9231289
GRAFTON	Caltex Service Station	179 Prince STREET	Service Station	Regulation under CLM Act not 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	Australand	15-17 Berry STREET	Other Industry	Regulation under CLM Act not required	-33.83600073	151.0211988
GRANVILLE	Woolworths Service Station Granville	158 Clyde STREET	Service Station	Regulation under CLM Act not required	-33.84623338	151.0124885
GRANVILLE	Commercial Property	2B Factory STREET	Other Industry	Ongoing maintenance required to manag	-33.84173556	151.0165687
GRANVILLE	Old Granville Depot	23 Elizabeth STREET	Unclassified	Regulation under CLM Act not required	-33.83765925	151.008528
GRANVILLE	7-Eleven Service Station	154-160 Parramatta ROAD	Service Station	Regulation under CLM Act not required	-33.83022685	151.0101322
GRANVILLE	A'Becketts Creek	Albert STREET	Unclassified	Contamination currently regulated under	-33.82735776	151.0112255
GREEN POINT	7-Eleven Green Point	388-390 Avoca DRIVE	Service Station	Under assessment	-33.4623258	151.3627093
GREENACRE	Former Plating Works	12 Claremont STREET	Unclassified	Regulation under CLM Act not required	-33.89992254	151.0386128
GREENACRE	7-Eleven (former Mobil) Service Station	301-305 Hume HIGHWAY	Service Station	Regulation under CLM Act not required	-33.90524488	151.0419971
GREENACRE	Caltex Service Station	87 - 91 Roberts ROAD	Service Station	Regulation under CLM Act not required	-33.90461089	151.0648581
GREENACRE	Coles Greenacre	13-19 Boronia ROAD	Other Industry	Regulation under CLM Act not required	-33.9061123	151.0561759
GREENWICH	Gore Creek Reserve - Drainage Line	St Vincents ROAD	Other Industry	Regulation under CLM Act not required	-33.82888693	151.1819101
GRENFELL	Former SRA Fuel Depot	Grafton STREET	Other Petroleum	Regulation under CLM Act not required	-33.89351237	148.1560188

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
GRENFELL	Grenfell Gasworks	Corner Gooloogong Road & Bourke STREET	Gasworks	Regulation under CLM Act not required	-33.89006016	148.1615443
GRETA	Coles Express Greta	122 New England HIGHWAY	Service Station	Regulation under CLM Act not required	-32.67656357	151.3872818
GRETA	redevelopment site	112-114 High STREET	Other Industry	Regulation under CLM Act not required	-32.67706709	151.3876682
GRETA	Former landfill	Hollingshed ROAD	Landfill	Regulation under CLM Act not required	-32.66705287	151.3923474
GREYSTANES	Metro Branded (former Mobil) Service Station	73 Ettalong ROAD	Service Station	Regulation under CLM Act not required	-33.81822648	150.9513946
GRIFFITH	Liberty Depot (former Shell CVRO) Griffith	6-10 Mackay AVENUE	Other Petroleum	Regulation under CLM Act not required	-34.2910045	146.063824
GRIFFITH	Former Murrumbidgee Irrigation Depot	55-77 Banna AVENUE	Other Industry	Regulation under CLM Act not required	-34.28858242	146.0567509
GRIFFITH	Mobil Depot - Griffith Airport	Off Remembrance DRIVE	Other Petroleum	Regulation under CLM Act not required	-34.25618872	146.0620449
GRIFFITH	Former Ampol Depot	32-34 Mackay AVENUE	Other Petroleum	Regulation under CLM Act not required	-34.2933331	146.0679503
GRIFFITH	Caltex Service Station and Depot	2-4 Mackay AVENUE	Service Station	Regulation under CLM Act not required	-34.2908766	146.0630815
GRIFFITH	Former Landmark Fertiliser Storage Facility	2-8 Jensen ROAD	Chemical Industry	Regulation under CLM Act not required	-34.29365599	146.0536413
GRIFFITH	Belford Petroleum (former Mobil) Depot	30 Banna AVENUE	Service Station	Regulation under CLM Act not required	-34.29042827	146.0595497
GRIFFITH	Former BP Service Station (Reliance Petroleum)	81 Banna AVENUE	Service Station	Regulation under CLM Act not 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
GULGONG	Lowes Petroleum (former BP) Depot Gulgong	6 Railway STREET	Other Petroleum	Regulation under CLM Act not required	-32.35950625	149.5461499
GULGONG	The Oval Site	Queen STREET	Unclassified	Regulation under CLM Act not required	-32.36169815	149.531075

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
GULMARRAD	BP Service Station Maclean	3976 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-29.48537407	153.2004311
GUMLY GUMLY	Caltex Service Station	3723 Sturt HIGHWAY	Service Station	Regulation under CLM Act not required	-35.13590309	147.4424551
GUMLY GUMLY	Brick Kiln Reserve	Eunony Bridge ROAD	Landfill	Regulation under CLM Act not required	-35.12098411	147.4196309
GUNDAGAI	Former Mobil Depot	98 Mount STREET	Other Petroleum	Regulation under CLM Act not required	-35.08206783	148.096221
GUNNEDAH	Caltex Service Station	21 Abbott STREET	Service Station	Regulation under CLM Act not required	-30.98021001	150.2561856
GUNNEDAH	Former Shell Depot Gunnedah	85-89 Barber STREET	Other Petroleum	Regulation under CLM Act not required	-30.97949284	150.2507401
GUNNEDAH	Mobil Gunnedah Depot	16-24 Wentworth STREET	Other Petroleum	Regulation under CLM Act not required	-30.98428725	150.260609
GUNNEDAH	BP Depot Gunnedah	103 Mathias ROAD	Other Petroleum	Contamination currently regulated under	-30.96665001	150.2326526
GUNNEDAH	BP Service Station	Corner Conadilly Street & Henry STREET	Service Station	Contamination formerly regulated under	-30.98116266	150.2583066
GUNNEDAH	Mobil Service Station	341 Conadilly STREET	Service Station	Contamination formerly regulated under	-30.9807394	150.2578428
GUNNEDAH	Property NSW Site	35-37 Abbott STREET	Other Petroleum	Regulation under CLM Act not required	-30.9789841	150.25737
GUNNEDAH	Former Telstra Line Depot	81 Barber STREET	Other Petroleum	Regulation under CLM Act not required	-30.97933809	150.2503121
GUNNEDAH	Adjacent to Service Station	Intersection of Henry Street and Conadilly	Service Station	Contamination formerly regulated under	-30.98072588	150.2582802
GUNNEDAH	Former Caltex Depot	61 Railway AVENUE	Other Petroleum	Contamination formerly regulated under	-30.97953242	150.2494457
GUNNING	Gunning Motors	56 Yass STREET	Service Station	Regulation under CLM Act not required	-34.78159326	149.2684791
GUYRA	Guyra Fourways Service Centre	87-89 Bradley STREET	Service Station	Regulation under CLM Act not required	-30.24580085	151.6701156

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
GUYRA	Caltex-branded Service Station	4352 New England HIGHWAY	Service Station	Regulation under CLM Act not required	-30.20601937	151.6757291
GUYRA	StateRail land leased to Incitec	Starr ROAD	Other Industry	Regulation under CLM Act not required	-30.23157011	151.6707135
GWANDALAN	Metro Petroleum Gwandalan (Formerly G	47 Orana ROAD	Service Station	Regulation under CLM Act not required	-33.13632941	151.5813396
GWANDALAN	Former Gwandalan Landfill	Kanangra DRIVE	Landfill	Regulation under CLM Act not required	-33.17497722	151.5917107
GYMEA	7-Eleven (former Mobil) GyMEA Service S	110 GyMEA Bay ROAD	Service Station	Regulation under CLM Act not required	-34.03745848	151.0848547
GYMEA	Coles Express Kirrawee	470 Princes (Cnr The Boulevard) HIGHW	Service Station	Contamination currently regulated under	-34.02735302	151.0845079
GYMEA	Former Shell Service Station GyMEA	GyMEA Bay ROAD	Service Station	Regulation under CLM Act not required	-34.04129676	151.0841328
HABERFIELD	7-Eleven Haberfield	25-35 Parramatta ROAD	Service Station	Contamination currently regulated under	-33.88794591	151.14287
HALEKULANI	Former Halekulani Landfill	Macleay DRIVE	Landfill	Regulation under CLM Act not required	-33.21446301	151.5527625
HAMILTON	SRA Land	10 Maitland ROAD	Unclassified	Regulation under CLM Act not required	-32.91994358	151.7512417
HAMILTON	Taxi Services	116 Tudor STREET	Service Station	Contamination formerly regulated under	-32.92351606	151.7454742
HAMILTON	Caltex Hamilton	59-63 Tudor STREET	Service Station	Regulation under CLM Act not required	-32.92498593	151.7509313
HAMILTON	Newcastle Toyota	65 Tudor STREET	Other Petroleum	Regulation under CLM Act not required	-32.925171	151.7504048
HAMILTON	Hamilton Bus Depot	Cnr Denison Street and Gordon AVENUE	Other Petroleum	Regulation under CLM Act not required	-32.92687413	151.7501743
HAMILTON NORTH	Shell Newcastle Terminal	5 Chatham ROAD	Other Petroleum	Contamination currently regulated under	-32.91630469	151.7408712
HAMILTON NORTH	Former Black and Decker Site	56 Clyde STREET	Metal Industry	Contamination currently regulated under	-32.91080413	151.7358236

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
HAMILTON NORTH	Hamilton Gasworks	1 Chatham ROAD	Gasworks	Contamination currently regulated under	-32.91362741	151.7406241
HAMILTON NORTH	Former ELMA Site	54 Clyde STREET	Other Industry	Contamination currently regulated under	-32.91145768	151.7367691
HARDEN	SRA Site	31 Aurvill ROAD	Unclassified	Regulation under CLM Act not required	-34.54998656	148.3689577
HARDEN	SRA Site	51 Whitton LANE	Unclassified	Contamination formerly regulated under	-34.55396035	148.3713349
HARDEN	South West Fuel Harden	294 Albury STREET	Service Station	Regulation under CLM Act not required	-34.55007021	148.3513821
HAROLDS CROSS	Lot 59, Vernelly Road, Harolds Cross NSW	Lot 59, Vernelly ROAD	Other Industry	Regulation under CLM Act not required	-35.547941	149.588976
HARRIS PARK	Dalley Street Reserve	2A Dalley STREET	Other Industry	Regulation under CLM Act not required	-33.82749123	151.0097539
HARTLEY VALE	Former Shale Oil Refinery	Lot 52 Hartley Vale ROAD	Unclassified	Contamination currently regulated under	-33.52766912	150.2417878
HASTINGS POINT	Coles Express Hastings Point	99 Tweed Coast ROAD	Service Station	Regulation under CLM Act not required	-28.36914103	153.5725676
HAY	SRA Land	429, 431, 435, 437 & 439 Murray STREET	Other Industry	Regulation under CLM Act not required	-34.49965611	144.840976
HAY	SRA Land	443 Murray STREET	Other Industry	Contamination formerly regulated under	-34.49966753	144.8410778
HAY	Former Shell Hay Depot	391 Murray STREET	Other Petroleum	Regulation under CLM Act not required	-34.50028195	144.8463999
HAY	Former Mobil Depot Hay	397-399 Murray STREET	Other Petroleum	Regulation under CLM Act not required	-34.50019184	144.8456578
HAY SOUTH	Caltex Service Station	429-431 Moama STREET	Service Station	Regulation under CLM Act not required	-34.52001427	144.8380121
HAZELBROOK	Caltex Service Station Hazelbrook	198 Great Western HIGHWAY	Service Station	Regulation under CLM Act not required	-33.72106175	150.4520976
HEATHCOTE	Caltex Service Station	1344 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-34.08841066	151.0072048

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
HEATHCOTE	Caltex Service Station	1403 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-34.09059834	151.003752
HEATHCOTE	Shell Coles Express Service Station	1355 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-34.08780042	151.0069741
HEATHERBRAE	Bogas (Former Caltex) Service Station	3 Speedy Lock LANE	Service Station	Regulation under CLM Act not required	-32.78057822	151.7372135
HEATHERBRAE	Shell Coles Express Motto Farm Service S	2137 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-32.79835449	151.7176284
HEXHAM	QR National - Hexham Precinct	179 & 3/67 Maitland ROAD	Other Industry	Regulation under CLM Act not required	-32.83474038	151.6821895
HEXHAM	Caltex Diesel Stop	360 Maitland ROAD	Service Station	Regulation under CLM Act not required	-32.82844873	151.6851063
HEXHAM	Cummins Newcastle Facility Hexham	21 Galleghan STREET	Other Industry	Regulation under CLM Act not required	-32.83186739	151.686709
HEXHAM	BP Service Station (Reliance Petroleum)	Corner Pacific Highway and Old Maitland	Service Station	Regulation under CLM Act not required	-32.82756403	151.6846929
HEXHAM	Former Forgacs Site	21 Sparke STREET	Chemical Industry	Contamination currently regulated under	-32.85464558	151.6988053
HEXHAM	Caltex-Bogas Warehouse	239 Old Maitland ROAD	Service Station	Regulation under CLM Act not required	-32.82899942	151.6861849
HEXHAM	Industrial Galvanizers	312 Pacific HIGHWAY	Metal Industry	Contamination currently regulated under	-32.83457186	151.6884941
HEXHAM	14 Sparke St Hexham	14 Sparke STREET	Metal Industry	Under assessment	-32.85394328	151.6960863
HILLSTON	Former BP Depot Hillston	141-143 Cowper STREET	Other Petroleum	Regulation under CLM Act not required	-33.48823546	145.5381623
HOLBROOK	Caltex Truckstop	Hume HIGHWAY	Service Station	Regulation under CLM Act not required	-35.71332625	147.3207237
HOME BUSH	Ausgrid Mason Park Substation	1 Underwood ROAD	Other Industry	Regulation under CLM Act not required	-33.85674677	151.0747044
HOME BUSH BAY	SUEZ Waste Recycling Centre (WRC) and	Corner Pondage Link and Hill ROAD	Landfill	Regulation under CLM Act not required	-33.84359299	151.0593656

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
HOMEBUSH WEST	Caltex Service Station Homebush West	334-336 Parramatta ROAD	Service Station	Regulation under CLM Act not required	-33.8581543	151.0681261
HOMEBUSH WEST	Former Ford Landfill and Adjacent Land	22 Mandemar AVENUE	Landfill	Under assessment	-33.86142424	151.0625556
HORNSBY	Midas Car Care Centre Hornsby	2A Linda STREET	Other Industry	Regulation under CLM Act not required	-33.70052215	151.1004786
HORNSBY	Coles Express Hornsby	194- 206 Pacific HIGHWAY	Service Station	Contamination currently regulated under	-33.7071993	151.0991452
HORNSBY	Hornsby Train Maintenance Centre	1B Stephen STREET	Other Industry	Regulation under CLM Act not required	-33.69370022	151.1035939
HOXTON PARK	Endeavour Energy Hoxton Park	490 Hoxton Park ROAD	Other Industry	Regulation under CLM Act not required	-33.92766437	150.8689069
HUNTERS HILL	Coles Express Hunters Hill	4 Ryde ROAD	Service Station	Regulation under CLM Act not required	-33.8317985	151.141655
HUNTERS HILL	Foreshore Land	Rear of 7, 9 & 11 Nelson PARADE	Other Industry	Contamination currently regulated under	-33.84248362	151.1649249
HUNTERS HILL	7, 9 and 11 Nelson Parade Hunters Hill	7, 9 and 11 Nelson PARADE	Other Industry	Regulation under CLM Act not required	-33.84220148	151.1649724
HURLSTONE PARK	Former Telstra Depot	82 Canterbury ROAD	Service Station	Regulation under CLM Act not required	-33.90803171	151.1258121
HURLSTONE PARK	Former Speedway Petroleum Service Station	610 - 618 New Canterbury ROAD	Service Station	Contamination formerly regulated under	-33.90541228	151.1322009
HURLSTONE PARK	7-Eleven Hurlstone Park	670 New Canterbury ROAD	Service Station	Regulation under CLM Act not required	-33.90510388	151.1299825
HURSTVILLE GROVE	Moore Reserve	Morshead DRIVE	Landfill	Contamination currently regulated under	-33.97920603	151.0873578
INGLEBURN	7-Eleven Ingleburn	72 Cumberland Road, corner Oxford ROAD	Service Station	Regulation under CLM Act not required	-34.00041505	150.8679742
INVERELL	Former Shell Depot	25 Edward STREET	Other Petroleum	Regulation under CLM Act not required	-29.76151684	151.1182033
INVERELL	Former Service Station	20 Oliver STREET	Service Station	Regulation under CLM Act not required	-29.77229743	151.1152692

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
INVERELL	Former Caltex Depot Inverell	4 Edward STREET	Service Station	Regulation under CLM Act not required	-29.76123104	151.1147983
INVERELL	Former Mobil Inverell Depot	29-33 Edward STREET	Other Petroleum	Regulation under CLM Act not required	-29.76135322	151.1171412
INVERELL	Caltex Service Station	55-59 Ring STREET	Service Station	Regulation under CLM Act not required	-29.76204512	151.1141737
INVERELL	Former Mobil Service Station	Corner Otho Street and Henderson STREET	Service Station	Regulation under CLM Act not required	-29.7786926	151.1149921
INVERELL	Former Caltex Service Station	141 Otho STREET	Service Station	Regulation under CLM Act not required	-29.77819403	151.1145699
ISLINGTON	Caltex Service Station	240 Maitland ROAD	Service Station	Regulation under CLM Act not required	-32.91138644	151.7457701
ISLINGTON	Shell Pipeline Easement (vacant land)	24 Fern STREET	Other Petroleum	Regulation under CLM Act not required	-32.91706254	151.7473809
JAMISONTOWN	BP Service Station Jamisontown	124 - 128 Mulgoa ROAD	Service Station	Regulation under CLM Act not required	-33.76978323	150.6764977
JAMISONTOWN	Former Caltex Jamisontown	229-231 Mulgoa ROAD	Service Station	Regulation under CLM Act not required	-33.76661447	150.6784735
JAMISONTOWN	7-Eleven Service Station	92 Mulgoa ROAD	Service Station	Contamination currently regulated under	-33.7667231	150.6796488
JANNALI	Former Mobil Service Station	121 Georges River ROAD	Service Station	Regulation under CLM Act not required	-34.01614613	151.0681921
JANNALI	Former IGA	541 Box ROAD	Other Industry	Regulation under CLM Act not required	-34.01602134	151.0660384
JENNINGS	Jennings Former Arsenic Poison Factory	Duke Street, Manor Street, and Ballandean	Chemical Industry	Contamination currently regulated under	-28.929342	151.9298622
JENNINGS	United Jennings Service Station	1823 New England HIGHWAY	Service Station	Regulation under CLM Act not required	-28.9323235	151.9260334
JESMOND	Caltex Service Station	27 Bluegum ROAD	Service Station	Regulation under CLM Act not required	-32.9029287	151.691164
JINDABYNE	BP Service Station (Reliance Petroleum)	8 Kosciuszko ROAD	Service Station	Regulation under CLM Act not required	-36.41478692	148.6178882

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
JINDABYNE	Caltex Service Station	50 Kosciuszko ROAD	Service Station	Regulation under CLM Act not required	-36.41395847	148.6225113
JINGELLIC	Former Jingellic School	3179 River ROAD	Other Industry	Regulation under CLM Act not required	-35.92649487	147.7010655
JUNEE	Subdivision Proposal	5858 Gundagai ROAD	Unclassified	Regulation under CLM Act not required	-34.87783587	147.6067578
JUNEE	United Junee Service Station	No. 118-134 BROADWAY	Service Station	Regulation under CLM Act not required	-34.86808328	147.5834883
JUNEE	Junee Railway Workshops	92 Harold STREET	Other Industry	Under assessment	-34.881089	147.576365
KANAHOOKA	Former Dapto Smelter Site, Kanahooka (r	Off Kanahooka ROAD	Metal Industry	Regulation under CLM Act not required	-34.4941348	150.8224482
KANDOS	Cement Australia Kandos Cement Works	1 Jamison STREET	Other Industry	Regulation under CLM Act not required	-32.86399912	149.9779259
KANWAL	Kanwal General Store and Fuel Supplies a	68 and part of 70 Craigie AVENUE	Service Station	Contamination currently regulated under	-33.26310031	151.4817395
KANWAL	Former Bus and Truck Rental Yard	645-647 Pacific Highway HIGHWAY	Other Petroleum	Regulation under CLM Act not required	-33.26233802	151.4825469
KARIONG	Coles Express Kariong	6 Central Coast HIGHWAY	Service Station	Regulation under CLM Act not required	-33.43443192	151.2963401
KARIONG	Caltex Service Station	Lot 2 Langford DRIVE	Service Station	Regulation under CLM Act not required	-33.43934827	151.2935447
KARUAH	BP Roadhouse Karuah	403 Tarean ROAD	Service Station	Regulation under CLM Act not required	-32.65371781	151.9629963
KATOOMBA	Aldi Stores	201 Katoomba STREET	Service Station	Regulation under CLM Act not required	-33.71756625	150.3101649
KATOOMBA	Former Katoomba/Leura Gasworks	Megalong STREET	Gasworks	Contamination currently regulated under	-33.71304308	150.3194624
KELLYVILLE	Caltex Service Station	3-5 Windsor ROAD	Service Station	Regulation under CLM Act not 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

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KELSO	Caltex Service Station Kelso	19 Sydney ROAD	Service Station	Regulation under CLM Act not required	-33.41904247	149.6023985
KELSO	BP Service Station (Reliance Petroleum)	63 Sydney ROAD	Service Station	Regulation under CLM Act not required	-33.41925328	149.6076677
KELSO	23 Zagreb Street, Kelso NSW	23 Zagreb STREET	Other Industry	Under assessment	-33.427361	149.609917
KEMBLA GRANGE	ShawCor Australia	66 West Dapto ROAD	Other Petroleum	Regulation under CLM Act not required	-34.46875328	150.8106326
KEMBLAWARRA	Griffins Bay, Lake Illawarra	Shellharbour ROAD	Landfill	Regulation under CLM Act not required	-34.49653984	150.8943776
KEMPS CREEK	Caltex-branded Service Station	1163 Mamre ROAD	Service Station	Regulation under CLM Act not required	-33.86972102	150.7966074
KEMPSEY	Kempsey Showground	19 Sea STREET	Unclassified	Contamination being managed via the pla	-31.07334836	152.8308795
KEMPSEY	Former Shell Depot	43-51 Gladstone STREET	Other Petroleum	Regulation under CLM Act not required	-31.07500944	152.8346699
KEMPSEY	Former Mobil Depot	14 Hopetoun STREET	Other Petroleum	Regulation under CLM Act not required	-31.07603107	152.8350132
KEMPSEY	Shell Coles Express Service Station Kempsey	165 Smith STREET	Service Station	Regulation under CLM Act not required	-31.07036743	152.8461571
KEMPSEY	Mobil Depot	154 Belgrave STREET	Service Station	Regulation under CLM Act not required	-31.07965043	152.8326303
KEMPSEY	Liberty (Former Mobil) Service Station	108-112 Smith STREET	Service Station	Regulation under CLM Act not required	-31.07492508	152.8431945
KENSINGTON	7-Eleven Kensington	135 Anzac PARADE	Service Station	Regulation under CLM Act not required	-33.91035885	151.2228537
KENSINGTON	Former Ampol Service Station	76-82 Anzac PARADE	Service Station	Regulation under CLM Act not 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	Caltex Service Station	211-213 Anzac PARADE	Service Station	Regulation under CLM Act not required	-33.91460752	151.2251266

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
KENTHURST	Vacant Land	259 McCylmonts ROAD	Unclassified	Regulation under CLM Act not required	-33.61283529	150.9425303
KHANCOBAN	Khancoban Tip	Alpine WAY	Landfill	Regulation under CLM Act not required	-36.21994191	148.1542718
KIAMA	Former Gasworks	105 to 109 and 113 Shoalhaven STREET	Gasworks	Regulation under CLM Act not 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
KILLARA	7-Eleven Service Station (Former Mobil)	496 Pacific HIGHWAY	Service Station	Contamination currently regulated under	-33.77146554	151.1606903
KILLARA	Former Caltex Service Station	692B-694 Pacific HIGHWAY	Service Station	Contamination formerly regulated under	-33.76306802	151.1550109
KILLARA	Killara Garage	544 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.76974164	151.1599696
KILLARA	Former BP Service Station Lindfield	478 Pacific HIGHWAY	Service Station	Contamination currently regulated under	-33.7719298	151.1613874
KILLARA	Land Adjacent to Former Service Station	684-684a, 690, 692 and 696 Pacific HIGHWAY	Service Station	Contamination formerly regulated under	-33.7631019	151.1548963
KINCUMBER	Frost Reserve	Avoca DRIVE	Landfill	Contamination currently regulated under	-33.47065695	151.3909044
KINGS PARK	Multi-Fill	14 Garling ROAD	Chemical Industry	Under assessment	-33.74478046	150.9111964
KINGS PARK	Former Dow Corning Factory	21 Tattersall ROAD	Chemical Industry	Regulation under CLM Act not required	-33.75012653	150.9138477
KINGSFORD	Caltex Service Station	603-611 Anzac PARADE	Service Station	Regulation under CLM Act not required	-33.93435787	151.2371198
KINGSFORD	Coles Express Service Station Kingsford	58 Gardeners ROAD	Service Station	Regulation under CLM Act not required	-33.9250054	151.2257601
KINGSGROVE	Shell Coles Express Service Station	137 Kingsgrove ROAD	Service Station	Regulation under CLM Act not required	-33.93276948	151.099026
KINGSGROVE	Caltex Kingsgrove	351-357 Stoney Creek ROAD	Service Station	Regulation under CLM Act not required	-33.95132175	151.0926872

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
KINGSGROVE	State Transit Authority Depot	17-23 Richland STREET	Other Petroleum	Regulation under CLM Act not required	-33.93646086	151.0973617
KIRRAWEE	Ingal Civil Products	127-141 Bath ROAD	Metal Industry	Regulation under CLM Act not required	-34.03029516	151.0754469
KIRRAWEE	7-Eleven (former Mobil) Service Station	542-546 Princes HIGHWAY	Service Station	Regulation under CLM Act not 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
KOGARAH	Scarborough Park South	184R Production AVENUE	Landfill	Regulation being finalised	-33.97922253	151.140276
KOGARAH	Caltex Service Station	29 President AVENUE	Service Station	Regulation under CLM Act not required	-33.96516866	151.141145
KOGARAH	Former 7-Eleven Kogarah	734 Princes HIGHWAY	Service Station	Regulation being finalised	-33.96406472	151.1376011
KOGARAH	Woolworths Petrol Service Station	69 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-33.96330397	151.1371182
KOOLKHAN	Former Koolkhan Power Station	Summerland WAY	Other Industry	Regulation under CLM Act not required	-29.61688704	152.9300645
KOORAGANG	NPC, berths 2 and 3	Heron ROAD	Metal Industry	Regulation under CLM Act not required	-32.89260063	151.7742527
KOORAGANG	Kooragang Island Waste Facility	Off Cormorant ROAD	Metal Industry	Contamination currently regulated under	-32.86901125	151.7377773
KOORAGANG	Orica Kooragang Island	15 Greenleaf ROAD	Chemical Industry	Contamination currently regulated under	-32.89654619	151.7771372
KOORAGANG	Former Boral Timber Export Facility	16 Heron ROAD	Other Industry	Regulation under CLM Act not required	-32.89710295	151.7739966
KOORAGANG	Cleanaway Technical Services	19 Egret STREET	Other Industry	Regulation under CLM Act not required	-32.8812145	151.766282
KOORAGANG	Industrial Facility	39 Heron ROAD	Chemical Industry	Under assessment	-32.89106439	151.7784064
KOORAGANG	Vacant Land	Raven Street and Cormorant ROAD	Unclassified	Regulation under CLM Act not required	-32.88410199	151.7701334

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
KOORAGANG	Linx Logistics	240 Cormorant ROAD	Other Industry	Regulation under CLM Act not required	-32.87480951	151.7757352
KOORINGAL	Former Shell Wagga Depot	11-15 Lake Albert ROAD	Other Petroleum	Regulation under CLM Act not required	-35.12273113	147.3786005
KOORINGAL	Caltex Service Station	265-267 Lake Albert ROAD	Service Station	Regulation under CLM Act not required	-35.14078443	147.3755442
KOORINGAL	Caltex-branded (former Mobil) Service Station	24 Lake Albert ROAD	Service Station	Regulation under CLM Act not required	-35.12239591	147.3769936
KOSCIUSZKO	Smiggin Holes Snow Clearing Shed	Link ROAD	Landfill	Regulation under CLM Act not required	-36.39098211	148.4304981
KOSCIUSZKO	Khancoban Spoil Dump	Alpine WAY	Landfill	Regulation under CLM Act not required	-36.21982803	148.1527401
KOSCIUSZKO	Sawpit Creek landfill	13km from Jindabyne, off Kosciuszko ROAD	Landfill	Regulation under CLM Act not required	-36.34858097	148.5673374
KURMOND	BP Service Station	501 Bells Line of road ROAD	Service Station	Contamination formerly regulated under	-33.55099195	150.6912536
KURNELL	Former Phillips Imperial Chemicals site	260 Captain Cook DRIVE	Chemical Industry	Regulation under CLM Act not required	-34.02493837	151.1952149
KURNELL	Caltex Kurnell Terminal (refer also to ID23)	2 Solander STREET	Other Petroleum	Contamination currently regulated under	-34.0175214	151.2159572
KURNELL	Abbott Australasia	Captain Cook DRIVE	Chemical Industry	Contamination formerly regulated under	-34.02339937	151.19921
KURNELL	Former Caltex Kurnell Service Station	Corner Captain Cook Drive and Solander STREET	Service Station	Regulation under CLM Act not required	-34.01269846	151.2094347
KURRI KURRI	United Petroleum Service Station Kurri Kurri	279-281 Lang STREET	Service Station	Contamination formerly regulated under	-32.82047175	151.477646
KURRI KURRI	Kurri Kurri Smelter	Hart ROAD	Metal Industry	Regulation under CLM Act not required	-32.7873063	151.4828827
KYOGLE	Caltex Service Station	22-24 Summerland WAY	Service Station	Regulation under CLM Act not required	-28.61806766	153.003862
LAKE HAVEN	Caltex Service Station	Goobarabah Ave Cnr Gorokan DRIVE	Service Station	Regulation under CLM Act not required	-33.24337276	151.5065335

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
LAKEMBA	Former Lakemba Police Station	59 Quigg STREET	Unclassified	Regulation under CLM Act not required	-33.92199239	151.079412
LAKEMBA	Caltex Service Station - Corner Punchbow	81 Wangee ROAD	Service Station	Regulation under CLM Act not required	-33.91153044	151.073306
LAKEMBA	Caltex Service Station	961-967 Canterbury ROAD	Service Station	Regulation under CLM Act not required	-33.92671102	151.0814905
LAMBTON	Caltex Service Station	422 Newcastle ROAD	Service Station	Regulation under CLM Act not required	-32.9095592	151.7109684
LAMBTON	4-26 Verulam Road, Lambton NSW 2299	4-26 Verulam ROAD	Metal Industry	Under assessment	-32.912133	151.716498
LANE COVE	7-Eleven Service Station	203 Burns Bay ROAD	Service Station	Regulation under CLM Act not required	-33.81458334	151.1543844
LANE COVE	BP-branded Jasbe Service Station	62-70 Epping ROAD	Service Station	Regulation under CLM Act not required	-33.81108427	151.1641531
LANE COVE	Pacific Power	Sirius ROAD	Other Industry	Ongoing maintenance required to manag	-33.80701776	151.1449658
LANE COVE	Coles Express Service Station Burns Bay	254 Burns Bay ROAD	Service Station	Regulation under CLM Act not required	-33.81719214	151.1518774
LANE COVE	331-335 Burns Bay Road, Lane Cove NSW	331 and 333 - 335 Burns Bay ROAD	Other Industry	Under assessment	-33.8211575	151.1493074
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 Cove N	432 Pacific HIGHWAY	Service Station	Contamination currently regulated under	-33.8112038	151.175547
LANE COVE WEST	Caltex Lane Cove West	235-245 Burns Bay ROAD	Service Station	Regulation under CLM Act not required	-33.81719214	151.1518774
LANE COVE WEST	Ventemans Reach Bushland	Off Mars ROAD	Unclassified	Regulation under CLM Act not required	-33.80499552	151.1450719
LANE COVE WEST	Lovetts Reserve Walking Track	301B Burns Bay ROAD	Unclassified	Under preliminary investigation order	-33.82044223	151.1492125
LANSVALE	Mobil Service Station	44 Hume HIGHWAY	Service Station	Regulation under CLM Act not required	-33.89172416	150.9656537

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
LAURIETON	Camden Haven Tyre and Brake Centre (F	461 Ocean DRIVE	Service Station	Regulation under CLM Act not required	-31.64367775	152.7977735
LAVENDER BAY	SRA Land	French STREET	Unclassified	Regulation under CLM Act not 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	Caltex Service Station	436 Wagga (corner Dick Road) ROAD	Service Station	Regulation under CLM Act not required	-36.04500034	146.9444932
LAVINGTON	Former ERS liquid waste treatment and st	819 Knights ROAD	Other Industry	Regulation under CLM Act not required	-36.06763885	146.942143
LEETON	Former Mobil Depot	108 Calrose STREET	Other Petroleum	Regulation under CLM Act not required	-34.55813326	146.3921296
LEETON	Caltex Service Station	1 Belah STREET	Service Station	Regulation under CLM Act not required	-34.55421752	146.3998431
LEETON	Yenda Producers (formerly Incitec) Leeton	1 - 2 Canal STREET	Other Petroleum	Regulation under CLM Act not required	-34.55184684	146.3862573
LEETON	Former Fuel Depot, Leeton	1-3 Short STREET	Other Petroleum	Regulation under CLM Act not required	-34.55253237	146.3864507
LEETON	United Leeton Service Station	110 Kurrajong AVENUE	Service Station	Regulation under CLM Act not required	-34.55573364	146.4099077
LEICHHARDT	SRA Land	10-11 Balmain ROAD	Other Industry	Contamination formerly regulated under	-33.8776803	151.1591041
LEICHHARDT	Former Kolotex site	22 George STREET	Other Industry	Contamination currently regulated under	-33.88855307	151.1482106
LEICHHARDT	Former Labelcraft Site	30-40 George STREET	Chemical Industry	Contamination currently regulated under	-33.88778798	151.1484773
LEICHHARDT	Leichhardt Bus Depot Area E	240 Balmain Road, corner City West LINK	Other Industry	Regulation under CLM Act not required	-33.87589727	151.1598073
LEICHHARDT	RailCorp Leichhardt	7 Darley ROAD	Other Industry	Regulation under CLM Act not required	-33.87520846	151.1539012
LENNOX HEAD	Former Caltex Lennox Head	Byron STREET	Service Station	Regulation under CLM Act not required	-28.79189328	153.5883225

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
LENNOX HEAD	Spoors Dip	13 Fig Tree Hill DRIVE	Cattle Dip	Contamination formerly regulated under	-28.78258175	153.5752527
LEPPINGTON	Coles Express Leppington	1443 Camden Valley WAY	Service Station	Regulation under CLM Act not required	-33.96631609	150.8154793
LEUMEAH	Caltex Service Station	6 Rudd ROAD	Service Station	Regulation under CLM Act not required	-34.05398325	150.8299209
LEURA	Former Leura Garage	126-128 Leura MALL	Service Station	Regulation under CLM Act not required	-33.7125311	150.3315386
LIDCOMBE	Metro Lidcombe (former Liberty)	134 John STREET	Service Station	Contamination currently regulated under	-33.85456019	151.0468136
LIDDELL	Liddell Power Station	New England HIGHWAY	Other Industry	Regulation under CLM Act not required	-32.37393962	150.9756283
LIDSDALE	Angus Place Colliery	Wolgan ROAD	Other Industry	Regulation under CLM Act not required	-33.35274573	150.0996773
LIDSDALE	Kerosene Vale Colliery	Wolgan ROAD	Other Industry	Regulation under CLM Act not required	-33.38232515	150.0943561
LIDSDALE	Kerosene Vale Ash Repository at Walleray	110 Skelly ROAD	Other Industry	Under assessment	-33.388596	150.1071
LIGHTNING RIDGE	Former Ambulance Station	18 - 42 Pandora STREET	Other Industry	Regulation under CLM Act not required	-29.43133877	147.9812981
LIGHTNING RIDGE	Caltex Service Station	Onyx Street, corner Morilla STREET	Service Station	Regulation under CLM Act not required	-29.42922885	147.9747954
LILLIAN ROCK	Former 'Peters Dip' Cattle Tick Dip Site	427 Lillian Rock ROAD	Cattle Dip	Regulation under CLM Act not required	-28.5314327	153.1556392
LINDFIELD	7-Eleven (former Mobil) Service Station	238 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.7788603	151.1689594
LISAROW	OneSteel Recycling	902A Pacific HIGHWAY	Metal Industry	Regulation under CLM Act not required	-33.38420179	151.3655856
LISMORE	Caltex Lismore Service Station	136 Woodlark STREET	Service Station	Regulation under CLM Act not required	-28.80807597	153.2807591
LISMORE	Shell Coles Express Service Station	100 Dawson STREET	Service Station	Regulation under CLM Act not required	-28.81140865	153.2800472

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
LISMORE	Former Shell Depot	116 Wilson STREET	Other Petroleum	Regulation under CLM Act not required	-28.81070081	153.2621577
LISMORE	Caltex Service Station	73-75 Dawson STREET	Service Station	Regulation under CLM Act not required	-28.80894415	153.2809619
LISMORE	Lismore Gasworks	Cnr John Street & Keen STREET	Gasworks	Contamination formerly regulated under	-28.81764489	153.2710196
LISMORE	SRA Land	Norco LANE	Unclassified	Regulation under CLM Act not required	-28.810742	153.2702306
LISMORE HEIGHTS	Coles Express Lismore Heights	426 Ballina ROAD	Service Station	Contamination currently regulated under	-28.81068067	153.3053065
LISMORE HEIGHTS	Impacted land, below Beardow Street lan	22 New Ballina ROAD	Unclassified	Regulation under CLM Act not required	-28.80410458	153.2939349
LISMORE HEIGHTS	Roadside Embankment (Beardow Street)	Between Beardow and 22 New Ballina RO	Unclassified	Regulation under CLM Act not required	-28.80403	153.294056
LITHGOW	Former Shell CVRO and Depot	77 Bridge Street and 6 Gas Works LANE	Other Petroleum	Regulation under CLM Act not required	-33.47995091	150.162216
LITHGOW	Lithgow Thales	4 Martini PARADE	Metal Industry	Contamination formerly regulated under	-33.48988084	150.141366
LITHGOW	Former Mobil Depot	353 Main STREET	Other Petroleum	Regulation under CLM Act not required	-33.48235166	150.1383012
LITHGOW	Former Gasworks	Mort STREET	Gasworks	Regulation under CLM Act not required	-33.47995167	150.1635401
LITHGOW	Jasbe BP-branded Service Station (Former	1106 Great Western HIGHWAY	Service Station	Regulation under CLM Act not required	-33.48426647	150.134992
LITHGOW	Caltex Lithgow (Quota Park)	Adjacent to 1131 Great Western HIGHWAY	Unclassified	Regulation under CLM Act not required	-33.47927554	150.1366238
LIVERPOOL	AC McGrath (Wholesale) Pty Ltd	20 Shepherd Street and 6A & 6B Atkinson	Other Industry	Regulation under CLM Act not required	-33.9320192	150.9236862
LIVERPOOL	Former Car Park	4 - 6 Rose STREET	Unclassified	Regulation under CLM Act not required	-33.93258955	150.9157936
LIVERPOOL	Woolworths Service Station	59-67 Orange Grove ROAD	Service Station	Regulation under CLM Act not required	-33.90711248	150.9178855

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
LIVERPOOL	68 Speed Street (former gasworks)	2A Mill ROAD	Gasworks	Under assessment	-33.92992649	150.9224472
LOFTUS	BP Freedom Fuel Service Station Loftus	127 Loftus AVENUE	Service Station	Regulation under CLM Act not required	-34.04570765	151.0508004
LONG JETTY	Metro Petroleum Service Station Long Jet	326 The Entrance ROAD	Service Station	Under assessment	-33.35897356	151.4847709
LONG JETTY	Caltex Service Station	431 The Entrance ROAD	Service Station	Regulation under CLM Act not required	-33.36022468	151.4826553
LONG JETTY	Westside Petroleum Service Station	290-294 The Entrance ROAD	Service Station	Contamination currently regulated under	-33.35686757	151.4861479
LONG JETTY	7-Eleven (former Mobil) Service Station	184-186 The Entrance ROAD	Service Station	Regulation under CLM Act not required	-33.35089363	151.4924904
LONGUEVILLE	Caltex Service Station	5 Northwood ROAD	Service Station	Regulation under CLM Act not required	-33.82427366	151.1724497
LOXFORD	Kurri Kurri Wastewater Treatment Plant	McLeod ROAD	Other Industry	Under assessment	-32.799271	151.485989
LUCAS HEIGHTS	Harringtons Quarry	access from Little Forest ROAD	Landfill	Contamination currently regulated under	-34.03555347	150.9751826
LUCAS HEIGHTS	IWC landfill	Little Forest ROAD	Landfill	Contamination formerly regulated under	-34.03214889	150.9753474
LUDDENHAM	Caltex Service Station	3019-3035 The Northern ROAD	Service Station	Regulation under CLM Act not required	-33.87536093	150.6888872
MACKSVILLE	Caltex Service Station	Pacific (22-24 Cooper Street) HIGHWAY	Service Station	Regulation under CLM Act not required	-30.70977455	152.9198448
MACLEAN	MacLean Outdoors	255 River STREET	Service Station	Regulation under CLM Act not required	-29.45782683	153.1970725
MACQUARIE FIELDS	Caltex Service Station	68 Harold STREET	Service Station	Regulation under CLM Act not required	-33.98557276	150.8933681
MACQUARIE PARK	Caltex North Ryde Service Station	41-43 Epping ROAD	Service Station	Regulation under CLM Act not required	-33.79138236	151.1312248
MACQUARIE PARK	1-7 Waterloo Road, Macquarie Park	1-7 Waterloo ROAD	Other Petroleum	Regulation under CLM Act not required	-33.78806877	151.1332148

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
MACQUARIE PARK	Porters Creek Depot - Proposed Operatio	160 Wicks ROAD	Landfill	Regulation under CLM Act not required	-33.78581579	151.1367075
MACQUARIE PARK	De Burghs Cycleway - Lane Cove National	Riverside DRIVE	Other Petroleum	Regulation under CLM Act not required	-33.77668985	151.136542
MAITLAND	Maitland Gasworks	Charles STREET	Gasworks	Contamination currently regulated under	-32.73603658	151.5578926
MAITLAND	Hannan and High Street	Hannan Street and High STREET	Service Station	Regulation under CLM Act not required	-32.72731682	151.5515673
MAITLAND	Coles Express Service Station	235 High STREET	Service Station	Regulation under CLM Act not required	-32.73923807	151.5620399
MALABAR	ANZAC Rifle Range former landfill	Franklin STREET	Landfill	Regulation being finalised	-33.95792671	151.2566373
MANDALONG	Mandalong Mine	Mandalong ROAD	Other Industry	Regulation under CLM Act not required	-33.11725583	151.4616452
MANGROVE MOUNTAIN	Poultry Litter Containment Pit site	258 Waratah ROAD	Unclassified	Regulation under CLM Act not required	-33.28917947	151.1672284
MANILLA	Tamworth Regional Council Works Depot	73 River STREET	Other Petroleum	Regulation under CLM Act not required	-30.74879943	150.7181011
MANLY	Caltex Service Station	86 Pittwater ROAD	Service Station	Regulation under CLM Act not required	-33.79306889	151.2858638
MANLY	Open Space at end of Stuart Street (Lot 1	End of Stuart STREET	Gasworks	Regulation under CLM Act not required	-33.8078063	151.2898273
MANLY	St Patrick's Estate	151 Darley ROAD	Unclassified	Regulation under CLM Act not required	-33.8044568	151.2938595
MANLY	Former Little Manly Point Gasworks	Stuart STREET	Gasworks	Ongoing maintenance required to manag	-33.8081596	151.287697
MANLY VALE	Caltex Service Station Manly Vale	236-238 Condamine STREET	Service Station	Regulation under CLM Act not required	-33.78508231	151.2674386
MANLY VALE	Former Landfill Addiscombe Road	Addiscombe ROAD	Landfill	Contamination currently regulated under	-33.78307439	151.2747846
MANNERING PARK	Parkview General Store (a former service	2 Vales ROAD	Service Station	Regulation under CLM Act not required	-33.14753814	151.5387832

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
MANNERING PARK	Mannerling Park Mini Mart	70 Vales ROAD	Service Station	Regulation under CLM Act not required	-33.15236501	151.5371767
MARAYONG	7-Eleven (former Mobil Blacktown West)	173 Richmond ROAD	Service Station	Regulation under CLM Act not required	-33.75472796	150.8913605
MARAYONG	Woolworths Petrol Service Station Marayong	Corner Vardys Road and Turbo ROAD	Service Station	Regulation under CLM Act not required	-33.7452356	150.9041601
MARDI	Former Mardi Landfill	70-90 McPherson ROAD	Landfill	Regulation under CLM Act not required	-33.29273289	151.4100941
MARKS POINT	Former Mobil Service Station (now 7-Eleven)	770-772 Pacific HIGHWAY	Service Station	Contamination formerly regulated under	-33.05646268	151.6533795
MARKS POINT	Former Mobil Aviation Depot Belmont Airfield	864 Pacific HIGHWAY	Other Petroleum	Regulation under CLM Act not required	-33.06657244	151.6497674
MAROUBRA	Coles Express Pagewood Service Station, Maroubra	299 Bunnerong PARADE	Service Station	Regulation under CLM Act not required	-33.94071282	151.2285063
MARRANGAROO	United (Former Mobil) Service Station Marrangaroo	394-398 Great Western HIGHWAY	Service Station	Regulation under CLM Act not required	-33.45253322	150.1181023
MARRICKVILLE	Former Mobil Service Station	384 Illawarra ROAD	Service Station	Regulation under CLM Act not required	-33.91534969	151.1506717
MARRICKVILLE	TRW Steering and Suspension	22-28 Carrington ROAD	Other Industry	Ongoing maintenance required to manage	-33.92012667	151.1566181
MARRICKVILLE	Woolworths Petrol Service Station Marrickville	490 Illawarra ROAD	Service Station	Regulation under CLM Act not required	-33.91845177	151.1459951
MARRICKVILLE	RailCorp	361 Victoria ROAD	Other Industry	Regulation under CLM Act not required	-33.91404835	151.1557132
MARRICKVILLE	Mackey Park	Cnr Richardsons Crescent and Carrington ROAD	Landfill	Regulation under CLM Act not required	-33.9220263	151.1547903
MARRICKVILLE	Cooks River Aqueduct	Thornley STREET	Unclassified	Contamination formerly regulated under	-33.92224311	151.1479744
MARRICKVILLE	2 Carrington Road	2 Carrington ROAD	Unclassified	Regulation under CLM Act not required	-33.91567088	151.1589931
MARRICKVILLE	Former Dry Cleaners and Loading Dock	Smidmore STREET	Other Industry	Contamination currently regulated under	-33.90752498	151.1717761

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
MARSDEN PARK	226 Grange Avenue	226 Grange AVENUE	Unclassified	Regulation under CLM Act not required	-33.70259609	150.83825
MARSFIELD	Coles Express Service Station Marsfield	189 Epping ROAD	Service Station	Regulation under CLM Act not required	-33.77519246	151.1053691
MARULAN	BP Express Marulan (Northbound)	(Northbound) Hume HIGHWAY	Service Station	Regulation under CLM Act not required	-34.7188332	149.9949547
MARULAN	BP Service Station	(Southbound) Hume HIGHWAY	Service Station	Regulation under CLM Act not required	-34.71932066	150.0014827
MARYVILLE	7-Eleven Service Station	184-188 Hannell STREET	Service Station	Contamination currently regulated under	-32.91336028	151.7579315
MASCOT	Former Zinc Smelter and Paint Manufactu	163 O'Riordan STREET	Metal Industry	Regulation under CLM Act not required	-33.92526513	151.1892582
MASCOT	Caltex Service Station	125 O'Riordan STREET	Service Station	Regulation under CLM Act not required	-33.92309169	151.1911539
MASCOT	Mascot Pioneer Plating	25-29 Ricketty STREET	Metal Industry	Contamination currently regulated under	-33.92075288	151.1824801
MASCOT	Heritage Business Centre	5-9 Ricketty STREET	Unclassified	Regulation under CLM Act not required	-33.92029202	151.1816656
MASCOT	Telstra Exchange	904-922 Botany ROAD	Other Industry	Regulation under CLM Act not required	-33.9293166	151.1942777
MASCOT	Former Shell Service Station Mascot	746 Botany ROAD	Service Station	Contamination formerly regulated under	-33.92352295	151.1955852
MASCOT	Former Freight Distribution Facility (now	19-33 Kent ROAD	Unclassified	Regulation under CLM Act not required	-33.9227711	151.1854202
MASCOT	Former Mascot Galvanising	336-348 King STREET	Metal Industry	Contamination currently regulated under	-33.92902126	151.185874
MASCOT	Sokol Corporation	50-56 Robey STREET	Other Industry	Regulation under CLM Act not required	-33.93162265	151.1904955
MASCOT	Linear Park	Off O'Riordan STREET	Landfill	Regulation under CLM Act not required	-33.92278693	151.1904751
MATRAVILLE	Port Botany Bus Depot	7 Bumborah Point ROAD	Other Petroleum	Regulation under CLM Act not required	-33.96880413	151.2255889

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
MATRAVILLE	Former Golden Fleece Terminal No2	151 Beauchamp ROAD	Other Petroleum	Contamination formerly regulated under	-33.95719404	151.2259884
MATRAVILLE	Former Rieco Incinerator	Kain AVENUE	Other Industry	Contamination being managed via the pla	-33.95980534	151.2423679
MATRAVILLE	7-Eleven Service Station Matraville	515 Bunnerong ROAD	Service Station	Contamination currently regulated under	-33.95943536	151.2317598
MATRAVILLE	Former Golden Fleece Terminal No1	133 -149 Beauchamp ROAD	Other Petroleum	Contamination formerly regulated under	-33.95776666	151.2248518
MATRAVILLE	Vacant Lot	3 Wilkes AVENUE	Other Industry	Regulation under CLM Act not required	-33.96006406	151.2431087
MATRAVILLE	Eastern Suburbs Memorial Park	12 Military ROAD	Chemical Industry	Regulation under CLM Act not required	-33.9719906	151.2274386
MAYFIELD	7-Eleven (Former Mobil) Service Station	412-416 Maitland ROAD	Service Station	Regulation under CLM Act not required	-32.89292005	151.7300948
MAYFIELD	Shell Coles Express Service Station	63-69 Maud STREET	Service Station	Regulation under CLM Act not required	-32.89358962	151.7221298
MAYFIELD	BHP Closure Site (Hunter River Sediments)	Bed Sediments of the Hunter adjacent to	Metal Industry	Contamination formerly regulated under	-32.89203741	151.7646702
MAYFIELD	Australian Tube Mills Newcastle Site	Industrial DRIVE	Metal Industry	Under assessment	-32.88835767	151.7450751
MAYFIELD	BHP Steel River	The Buffer Zone' extending directly adjac	Metal Industry	Contamination currently regulated under	-32.8773556	151.7252427
MAYFIELD	Waratah Steel Mill	23 Frith STREET	Metal Industry	Regulation under CLM Act not required	-32.89426592	151.7257429
MAYFIELD	OneSteel (BHP)	Industrial DRIVE	Metal Industry	Contamination currently regulated under	-32.88365878	151.7448793
MAYFIELD NORTH	Former BHP Steelworks (Closure site)	Bound by Hunter River, Selwyn Street & I	Metal Industry	Ongoing maintenance required to manag	-32.89436064	151.7590762
MAYFIELD NORTH	OneSteel - Newcastle Wire, Rod and Bar	141 & 151 Ingall STREET	Metal Industry	Under assessment	-32.89008485	151.752949
MAYFIELD NORTH	Former BHPB Supply site	Industrial DRIVE	Metal Industry	Ongoing maintenance required to manag	-32.88583061	151.7386157

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
MAYFIELD WEST	Stevenson Park landfill	2/559 Maitland ROAD	Landfill	Regulation under CLM Act not required	-32.88472556	151.7224791
MAYFIELD WEST	Koppers Coal Tar	East of Woodstock Street and Tourle STREET	Other Industry	Contamination currently regulated under	-32.88592437	151.7361839
MAYFIELD WEST	Tourle Street Bridge Project	Tourle STREET	Landfill	Regulation under CLM Act not required	-32.88075518	151.7330073
MCDOUGALLS HILL	Caltex Service Station	4949 New England HIGHWAY	Service Station	Regulation under CLM Act not required	-32.54484714	151.1490757
MEADOWBANK	Former Council Works Depot	2 Parsonage STREET	Unclassified	Regulation under CLM Act not required	-33.82191421	151.0951974
MENAI	7-Eleven (Former Mobil) Service Station	289 Menai ROAD	Service Station	Under assessment	-34.01579095	151.0131737
MENAI	Caltex Service Station Menai	1 Carter Road ROAD	Service Station	Regulation under CLM Act not required	-34.01654043	151.0124133
MEREWETHER	Merewether Childcare Centre	2/23 Caldwell STREET	Unclassified	Regulation under CLM Act not required	-32.94249653	151.7504279
MEREWETHER HEIGHTS	Burwood Beach Wastewater Treatment V	Lot 1, Scenic DRIVE	Other Industry	Under assessment	-32.951582	151.753577
MERIMBULA	Caltex Service Station	19-25 Merimbula DRIVE	Service Station	Regulation under CLM Act not required	-36.88757881	149.9089159
MERIMBULA	Former Mobil Service Station	27 Market STREET	Service Station	Regulation under CLM Act not required	-36.88941693	149.9103485
MERRYLANDS	Former Timber Yard and Hardware	11-19 Centenary ROAD	Other Petroleum	Regulation under CLM Act not required	-33.83083025	150.9698915
MERRYLANDS	Caltex Service Station	229 Woodville ROAD	Service Station	Regulation under CLM Act not required	-33.84547463	150.9983413
MERRYLANDS	Caltex Service Station Merrylands	148 Woodville ROAD	Service Station	Regulation under CLM Act not required	-33.83818499	150.9997199
MERRYLANDS	Stockland Merrylands Court	249-259 Merrylands ROAD	Service Station	Regulation under CLM Act not required	-33.83560037	150.9869735
MERRYLANDS	7-Eleven Merrylands Service Station	295-297 Merrylands Road, corner Windso	Service Station	Regulation under CLM Act not required	-33.83533205	150.9851801

Suburb	SiteName	Address	ContaminationActivityType	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
MERRYLANDS WEST	Former Mobil Service Station	3 Centenary ROAD	Service Station	Regulation under CLM Act not required	-33.83214226	150.9698958
MILLER	Caltex Service Station	86 Cartwright AVENUE	Service Station	Regulation under CLM Act not required	-33.91878146	150.8827514
MILLERS FOREST	Chichester Trunk Gravity Main	water pipeline ACCESS	Other Industry	Contamination currently regulated under	-32.772877	151.6826841
MILLERS POINT	Former AGL Gasworks	30 - 34 Hickson ROAD	Gasworks	Regulation under CLM Act not required	-33.86179594	151.2031726
MILLERS POINT	Moore's Wharf UPSS	4 Towns PLACE	Other Petroleum	Regulation under CLM Act not required	-33.85581123	151.2024759
MILLERS POINT	Former AGL Gasworks	38 Hickson and road reserve ROAD	Gasworks	Contamination being managed via the pla	-33.86280104	151.2032452
MILLERS POINT	Former AGL Gasworks	Berths 5, 6 and 7 (already demolished) an	Gasworks	Contamination formerly regulated under	-33.86239771	151.2024819
MILLERS POINT	Former AGL Gasworks 36 Hickson Road	36 Hickson ROAD	Gasworks	Contamination formerly regulated under	-33.86243824	151.2032514
MILPERRA	Heatcraft Australia Pty Ltd	286 Horsley ROAD	Other Industry	Regulation under CLM Act not required	-33.94031556	150.9958606
MILPERRA	United Group Rail Pty Limited	373 Horsley ROAD	Landfill	Regulation under CLM Act not required	-33.93286283	150.9934071
MILPERRA	Caltex Service Station	264 Milperra ROAD	Service Station	Regulation under CLM Act not required	-33.93018101	150.9910964
MILPERRA	Former Landfill	479 Henry Lawson DRIVE	Landfill	Regulation under CLM Act not required	-33.93394617	150.9776715
MILTON	Former Sanitary Depot	Slaughterhouse ROAD	Other Industry	Regulation under CLM Act not required	-35.33819825	150.4471917
MILTON	Caltex Milton Service Station and Depot	331 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-35.33154474	150.4492852
MINCHINBURY	7-Eleven (former Mobil) Service Station	815 Great Western HIGHWAY	Service Station	Regulation under CLM Act not required	-33.78812909	150.8495992

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
MINCHINBURY	BP Service Station	1055 Great Western Highway corner Arch	Service Station	Regulation under CLM Act not required	-33.78211857	150.8244185
MINTO	Land adjacent to Former Shell depot	Airds Road and Essex STREET	Other Petroleum	Regulation under CLM Act not required	-34.02140447	150.8415134
MINTO	Shell Coles Express Service Station	73 Pembroke STREET	Service Station	Regulation under CLM Act not required	-34.02316454	150.8503118
MINTO	Former Endeavour Energy Depot	Pembroke ROAD	Other Petroleum	Regulation under CLM Act not required	-34.0408973	150.8451837
MINTO	Logistics Hub - Culverston Road, Minto	Culverston ROAD	Other Petroleum	Regulation under CLM Act not required	-34.0421711	150.833825
MIRANDA	Woolworths Service Station	455 Kingsway OTHER	Service Station	Contamination currently regulated under	-34.03492814	151.1124681
MITTAGONG	Enhance (former Coles Express) Service S	224 Old Hume HIGHWAY	Service Station	Regulation under CLM Act not required	-34.44746118	150.4326183
MITTAGONG	Lots 1 and 2 Alfred St.	Alfred STREET	Other Petroleum	Contamination formerly regulated under	-34.44738105	150.4565159
MITTAGONG	Caltex Mittagong Service Station	65 Bowral ROAD	Service Station	Regulation under CLM Act not required	-34.45245915	150.4381291
MOAMA	Caltex Moama Service Station	73 Meninya (Cnr Regent St) STREET	Service Station	Regulation under CLM Act not required	-36.10815134	144.752849
MOLONG	Cabonne BP Service Station	2 Gidley STREET	Service Station	Contamination currently regulated under	-33.09026307	148.8695809
MOLONG	Former Gasworks	Hill STREET	Gasworks	Ongoing maintenance required to manag	-33.09074595	148.8703262
MONA VALE	Mona Vale Bus Depot	58 Darley STREET	Other Petroleum	Contamination currently regulated under	-33.67452414	151.3074246
MONA VALE	Former Caltex service station and adjacer	79 Barrenjoey Road, 2 Polo Avenue, 6 Pol	Service Station	Contamination formerly regulated under	-33.6743659	151.3096932
MONA VALE	7-Eleven (former Mobil) Service Station	24 Barrenjoey ROAD	Service Station	Regulation under CLM Act not required	-33.676909	151.3082515
MONA VALE	BP Peninsula Express Service Station	Corner Barrenjoey Road and Darley Street	Service Station	Regulation under CLM Act not required	-33.67670799	151.3090068

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
MONA VALE	BP Service Station Mona Vale	1721 Pittwater ROAD	Service Station	Regulation under CLM Act not required	-33.68043443	151.3023553
MONA VALE	Caltex Investigation Area	Polo Ave, Perak STREET	Service Station	Contamination formerly regulated under	-33.67431333	151.3091148
MONA VALE	Taronga Place Mona Vale properties	Taronga PLACE	Other Petroleum	Contamination currently regulated under	-33.67422848	151.3066972
MOOBALL	Mooball General Store	5913 Tweed Valley WAY	Service Station	Regulation under CLM Act not required	-28.44204594	153.4887648
MOONBI	Caltex Moonbi Service Station	New England HIGHWAY	Service Station	Regulation under CLM Act not required	-31.02264369	151.069094
MOORE PARK	Area 2, Moore Park	Driver AVENUE	Unclassified	Regulation under CLM Act not required	-33.89426868	151.2226839
MOOREBANK	Caltex Service Station	216 Newbridge ROAD	Service Station	Regulation under CLM Act not required	-33.92930835	150.9551469
MOOREBANK	Joyce Foam Products	5-9 Bridges ROAD	Chemical Industry	Regulation under CLM Act not required	-33.92596302	150.9335273
MOOREBANK	ABB Australia Pty Ltd	(a) 1 Bapaume ROAD	Other Industry	Ongoing maintenance required to manag	-33.94143741	150.9208754
MOOREBANK	Caltex Service Station Moorebank	2 Bridges ROAD	Service Station	Regulation under CLM Act not required	-33.92839682	150.9327012
MOOREBANK	Former Concrete Recyclers property, New	Newbridge ROAD	Landfill	Contamination being managed via the pla	-33.9390295	150.9653979
MOORLAND	Caltex Service Station	99 Jericho ROAD	Service Station	Regulation under CLM Act not required	-31.79436622	152.6514849
MOREE	Former Freedom Service Station Site Mor	1 Dover STREET	Service Station	Contamination currently regulated under	-29.4715814	149.8440279
MOREE	Caltex Depot	101 Gosport STREET	Other Petroleum	Regulation under CLM Act not required	-29.47603684	149.8476728
MOREE	Former Golden Fleece Depot	Gosport STREET	Other Petroleum	Contamination formerly regulated under	-29.47698315	149.8477108
MOREE	Former Mobil Depot	Gosport STREET	Other Petroleum	Contamination formerly regulated under	-29.47771921	149.8478438

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
MOREE	Moree Airport Evaporation Pond	Newell HIGHWAY	Unclassified	Regulation under CLM Act not required	-29.50289837	149.8411301
MOREE	Caltex Service Station	54 Alice STREET	Service Station	Contamination currently regulated under	-29.47158492	149.8433182
MOREE	Former Shell Depot	Adelaide STREET	Other Petroleum	Contamination formerly regulated under	-29.47655335	149.8465698
MOREE	Shell Coles Express Service Station	Corner Gwydir and Balo STREET	Service Station	Regulation under CLM Act not required	-29.46081826	149.8419975
MOREE	BP Truckstop and Depot Moree	Newell Highway - 423 Frome STREET	Service Station	Regulation under CLM Act not required	-29.48223274	149.8463679
MOREE	Sunnyside Road	Sunnyside ROAD	Unclassified	Regulation under CLM Act not required	-29.45652718	149.8226682
MORISSET	Railcorp Station Masters Cottage	24 Dora STREET	Unclassified	Regulation under CLM Act not required	-33.10849681	151.4880317
MORISSET	Morisset High School	Bridge STREET	Unclassified	Regulation under CLM Act not required	-33.10475221	151.4866482
MORPETH	Telstra Cable Installation and RTA Bridge	Northumberland STREET	Other Petroleum	Regulation under CLM Act not required	-32.72489729	151.6266795
MORPETH	Former Service Station	Swan STREET	Service Station	Regulation under CLM Act not required	-32.72477413	151.6250642
MORTLAKE	Former Petroleum Storage Site	108-116 Tennyson ROAD	Other Petroleum	Regulation under CLM Act not required	-33.83979033	151.1064889
MORTLAKE	Kendall Bay Sediments	Kendall BAY	Gasworks	Contamination currently regulated under	-33.83905999	151.1120458
MORTLAKE	Former AGL site	Tennyson ROAD	Gasworks	Contamination formerly regulated under	-33.84287407	151.1109313
MORTLAKE	Majors Bay Redevelopment	14-22 Hilly STREET	Other Industry	Regulation under CLM Act not required	-33.83954617	151.1054674
MORUYA	Former Fuel Depot Moruya	11 to 13 Ford STREET	Other Petroleum	Regulation under CLM Act not required	-35.9112243	150.0826475
MORUYA	Caltex Service Station Moruya	80-84 Campbell STREET	Service Station	Regulation under CLM Act not required	-35.91195596	150.0824213

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
MORUYA	Caltex Service Station	26 Campbell STREET	Service Station	Regulation under CLM Act not required	-35.9104985	150.0711419
MOSMAN	7-Eleven Mosman	162A Spit Road Corner Mitchell ROAD	Service Station	Regulation under CLM Act not required	-33.81747016	151.2433633
MOSMAN	BP Service Station	175 Ourimbah ROAD	Service Station	Regulation under CLM Act not required	-33.82106757	151.233291
MOSMAN	7-Eleven Service Station Mosman	45 Spit ROAD	Service Station	Regulation under CLM Act not required	-33.82302718	151.2435627
MOSMAN	Allan Border Oval	Myahgah ROAD	Landfill	Regulation under CLM Act not required	-33.82681534	151.2417712
MOSS VALE	Woolworths Service Station Moss Vale	609 Argyle STREET	Service Station	Regulation under CLM Act not required	-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
MOSS VALE	Moss Vale Refuelling Facility	Lackey ROAD	Other Petroleum	Regulation under CLM Act not required	-34.54662421	150.3721525
MOUNT ANNAN	Woolworths Caltex Mount Annan	157 Narellan (Corner Smeaton Grange Ro	Service Station	Regulation under CLM Act not required	-34.04685527	150.7610434
MOUNT ANNAN	Great Southern Railways Aqueduct	Off Narellan ROAD	Unclassified	Regulation under CLM Act not required	-34.07308479	150.7707436
MOUNT COLAH	Caltex Service Station Mount Colah	603 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.67034662	151.1151861
MOUNT COLAH	Foxglove Oval	Foxglove ROAD	Landfill	Contamination currently regulated under	-33.65829855	151.1229638
MOUNT DRUITT	Caltex (former Mobil) Service Station, 17	17 Mount STREET	Service Station	Regulation under CLM Act not required	-33.76567994	150.8244544
MOUNT DRUITT	7-Eleven Mount Drutt	Lot 6 Luxford ROAD	Other Petroleum	Under assessment	-33.76483839	150.8254157
MOUNT HUTTON	Woolworths Service Station	46 Wilsons ROAD	Service Station	Regulation under CLM Act not required	-32.9836378	151.67309
MOUNT PRITCHARD	7-Eleven Service Station	352 Elizabeth DRIVE	Service Station	Regulation under CLM Act not required	-33.90260656	150.8963326

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
MOUNT THORLEY	Bulga Surface Operations	Broke ROAD	Other Industry	Regulation under CLM Act not required	-32.68325751	151.1206158
MOUNT THORLEY	Lowes Petroleum (Former BP) Depot Mo	74 Mount Thorley ROAD	Other Petroleum	Regulation under CLM Act not required	-32.62443074	151.1025122
MOUNT VICTORIA	Former Mobil Service Station	81 Great Western HIGHWAY	Service Station	Regulation under CLM Act not required	-33.5889727	150.2511783
MOUNT VICTORIA	Caltex Service Station	36a Great Western HIGHWAY	Service Station	Regulation under CLM Act not required	-33.58436517	150.2465528
MUDGEES	Caltex Service Station	114-116 Church STREET	Service Station	Regulation under CLM Act not required	-32.59428029	149.5876199
MUDGEES	Shell Coles Express Service Station	47 Church STREET	Service Station	Regulation under CLM Act not required	-32.59347493	149.5884623
MUDGEES	BP Service Station Mudgee	77 Church STREET	Service Station	Regulation under CLM Act not required	-32.59545872	149.588123
MUDGEES	Mobil Depot	47 Douro STREET	Other Petroleum	Contamination currently regulated under	-32.60023979	149.5823448
MUDGEES	Mudgee Gasworks	Mortimer Street and Court STREET	Gasworks	Regulation under CLM Act not required	-32.59168859	149.5817705
MUDGEES	Former Essential Energy Depot	27-31 Inglis STREET	Other Industry	Regulation under CLM Act not required	-32.60076552	149.5858905
MUDGEES	Former Caltex Depot Mudgee	cnr Nicholson Street & Atkinson STREET	Other Petroleum	Regulation under CLM Act not required	-32.60125298	149.5851398
MULGRAVE	7-Eleven (former Mobil) Service Station	Corner Windsor Road and Mulgrave ROAD	Service Station	Regulation under CLM Act not required	-33.61687781	150.8341809
MULLUMBIMBY	Station Street, Mullumbimby NSW 2482	Station STREET	Other Industry	Regulation being finalised	-28.549853	153.502785
MULWALA	Mulwala ADI Explosives Factory	Bayly STREET	Other Industry	Regulation under CLM Act not required	-35.97572689	145.9809786
MURWILLUMBAH	Murwillumbah Ambulance Depot	27 Queen STREET	Other Petroleum	Regulation under CLM Act not required	-28.32552576	153.4000182
MURWILLUMBAH SOUTH	Puma Murwillumbah (formerly Matilda)	182 Tweed Valley WAY	Service Station	Contamination currently regulated under	-28.3263681	153.4103824

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
MURWILLUMBAH SOUTH	Former Norco Butter Factory (Eastern Poi	230 Tweed Valley WAY	Other Petroleum	Regulation under CLM Act not required	-28.32791359	153.4073052
MUSWELLBROOK	Former Caltex Depot	1 Lower William STREET	Other Petroleum	Regulation under CLM Act not required	-32.26614257	150.8865136
MUSWELLBROOK	Vacant Rail Land	27 Brook STREET	Unclassified	Regulation under CLM Act not required	-32.26346086	150.8873181
MUSWELLBROOK	United Branded (Former Mobil) Service S	49-51 Maitland STREET	Service Station	Regulation under CLM Act not required	-32.27218162	150.8900206
MUSWELLBROOK	Former Mobil Depot Muswellbrook	43-51 Ford STREET	Other Petroleum	Regulation under CLM Act not required	-32.2599725	150.887573
MUSWELLBROOK	Woolworths Petrol	72 Brook STREET	Service Station	Regulation under CLM Act not required	-32.26325377	150.8905966
MUSWELLBROOK	Caltex Muswellbrook Service Station	84-86 Maitland STREET	Service Station	Regulation under CLM Act not required	-32.27793094	150.8980938
MUSWELLBROOK	Former Gasworks	Corner Carl Street and Foley STREET	Gasworks	Regulation under CLM Act not required	-32.26672337	150.8935982
MUSWELLBROOK	Bayswater Power Station	New England HIGHWAY	Other Industry	Regulation under CLM Act not required	-32.3954046	150.9502683
MUSWELLBROOK	Former Industrial Site	Lot 89 Rathmore STREET	Other Industry	Regulation under CLM Act not required	-32.30544071	150.8823657
MUSWELLBROOK	Caltex Service Station	12-16 Sydney STREET	Service Station	Regulation under CLM Act not required	-32.26785559	150.8879601
MUSWELLBROOK	Former Caltex Depot	47-50 Victoria STREET	Service Station	Regulation under CLM Act not required	-32.26788823	150.8930609
MUSWELLBROOK	Former Pit Top No. 1 Colliery Muswellbro	Corner Clendinning Street and Victoria ST	Other Industry	Regulation under CLM Act not required	-32.27031992	150.9009981
NABIAC	Caltex Service Station Nabiac	3964 Wallanbah (Cnr Wallanbah Rd and P	Service Station	Regulation under CLM Act not required	-32.09864883	152.3754346
NAMBUCCA HEADS	Former Mobil Service Station	6 Bowra STREET	Service Station	Regulation under CLM Act not required	-30.64282127	153.0035884
NARELLAN	Caltex Service Station Narellan	1 George Hunter DRIVE	Service Station	Regulation under CLM Act not required	-34.03963992	150.7432386

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
NARELLAN	Former Landfill	1 Elyard STREET	Landfill	Regulation under CLM Act not required	-34.043474	150.7393256
NAROOMA	Narooma Service Station	60 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-36.21617955	150.126261
NAROOMA	Former Caltex - Narooma	82 Princes HIGHWAY	Service Station	Contamination formerly regulated under	-36.21711766	150.1279305
NARRABEEN	Caltex Service Station	1509-1511 Pittwater ROAD	Service Station	Regulation under CLM Act not required	-33.70455756	151.2969352
NARRABEEN	Shell Coles Express Service Station	1418 Pittwater ROAD	Service Station	Regulation under CLM Act not required	-33.70013931	151.3002782
NARRABEEN	Narrabeen Shotgun Range Sydney Academ	Wakehurst PARKWAY	Unclassified	Ongoing maintenance required to manag	-33.72138423	151.2642798
NARRABEEN	7-Eleven Service Station	1234 Pittwater ROAD	Service Station	Regulation under CLM Act not required	-33.71958892	151.298272
NARRABEEN	7-Eleven Narrabeen North	1497 Pittwater Road, corner Gondola RO	Service Station	Regulation being finalised	-33.7078448	151.2966483
NARRABRI	Caltex Service Station	13 Doyle STREET	Service Station	Regulation under CLM Act not required	-30.3239182	149.7843052
NARRABRI	Lowes Petroleum (Former Mobil) Narrabr	3 Old Gunnedah ROAD	Other Petroleum	Regulation under CLM Act not 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
NARRABRI	Caltex Narrabri Service Station	31 Dangar (Cnr Anne and Dangar) STREET	Service Station	Regulation under CLM Act not required	-30.32989667	149.7756598
NARRABRI	Caltex Service Station	12 Reid STREET	Other Petroleum	Regulation under CLM Act not required	-30.32282764	149.7901182
NARRABRI	Cargill Soapstock Disposal Site	Westport ROAD	Unclassified	Contamination formerly regulated under	-30.4698458	149.6981931
NARRABRI	Caltex Service Station	7-13 James STREET	Service Station	Regulation under CLM Act not required	-30.33016168	149.7940732
NARRANDERA	Former Mobil Narrandera Depot	24 Whitton STREET	Other Petroleum	Regulation under CLM Act not required	-34.7410523	146.5620667

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
NARRANDERA	Former Mobil Emoleum Narrandera Depot	5-7 Margaret STREET	Other Petroleum	Regulation under CLM Act not required	-34.74105391	146.5628144
NARROMINE	Narromine Fuel (Former Caltex) Service Station	Cnr Burraway Street and Algalah STREET	Service Station	Regulation under CLM Act not required	-32.23565321	148.2454259
NELLIGEN	Former Clay Target Shooting Range	1398 Kings Highway and adjoining land on	Unclassified	Contamination currently regulated under	-35.64392469	150.0955224
NELLIGEN	Lot 2 Old Bolaro Road	Old Bolaro ROAD	Unclassified	Contamination formerly regulated under	-35.64485609	150.0937341
NELSON BAY	Shell Coles Express Service Station	25 Stockton STREET	Service Station	Regulation under CLM Act not required	-32.72265762	152.1437317
NELSON BAY	Former Caltex Service Station Nelson Bay	38 Stockton STREET	Service Station	Regulation under CLM Act not required	-32.72335662	152.1429384
NEMINGHA	Caltex Service Station and Depot Nemingha	428 Armidale (previously 16 New England	Service Station	Regulation under CLM Act not required	-31.12425169	150.9909054
NEUTRAL BAY	Caltex Service Station	16-38 Military ROAD	Service Station	Regulation under CLM Act not required	-33.82907162	151.2163342
NEUTRAL BAY	Shell Coles Express Service Station	200-204 Ben Boyd ROAD	Service Station	Regulation under CLM Act not required	-33.82915781	151.219437
NEW LAMBTON	Caltex Service Station New Lambton	144 Bridges ROAD	Service Station	Regulation under CLM Act not required	-32.93283668	151.7141748
NEW LAMBTON	BP Service Station	105 St James ROAD	Service Station	Regulation under CLM Act not required	-32.92910325	151.7155801
NEW LAMBTON	7-Eleven (former Mobil) Service Station	291 Turton ROAD	Service Station	Regulation under CLM Act not required	-32.91773864	151.7243096
NEWCASTLE	Reclaimed Land	26-28 Honeysuckle DRIVE	Unclassified	Contamination formerly regulated under	-32.92604705	151.7649508
NEWCASTLE	Wharf Road Newcastle Car Park	313-317 Wharf ROAD	Unclassified	Regulation under CLM Act not required	-32.92570385	151.7744076
NEWCASTLE	Newcastle Foreshore	40 Stevenson Place STREET	Other Industry	Regulation under CLM Act not required	-32.92556503	151.7876742
NEWCASTLE	SRA Land	Scott STREET	Gasworks	Regulation under CLM Act not required	-32.92641425	151.7837817

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
NEWCASTLE WEST	Former Mobil Service Station	113 Parry STREET	Service Station	Regulation under CLM Act not required	-32.92560628	151.7558542
NEWPORT	7-Eleven (former Mobil) Service Station	307 Barrenjoey ROAD	Service Station	Regulation under CLM Act not required	-33.65632902	151.3182089
NEWPORT	Former Caltex Service Station Newport	316-324 Barrenjoey ROAD	Service Station	Regulation under CLM Act not required	-33.65634516	151.3191571
NEWTOWN	Caltex Service Station Newtown	26 - 36 Enmore ROAD	Service Station	Regulation under CLM Act not required	-33.89851331	151.17714
NEWTOWN	Former Service Station	81 Wilson STREET	Service Station	Contamination formerly regulated under	-33.89626791	151.1827556
NEWTOWN	Aluminium Enterprises	66 Brocks LANE	Metal Industry	Contamination was addressed via the pla	-33.89467126	151.1847528
NEWTOWN	Adjacent to Former Service Station	79 Wilson STREET	Service Station	Contamination formerly regulated under	-33.89630155	151.1826567
NORAVILLE	Former Toukley Landfill	Wilfred Barrett DRIVE	Landfill	Regulation under CLM Act not required	-33.27734185	151.5537784
NORTH ALBURY	Caltex Service Station and Diesel Stop	79 Union ROAD	Service Station	Regulation under CLM Act not 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 BONDI	Caltex Service Station North Bondi	321 Old South Head ROAD	Service Station	Regulation under CLM Act not required	-33.88463526	151.268551
NORTH NARRABEEN	7-Eleven Service Station	1501-1503 Pittwater ROAD	Service Station	Regulation under CLM Act not required	-33.70749859	151.296351
NORTH RICHMOND	Caltex Service Station	50 Bells Line Of ROAD	Service Station	Regulation under CLM Act not required	-33.57991338	150.7202346
NORTH ROCKS	7-Eleven Service Station North Rocks	340 North Rocks ROAD	Service Station	Regulation under CLM Act not required	-33.76895144	151.0305952
NORTH ST MARYS	BP Service Station	76 Glossop STREET	Service Station	Regulation under CLM Act not required	-33.76020183	150.7818149
NORTH STRATHFIELD	Budget Service Station	143 Concord ROAD	Service Station	Regulation under CLM Act not required	-33.85945248	151.0927853

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
NORTH STRATHFIELD	Former Caltex Service Station	92a Concord ROAD	Service Station	Regulation under CLM Act not required	-33.86244297	151.0932434
NORTH SYDNEY	Iora Complex	1 Kiara PLACE	Gasworks	Regulation under CLM Act not required	-33.843145	151.2161142
NORTH SYDNEY	Neutral Bay Sediments	Adjacent to Sub Base Platypus, High STREET	Gasworks	Contamination formerly regulated under	-33.842724	151.2174523
NORTH SYDNEY	Sub Base Platypus (previously HMAS Platypus)	High STREET	Gasworks	Contamination formerly regulated under	-33.84325935	151.2170347
NORTH WOLLONGONG	Former Mobil Depot	122-126 Montague STREET	Other Petroleum	Regulation under CLM Act not required	-34.40988259	150.8939374
NORTHMEAD	Former Prestige Plastics	1C Redbank ROAD	Other Industry	Regulation under CLM Act not required	-33.79716925	150.989926
NORTHMEAD	Coles Express Service Station Northmead	197 Windsor ROAD	Service Station	Regulation under CLM Act not required	-33.77741733	151.0001719
NORTHMEAD	Sydney Water Land	51c Hammers ROAD	Landfill	Regulation under CLM Act not required	-33.7887535	150.9858088
NORTHMEAD	Caltex Service Station	98-100 Windsor ROAD	Service Station	Regulation under CLM Act not 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
NOWRA	Former Gasworks Managers Residence	24 Osborne STREET	Gasworks	Regulation under CLM Act not required	-34.8708875	150.5992586
NOWRA	Fire Station	69 Bridge ROAD	Gasworks	Regulation under CLM Act not required	-34.87081582	150.6004881
NOWRA	Historically Filled Land	70 Bridge ROAD	Unclassified	Regulation under CLM Act not required	-34.87081809	150.6013231
NOWRA	Shell Coles Express Service Station	55 Kinghorne STREET	Service Station	Regulation under CLM Act not required	-34.87633757	150.6023481
NOWRA	Former gasworks	Lamonds LANE	Gasworks	Contamination currently regulated under	-34.87111182	150.6000803
NOWRA	Former Hollingworth Scrap Yard	72-74 Jervis and 117 East STREET	Other Industry	Regulation under CLM Act not required	-34.88324216	150.6034361

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
NOWRA	Woolworths Service Station	60 North Street STREET	Service Station	Regulation under CLM Act not required	-34.87266278	150.6014052
NOWRA	Harry Sawkins Park	Bounded by Princes Hwy, Graham St & M	Gasworks	Regulation under CLM Act not required	-34.87093993	150.6037157
NOWRA EAST	Mobil Service Station	Lot 3 Kalandar STREET	Service Station	Contamination formerly regulated under	-34.88850535	150.6093504
NYNGAN	Caltex Service Station	39-41 Pangee STREET	Service Station	Regulation under CLM Act not required	-31.56101006	147.1914997
NYNGAN	Caltex Service Station	126 Pangee STREET	Service Station	Regulation under CLM Act not required	-31.56482841	147.2002892
NYNGAN	Main West Rail Line	Mitchell HIGHWAY	Other Industry	Under assessment	-31.567395	147.206212
OAK FLATS	Shellharbour City Works Depot	132 Industrial ROAD	Other Industry	Regulation under CLM Act not 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	Oberon Timber Complex	Lowes Mount ROAD	Other Industry	Regulation under CLM Act not required	-33.69264862	149.8564588
OBERON	Former Shell Depot	32 O'Connell ROAD	Other Petroleum	Regulation under CLM Act not required	-33.6997172	149.8450057
OBERON	CSR Ltd Property and King's Stockyard Cr	Off Endeavour STREET	Other Industry	Contamination formerly regulated under	-33.6922152	149.8686909
OCEAN SHORES	Former Ocean Shores Service Station	Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-28.51270299	153.5301496
OLD GUILDFORD	Caltex Service Station	636-644 Woodville ROAD	Service Station	Regulation under CLM Act not required	-33.86670857	150.9879189
ORANGE	Former Fuel Depot	24-28 Peisley STREET	Other Petroleum	Contamination currently regulated under	-33.29624293	149.1017277
ORANGE	Caltex Orange Depot	184 Byng STREET	Service Station	Regulation under CLM Act not required	-33.28285589	149.1050273
ORANGE	Woolworths Orange Service Station	357-361 Summer Street, corner William S	Service Station	Regulation under CLM Act not required	-33.28445811	149.1053604

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
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 Depot	197 - 201 Margaret STREET	Other Petroleum	Regulation under CLM Act not required	-33.27145977	149.1078103
ORANGE	Caltex Summer Street Service Station Orange	70-74 Summer Street, corner Hill STREET	Service Station	Regulation under CLM Act not required	-33.28311722	149.0940712
ORANGE	Lowes Petroleum (BP-branded) Service Station	76 Peisley STREET	Service Station	Regulation under CLM Act not required	-33.29025034	149.1027194
ORANGE	Former Mobil Service Station	24-28 Bathurst ROAD	Service Station	Regulation under CLM Act not required	-33.2866912	149.1066505
ORANGE	BP (Reliance Petroleum) Service Station	56-60 Bathurst ROAD	Service Station	Regulation under CLM Act not required	-33.28980053	149.1086212
ORANGE	Former Mobil Service Station	168 Peisley STREET	Service Station	Regulation under CLM Act not required	-33.28525478	149.1037259
ORANGE	5-7 Edward St Orange	5-7 Edward STREET	Other Industry	Contamination currently regulated under	-33.2991077	149.1034092
OURIMBAH	Palmdale Service Centre Pty Ltd	3130 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.3381336	151.374586
OURIMBAH	United Ourimbah	51 Pacific HIGHWAY	Service Station	Under assessment	-33.36025941	151.3694483
OURIMBAH	Shell Coles Express Service Station	78-80 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.3468202	151.3710098
OXLEY VALE	Hayes Transport Services	10 Manilla ROAD	Other Petroleum	Regulation under CLM Act not required	-31.06991417	150.9101381
OYSTER BAY	Shell Coles Express Service Station	20 Carvers ROAD	Service Station	Contamination currently regulated under	-34.00934475	151.0758626
OYSTER COVE	Cove Marine Pty Ltd	60 Frederick STREET	Unclassified	Contamination currently regulated under	-32.73549959	151.952446
PADDINGTON	7-Eleven Service Station	59 Oxford STREET	Service Station	Contamination currently regulated under	-33.88322921	151.2205024
PADDINGTON	Former Workshop	52 Hopewell STREET	Other Industry	Regulation under CLM Act not required	-33.88195798	151.2220744

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
PADSTOW	Caltex Padstow	115 Fairford ROAD	Service Station	Regulation under CLM Act not required	-33.9434571	151.0345671
PADSTOW	Selleys / Dulux	1-29 Gow STREET	Chemical Industry	Regulation under CLM Act not required	-33.93904125	151.0381725
PADSTOW	Former Exide Battery Manufacturing & Re	55 Bryant STREET	Other Industry	Contamination currently regulated under	-33.94265241	151.0378986
PADSTOW	Galvatech	49 Gow STREET	Metal Industry	Contamination currently regulated under	-33.93808679	151.0346862
PADSTOW	Foseco Australia	7 Stuart STREET	Chemical Industry	Regulation under CLM Act not required	-33.94342957	151.0377316
PADSTOW	Sebel Furniture	Parts 64 and 92 Gow STREET	Other Industry	Regulation under CLM Act not required	-33.93606752	151.0322057
PAGEWOOD	Former Email Site	Corner of Page Street and Holloway STRE	Metal Industry	Contamination currently regulated under	-33.94302462	151.2132036
PAMBULA	Offsite area (roadways) adjacent to Unite	Corner Quondola Street and Bullara STRE	Service Station	Regulation under CLM Act not required	-36.93104481	149.8746763
PARKES	Caltex Service Station Parkes	352-360 Clarinda STREET	Service Station	Regulation under CLM Act not required	-33.13317454	148.173643
PARKES	Former Caltex Parkes (Mugincoble) Depo	Eugowra ROAD	Service Station	Regulation under CLM Act not required	-33.19007031	148.224822
PARKES	BP Truckstop	(Newell Highway) 1 Forbes ROAD	Other Petroleum	Regulation under CLM Act not required	-33.14309226	148.1710282
PARKES	Former BP Telescope Service Station	339-341 Clarinda STREET	Service Station	Regulation under CLM Act not required	-33.13216152	148.1743239
PARKES	BP Reliance East End Service Station Park	46 Clarinda STREET	Service Station	Regulation under CLM Act not required	-33.14243539	148.1846227
PARKES	Former Parkes Gas Works (including Rail	129 Woodward Street and land within the	Gasworks	Contamination currently regulated under	-33.14480316	148.1844397
PARKLEA	Caltex Parklea Service Station	Old Windsor (north of Miami Street) ROA	Service Station	Regulation under CLM Act not required	-33.72427108	150.9388531
PARRAMATTA	BP Service Station	435 Church STREET	Service Station	Regulation under CLM Act not required	-33.80498714	151.0056151

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
PARRAMATTA	Coleman Oval Embankment	Cnr of Pitt STREET and Maquarie STREET	Unclassified	Regulation under CLM Act not required	-33.80441625	150.9954841
PARRAMATTA	7-Eleven (former Mobil) Service Station	81 Victoria ROAD	Service Station	Regulation under CLM Act not required	-33.80919769	151.0142894
PARRAMATTA	Parramatta Park Toilet Block Demolition	The Cresent Toilet Block Parramatta PARK	Unclassified	Regulation under CLM Act not required	-33.81054034	150.9961968
PAUPONG	Former Timber Treatment Plant	Off Paupong ROAD	Other Industry	Regulation under CLM Act not required	-36.57657408	148.6624998
PENDLE HILL	7-Eleven Service Station	217 Wentworth AVENUE	Service Station	Regulation under CLM Act not required	-33.8017814	150.9577994
PENNANT HILLS	Shell Coles Express Pennant Hills West	386 Pennant Hills ROAD	Service Station	Contamination currently regulated under	-33.73928611	151.0679704
PENRITH	Mirvac Industrial Site	2101 Castlereagh ROAD	Other Industry	Regulation under CLM Act not required	-33.73497514	150.6954097
PENRITH	7-Eleven (former Mobil) Service Station	212-222 Andrews ROAD	Service Station	Regulation under CLM Act not required	-33.73059678	150.6952571
PENRITH	Lowes Petroleum (Former Mobil) Depot	174 Coreen AVENUE	Other Petroleum	Regulation under CLM Act not required	-33.74484268	150.6980504
PENRITH	Caltex Service Station	Castlereagh Rd Cnr Lugard STREET	Service Station	Regulation under CLM Act not required	-33.73426843	150.6933382
PENRITH	BP Express Service Station	Corner Coreen Avenue and Castlereagh ROAD	Service Station	Regulation under CLM Act not required	-33.74385498	150.6925743
PENRITH	Crane Enfield Metals	Castlereagh ROAD	Metal Industry	Ongoing maintenance required to manag	-33.73734959	150.696442
PENRITH	7-Eleven Service Station Penrith	30 Henry STREET	Service Station	Regulation under CLM Act not 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
PENRITH	Jet 60 Dry Cleaners	Shop 3 134-138 Henry STREET	Unclassified	Regulation under CLM Act not required	-33.75231953	150.6964541
PENRITH	Former Dry Cleaners	Shop 3, 134-138 Henry STREET	Other Industry	Regulation under CLM Act not required	-33.752372	150.696451

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
PENSHURST	7-Eleven Service Station	612 Forest ROAD	Service Station	Regulation under CLM Act not required	-33.96153533	151.0793525
PENSHURST	Caltex Service Station	641 King Georges ROAD	Service Station	Regulation under CLM Act not 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
PERISHER VALLEY	Perisher Ski Resort	Kosciuszko ROAD	Other Petroleum	Regulation under CLM Act not required	-36.41106374	148.4005469
PETERSHAM	Fanny Durack Aquatic Centre	Station STREET	Unclassified	Regulation under CLM Act not required	-33.89194583	151.151824
PHEASANTS NEST	7-Eleven Service Station	(Southbound) Hume HIGHWAY	Service Station	Regulation under CLM Act not required	-34.28291571	150.6394606
PHEASANTS NEST	7-Eleven (former Mobil) Service Station	(Northbound) Hume HIGHWAY	Service Station	Regulation under CLM Act not required	-34.28303112	150.6363145
PICTON	Coles Express Picton	93-99 Argyle STREET	Service Station	Regulation under CLM Act not required	-34.16844337	150.6114236
PICTON	McDonalds	69 -71 Argyle STREET	Service Station	Regulation under CLM Act not required	-34.16711877	150.6121524
PITT TOWN	Whites Water Service	1 Canning PLACE	Other Industry	Under preliminary investigation order	-33.57418268	150.8811385
PLUMPTON	Woolworths Service Station Plumpton (Plumpton)	260 Jersey ROAD	Service Station	Regulation under CLM Act not required	-33.74478874	150.8369408
PORT BOTANY	Vopak B	20 Friendship ROAD	Chemical Industry	Regulation under CLM Act not required	-33.97946548	151.2121752
PORT BOTANY	Vopak A	49 Friendship ROAD	Chemical Industry	Regulation under CLM Act not required	-33.97426175	151.2206228
PORT BOTANY	Terminals	45 Friendship ROAD	Chemical Industry	Regulation under CLM Act not required	-33.97609287	151.2174402
PORT BOTANY	Bunnerong Canal	Between Brotherson Dock and Bumborah	Unclassified	Regulation under CLM Act not required	-33.96798227	151.2230052
PORT BOTANY	Bulk Liquids Berth UPSS, Port Botany	Charlotte ROAD	Other Petroleum	Regulation under CLM Act not required	-33.97386329	151.2120157

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
PORT BOTANY	Port Operations Centre UPSS, Port Botany	Penrhyn ROAD	Other Petroleum	Regulation under CLM Act not required	-33.96803686	151.2205968
PORT BOTANY	Port Botany Railway Corridors	Friendship ROAD	Other Industry	Regulation under CLM Act not required	-33.95467008	151.2178012
PORT BOTANY	Smith Bros	4 Bumborah Point ROAD	Other Petroleum	Regulation under CLM Act not required	-33.9681757	151.2239505
PORT BOTANY	Vopak Terminals	21 Fishburn ROAD	Other Industry	Under assessment	-33.97783024	151.2113674
PORT KEMBLA	Coates Hire Facility (Eastern Portion)	1 Flinders STREET	Other Industry	Regulation under CLM Act not 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 KEMBLA	Darcy Road Rail Sidings	Darcy ROAD	Other Industry	Regulation under CLM Act not required	-34.47792834	150.9105503
PORT KEMBLA	No 2 Steelworks	Five Islands ROAD	Metal Industry	Contamination formerly regulated under	-34.45965024	150.8844432
PORT KEMBLA	Port Kembla Orica	Foreshore Road and Darcy ROAD	Other Industry	Contamination currently regulated under	-34.47773583	150.9054545
PORT KEMBLA	Port Kembla, Auszinc Metals and Alloys	Lot 2 Shellharbour ROAD	Metal Industry	Regulation under CLM Act not required	-34.49335414	150.8961205
PORT KEMBLA	South Yard Rail Sidings	Lot 3 Old Port ROAD	Unclassified	Regulation under CLM Act not required	-34.47500551	150.8951759
PORT KEMBLA	Manildra Park	Flinders STREET	Other Petroleum	Contamination formerly regulated under	-34.46946878	150.8935731
PORT KEMBLA	Port Kembla Copper Smelter	Military ROAD	Metal Industry	Contamination currently regulated under	-34.4810006	150.9063426
PORT KEMBLA	Caltex Service Station	16 Flinders STREET	Service Station	Regulation under CLM Act not required	-34.47058088	150.8945864
PORT KEMBLA	BHP Area 21	Springhill ROAD	Metal Industry	Contamination formerly regulated under	-34.45244614	150.8676517
PORT KEMBLA	Port Kembla Steelworks Recycling Area	Springhill ROAD	Unclassified	Regulation under CLM Act not required	-34.45271181	150.8677127

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
PORT KEMBLA	Commonwealth Rolling Mills (CRM)	Old Port ROAD	Metal Industry	Regulation under CLM Act not required	-34.47476117	150.8974746
PORT KEMBLA	Port Kembla, Former Electricity Commissi	Old Port Road/Christie Drive ROAD	Other Industry	Regulation under CLM Act not required	-34.46899143	150.8982854
PORT KEMBLA	Port Kembla Steelworks - Steelhaven	Five Islands ROAD	Other Industry	Regulation under CLM Act not required	-34.47605247	150.891144
PORT KEMBLA	Port Kembla Steelworks - No.1 Works Site	Five Islands ROAD	Metal Industry	Regulation under CLM Act not required	-34.47386606	150.8794912
PORT KEMBLA	Port Kembla Springhill Works	Springhill ROAD	Metal Industry	Regulation under CLM Act not required	-34.45574479	150.875052
PORT MACQUARIE	Former Mobil Depot	211 Lake ROAD	Other Petroleum	Regulation under CLM Act not required	-31.44688513	152.8864499
PORT MACQUARIE	Caltex Service Station	112-114 Gordon STREET	Service Station	Regulation under CLM Act not required	-31.43491709	152.9047618
PORT MACQUARIE	Caltex Port Macquarie Service Station	29 Lord STREET	Service Station	Regulation under CLM Act not required	-31.43326436	152.9169873
PORT MACQUARIE	Coles Myer	43 John Oxley DRIVE	Service Station	Regulation under CLM Act not required	-31.45741442	152.8739626
PORT MACQUARIE	Air BP Avgas Facility	Oliver DRIVE	Other Petroleum	Regulation under CLM Act not required	-31.43227222	152.8681083
PORT MACQUARIE	Former Mobil Service Station	Corner Oxley Highway and Major Innes D	Service Station	Regulation under CLM Act not required	-31.45738931	152.873956
PORT MACQUARIE	Port Macquarie Council Depot	Koala STREET	Unclassified	Regulation under CLM Act not required	-31.45341586	152.9032764
PORT MACQUARIE	Shell Coles Express Port Macquarie Servic	121 Gordon STREET	Service Station	Regulation under CLM Act not required	-31.4343131	152.9046869
PORT MACQUARIE	Caltex Service Station	92 Hastings River DRIVE	Service Station	Regulation under CLM Act not required	-31.42934052	152.8830188
PORT MACQUARIE	Caltex Service Station	12-14 Bolwarra ROAD	Service Station	Regulation under CLM Act not required	-31.45015286	152.8854769
PORT MACQUARIE	Car park	28 Hayward STREET	Other Industry	Regulation under CLM Act not required	-31.43385131	152.9072399

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
PORTLAND	Ivanhoe Colliery	Pipers Flat ROAD	Other Industry	Regulation under CLM Act not required	-33.36595748	150.0099577
PORTLAND	Mt Piper Power Station	350 Boulder ROAD	Other Petroleum	Regulation under CLM Act not required	-33.35581541	150.0350801
PRAIRIEWOOD	7-Eleven (former Caltex) Service Station	485-487 Smithfield ROAD	Service Station	Regulation under CLM Act not required	-33.87102509	150.9031383
PROSPECT	7-Eleven (former Mobil) Service Station P	354 Flushcombe ROAD	Service Station	Regulation under CLM Act not required	-33.79541624	150.9049417
PROSPECT	Pincott's Cottage, Gate C1	Off Reservoir ROAD	Unclassified	Regulation under CLM Act not required	-33.81589773	150.9144343
PROSPECT	Gatehouse, 544 Reservoir Road	544 Reservoir ROAD	Unclassified	Regulation under CLM Act not required	-33.81026272	150.9160605
PROSPECT	Cottage 3, William Lawson Drive	William Lawson DRIVE	Unclassified	Regulation under CLM Act not required	-33.81490331	150.9149885
PUNCHBOWL	Former BP Service Station	1375 Canterbury Road, corner Victoria RD	Service Station	Regulation under CLM Act not required	-33.93170424	151.0537302
PUNCHBOWL	Punchbowl Laundry	42-44 Belmore ROAD	Chemical Industry	Contamination currently regulated under	-33.93582701	151.0562638
PUNCHBOWL	Caltex Service Station Punchbowl	1285-1289 Canterbury ROAD	Service Station	Regulation under CLM Act not required	-33.93146308	151.0596348
PUTNEY	Putney Marina	20 Waterview STREET	Other Industry	Regulation under CLM Act not required	-33.82608091	151.1003966
PYMBLE	Caltex Service Station	1089 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.74102977	151.1385257
PYMBLE	Shell Coles Express Service Station	21 Ryde ROAD	Service Station	Regulation under CLM Act not required	-33.75198512	151.1438115
PYMBLE	Former 3M site	950 Pacific HIGHWAY	Gasworks	Regulation under CLM Act not required	-33.75050288	151.1460578
PYMBLE	Pymble West Dry Cleaners	6 Philip MALL	Other Industry	Under preliminary investigation order	-33.76109009	151.1284329
PYRMONT	Former Council Works Depot (Fig and Wa	14-26 Wattle STREET	Other Industry	Regulation under CLM Act not required	-33.8752655	151.1942645

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
QUAKERS HILL	7-Eleven (former Mobil) Service Station	83 Lalor ROAD	Service Station	Regulation under CLM Act not required	-33.72759077	150.8966764
QUAKERS HILL	BP Branded Parkway (Former Caltex) Service Station	450 Quakers Hill PARKWAY	Service Station	Regulation under CLM Act not required	-33.72998613	150.9023617
QUEANBEYAN	Former Mobil Service Station	153 Uriarra ROAD	Service Station	Regulation under CLM Act not required	-35.34425514	149.2148687
QUEANBEYAN	Bill Lilley Automotive	169 Crawford STREET	Service Station	Regulation under CLM Act not required	-35.35138121	149.232486
QUEANBEYAN	Woolworths Queanbeyan Service Station	196 Crawford (Cnr Morisset St) STREET	Service Station	Regulation under CLM Act not required	-35.35163055	149.2335759
QUEANBEYAN	Caltex Queanbeyan Service Station	88 Macquoid (also known as Bungendore) STREET	Service Station	Regulation under CLM Act not required	-35.34930535	149.2438607
QUEANBEYAN	Former Mobil Emoleum Depot	109-111 High STREET	Other Petroleum	Regulation under CLM Act not required	-35.3396115	149.237556
QUEANBEYAN	Former Caltex Depot	20-30 Railway STREET	Other Petroleum	Regulation under CLM Act not required	-35.34187485	149.2247277
QUEANBEYAN EAST	BP-Branded Service Station Queanbeyan	50 Yass ROAD	Service Station	Regulation under CLM Act not required	-35.34126641	149.2445103
QUEANBEYAN WEST	Caltex Service Station	Lanyon Dr Cnr McCrae St (1 Suraci Place) STREET	Service Station	Regulation under CLM Act not required	-35.36372923	149.2067531
QUIRINDI	Former Mobil Depot Quirindi	4-6 Cross STREET	Other Petroleum	Regulation under CLM Act not required	-31.49903355	150.681972
QUIRINDI	Tamarang ServiCentre Quirindi	113-117 Station (also known as 119-121) STREET	Service Station	Under assessment	-31.50179204	150.6814611
QUIRINDI	Caltex Service Station, Quirindi	199-201 George STREET	Service Station	Regulation under CLM Act not required	-31.5068778	150.6805874
RAMSGATE	Shell Coles Express Service Station	Grand Parade cnr Ramsgate ROAD	Service Station	Regulation under CLM Act not required	-33.98537988	151.1471234
RANDWICK	7-Eleven Service Station	126-130 Barker STREET	Service Station	Contamination currently regulated under	-33.92096152	151.2355927
RANDWICK	Caltex Service Station	2 Alison ROAD	Service Station	Regulation under CLM Act not required	-33.9065752	151.2320697

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
RANDWICK	Metro Petroleum	345 Avoca STREET	Service Station	Regulation under CLM Act not required	-33.92544832	151.2396799
RANDWICK	Service Station, Randwick	33-37 Carrington ROAD	Service Station	Contamination currently regulated under	-33.90655015	151.2525065
RAVENSWORTH	Ravensthorpe Operations Narama Mine	Lemington ROAD	Other Industry	Regulation under CLM Act not required	-32.47115903	151.0359579
RAVENSWORTH	Cumnock Colliery	Pikes Gully ROAD	Other Industry	Regulation under CLM Act not required	-32.40218281	150.9960082
RAYMOND TERRACE	Shell Coles Express Raymond Terrace	107 Adelaide (formerly Pacific Highway) S	Service Station	Regulation under CLM Act not 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
RAYMOND TERRACE	Former Motor Registry	53 William STREET	Other Petroleum	Regulation under CLM Act not required	-32.76286473	151.7445839
RAYMOND TERRACE	Raymond Terrace Wastewater Treatment	22 Elizabeth AVENUE	Other Industry	Regulation under CLM Act not required	-32.7745339	151.7498871
REDFERN	BP Service Station	116 Regent STREET	Service Station	Regulation under CLM Act not required	-33.89367876	151.1995256
REDFERN	Former Printing Works	101a Marriott STREET	Other Industry	Regulation under CLM Act not required	-33.89512556	151.2113422
REDFERN	BP-branded Jasbe Surry Hills	411 Cleveland STREET	Service Station	Regulation under CLM Act not required	-33.89183974	151.2132466
REDFERN	Surry Hills Shopping Village	397-399 Cleveland & 2-38 Baptist STREET	Other Industry	Regulation under CLM Act not required	-33.89229521	151.2119397
REVESBY	Dorf Clark Industries	184-194 Milperra ROAD	Metal Industry	Regulation under CLM Act not required	-33.93387149	151.000553
REVESBY	Thetis Pty Ltd - Bituminous Products	33-35 Violet STREET	Chemical Industry	Contamination currently regulated under	-33.93702092	151.0067896
REVESBY	Mirotone Pty Ltd	21 Marigold STREET	Chemical Industry	Contamination currently regulated under	-33.93559608	151.0002207
REVESBY	Caltex Service Station Revesby	181 The River ROAD	Service Station	Regulation under CLM Act not required	-33.95573605	151.0171779

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
RHODES	Homebush Bay Sediments adjoining the f	Homebush BAY	Chemical Industry	Ongoing maintenance required to manag	-33.8263749	151.0839216
RHODES	Former Glad factory site	10-16 Marquet STREET	Chemical Industry	Regulation under CLM Act not required	-33.82884048	151.0848716
RHODES	Former Allied Feeds site	Walker STREET	Other Industry	Contamination formerly regulated under	-33.82465376	151.0870401
RHODES	Former UCAL site	Walker STREET	Chemical Industry	Ongoing maintenance required to manag	-33.82727505	151.0853195
RHODES	Homebush Bay sediments adjoining form	Oulton AVENUE	Chemical Industry	Contamination currently regulated under	-33.83535308	151.083238
RICHMOND	Caltex Richmond Service Station	98 March (Cnr East Market St) STREET	Service Station	Regulation under CLM Act not required	-33.59937996	150.7514483
RIVERSTONE	Axalta Coating Systems	15-23 Melbourne ROAD	Other Industry	Regulation under CLM Act not required	-33.6636649	150.8557519
RIVERSTONE	7-Eleven Riverstone	55 Garfield ROAD	Service Station	Regulation under CLM Act not required	-33.67802232	150.8635246
RIVERSTONE	Woolworths Vineyard Service Station, Riv	1 Woodland Street, corner of Windsor RO	Service Station	Regulation under CLM Act not required	-33.65607641	150.8724067
RIVERSTONE	Vacant Commercial Land	88-94 Junction ROAD	Unclassified	Regulation under CLM Act not required	-33.66226398	150.8789967
RIVERWOOD	7-Eleven Riverwood	30 Bonds ROAD	Service Station	Regulation under CLM Act not required	-33.9523701	151.0583887
ROCKDALE	7-Eleven (former Mobil) Service Station	293 West Botany STREET	Service Station	Regulation under CLM Act not required	-33.94995672	151.1484667
ROCKDALE	7-Eleven Service Station	99 Railway STREET	Service Station	Regulation under CLM Act not required	-33.95247322	151.1356785
ROCKDALE	Lindsay St, Rockdale	7 Lindsay STREET	Other Industry	Under assessment	-33.95900867	151.1436466
ROOTY HILL	7-Eleven (former Mobil) Service Station	106 Rooty Hill Road South ROAD	Service Station	Regulation under CLM Act not required	-33.78036181	150.8501998
ROOTY HILL	7-Eleven (former Mobil) Service Station	1042 Great Western HIGHWAY	Service Station	Regulation under CLM Act not required	-33.78214955	150.8287656

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
ROOTY HILL	Infrabuild NSW Pty Ltd (formerly OneSteel)	22 Kellogg ROAD	Other Industry	Regulation under CLM Act not required	-33.76664143	150.8493465
ROSE BAY	Caltex Rose Bay Service Station	488 Old South Head ROAD	Service Station	Regulation under CLM Act not required	-33.87475145	151.2723847
ROSE BAY	Rose Bay Budget Service station	638-646 New South Head ROAD	Service Station	Contamination formerly regulated under	-33.87062149	151.2677617
ROSEBERY	Autofoil P/L	2 Mentmore AVENUE	Other Industry	Regulation under CLM Act not required	-33.91121318	151.2054882
ROSEBERY	Caltex Rosebery Service Station	321 Gardeners (Cnr Macquarie St) ROAD	Service Station	Contamination currently regulated under	-33.92302898	151.2059541
ROSEBERY	Former Industrial Site (Former Electroplate)	108 Dunning AVENUE	Other Industry	Regulation under CLM Act not required	-33.91630811	151.201557
ROSEBERY	Rosebery Service Station	395 Gardeners ROAD	Service Station	Contamination formerly regulated under	-33.92246784	151.2024589
ROSEHILL	James Hardie Australia and former James Hardie	8 and 10 Colquhoun Street and 5 Devon Street	Landfill	Ongoing maintenance required to manage	-33.82539019	151.0339466
ROSEHILL	2 Ritchie Street, Rosehill	2 Ritchie STREET	Unclassified	Contamination formerly regulated under	-33.82691192	151.0154948
ROSEHILL	James Hardie Factory (former, western part)	181 James Ruse DRIVE	Other Industry	Ongoing maintenance required to manage	-33.81605834	151.0238145
ROSELANDS	Roselands Shopping Centre	24 Roseland AVENUE	Service Station	Regulation under CLM Act not required	-33.93499281	151.0691284
ROSELANDS	Woolworths Caltex Petrol Service Station	218 King Georges ROAD	Service Station	Regulation under CLM Act not required	-33.93303118	151.0735036
ROSELANDS	7-Eleven (former Mobil) Service Station	91 Canary's ROAD	Service Station	Regulation under CLM Act not required	-33.93356078	151.0736274
ROSEVILLE	Mobil Service Station	2 Boundary STREET	Service Station	Regulation under CLM Act not required	-33.78769177	151.1796011
ROSEVILLE CHASE	Coles Express Roseville Chase	388 Eastern Valley WAY	Service Station	Regulation under CLM Act not required	-33.78337722	151.1973901
ROZELLE	Caltex Service Station	121 Victoria ROAD	Service Station	Regulation under CLM Act not required	-33.86252996	151.168497

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
ROZELLE	7-Eleven (former Mobil) Service Station	178-180 (176-184) Victoria ROAD	Service Station	Regulation under CLM Act not required	-33.8630268	151.1680857
ROZELLE	Kennards Rozelle	15-39 Wellington STREET	Other Petroleum	Regulation under CLM Act not required	-33.86176757	151.1686519
ROZELLE	White Bay Power Station	Robert STREET	Other Industry	Regulation under CLM Act not required	-33.86674636	151.1772204
ROZELLE	BP Service Station	Corner Darling Street and Thornton STREET	Service Station	Regulation under CLM Act not required	-33.8591647	151.1716591
RUFUS RIVER	SA Water Depot - Rufus River	Old Wentworth STREET	Other Petroleum	Regulation under CLM Act not required	-34.04191512	141.2679475
RUSHCUTTERS BAY	d'Albora Marinas	1b New Beach ROAD	Other Industry	Contamination currently regulated under	-33.87351297	151.2345082
RUTHERFORD	Rutherford Transpacific	11 Kyle STREET	Other Industry	Regulation under CLM Act not required	-32.71105203	151.500311
RUTHERFORD	Shell Coles Express Service Station Rutherford	118 New England HIGHWAY	Service Station	Regulation under CLM Act not required	-32.7208703	151.5394595
RUTHERFORD	Caltex Service Station	134-138 New England HIGHWAY	Service Station	Regulation under CLM Act not required	-32.7202589	151.5381526
RUTHERFORD	Transpacific Industrial Services/Nationwide	99 Kyle STREET	Chemical Industry	Regulation under CLM Act not required	-32.71262159	151.5013865
RYDALMERE	Caltex Service Station	309 Victoria ROAD	Service Station	Regulation under CLM Act not required	-33.81196193	151.0371185
RYDALMERE	Mitsubishi Electric	348 Victoria ROAD	Other Industry	Contamination currently regulated under	-33.81040138	151.0392812
RYDALMERE	Rheem Australia	1 Alan STREET	Other Industry	Contamination formerly regulated under	-33.81545013	151.0295476
RYDALMERE	BP Service Station	265 Victoria ROAD	Service Station	Regulation under CLM Act not required	-33.8109483	151.0328101
RYDALMERE	Hunter Douglas	Victoria ROAD	Chemical Industry	Regulation under CLM Act not required	-33.81009112	151.0384732
RYDALMERE	United Petroleum (former 7-Eleven) Service Station	262-272 Victoria ROAD	Service Station	Regulation under CLM Act not required	-33.81006724	151.032377

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
RYDE	Shell Coles Express Ryde	45 Lane Cove ROAD	Service Station	Regulation under CLM Act not required	-33.80726028	151.109981
RYDE	Caltex Service Station	110 Lane Cove ROAD	Service Station	Regulation under CLM Act not required	-33.80142973	151.1137925
RYDE	7-Eleven (former Mobil) Service Station	326-328 Blaxland ROAD	Service Station	Regulation under CLM Act not required	-33.80242183	151.1004278
RYDE	Ryde Bus Depot	51 - 75 Buffalo ROAD	Other Petroleum	Regulation under CLM Act not required	-33.81679771	151.1225255
SANCTUARY POINT	United Service Station, Sanctuary Point	147 Larmer AVENUE	Service Station	Regulation under CLM Act not 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	North Limited Storage Handling facility	Maitland ROAD	Other Industry	Contamination formerly regulated under	-32.86598453	151.7012866
SANS SOUCI	7-Eleven (Former Mobil) Service Station	474 Rocky Point ROAD	Service Station	Regulation under CLM Act not required	-33.99088939	151.1333779
SANS SOUCI	BP Sans Souci	520 Rocky Point ROAD	Service Station	Contamination currently regulated under	-33.99245122	151.1323571
SANS SOUCI	Kendall Street Reserve	Lawson Street and Kendall STREET	Landfill	Under preliminary investigation order	-33.99966431	151.13005
SANS SOUCI	Former Service Station	542-544 Rocky Point ROAD	Service Station	Contamination was addressed via the pla	-33.99376148	151.1316131
SANS SOUCI	Former 7-Eleven Ramsgate	368 Rocky Point ROAD	Service Station	Contamination formerly regulated under	-33.98615125	151.1359961
SCHOFIELDS	Reserve 478, Grange Avenue, Schofields	Reserve 478, Grange AVENUE	Landfill	Under assessment	-33.703113	150.847815
SCONE	Shell Coles Express Service Station	91- 93 Kelly STREET	Service Station	Contamination currently regulated under	-32.04715941	150.8676346
SCONE	Scone Works Depot	220 Susan STREET	Other Petroleum	Regulation under CLM Act not required	-32.04444892	150.879152
SCONE	Mobil Scone Airport Elt	8 Walter Pye AVENUE	Other Petroleum	Regulation under CLM Act not required	-32.03596733	150.8323698

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
SCONE	BP - Former Depot	Scone St, Guernsey St & Susan STREET	Service Station	Contamination formerly regulated under	-32.04599284	150.8662046
SCONE	BP Scone	26 Kelly STREET	Service Station	Regulation under CLM Act not required	-32.04033034	150.86549
SCONE	BP Scone Service Station	58 Kelly STREET	Service Station	Regulation being finalised	-32.04378	150.866303
SEVEN HILLS	7-Eleven (Former Mobil) Service Station S	151 Prospect HIGHWAY	Service Station	Regulation under CLM Act not required	-33.76894646	150.9427004
SEVEN HILLS	Australia Post	3 Powers ROAD	Unclassified	Regulation under CLM Act not required	-33.77434009	150.9395495
SEVEN HILLS	Car Park (Former Brickworks / Warehouse	1 Powers ROAD	Other Industry	Regulation under CLM Act not required	-33.77387442	150.9379787
SEVEN HILLS	BP-branded Jasbe Petroleum Service Stat	156 Prospect HIGHWAY	Service Station	Regulation under CLM Act not 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	Caltex Service Station Seven Hills	105 Station ROAD	Service Station	Regulation under CLM Act not required	-33.77435881	150.9448733
SEVEN HILLS	Former Australian Waste Oil Refineries Si	27 Powers ROAD	Other Industry	Contamination formerly regulated under	-33.77536127	150.9511122
SHELLY BEACH	Former Shelly Beach Landfill	Oaks AVENUE	Landfill	Regulation under CLM Act not required	-33.36700551	151.4913631
SHORTLAND	Former Astra Street Landfill	2 (part) & 28 (part) Astra STREET	Landfill	Contamination currently regulated under	-32.8689426	151.6974685
SHORTLAND	Tuxford Park landfill	10 King STREET	Landfill	Regulation under CLM Act not 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 Station	298-302 Sandgate ROAD	Service Station	Regulation under CLM Act not required	-32.8861645	151.6953912
SHORTLAND	Shortland Wastewater Treatment Works	Aden STREET	Other Industry	Under assessment	-32.887149	151.687106

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
SHORTLAND	Shortland Wastewater Treatment Works	Aden STREET	Other Industry	Under assessment	-32.887149	151.687106
SILVERWATER	Former Silverwater Landfill	Carnarvon ROAD	Landfill	Contamination currently regulated under	-33.83506394	151.033214
SILVERWATER	Vacant property	103-105 Silverwater ROAD	Other Industry	Regulation under CLM Act not 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	Other Industry	Under assessment	-33.83866058	151.0482675
SILVERWATER	Silverwater Correctional Complex	Holker STREET	Landfill	Regulation under CLM Act not required	-33.83123611	151.0585298
SINGLETON	BP Service Station Singleton	53 George (Cnr Macquarie St) STREET	Other Petroleum	Regulation under CLM Act not required	-32.56182325	151.1748054
SINGLETON	Singleton Gasworks	55-57 John STREET	Gasworks	Contamination formerly regulated under	-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	Mobil Singleton Airport Elt	74B Range ROAD	Other Petroleum	Regulation under CLM Act not required	-32.60270846	151.1944828
SINGLETON	Putty Saw Mill	(via Singleton) Putty ROAD	Other Industry	Contamination currently regulated under	-32.99958725	150.7111684
SINGLETON	NSW Mines Rescue Services - Singleton	6 Lachlan AVENUE	Other Industry	Regulation under CLM Act not required	-32.54537821	151.156584
SMITHFIELD	Caltex Smithfield	16-18 Tait STREET	Service Station	Regulation under CLM Act not required	-33.84596441	150.9435497
SMITHFIELD	Freestones	1 Hume ROAD	Other Petroleum	Regulation under CLM Act not required	-33.83577694	150.9310112
SMITHFIELD	Liquip International	13 Hume ROAD	Other Industry	Regulation under CLM Act not required	-33.83802635	150.9319034
SMITHFIELD	Coles Express (former Mobil) Service Stat	678 The Horsley Drive, corner Smithfield	Service Station	Regulation under CLM Act not required	-33.85376154	150.9400104

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
SMITHFIELD	Former Landfill	Little STREET	Landfill	Contamination being managed via the pla	-33.85025253	150.9411561
SOUTH ALBURY	BP Border Service Station	Corner Ebdon Street and Wodonga PLACE	Service Station	Contamination formerly regulated under	-36.08875942	146.9093882
SOUTH BOWENFELS	Shell Coles Express Service Station	Lot 1 Great Western HIGHWAY	Service Station	Regulation under CLM Act not required	-33.50589001	150.1238487
SOUTH COOGEE	Caltex South Coogee Service Station	169-173 Malabar ROAD	Service Station	Regulation under CLM Act not required	-33.93233184	151.2574377
SOUTH GRAFTON	Shell Coles Express Service Station	91 Bent STREET	Service Station	Regulation under CLM Act not required	-29.70605829	152.9400329
SOUTH GRAFTON	Former United (former Mobil) Service Sta	Corner Pacific Highway and Charles STREET	Service Station	Regulation under CLM Act not required	-29.70814828	152.9412928
SOUTH GRAFTON	Former Caltex Service Station	46-58 Schwinghammer STREET	Service Station	Regulation under CLM Act not required	-29.71149672	152.9453337
SOUTH GRAFTON	Former Caltex Depot South Grafton	72-82 Swallow ROAD	Other Petroleum	Regulation under CLM Act not required	-29.73168549	152.944024
SOUTH GRAFTON	Caltex Service Station	Pacific Hwy Cnr Gwyder HIGHWAY	Service Station	Regulation under CLM Act not required	-29.70739015	152.9425508
SOUTH GRANVILLE	Enhance Service Station South Granville	2 Rawson ROAD	Service Station	Regulation under CLM Act not required	-33.86366193	151.0088768
SOUTH KEMPSEY	Caltex Service Station	52 Lachlan STREET	Service Station	Regulation under CLM Act not required	-31.09361084	152.8370796
SOUTH LISMORE	North Coast Petroleum (Former Mobil) D	19-21 Elliot ROAD	Other Petroleum	Regulation under CLM Act not required	-28.81212046	153.2661935
SOUTH LISMORE	Former Mobil Service Station	126 - 128 Union STREET	Service Station	Regulation under CLM Act not required	-28.81242175	153.267541
SOUTH LISMORE	Caltex Service Station	237 Union STREET	Service Station	Regulation under CLM Act not required	-28.82052708	153.2648111
SOUTH LISMORE	Former Mobil Depot	26-32 Phyllis STREET	Other Petroleum	Regulation under CLM Act not required	-28.81005206	153.2660073
SOUTH MURWILLUMBAH	Former Caltex Depot	39 Lundberg DRIVE	Service Station	Regulation under CLM Act not required	-28.332622	153.4212884

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
SOUTH MURWILLUMBAH	Caltex Service Station	1-7 Buchanan (Cnr Tweed Valley Way) ST	Service Station	Regulation under CLM Act not required	-28.32687988	153.4093274
SOUTH MURWILLUMBAH	Former Mobil Depot	45 Wardrop STREET	Other Petroleum	Regulation under CLM Act not required	-28.33421395	153.3993772
SOUTH NOWRA	Caltex South Nowra	100 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-34.90516081	150.6029621
SOUTH PENRITH	7-Eleven Service Station	45 Aspen STREET	Service Station	Regulation under CLM Act not required	-33.77727694	150.7107228
SOUTH TAMWORTH	Coles Express Tamworth	251 - 253 Goonoo Goonoo ROAD	Service Station	Contamination currently regulated under	-31.1118945	150.9228523
SOUTH TAMWORTH	Caltex Service Station	2 Kathleen Street, corner Kent STREET	Service Station	Regulation under CLM Act not required	-31.10361712	150.9186343
SOUTH WENTWORTHVILLE	Aldi Stores Development	331-339 Great Western HIGHWAY	Metal Industry	Regulation under CLM Act not required	-33.81605854	150.9697429
SOUTH WENTWORTHVILLE	Caltex Service Station	313 Great Western HIGHWAY	Service Station	Regulation under CLM Act not required	-33.81643692	150.9718802
SOUTH WEST ROCKS	Former Trial Bay Caltex Depot	Phillip DRIVE	Other Petroleum	Regulation under CLM Act not required	-30.89190078	153.0573056
SOUTH WEST ROCKS	Former Shell Trial Bay Depot	Phillip DRIVE	Other Petroleum	Regulation under CLM Act not required	-30.89273836	153.0612772
SOUTH WEST ROCKS	Residential area and Reserve opposite Fo	Phillip DRIVE	Other Petroleum	Regulation under CLM Act not required	-30.89172594	153.0573164
SPRINGVALE	Springvale Colliery	Castlereagh HIGHWAY	Other Industry	Regulation under CLM Act not required	-33.40334736	150.1070462
ST CLAIR	7-Eleven (former Mobil) Service Station	4 Endeavour AVENUE	Service Station	Regulation under CLM Act not required	-33.79430926	150.7885793
ST IVES	7-Eleven (former Mobil) St Ives Service St	157-159 Mona Vale Road, corner Putarri A	Service Station	Regulation under CLM Act not required	-33.73265301	151.1563899
ST IVES	Caltex Service Station	452 Mona Vale ROAD	Service Station	Regulation under CLM Act not required	-33.70752272	151.187545
ST IVES	Caltex Service Station	164 Mona Vale ROAD	Service Station	Regulation under CLM Act not required	-33.7307595	151.1570462

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
ST IVES	Caltex Service Station St Ives	363 Mona Vale ROAD	Service Station	Regulation under CLM Act not required	-33.7168971	151.1735263
ST IVES	Shell Service Station	179-181 Mona Vale ROAD	Service Station	Contamination formerly regulated under	-33.73124859	151.1575827
ST LEONARDS	Telstra Data Centre	4A Herbert STREET	Other Petroleum	Regulation under CLM Act not required	-33.81873741	151.1914222
ST MARYS	Former Woolworths Service Station	120-128 Forrester ROAD	Service Station	Regulation under CLM Act not required	-33.75525115	150.7752897
ST MARYS	7-Eleven (former Mobil) Service Station	2 Christie STREET	Service Station	Regulation under CLM Act not 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
ST MARYS	Solveco	38 LINKS ROAD	Other Industry	Contamination currently regulated under	-33.73875413	150.7716457
ST MARYS	Integral Energy Mt Druitt Transmission S	69 Kurrajong North ROAD	Other Industry	Regulation under CLM Act not required	-33.76376093	150.7921691
ST MARYS	Caltex St Marys Service Station	Wordoo St Cnr Forrester ROAD	Service Station	Regulation under CLM Act not required	-33.75334263	150.7755489
ST MARYS	Chemcolour Industries	19-25 Anne STREET	Chemical Industry	Regulation under CLM Act not required	-33.75027071	150.7725397
ST MARYS	Old Drycleaning location	1-7 Queen STREET	Other Industry	Under assessment	-33.76223376	150.774412
ST MARYS	St Mary's Shopping Village	10 Charles Hackett DRIVE	Other Industry	Regulation under CLM Act not required	-33.76647672	150.7710143
ST PETERS	Cooks River Rail Terminal	20 Canal ROAD	Unclassified	Regulation under CLM Act not required	-33.91943986	151.1726689
ST PETERS	Camdenville Park	May STREET	Other Industry	Regulation under CLM Act not required	-33.90911815	151.176951
ST PETERS	Former Tidyburn Facility	53 Barwon Park ROAD	Chemical Industry	Contamination formerly regulated under	-33.9130091	151.1809912
ST PETERS	BP Express Service Station	2 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-33.90982281	151.1809936

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
ST PETERS	Former Industrial Manufacturing Facility	75 Mary STREET	Other Industry	Regulation under CLM Act not required	-33.91307297	151.1731383
ST PETERS	Burrows Industrial Estate	1-3 Burrows ROAD	Landfill	Regulation under CLM Act not required	-33.917241	151.180902
STANMORE	125 Corunna Road	125 Corunna ROAD	Unclassified	Regulation under CLM Act not required	-33.88937382	151.1644589
STOCKTON	Former Coroba Landfill	310 Fullerton STREET	Landfill	Regulation under CLM Act not required	-32.89578751	151.7898857
STRATHFIELD	7-Eleven (former Mobil) Service Station	577 Liverpool ROAD	Service Station	Regulation under CLM Act not required	-33.88736091	151.0743474
STRATHFIELD SOUTH	Former Landfill Site	7-9 Dunlop STREET	Landfill	Regulation under CLM Act not required	-33.89509698	151.0796751
STROUD	Stroud Fuel Supplies (Former Caltex) Serv	1 Cowper STREET	Service Station	Regulation under CLM Act not required	-32.39092749	151.9563089
SUFFOLK PARK	BP Service Station	207-209 Broken Head ROAD	Service Station	Regulation under CLM Act not required	-28.68800088	153.6083821
SUFFOLK PARK	Suffolk Park dip site	Cnr Broken Head Road & Beech DRIVE	Cattle Dip	Regulation under CLM Act not required	-28.6874242	153.6072824
SUMMER HILL	Maurice Dry Cleaners	150 Smith STREET	Other Industry	Under assessment	-33.891896	151.137347
SURRY HILLS	Woolworths Petrol Surry Hills	475 Cleveland STREET	Service Station	Regulation under CLM Act not required	-33.89223271	151.2161434
SURRY HILLS	Former Legion Cabs (Trading) Cooperative	81 & 81A (Formerly 69 - 81) Foveaux STR	Service Station	Regulation under CLM Act not required	-33.88470082	151.2107944
SURRY HILLS	Ausgrid Road Reserve	Mary STREET	Other Industry	Regulation under CLM Act not required	-33.88292195	151.2095176
SUTHERLAND	United Service Station and Sutherland Re	1 to 3 Oxford STREET	Service Station	Contamination currently regulated under	-34.029532	151.0579906
SUTHERLAND	7-Eleven Service Station	693 Old Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-34.02976735	151.0588789
SUTTON FOREST	Coles Express Sutton Forest West	Hume HIGHWAY	Service Station	Regulation under CLM Act not required	-34.60808989	150.2250592

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
SWANSEA	Caltex Service Station	126 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.08811841	151.6381764
SWANSEA	Swansea 1 - Wastewater Pumping Station	137 and 137a Northcote AVENUE	Other Industry	Regulation under CLM Act not required	-33.09733813	151.6473669
SYDENHAM	SRA Land	117 Railway PARADE	Other Industry	Regulation under CLM Act not required	-33.91560723	151.1656846
SYDENHAM	Sydenham XPT Maintenance Facility	Way STREET	Other Industry	Regulation under CLM Act not required	-33.91698468	151.1614089
SYDNEY	Interpro House (OSP 46581)	447 Kent STREET	Other Petroleum	Regulation under CLM Act not required	-33.87225413	151.204761
SYDNEY	Eurostar Dry Cleaners	100 Oxford STREET	Chemical Industry	Regulation under CLM Act not required	-33.8792987	151.2156647
SYDNEY OLYMPIC PARK	RMS Western Precinct	14A-14E and 16 Hill ROAD	Other Petroleum	Regulation under CLM Act not required	-33.82239777	151.0758664
SYDNEY OLYMPIC PARK	Haslams Creek South Area 3	At Kronos Hill, Kevin Coombes AVENUE	Landfill	Contamination formerly regulated under	-33.84113059	151.0602966
SYDNEY OLYMPIC PARK	Bicentennial Park	Bicentennial DRIVE	Landfill	Ongoing maintenance required to manag	-33.84456248	151.0788116
SYDNEY OLYMPIC PARK	Former Golf Driving Range Landfill	Sarah Durack AVENUE	Landfill	Ongoing maintenance required to manag	-33.85358517	151.0713987
SYDNEY OLYMPIC PARK	Kronos Hill Landfill	Kevin Coombes AVENUE	Landfill	Ongoing maintenance required to manag	-33.84014442	151.0649521
SYDNEY OLYMPIC PARK	Wilson Park (Former oil gas plant site)	Newington ROAD	Gasworks	Ongoing maintenance required to manag	-33.82623982	151.0536833
SYDNEY OLYMPIC PARK	Woo-la-ra Landfill	Hill ROAD	Landfill	Ongoing maintenance required to manag	-33.82695807	151.07282
SYDNEY OLYMPIC PARK	Aquatic Centre Carpark Landfill	Shane Gould AVENUE	Landfill	Ongoing maintenance required to manag	-33.85153457	151.0678127
SYDNEY OLYMPIC PARK	Blaxland Common Landfill	Jamieson STREET	Landfill	Ongoing maintenance required to manag	-33.82638382	151.05972
SYLVANIA	Caltex Service Station	61 Port Hacking ROAD	Service Station	Regulation under CLM Act not required	-34.0140089	151.104212

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
SYLVANIA HEIGHTS	Ampol Service Station (former Caltex) - Sy	414-416 Princes HIGHWAY	Service Station	Contamination currently regulated under	-34.02361051	151.0895394
TALBINGO	Old Town Landfill	Bridle STREET	Landfill	Regulation under CLM Act not required	-35.59018237	148.3041771
TALBINGO	T3 Spoil dump and adjoining river sedime	Off Snowy Mountains HIGHWAY	Landfill	Contamination formerly regulated under	-35.6177268	148.2926158
TALBINGO	Former grit blasting site	Old Damsite ROAD	Other Industry	Regulation under CLM Act not required	-35.60894551	148.3030165
TAMINDA	Mobil Depot	9 Hinkler ROAD	Other Petroleum	Regulation under CLM Act not required	-31.09584286	150.9040493
TAMWORTH	Caltex Tamworth Service Station	109 Gunnedah ROAD	Service Station	Regulation under CLM Act not required	-31.09723226	150.8955299
TAMWORTH	Curlew Crescent	19-29 Curlew CRESCENT	Metal Industry	Regulation under CLM Act not required	-31.06963607	150.9069306
TAMWORTH	Former Service Station, Fitzpatrick Super	210 Goonoo Goonoo ROAD	Service Station	Regulation under CLM Act not required	-31.10613594	150.9234143
TAMWORTH	Gunnedah Road Site	49 GUNNEDAH ROAD	Other Industry	Contamination formerly regulated under	-31.09574904	150.9021583
TAMWORTH	Elovera Former Sheep Dip	730 Ascot Calala ROAD	Cattle Dip	Regulation under CLM Act not required	-31.1801846	150.962897
TAMWORTH	Housing NSW	29 -33 White STREET	Other Petroleum	Regulation under CLM Act not required	-31.0915651	150.9357811
TAMWORTH	BP Tamworth Service Station and Depot	27-29 Gunnedah ROAD	Other Petroleum	Under assessment	-31.09642128	150.9058193
TAMWORTH	Former Mobil Service Station	373-375 Armidale ROAD	Service Station	Regulation under CLM Act not required	-31.10122679	150.9441341
TAMWORTH	Kensell's Mitsubishi	11-14 Kable AVENUE	Other Petroleum	Regulation under CLM Act not required	-31.08921565	150.9273063
TAMWORTH	Caltex Star Tamworth	21 White STREET	Service Station	Regulation under CLM Act not required	-31.09255137	150.9341709
TAMWORTH	Former Service Station Tamworth	(Cnr Scott Rd) 254-256 Goonoo Goonoo R	Service Station	Regulation under CLM Act not required	-31.1118945	150.9228523

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
TAMWORTH	Cleanaway Operations Pty Ltd	31 Gunnedah ROAD	Other Industry	Under assessment	-31.09621029	150.9051567
TAMWORTH	Elgas Depot (former gasworks)	115 Marius STREET	Gasworks	Under preliminary investigation order	-31.08546191	150.926437
TAMWORTH	Proposed ALDI Store Tamworth	194-196 Peel STREET	Other Industry	Under assessment	-31.08522053	150.9260054
TARAGO	Tarago Railway Siding	Goulburn STREET	Other Industry	Contamination currently regulated under	-35.0695949	149.6516166
TARCUTTA	Mobil Service Station	(Hume Highway) 32 Sydney STREET	Service Station	Contamination formerly regulated under	-35.2772942	147.73574
TAREE	Caltex Taree	12 Pitt STREET	Service Station	Regulation under CLM Act not required	-31.90551738	152.4783334
TAREE	Former Caltex Depot	44 Stevenson STREET	Other Petroleum	Regulation under CLM Act not required	-31.90563595	152.4640848
TAREE	Former BP Service Station (Reliance Petro	150 Manning River DRIVE	Service Station	Regulation under CLM Act not required	-31.93842026	152.4682056
TAREE	Former Shell Depot	53-55 Stevenson STREET	Other Petroleum	Regulation under CLM Act not required	-31.90514622	152.4649706
TAREE	United Service Station and Former Mobil	85 Muldoon Street, corner Grey Gum ROA	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	53-55 Victoria STREET	Service Station	Regulation under CLM Act not required	-31.91015653	152.4659073
TAREN POINT	Former Oyster Farm	Part 2R Alexander Avenue and part 98 W	Other Industry	Contamination was addressed via the pla	-34.01714802	151.1252694
TAREN POINT	Former Oyster Farmer	1A Atkinson ROAD	Other Industry	Regulation under CLM Act not required	-34.02081803	151.1283282
TAREN POINT	Former manufacturing site	46-50 Bay ROAD	Other Industry	Regulation under CLM Act not required	-34.0236184	151.1231649
TAREN POINT	Mangrove Lane Cycle pathway	Mangrove LANE	Unclassified	Regulation under CLM Act not required	-34.02404025	151.1324783

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
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	Landfill	Regulation under CLM Act not required	-34.02119591	151.1274727
TELARAH	Former Ausgrid Depot	Green STREET	Other Industry	Regulation under CLM Act not required	-32.7276446	151.5269745
TELARAH	ACIRL	5 Junction STREET	Other Industry	Regulation under CLM Act not required	-32.73457183	151.5400128
TEMORA	Woolworths Caltex Temora	98-100 Hoskins STREET	Service Station	Regulation under CLM Act not required	-34.44324584	147.5318667
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	-33.9253681	151.1596532
TEMPE	Former Tempe Tip	South STREET	Landfill	Contamination currently regulated under	-33.92558642	151.1667178
TEMPE	Railcorp Site Renwick Street	Renwick STREET	Other Industry	Regulation under CLM Act not required	-33.91997709	151.1576058
TENTERFIELD	United Tenterfield Service Station	94 Rouse STREET	Service Station	Under assessment	-29.06260969	152.0168305
TERALBA	Lake Macquarie Teralba Sanitary Depot	Griffen ROAD	Landfill	Regulation under CLM Act not required	-32.9372059	151.6214528
TERALBA	Lucky's Scrap Metal Yard	21 Racecourse ROAD	Metal Industry	Contamination currently regulated under	-32.946724	151.616973
TERANIA CREEK	Former Izzards Cattle Tick Dip	Wallace ROAD	Cattle Dip	Contamination formerly regulated under	-28.65425776	153.2767438
THE ROCKS	Dawes Point Park	Hickson ROAD	Other Industry	Under assessment	-33.862753	151.20324
THIRLMERE	Thirlmere Rail Heritage Museum	10 Barbour ROAD	Other Industry	Regulation under CLM Act not required	-34.20689245	150.5693902

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
THORNLEIGH	Caltex Thornleigh Service Station	192-198 Pennant Hills (Cnr Duffy Ave) RO	Service Station	Regulation under CLM Act not required	-33.72660793	151.08364
THORNLEIGH	Coles Express Service Station Thornleigh	188 - 190 Pennant Hills ROAD	Service Station	Regulation under CLM Act not required	-33.72502184	151.0850569
THORNTON	Energy Australia Thornton Pole Yard	55 Weakleys DRIVE	Other Industry	Regulation under CLM Act not required	-32.79973875	151.6374998
TIGHES HILL	Holcim Australia Cement Batching Plant	340 Industrial DRIVE	Other Industry	Regulation under CLM Act not required	-32.90532418	151.7574857
TIGHES HILL	SRA Land	73 Elizabeth STREET	Unclassified	Regulation under CLM Act not required	-32.90795794	151.754631
TIGHES HILL	Former Ampol Depot	94 Elizabeth STREET	Other Petroleum	Regulation under CLM Act not required	-32.90658137	151.757239
TIGHES HILL	Former Mobil Terminal	110 Elizabeth STREET	Other Petroleum	Contamination formerly regulated under	-32.90600406	151.7586907
TOCUMWAL	Former Mobil Depot	250 Murray STREET	Other Petroleum	Regulation under CLM Act not required	-35.79180653	145.5648214
TOCUMWAL	Former Mobil Depot	79-83 Deniliquin ROAD	Other Petroleum	Regulation under CLM Act not required	-35.80914914	145.5585528
TOMAGO	Balcombe Sweat Furnace	26 Laverick AVENUE	Metal Industry	Regulation under CLM Act not 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	Regulation under CLM Act not required	-32.81419433	151.6985159
TOMERONG	Log Cabin Service Station (United Petrol)	D1300 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-35.01820959	150.5779687
TOONGABBIE	7-Eleven (Former Mobil) Service Station	3 Metella ROAD	Service Station	Regulation under CLM Act not required	-33.78692357	150.9462837
TOORMINA	Caltex Service Station	2 Minorca PLACE	Service Station	Regulation under CLM Act not required	-30.35229568	153.0906606
TORONTO	Coles XP (Former Mobil) Toronto Service	133 - 137 Cary (Cnr Thorne St) STREET	Service Station	Regulation under CLM Act not required	-33.01187681	151.5930879

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
TORONTO	BP Toronto Service Station	132 Cary (Cnr Donnelly Ave) STREET	Service Station	Regulation under CLM Act not required	-33.01144673	151.5937863
TORONTO	Toronto Hotel	74 Victory PARADE	Unclassified	Regulation under CLM Act not required	-33.01214835	151.5958127
TORONTO	Caltex Service Station	147 Cary STREET	Service Station	Regulation under CLM Act not required	-33.01288007	151.5928388
TORONTO	155B Brighton Avenue, Toronto NSW 228	155B Brighton AVENUE	Other Industry	Under assessment	-33.014893	151.599679
TOUKLEY	Former Shell Toukley Autoport	211 Main ROAD	Service Station	Regulation under CLM Act not required	-33.26383791	151.5386268
TOUKLEY	7-Eleven Australia	287 Main ROAD	Service Station	Regulation under CLM Act not required	-33.26469166	151.5462414
TRANGIE	Caltex Service Station	(Mitchell Hwy) 76 Narromine STREET	Service Station	Regulation under CLM Act not required	-32.03234676	147.985164
TUGGERAH	BP Tuggerah	100 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.30578167	151.4198083
TUMBARUMBA	Former Caltex Depot	150 Albury STREET	Other Petroleum	Regulation under CLM Act not required	-35.77024081	147.9927182
TUMBI UMBI	Former Tumbi Landfill	140 Bellevue ROAD	Landfill	Regulation under CLM Act not required	-33.3993472	151.456471
TUMUT	CSR Blue Dam	Jepsen AVENUE	Other Industry	Under assessment	-35.30098337	148.1958308
TUMUT	CSR Railway cutting	Jepsen AVENUE	Unclassified	Under assessment	-35.30422002	148.1942579
TUMUT	Former Telstra Depot	22-26 Carey STREET	Other Industry	Regulation under CLM Act not required	-35.29873079	148.2191122
TUNCESTER	Asbestos Waste Burial Site	13 Rifle Range ROAD	Other Industry	Contamination currently regulated under	-28.79939255	153.2193708
TUROSS HEAD	Tern Inn Restaurant (abandoned UPSS)	2 Trafalgar ROAD	Service Station	Regulation under CLM Act not required	-36.05871059	150.1308443
TURRAMURRA	7-Eleven (former Mobil) Service Station T	1408 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.73326389	151.1264194

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
TURRAMURRA	Woolworths Service Station	1233 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.73317594	151.1313195
TURRELLA	Tulloch Australia Pty Limited	61 Turrella STREET	Chemical Industry	Contamination currently regulated under	-33.92857213	151.1475387
TWEED HEADS	Former Mobil Quix Service Station	60 MINJUNGBAL DRIVE	Service Station	Contamination formerly regulated under	-28.20143775	153.5445381
TWEED HEADS	Francis Street Road Reserve adjacent to	79-81 Wharf STREET	Other Petroleum	Regulation under CLM Act not required	-28.17351959	153.542262
TWEED HEADS SOUTH	Former BP Depot	142 Minjungbal DRIVE	Other Petroleum	Regulation under CLM Act not required	-28.20860702	153.5455932
TWEED HEADS SOUTH	Coles Express Service Station	Corner Minjungbal Drive and Heffron STR	Service Station	Regulation under CLM Act not required	-28.19459987	153.5419978
TWEED HEADS SOUTH	Woolworths Plus Petrol	98-102 Pacific (100 Minjungbal Drive) HIG	Service Station	Regulation under CLM Act not required	-28.20488521	153.5448675
TWEED HEADS WEST	Caltex Service Station	96 to 98 Kennedy DRIVE	Service Station	Regulation under CLM Act not required	-28.1871486	153.5229866
TYAGARAH	Tyagarah Airstrip	25 Staceys WAY	Other Petroleum	Regulation under CLM Act not required	-28.59511995	153.546834
ULAN	Ulan Coal Mine	4505 Ulan ROAD	Other Industry	Regulation under CLM Act not required	-32.25620603	149.7558075
ULLADULLA	Coles Express Ulladulla	153 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-35.36288274	150.47272
ULLADULLA	Woolworths Petrol Station	155-157 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-35.36316263	150.4725668
ULLADULLA	Caltex Service Station	62A Deering Street, corner Princes HIGHW	Service Station	Regulation under CLM Act not required	-35.36276828	150.473578
ULTIMO	Shell Coles Express Service Station	387-429 Wattle STREET	Service Station	Regulation under CLM Act not required	-33.88138825	151.1966791
UNANDERRA	Endeavour Energy Springhill Field Service	195 Five Island ROAD	Other Industry	Regulation under CLM Act not required	-34.45837706	150.8598825
UNANDERRA	BlueScope Stainless Steel	13 Marley PLACE	Metal Industry	Contamination currently regulated under	-34.44959798	150.8571632

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
UNANDERRA	Unanderra Weekend Detention Centre	34-40 Lady Penryhn DRIVE	Landfill	Regulation under CLM Act not required	-34.4620226	150.8473821
UNANDERRA	Veolia Environmental Services	9 Waynote PLACE	Other Industry	Regulation under CLM Act not required	-34.46042393	150.863232
UNANDERRA	Caltex Service Station	86-98 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-34.45414951	150.845165
UNANDERRA	Former Prime Service Station and adjoining	41-49 Princes HIGHWAY	Service Station	Contamination formerly regulated under	-34.45056105	150.8490833
URALLA	Caltex Service Station	103 Bridge STREET	Service Station	Regulation under CLM Act not required	-30.64524911	151.4934484
URALLA	Phoenix Foundry	44 Duke STREET	Metal Industry	Regulation under CLM Act not required	-30.65093272	151.5004479
URANQUINTY	Former Caltex Depot Kapooka (Wagga Wagga)	6876 Olympic (Uranquinty Rd) HIGHWAY	Service Station	Regulation under CLM Act not required	-35.15319793	147.3085469
URUNGA	Former Antimony Process plant	Hillside DRIVE	Chemical Industry	Contamination currently regulated under	-30.50422942	153.0132011
VALENTINE	BP Express Service Station	855 Macquarie DRIVE	Service Station	Regulation under CLM Act not required	-33.00801109	151.6425806
VALENTINE	Valentine Public School	Tallawalla ROAD	Unclassified	Regulation under CLM Act not required	-33.0091613	151.6423231
VALLA	BP Nambucca Heads (Travel Centre and Tourist	2 Corkwood ROAD	Other Industry	Regulation under CLM Act not required	-30.628108	152.972594
VILLAWOOD	Nepotian (Former Toll) Site	110A Christina ROAD	Other Industry	Under preliminary investigation order	-33.87919117	150.9812193
VILLAWOOD	Former Defence Site	29 Biloela STREET	Landfill	Regulation under CLM Act not required	-33.88782978	150.9886275
VILLAWOOD	Former Siemens/Westinghouse	49 Miowera ROAD	Other Industry	Contamination formerly regulated under	-33.87641909	150.9836746
VILLAWOOD	Former Orica Crop Care	2 Christina ROAD	Chemical Industry	Contamination currently regulated under	-33.880329	150.9896329
VILLAWOOD	PPG Industries	9 Birmingham AVENUE	Chemical Industry	Regulation under CLM Act not required	-33.87800757	150.9887929

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
VILLAWOOD	Former Electrical Component Manufactur	66 Christina ROAD	Other Industry	Ongoing maintenance required to manag	-33.88018315	150.9838773
VILLAWOOD	Ettason Villawood Site	2A Birmingham AVENUE	Chemical Industry	Under preliminary investigation order	-33.87877335	150.9827722
VINEYARD	Shell Coles Express Service Station	731 Windsor ROAD	Service Station	Regulation under CLM Act not required	-33.65780463	150.8753245
WAGGA WAGGA	Caltex Service Station	170 Fitzmaurice STREET	Service Station	Regulation under CLM Act not required	-35.10289587	147.3679002
WAGGA WAGGA	Former BP Service Station	31 Bourke STREET	Service Station	Regulation under CLM Act not required	-35.12626628	147.3547199
WAGGA WAGGA	Caltex (former Mobil) Service Station	106 Edward STREET	Service Station	Regulation under CLM Act not required	-35.11910909	147.3682364
WAGGA WAGGA	Former Caltex Depot	60 Lake Albert DRIVE	Service Station	Regulation under CLM Act not required	-35.12316794	147.37724
WAGGA WAGGA	Former Mobil Depot Wagga Wagga	97-99 Coleman STREET	Other Petroleum	Regulation under CLM Act not 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
WAGGA WAGGA	Former Caltex Service Station	343 Hammond AVENUE	Service Station	Regulation under CLM Act not required	-35.12420793	147.4157959
WAGGA WAGGA	Caltex Service Station	56 - 60 Docker St STREET	Service Station	Regulation under CLM Act not required	-35.11737947	147.3558145
WAGGA WAGGA	Former Iron Foundry	212-230 Hammond STREET	Metal Industry	Regulation under CLM Act not required	-35.12605478	147.4045461
WAGGA WAGGA	Coles Express Wagga Wagga	353-355 Edward STREET	Service Station	Regulation under CLM Act not required	-35.11606625	147.3509339
WAGGA WAGGA	Former Wiradjuri landfill	Narrung STREET	Landfill	Under assessment	-35.09628532	147.3619535
WAGGA WAGGA	Former Gasworks	54 Chaston STREET	Gasworks	Ongoing maintenance required to manag	-35.12262069	147.3482778
WAGGA WAGGA	Former Gasworks	Cnr Tarcutta Street and Cross STREET	Gasworks	Ongoing maintenance required to manag	-35.10871183	147.3737933

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
WAGGA WAGGA	BP Wagga Wagga	180 Edward STREET	Service Station	Regulation under CLM Act not required	-35.11850802	147.3639619
WAGGA WAGGA	Former Dry Cleaning Facility	183 Fitzmaurice STREET	Other Industry	Contamination currently regulated under	-35.10209987	147.3683852
WAHROONGA	Coles Express Wahroonga	1601 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.71945571	151.1163002
WAHROONGA	7-Eleven Service Station	1579 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.71974617	151.1168106
WAITARA	Caltex Service Station	59-61 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.71064349	151.1024644
WALGETT	Former Shell Depot	Castlereagh HIGHWAY	Other Petroleum	Regulation under CLM Act not 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	Lidsdale Coal Loading Facility	Main STREET	Other Industry	Regulation under CLM Act not required	-33.39996523	150.0737717
WALLSEND	Caltex Maryland Service Station Wallsend	41 Minmi ROAD	Service Station	Regulation under CLM Act not required	-32.88967866	151.6619253
WALLSEND	Coles Express Wallsend East	15 Thomas STREET	Service Station	Regulation under CLM Act not required	-32.90719444	151.6693426
WALLSEND	OneSteel Recycling	64-80 Sandgate ROAD	Metal Industry	Regulation under CLM Act not required	-32.89425477	151.6799648
WALLSEND	Ausgrid Wallsend Depot	Abbott STREET	Other Industry	Regulation under CLM Act not required	-32.90162796	151.6857267
WALLSEND	Cnr of Douglas Street and 111 Newcastle	111 Newcastle ROAD	Metal Industry	Regulation under CLM Act not required	-32.90416617	151.6832227
WAMBERAL	Caltex Service Station	654 The Entrance ROAD	Service Station	Regulation under CLM Act not required	-33.42338668	151.4375685
WANGI WANGI	Myuna Colliery	Wangi Point ROAD	Other Industry	Regulation under CLM Act not required	-33.06139532	151.5697186
WARATAH	Waratah Area Health	Turton ROAD	Unclassified	Regulation under CLM Act not required	-32.90961233	151.7260867

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
WARATAH	Waratah former Gasworks	Turton and Georgetown ROADS	Gasworks	Regulation being finalised	-32.90591166	151.7272715
WARDELL	Nancy's Cattle Dip, Thurgates Lane, Ward	Thurgates LANE	Cattle Dip	Regulation under CLM Act not required	-28.9540212	153.4274874
WARILLA	Woolworths Petrol Warilla	43 -57 Shellharbour ROAD	Service Station	Regulation under CLM Act not required	-34.5470966	150.863748
WARKWORTH	Emulsion Plant, Dyno Nobel Asia Pacific P	186 Long Point ROAD	Chemical Industry	Regulation under CLM Act not required	-32.5781708	151.0834387
WARKWORTH	United Colliery	Jerrys Plains ROAD	Other Industry	Regulation under CLM Act not 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 BAY	7-Eleven (former Mobil) Service Station	393 Hillsborough ROAD	Service Station	Regulation under CLM Act not required	-32.9659363	151.6543264
WARNERS BAY	Historically Filled Land	41-43 Charles STREET	Unclassified	Regulation under CLM Act not required	-32.97340461	151.6464383
WARNERVALE	Former Timber Treatment Plant	Aldenham and Railway ROADS	Other Industry	Contamination formerly regulated under	-33.24732018	151.4469037
WARRAGAMBA	Warragamba Dam Viewing Platform	Eighteenth STREET	Unclassified	Regulation under CLM Act not required	-33.88545624	150.6016219
WARRAGAMBA	Megarrity's Creek Site	Weir ROAD	Unclassified	Regulation under CLM Act not required	-33.8873146	150.5967305
WARRAWONG	Caltex Service Station	75-77 King STREET	Service Station	Regulation under CLM Act not required	-34.49037817	150.888802
WARREN	Former Shell Depot	8 Dubbo STREET	Other Petroleum	Regulation under CLM Act not required	-31.69379262	147.8308088
WARREN	Caltex Warren Service Station	1 Coonamble ROAD	Service Station	Regulation under CLM Act not required	-31.69508383	147.8405578
WARREN	Former Mobil Warren Depot	16 Dubbo STREET	Other Petroleum	Contamination currently regulated under	-31.6943058	147.8314606
WARWICK FARM	Warwick Farm Public School	95 Lawrence Hargrave ROAD	Unclassified	Regulation under CLM Act not required	-33.90978695	150.9291852

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
WATERLOO	Proposed Construction Site	2 John STREET	Other Industry	Regulation under CLM Act not required	-33.89989686	151.2010324
WATERLOO	Waverley Woollahra Process Plant	355 Botany ROAD	Other Industry	Regulation under CLM Act not required	-33.9063092	151.2042672
WATERLOO	Shell Coles Express Service Station	867-877 South Dowling STREET	Service Station	Regulation under CLM Act not required	-33.90179774	151.2143789
WATERLOO	Lawrence Dry Cleaners	887-893 Bourke STREET	Unclassified	Contamination currently regulated under	-33.89897433	151.2101436
WATERLOO	Divercity Waterloo Blocks C & D and adjacent	1, 9, 13, 13A, 13B and 23 Archibald Avenue	Other Industry	Regulation under CLM Act not required	-33.90200158	151.2098496
WATERLOO	Iconic (Former Chubb Factory) Waterloo	830-838 Elizabeth STREET	Other Industry	Regulation under CLM Act not required	-33.90227718	151.2060305
WATERLOO	22-24 Archibald Avenue	22-24 Archibald AVENUE	Other Petroleum	Regulation under CLM Act not required	-33.90206938	151.2139293
WAUCHOPE	Expressway Spares UST	3 Sancrox ROAD	Other Petroleum	Regulation under CLM Act not required	-31.44163879	152.8231104
WAUCHOPE	Former Shell Depot	56-64 High STREET	Other Petroleum	Regulation under CLM Act not required	-31.45804845	152.7314151
WAUCHOPE	Wauchope Service Station	57 High STREET	Service Station	Regulation under CLM Act not required	-31.45737022	152.7305018
WAUCHOPE	Former Timber Treatment Site	Blackbutt DRIVE	Other Industry	Regulation under CLM Act not required	-31.46575645	152.7228555
WAUCHOPE	Shell Coles Express Service Station	64 High STREET	Service Station	Regulation under CLM Act not required	-31.45764495	152.7315975
WAUCHOPE	Wauchope Public Primary School	2 Waugh STREET	Unclassified	Regulation under CLM Act not required	-31.45602953	152.7295059
WAVERTON	SRA Land	95 Bay ROAD	Unclassified	Contamination formerly regulated under	-33.83716728	151.1969497
WAVERTON	Berry's Bay Woodley's Marina	1 Balls Head DRIVE	Other Industry	Contamination formerly regulated under	-33.84441851	151.1947433
WAVERTON	Oyster Cove AGL	2 King STREET	Gasworks	Ongoing maintenance required to manage	-33.83637995	151.193541

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
WEE JASPER	Wee Jasper Tavern	6499 Wee Jasper ROAD	Other Industry	Regulation under CLM Act not required	-35.10992483	148.679428
WELLINGTON	Former Caltex Service Station	124-128 Lee STREET	Service Station	Regulation under CLM Act not 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	Regulation under CLM Act not required	-32.54874227	148.9408531
WENTWORTH	Caltex - Wentworth	110 Adams STREET	Service Station	Regulation under CLM Act not required	-34.1024927	141.9160539
WENTWORTH FALLS	Bodington Hospital	Bodington DRIVE	Unclassified	Contamination formerly regulated under	-33.73204611	150.3874554
WENTWORTH POINT	RMS Eastern Precinct	3-7 Burroway ROAD	Other Petroleum	Regulation under CLM Act not required	-33.8233882	151.0815668
WENTWORTH POINT	Former TNT Express	23 Bennelong PARKWAY	Other Petroleum	Regulation under CLM Act not required	-33.83115118	151.0726636
WENTWORTHVILLE	Former Workshop	2 Rawson Rd and 8 Barfil CRESCENT	Unclassified	Regulation under CLM Act not required	-33.81568808	150.9671853
WERRINGTON	Caltex Service Station	Cnr Dunheved Rd and Henry Lawson DRIV	Service Station	Regulation under CLM Act not required	-33.74577725	150.7409877
WERRINGTON	Claremont Meadows Former landfill	Gipps STREET	Landfill	Regulation under CLM Act not 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
WEST BALLINA	Caltex Big Prawn Service Station	Pacific HIGHWAY	Service Station	Contamination formerly regulated under	-28.86374913	153.5321482
WEST GOSFORD	Caltex Service Station	283 Manns ROAD	Service Station	Regulation under CLM Act not required	-33.41659727	151.325219
WEST GOSFORD	Caltex Service Station	69-71 Pacific HIGHWAY	Service Station	Regulation under CLM Act not 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

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
WEST GOSFORD	Adcock Memorial Park	Central Coast HIGHWAY	Landfill	Contamination currently regulated under	-33.42963075	151.3273331
WEST NOWRA	Endeavour Energy Nowra Field Service Ce	20 Depot ROAD	Other Industry	Regulation under CLM Act not required	-34.88993085	150.5878854
WEST PENNANT HILLS	7-Eleven (former Mobil) Service Station	552 Pennant Hills ROAD	Service Station	Regulation under CLM Act not 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 RYDE	Pfizer Australia Pty Ltd	38-42 Wharf ROAD	Chemical Industry	Regulation under CLM Act not required	-33.81021085	151.0693631
WEST RYDE	Reckitt Benckiser	44 Wharf ROAD	Chemical Industry	Regulation under CLM Act not required	-33.81172205	151.0692752
WEST RYDE	JHM Property Development	2A Mellor STREET	Other Industry	Regulation under CLM Act not required	-33.81207534	151.094598
WEST TAMWORTH	Woolworths Petrol	119 Bridge STREET	Service Station	Regulation under CLM Act not required	-31.09358262	150.9167693
WEST WYALONG	Lowes Petroleum (Former BP) Depot Wes	Compton (formerly known as Town Bypas	Other Petroleum	Regulation under CLM Act not required	-33.93440247	147.2154596
WEST WYALONG	Caltex Depot	(Wyalong By-pass Rd) Lot 1-3 Showground	Service Station	Regulation under CLM Act not required	-33.92580863	147.1978504
WEST WYALONG	Former Mobil Depot	104 Compton ROAD	Other Petroleum	Regulation under CLM Act not required	-33.93449194	147.2147948
WESTON	Illegal Dumping Site	Corner Kline Street & First STREET	Unclassified	Regulation under CLM Act not required	-32.81367986	151.4551507
WETHERILL PARK	Former Fuel Storage Depot	200-212 Cowpasture ROAD	Other Petroleum	Regulation under CLM Act not required	-33.84568871	150.8764012
WETHERILL PARK	Sims Wetherill Park	35-37 Frank STREET	Metal Industry	Regulation under CLM Act not required	-33.84056122	150.9086265
WETHERILL PARK	Shell Coles Express Service Station	565 Polding STREET	Service Station	Regulation under CLM Act not required	-33.8569731	150.8992804
WETHERILL PARK	Cleanaway (Formerly Nationwide Oil) We	6 Davis ROAD	Other Industry	Regulation under CLM Act not required	-33.83770038	150.9045197

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
WETHERILL PARK	BOC Sydney Operations Centre	428-440 Victoria STREET	Chemical Industry	Regulation being finalised	-33.84375988	150.8960027
WETHERILL PARK	Camide Former Landfill	Newton ROAD	Landfill	Regulation under CLM Act not required	-33.83898879	150.8963813
WETHERILL PARK	Fairfield Sustainable Resource Centre	Corner Hassall Street and Widemere ROAD	Other Industry	Under assessment	-33.839073	150.912626
WICKHAM	Caltex Terminal and "Building 33" on off	156 Hannell Street and 33 Annie STREET	Other Petroleum	Contamination currently regulated under	-32.9153413	151.7560062
WICKHAM	Former Warehouse	10 Dangar STREET	Unclassified	Regulation under CLM Act not required	-32.92383206	151.759761
WICKHAM	Former Factory	57 Annie STREET	Other Industry	Regulation under CLM Act not required	-32.91524827	151.7539893
WICKHAM	Railcorp Wickham	50 Railway STREET	Other Industry	Regulation under CLM Act not required	-32.9210433	151.7544687
WICKHAM	Fuchs Lubricants Wickham	2 Holland STREET	Other Industry	Contamination currently regulated under	-32.9214709	151.7556928
WILBERFORCE	Former Drum Reconditioners	12-14 Box AVENUE	Other Industry	Contamination formerly regulated under	-33.5453884	150.8587934
WILBERFORCE	Former Solvent Recycling Site	13 Box AVENUE	Chemical Industry	Regulation under CLM Act not required	-33.54557427	150.8577006
WILEY PARK	Sydney Water Property	1B Hillcrest STREET	Other Industry	Regulation under CLM Act not required	-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
WILLOUGHBY	Shell Coles Express Service Station	616-626 Willoughby ROAD	Service Station	Regulation under CLM Act not required	-33.80593769	151.1988559
WILLOUGHBY	Caltex Service Station	157 Penhur STREET	Service Station	Regulation under CLM Act not required	-33.79793513	151.1981926
WILLOUGHBY	BP Willoughby Express Tower	498 Willoughby STREET	Service Station	Contamination currently regulated under	-33.81022918	151.199315
WILLOUGHBY	Bicentennial Reserve, Flat Rock Gully, Wil	Small STREET	Other Industry	Under assessment	-33.810926	151.203934

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
WILLOUGHBY EAST	Willoughby Bus Depot	Corner Ann Street and Stan STREET	Other Industry	Regulation under CLM Act not required	-33.7982569	151.2038993
WILTON	Condell Park Homestead	(Part Lot 17 DP 270536) Condell Park ROAD	Unclassified	Regulation under CLM Act not required	-34.21910141	150.6837962
WINDANG	Caltex Service Station	244-248 Windang ROAD	Service Station	Regulation under CLM Act not required	-34.5274434	150.8691161
WINDSOR	Former Caltex Service Station	46-52 Macquarie STREET	Service Station	Regulation under CLM Act not required	-33.60783315	150.8213428
WINDSOR	Former Caltex Windsor Depot and Service Station	48-50 Mileham STREET	Service Station	Regulation under CLM Act not required	-33.61538627	150.8157517
WINDSOR	Woolworths (former Caltex) Service Station	Cnr Macquarie Street & Baker STREET	Service Station	Regulation under CLM Act not required	-33.60569346	150.8232803
WINDSOR	Former Fire Station Windsor	19 Fitzgerald STREET	Other Industry	Under assessment	-33.6064873	150.8199089
WINGHAM	Former Caltex Service Station	1036-1038 Wingham ROAD	Service Station	Regulation under CLM Act not required	-31.86236594	152.3805752
WINGHAM	Bogas Service Station	Cnr Primrose Street and Isabella STREET	Service Station	Regulation under CLM Act not required	-31.86833656	152.3716346
WINMALEE	Prime Winmalee Service Station	281 Hawkesbury ROAD	Service Station	Regulation under CLM Act not required	-33.68223276	150.5997203
WIRLINGA	Former Liquid Waste Disposal Facility	704 Riverina ROAD	Unclassified	Regulation under CLM Act not required	-36.07103958	147.0193522
WOLLI CREEK	Former Ausgrid Substation 10061	13 Gertrude STREET	Other Industry	Regulation under CLM Act not required	-33.93364031	151.1543818
WOLLONGONG	Redevelopment site	33 - 39 Beatson STREET	Other Petroleum	Regulation under CLM Act not required	-34.43196083	150.8976661
WOLLONGONG	Caltex Service Station	9 Flinders STREET	Service Station	Regulation under CLM Act not required	-34.41505616	150.8932515
WOLLONGONG	Greenhouse Park	Springhill ROAD	Landfill	Contamination currently regulated under	-34.44119949	150.8931764
WOLLONGONG	Former Wollongong Gasworks	120 and 122 Smith STREET	Gasworks	Regulation under CLM Act not required	-34.42030173	150.8906745

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
WOLLONGONG	Woolworths Service Station	425 Crown STREET	Service Station	Contamination currently regulated under	-34.42637378	150.8799288
WOLLONGONG	Wollongong Harbour Central Spur	Off Endeavour DRIVE	Other Petroleum	Regulation under CLM Act not required	-34.42066879	150.906821
WOODBURN	Caltex Service Station	129 River STREET	Service Station	Regulation under CLM Act not required	-29.07206887	153.3409769
WOODBURN	Crown Reserve 88037 Woodburn	Pacific HIGHWAY	Landfill	Regulation under CLM Act not required	-29.06580577	153.3541886
WOOLGOOLGA	Caltex Woolgoolga Service Station	16 Bosworth ROAD	Service Station	Regulation under CLM Act not required	-30.12569561	153.1946006
WOOLGOOLGA	United Petroleum Service Station(1868 S	56 Clarence STREET	Service Station	Contamination currently regulated under	-30.11045544	153.1904609
WOOLLAHRA	Former Service Station	20 Wallis STREET	Service Station	Regulation under CLM Act not required	-33.8901965	151.2372752
WOOLLAHRA	Proposed Jewish Care Centre	7-21 Saber STREET	Unclassified	Regulation under CLM Act not required	-33.8904055	151.2480062
WOOLLAHRA	Caltex Woollahra Service Station	116 Old South Head ROAD	Service Station	Contamination formerly regulated under	-33.88959697	151.2553736
WOOLLOOMOOLOO	Former BP Service Station	2 Dowley STREET	Service Station	Contamination being managed via the pla	-33.86940191	151.2218741
WOLOMIN	Woolomin Gold Rush Store	65 Nundle ROAD	Other Petroleum	Contamination formerly regulated under	-31.30415134	151.149729
WOOLOOWARE	Caltex Service Station	100 Woollooware ROAD	Service Station	Regulation under CLM Act not required	-34.05274635	151.1408413
WOOLOOWARE	Oyster Farm	Captain Cook DRIVE	Other Industry	Regulation under CLM Act not required	-34.03807914	151.1476055
WOONGARRAH	Former Warnervale Landfill	236-264 Hakone ROAD	Landfill	Regulation under CLM Act not 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
WOY WOY	Mobil Former Woy Woy Service Station a	177-181 Blackwall ROAD	Service Station	Contamination formerly regulated under	-33.49254403	151.3270829

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
WOY WOY	Barry Robertson Holden	231 Blackwall ROAD	Service Station	Regulation under CLM Act not required	-33.49621068	151.3285128
WOY WOY	Bogas Service Station	66 Memorial AVENUE	Service Station	Contamination currently regulated under	-33.5069738	151.3315579
WOY WOY	Rogers Park	Dunban ROAD	Landfill	Regulation under CLM Act not required	-33.50009693	151.3181347
WOY WOY	Austin Butler Memorial Oval	Blackwall ROAD	Landfill	Regulation under CLM Act not required	-33.48672201	151.3283032
WOY WOY	James Browne Oval	Welcome STREET	Landfill	Regulation under CLM Act not required	-33.49720596	151.3242986
WYALONG	Caltex Service Station	50 Neeld (Newell Highway) STREET	Service Station	Regulation under CLM Act not required	-33.92665025	147.2446546
WYOMING	Caltex Service Station Wyoming	465 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.40945391	151.3499812
WYONG	Wyong Bayer/Kemcon	16 Lucca ROAD	Chemical Industry	Contamination formerly regulated under	-33.26192339	151.4429446
WYONG	Caltex Service Station	M1 Pacific (Northbound) MOTORWAY	Service Station	Regulation under CLM Act not required	-33.25641477	151.4024821
WYONG	Caltex Service Station	M1 Pacific (Southbound) MOTORWAY	Service Station	Regulation under CLM Act not required	-33.25330747	151.4053862
WYONG	IXOM Facility	8 Pavitt CRESCENT	Other Industry	Regulation under CLM Act not required	-33.26379108	151.4485113
YAGOONA	Galserv Galvanising Services	117-153 Rookwood ROAD	Metal Industry	Contamination currently regulated under	-33.89493085	151.0388013
YAGOONA	BP Service Station Potts Hill (Yagoona)	155 Rookwood ROAD	Service Station	Regulation under CLM Act not required	-33.89330525	151.0390969
YAGOONA	7-Eleven (former Mobil) Service Station	519 Hume HIGHWAY	Service Station	Regulation under CLM Act not required	-33.90760623	151.0207783
YAGOONA	Shell Coles Express Service Station	112 Rookwood ROAD	Service Station	Regulation under CLM Act not required	-33.89856213	151.0370458
YAGOONA	Sydney Water Corporation Potts Hill Com	91 Brunner ROAD	Other Industry	Regulation under CLM Act not required	-33.89887589	151.0289165

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
YALLAH	Tallawarra Power Station site	Princes HIGHWAY	Unclassified	Ongoing maintenance required to manag	-34.52412143	150.8062159
YAMBA	Caltex Service Station	22 Treelands DRIVE	Service Station	Regulation under CLM Act not required	-29.42701701	153.3279204
YANCO	Former Service Station	14 Main AVENUE	Service Station	Contamination formerly regulated under	-34.60356494	146.4105016
YASS	Caltex Service Station	228 Comur STREET	Service Station	Regulation under CLM Act not required	-34.84440036	148.9140179
YASS	Caltex Service Station	1715 Yass Valley WAY	Service Station	Regulation under CLM Act not required	-34.80708856	148.8824228
YASS	Former Mobil Depot Yass and adjacent la	54-58 Laidlaw STREET	Service Station	Ongoing maintenance required to manag	-34.83252976	148.9068888
YASS	Former Gasworks	Dutton STREET	Gasworks	Contamination currently regulated under	-34.83982614	148.9060029
YASS	Transgrid Depot Yass	Perry STREET	Unclassified	Under assessment	-34.86238341	148.9052809
YENNORA	Former Alcoa Australia Rolled Products Fa	1 Kiora CRESCENT	Metal Industry	Regulation under CLM Act not required	-33.86568158	150.9649297
YENNORA	Spicer Axle Australia Manufacturing Facili	205-231 Fairfield ROAD	Other Industry	Regulation under CLM Act not required	-33.85655114	150.9579167
YENNORA	Former Caltex Service Station	137-141 Fairfield STREET	Service Station	Regulation under CLM Act not required	-33.86824768	150.9706137
YENNORA	Former Metal Plant	44 Larra STREET	Metal Industry	Contamination formerly regulated under	-33.86340576	150.9764349
YENNORA	TetraPak Site	6 Foray STREET	Other Industry	Contamination formerly regulated under	-33.8557183	150.9561605
YENNORA	19 Pine Road, Yennora	Pine ROAD	Metal Industry	Contamination currently regulated under	-33.86713232	150.9621172
YETHOLME	Yetholme CCA Timber Treatment Plant	351 Eusdale ROAD	Other Industry	Contamination formerly regulated under	-33.45386256	149.8537787
YOUNG	Former Mobil Depot and Service Station	149 Lovell STREET	Service Station	Regulation under CLM Act not required	-34.31024587	148.290424

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
YOUNG	Former Shell Depot	166 Nasmyth STREET	Other Petroleum	Regulation under CLM Act not required	-34.31025192	148.2931008
YOUNG	Former battery recycler	45 Nasmyth STREET	Metal Industry	Contamination currently regulated under	-34.31201571	148.306772
YOUNG	Adjacent to former battery recycler	47 Nasmyth STREET	Metal Industry	Contamination formerly regulated under	-34.31176273	148.3064765
YOUNG	Mobil Depot	186 Nasmyth STREET	Other Petroleum	Contamination currently regulated under	-34.30954389	148.2908476
YOUNG	Former Caltex Depot	95 Lovell STREET	Service Station	Regulation under CLM Act not required	-34.31127119	148.2955092
ZETLAND	Energy Australia/ Ausgrid Zetland Depot	122 - 138 Joynton AVENUE	Other Industry	Regulation under CLM Act not required	-33.90883116	151.2101184
ZETLAND	Former Goodrich Control Systems, Zetland	84 - 92 Epsom ROAD	Other Industry	Regulation under CLM Act not required	-33.91025707	151.2078048

APPENDIX F

GROUNDWATER BORE INFORMATION

State Overview

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- ☐ Far West Region
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- ☐ Coal Basins
- ☐ Entire State

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GREATER SYDNEY REGION

All data times are Eastern Standard Time

Map

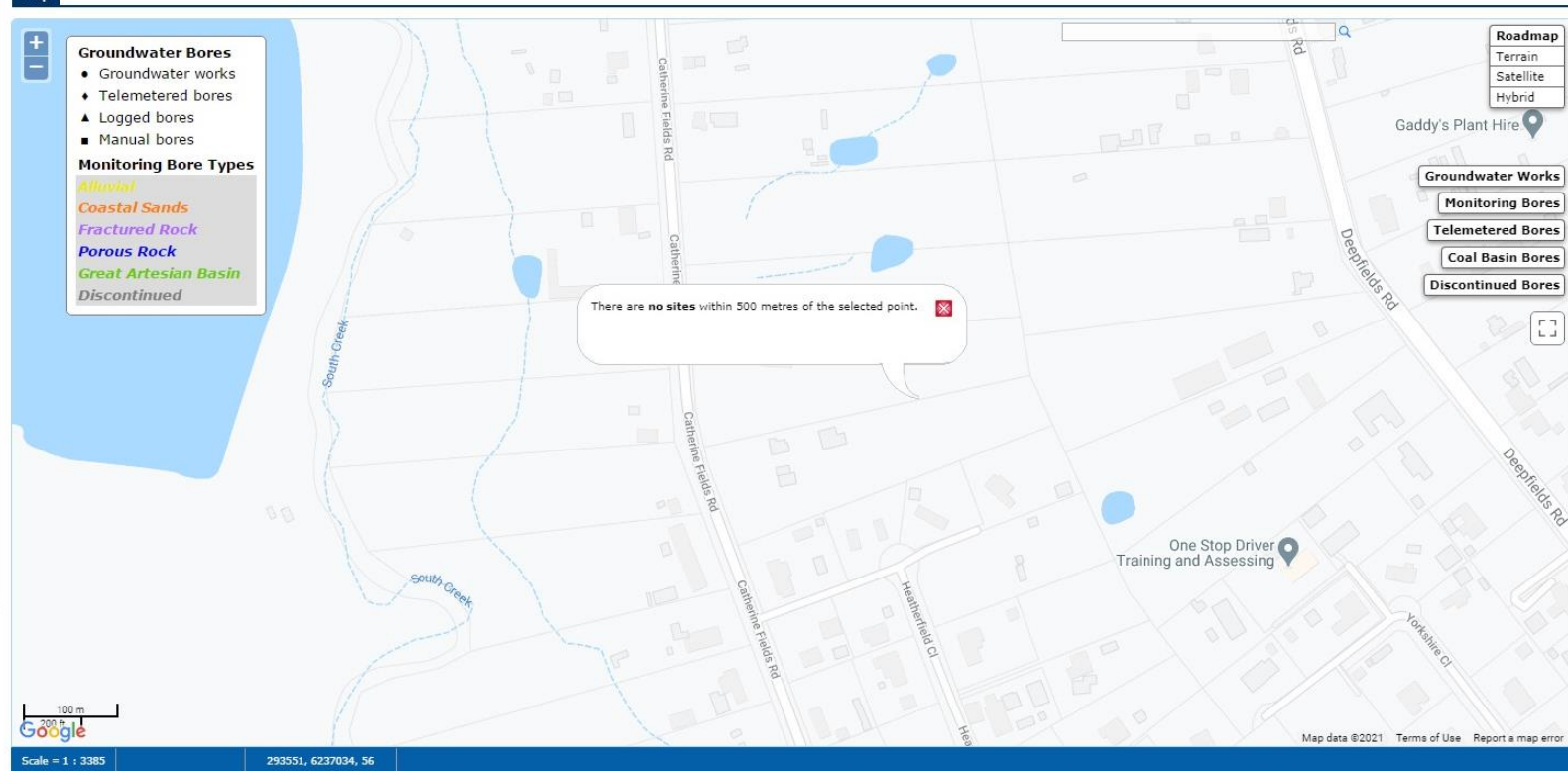


Groundwater Bores

- Groundwater works
- Telemetered bores
- ▲ Logged bores
- Manual bores

Monitoring Bore Types

- Alluvial
- Coastal Sands
- Fractured Rock
- Porous Rock
- Great Artesian Basin
- Discontinued



Roadmap

- Terrain
- Satellite
- Hybrid

Gaddy's Plant Hire

Groundwater Works

[Monitoring Bores](#)

[Telemetered Bores](#)

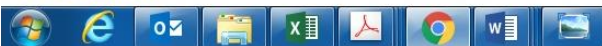
[Coal Basin Bores](#)

[Discontinued Bores](#)

One Stop Driver
Training and Assessing

Map data ©2021 Terms of Use Report a map error

[contact WaterNSW](#)



APPENDIX G

TABLE 1 - TEST PIT LOGS

Project:	Proposed School	Job No:	14892/2
Location:	268-278 Catherine Fields	Drawing No:	14892/1-AA1
	268-278 Catherine Fields Road	Logged & Sampled by:	SS

Page 1 of 5

Table 1

Test Pit	Depth (m)	Sample Depth (m)	Date	Material Description	Remarks
TP1	0.0-0.2	0.0-0.15	19/04/2021	TOPSOIL: Silty Clay, low to medium plasticity, brown, trace of root fibres	
TP2	0.0-0.2	0.0-0.15	19/04/2021	TOPSOIL: Silty Clay, low to medium plasticity, brown, trace of root fibres	
TP2	0.2-0.5	-	19/04/2021	(CH) Silty CLAY, high plasticity, red	
TP3	0.0-0.2	0.0-0.15	19/04/2021	TOPSOIL: Silty Clay, low to medium plasticity, brown, trace of root fibres	
TP3	0.2-0.5	-	19/04/2021	(CH) Silty CLAY, high plasticity, red	
TP4	0.0-0.2	0.0-0.15	19/04/2021	TOPSOIL: Silty Clay, low to medium plasticity, brown, trace of root fibres	
TP4	0.2-0.5	-	19/04/2021	(CH) Silty CLAY, high plasticity, red	
TP5	0.0-0.2	0.0-0.15	19/04/2021	TOPSOIL: Silty Clay, low to medium plasticity, brown, trace of root fibres	
TP5	0.2-0.5	0.25-0.35	19/04/2021	(CH) Silty CLAY, high plasticity, red	
TP6	0.0-0.2	0.0-0.15	19/04/2021	TOPSOIL: Silty Clay, low to medium plasticity, brown, trace of root fibres	
TP6	0.2-0.5	-	19/04/2021	(CH) Silty CLAY, high plasticity, red	
TP7	0.0-0.2	0.0-0.15	19/04/2021	TOPSOIL: Silty Clay, low to medium plasticity, brown, trace of root fibres	
TP7	0.2-0.5	-	19/04/2021	(CH) Silty CLAY, high plasticity, red	
TP8	0.0-0.2	0.0-0.15	19/04/2021	TOPSOIL: Silty Clay, low to medium plasticity, brown, trace of root fibres	
TP8	0.2-0.5	-	19/04/2021	(CH) Silty CLAY, high plasticity, red	
TP9	0.0-0.2	0.0-0.15	19/04/2021	TOPSOIL: Silty Clay, low to medium plasticity, brown, trace of root fibres	
TP9	0.2-0.5	-	19/04/2021	(CH) Silty CLAY, high plasticity, red	
TP10	0.0-0.2	0.0-0.15	19/04/2021	TOPSOIL: Silty Clay, low to medium plasticity, brown, trace of root fibres	
TP10	0.2-0.5	-	19/04/2021	(CH) Silty CLAY, high plasticity, red	
TP11	0.0-0.2	0.0-0.15	19/04/2021	TOPSOIL: Silty Clay, low to medium plasticity, brown, trace of root fibres	
TP11	0.2-0.5	-	19/04/2021	(CH) Silty CLAY, high plasticity, red	
TP12	0.0-0.2	0.0-0.15	19/04/2021	TOPSOIL: Silty Clay, low to medium plasticity, brown, trace of root fibres	
TP12	0.2-0.5	-	19/04/2021	(CH) Silty CLAY, high plasticity, red	
TP13	0.0-0.2	0.0-0.15	19/04/2021	TOPSOIL: Silty Clay, low to medium plasticity, brown, trace of root fibres	
TP13	0.2-0.5	0.25-0.35	19/04/2021	(CH) Silty CLAY, high plasticity, red	
TP14	0.0-0.2	0.0-0.15	19/04/2021	TOPSOIL: Silty Clay, low to medium plasticity, brown, trace of root fibres	
TP14	0.2-0.5	-	19/04/2021	(CH) Silty CLAY, high plasticity, red	
TP15	0.0-0.2	0.0-0.15	19/04/2021	TOPSOIL: Silty Clay, low to medium plasticity, brown, trace of root fibres	

Project:	Proposed School	Job No:	14892/2
Location:	268-278 Catherine Fields	Drawing No:	14892/1-AA1
	268-278 Catherine Fields Road	Logged & Sampled by:	SS

Table 1

Test Pit	Depth (m)	Sample Depth (m)	Date	Material Description	Remarks
TP15	0.2-0.5	-	19/04/2021	(CH) Silty CLAY, high plasticity, red	
TP16	0.0-0.2	0.0-0.15	19/04/2021	TOPSOIL: Silty Clay, low to medium plasticity, brown, trace of root fibres	
TP16	0.2-0.5	-	19/04/2021	(CH) Silty CLAY, high plasticity, red	
TP17	0.0-0.2	0.0-0.15	19/04/2021	TOPSOIL: Silty Clay, low to medium plasticity, brown, trace of root fibres	
TP17	0.2-0.5	-	19/04/2021	(CH) Silty CLAY, high plasticity, red	
TP18	0.0-0.2	0.0-0.15	19/04/2021	TOPSOIL: Silty Clay, low to medium plasticity, brown, trace of root fibres	
TP18	0.2-0.5	-	19/04/2021	(CH) Silty CLAY, high plasticity, red	
TP19	0.0-0.2	0.0-0.15	19/04/2021	TOPSOIL: Silty Clay, low to medium plasticity, brown, trace of root fibres	
TP19	0.2-0.5	-	19/04/2021	(CH) Silty CLAY, high plasticity, red	
TP20	0.0-0.2	0.0-0.15	19/04/2021	TOPSOIL: Silty Clay, low to medium plasticity, brown, trace of root fibres	
TP20	0.2-0.5	-	19/04/2021	(CH) Silty CLAY, high plasticity, red	
TP21	0.0-0.2	0.0-0.15	19/04/2021	TOPSOIL: Silty Clay, low to medium plasticity, brown, trace of root fibres	
TP21	0.2-0.5	0.25-0.35	19/04/2021	(CH) Silty CLAY, high plasticity, red	
TP22	0.0-0.2	0.0-0.15	19/04/2021	TOPSOIL: Silty Clay, low to medium plasticity, brown, trace of root fibres	
TP22	0.2-0.5	-	19/04/2021	(CH) Silty CLAY, high plasticity, red	
TP23	0.0-0.2	0.0-0.15	19/04/2021	TOPSOIL: Silty Clay, low to medium plasticity, brown, trace of root fibres	
TP23	0.2-0.5	-	19/04/2021	(CH) Silty CLAY, high plasticity, red	
TP24	0.0-0.2	0.0-0.15	19/04/2021	TOPSOIL: Silty Clay, low to medium plasticity, brown, trace of root fibres	
TP24	0.2-0.5	-	19/04/2021	(CH) Silty CLAY, high plasticity, red	
TP25	0.0-0.2	0.0-0.15	19/04/2021	TOPSOIL: Silty Clay, low to medium plasticity, brown, trace of root fibres	
TP25	0.2-0.5	-	19/04/2021	(CH) Silty CLAY, high plasticity, red	
TP26	0.0-0.2	0.0-0.15	19/04/2021	TOPSOIL: Silty Clay, low to medium plasticity, brown, trace of root fibres	
TP26	0.2-0.5	-	19/04/2021	(CH) Silty CLAY, high plasticity, red	
TP27	0.0-0.2	0.0-0.15	19/04/2021	TOPSOIL: Silty Clay, low to medium plasticity, brown, trace of root fibres	
TP27	0.2-0.5	-	19/04/2021	(CH) Silty CLAY, high plasticity, red	
TP28	0.0-0.2	0.0-0.15	19/04/2021	TOPSOIL: Silty Clay, low to medium plasticity, brown, trace of root fibres	
TP28	0.2-0.5	-	19/04/2021	(CH) Silty CLAY, high plasticity, red	
TP29	0.0-0.2	0.0-0.15	19/04/2021	TOPSOIL: Silty Clay, low to medium plasticity, brown, trace of root fibres	
TP29	0.2-0.5	-	19/04/2021	(CH) Silty CLAY, high plasticity, yellow brown	

Project:	Proposed School	Job No:	14892/2
Location:	268-278 Catherine Fields	Drawing No:	14892/1-AA1
	268-278 Catherine Fields Road	Logged & Sampled by:	SS

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Table 1

Test Pit	Depth (m)	Sample Depth (m)	Date	Material Description	Remarks
TP30	0.0-0.2	0.0-0.15	19/04/2021	TOPSOIL: Silty Clay, low to medium plasticity, brown, trace of root fibres	
TP30	0.2-0.5	-	19/04/2021	(CH) Silty CLAY, high plasticity, red	
TP31	0.0-0.2	0.0-0.15	19/04/2021	TOPSOIL: Silty Clay, low to medium plasticity, brown, trace of root fibres	
TP31	0.2-0.5	0.25-0.35	19/04/2021	(CH) Silty CLAY, high plasticity, red	
TP32	0.0-0.2	0.0-0.15	19/04/2021	TOPSOIL: Silty Clay, low to medium plasticity, brown, trace of root fibres	
TP32	0.2-0.5	-	19/04/2021	(CH) Silty CLAY, high plasticity, red	
TP33	0.0-0.2	0.0-0.15	19/04/2021	TOPSOIL: Silty Clay, low to medium plasticity, brown, trace of root fibres	
TP33	0.2-0.5	-	19/04/2021	(CH) Silty CLAY, high plasticity, red	
TP34	0.0-0.2	0.0-0.15	19/04/2021	TOPSOIL: Silty Clay, low to medium plasticity, brown, trace of root fibres	
TP34	0.2-0.5	-	19/04/2021	(CH) Silty CLAY, high plasticity, red	
TP35	0.0-0.2	0.0-0.15	19/04/2021	TOPSOIL: Silty Clay, low to medium plasticity, brown, trace of root fibres	
TP35	0.2-0.5	-	19/04/2021	(CH) Silty CLAY, high plasticity, red	
TP36	0.0-1.0	0.0-0.15	19/04/2021	FILL: Silty Clay, high plasticity, grey-brown, with gravel	
TP36		0.5-0.8	19/04/2021	FILL: Silty Clay, high plasticity, grey-brown, with gravel	
TP37	0.0-1.0	0.0-0.15	20/04/2021	FILL: Silty Clay, high plasticity, grey-brown, with gravel	Fibre glass sheets, timber, tyre, frame of trolley and scrap metal observed in fill Water observed in test pit
TP37		0.5-0.8	20/04/2021	FILL: Silty Clay, high plasticity, grey-brown, with gravel	Fibre glass sheets, timber, tyre, frame of trolley and scrap metal observed in fill
TP38	0.0-0.2	0.0-0.15	20/04/2021	TOPSOIL: Silty Clay, low to medium plasticity, brown, trace of root fibres	
TP38	0.2-0.5	-	20/04/2021	(CH) Silty CLAY, high plasticity, red	
TP39	0.0-0.2	0.0-0.15	20/04/2021	TOPSOIL: Silty Clay, low to medium plasticity, brown, trace of root fibres	
TP39	0.2-0.5	-	20/04/2021	(CH) Silty CLAY, high plasticity, red	
TP40	0.0-0.2	0.0-0.15	20/04/2021	TOPSOIL: Silty Clay, low to medium plasticity, brown, trace of root fibres	
TP40	0.2-0.5	-	20/04/2021	(CH) Silty CLAY, high plasticity, red	
TP41	0.0-0.2	0.0-0.15	20/04/2021	TOPSOIL: Silty Clay, low to medium plasticity, brown, trace of root fibres	
TP41	0.2-0.5	-	20/04/2021	(CH) Silty CLAY, high plasticity, yellow brown	

Project:	Proposed School	Job No:	14892/2
Location:	268-278 Catherine Fields	Drawing No:	14892/1-AA1
	268-278 Catherine Fields Road	Logged & Sampled by:	SS

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Table 1

Test Pit	Depth (m)	Sample Depth (m)	Date	Material Description	Remarks
TP42	0.0-0.2	0.0-0.15	20/04/2021	TOPSOIL: Silty Clay, low to medium plasticity, brown, trace of root fibres	
TP42	0.2-0.5	-	20/04/2021	(CH) Silty CLAY, high plasticity, yellow brown	
TP43	0.0-0.2	0.0-0.15	20/04/2021	TOPSOIL: Silty Clay, low to medium plasticity, brown, trace of root fibres	
TP43	0.2-0.5	-	20/04/2021	(CH) Silty CLAY, high plasticity, yellow brown	
TP44	0.0-0.2	0.0-0.15	20/04/2021	TOPSOIL: Silty Clay, low to medium plasticity, brown, trace of root fibres	
TP44	0.2-0.5	-	20/04/2021	(CH) Silty CLAY, high plasticity, red	
TP45	0.0-0.2	0.0-0.15	20/04/2021	TOPSOIL: Silty Clay, low to medium plasticity, brown, trace of root fibres	
TP45	0.2-0.5	-	20/04/2021	(CH) Silty CLAY, high plasticity, red	
TP46	0.0-0.3	0.0-0.15	20/04/2021	FILL: Silty Clay, high plasticity, grey-brown, with gravel	
TP46	0.3-0.8	0.35-0.45	20/04/2021	(CH) Silty CLAY, high plasticity, red	
TP47	0.0-0.2	0.0-0.15	19/04/2021	TOPSOIL: Silty Clay, low to medium plasticity, brown, trace of root fibres	
TP47	0.2-0.5	-	19/04/2021	(CH) Silty CLAY, high plasticity, red	
TP48	0.0-0.2	0.0-0.15	19/04/2021	TOPSOIL: Silty Clay, low to medium plasticity, brown, trace of root fibres	
TP48	0.2-0.5	0.25-0.35	19/04/2021	(CH) Silty CLAY, high plasticity, red	
TP49	0.0-0.2	0.0-0.15	20/04/2021	TOPSOIL: Silty Clay, low to medium plasticity, brown, trace of root fibres	
TP49	0.2-0.5	-	20/04/2021	(CH) Silty CLAY, high plasticity, red	
TP50	0.0-0.2	0.0-0.15	20/04/2021	TOPSOIL: Silty Clay, low to medium plasticity, brown, trace of root fibres	
TP50	0.2-0.5	-	20/04/2021	(CH) Silty CLAY, high plasticity, red	
TP51	0.0-0.2	0.0-0.15	20/04/2021	TOPSOIL: Silty Clay, low to medium plasticity, brown, trace of root fibres	
TP51	0.2-0.5	-	20/04/2021	(CH) Silty CLAY, high plasticity, red	
TP52	0.0-0.2	0.0-0.15	20/04/2021	TOPSOIL: Silty Clay, low to medium plasticity, brown, trace of root fibres	
TP52	0.2-0.5	-	20/04/2021	(CH) Silty CLAY, high plasticity, red	
B1	0.0-0.2	0.0-0.15	20/04/2021	TOPSOIL: Silty Clay, low to medium plasticity, brown, trace of root fibres	
B1	0.2-0.5	-	20/04/2021	(CH) Silty CLAY, high plasticity, red	

Project:	Proposed School	Job No:	14892/2
Location:	268-278 Catherine Fields	Drawing No:	14892/1-AA1
	268-278 Catherine Fields Road	Logged & Sampled by:	SS

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Table 1

Test Pit	Depth (m)	Sample Depth (m)	Date	Material Description	Remarks
B2	0.0-0.2	0.0-0.15	20/04/2021	TOPSOIL: Silty Clay, low to medium plasticity, brown, trace of root fibres	
B2	0.2-0.5	-	20/04/2021	(CH) Silty CLAY, high plasticity, red	
B3	0.0-0.2	0.0-0.15	20/04/2021	TOPSOIL: Silty Clay, low to medium plasticity, brown, trace of root fibres	
B3	0.2-0.5	-	20/04/2021	(CH) Silty CLAY, high plasticity, red	
B4	0.0-0.2	0.0-0.15	20/04/2021	TOPSOIL: Silty Clay, low to medium plasticity, brown, trace of root fibres	
B5	0.0-0.2	0.0-0.15	20/04/2021	TOPSOIL: Silty Clay, low to medium plasticity, brown, trace of root fibres	
B6	0.0-0.2	0.0-0.15	20/04/2021	TOPSOIL: Silty Clay, low to medium plasticity, brown, trace of root fibres	
B6	0.2-0.5	-	20/04/2021	(CH) Silty CLAY, high plasticity, red	
B7	0.0-0.2	0.0-0.15	20/04/2021	FILL: Silty Clay, medium to high plasticity, brown, with gravel	
B8	0.0-0.2	0.0-0.15	20/04/2021	TOPSOIL: Silty Clay, low to medium plasticity, brown, trace of root fibres	
B9	0.0-0.2	0.0-0.15	20/04/2021	TOPSOIL: Silty Clay, low to medium plasticity, brown, trace of root fibres	
B9	0.2-0.5	-	20/04/2021	(CH) Silty CLAY, high plasticity, red	
B10	0.0-0.2	0.0-0.15	20/04/2021	(CH) Silty CLAY, high plasticity, red	
P1	0.0-0.4	0.0-0.15	20/04/2021	FILL: Silty Clay, medium to high plasticity, brown, with gravel	Large gas cylinder and scrap metal observed in fill
P1	0.4-0.9	0.45-0.55	20/04/2021	(CH) Silty CLAY, high plasticity, red	
P2	0.0-0.9	0.0-0.15	20/04/2021	FILL: Silty Clay, medium to high plasticity, brown, with gravel	Fibre glass, timber and metal observed in fill Distinct odour in fill Water observed in test pit
P2		0.5-0.8	20/04/2021	FILL: Silty Clay, medium to high plasticity, brown, with gravel	Fibre glass, timber and metal observed in fill Distinct odour in fill
P3	0.0-0.5	0.0-0.15	20/04/2021	FILL: Silty Clay, medium to high plasticity, brown, with gravel	
P3	0.5-1.0	0.55-0.65	20/04/2021	(CH) Silty CLAY, high plasticity, red	
P4	0.0-0.5	0.0-0.15	20/04/2021	FILL: Silty Clay, medium to high plasticity, brown, with gravel	
P4	0.5-1.0	0.55-0.65	20/04/2021	(CH) Silty CLAY, high plasticity, red	
P5	0.0-0.5	0.0-0.15	20/04/2021	FILL: Silty Clay, medium to high plasticity, brown, with gravel	Concrete cylinder, plastic pipes and scrap metal observed in fill
P5	0.5-1.0	0.55-0.65	20/04/2021	(CH) Silty CLAY, high plasticity, red	

APPENDIX H

LABORATORY ANALYTICAL REPORTS AND CERTIFICATE OF ANALYSIS

CLIENT DETAILS

Contact **Saurabh Sapkota**
 Client **Geotechnique**
 Address **P.O. Box 880
 NSW 2751**

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 Facsimile **02 4722 6161**
 Email **Saurabh@geotech.com.au**

Project **14892/2 Catherine Field**
 Order Number **(Not specified)**
 Samples **88**

LABORATORY DETAILS

Manager **Huong Crawford**
 Laboratory **SGS Alexandria Environmental**
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SGS Reference **SE218834 R0**
 Date Received **21/4/2021**
 Date Reported **28/4/2021**

COMMENTS

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

SIGNATORIES



Akheequear BENIAEMEEN
 Chemist



Bennet LO
 Senior Organic Chemist/Metals Chemist



Dong LIANG
 Metals/Inorganics Team Leader



Huong CRAWFORD
 Production Manager



Kamrul AHSAN
 Senior Chemist



Ly Kim HA
 Organic Section Head

VOC's in Soil [AN433] Tested: 22/4/2021

PARAMETER	UOM	LOR	TP36	TP36	TP37	TP37	TP46
			CLAY 0.0-0.15 19/4/2021 SE218834.040	CLAY 0.5-0.8 19/4/2021 SE218834.041	CLAY 0.0-0.15 20/4/2021 SE218834.042	CLAY 0.5-0.8 20/4/2021 SE218834.043	CLAY 0.0-0.15 20/4/2021 SE218834.052
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

PARAMETER	UOM	LOR	B1	B2	B3	B4	B5
			CLAY 0.0-0.15 20/4/2021 SE218834.061	CLAY 0.0-0.15 20/4/2021 SE218834.062	CLAY 0.0-0.15 20/4/2021 SE218834.063	CLAY 0.0-0.15 20/4/2021 SE218834.064	CLAY 0.0-0.15 20/4/2021 SE218834.065
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

PARAMETER	UOM	LOR	B6	B7	B8	B9	B10
			CLAY 0.0-0.15 20/4/2021 SE218834.066	CLAY 0.0-0.15 20/4/2021 SE218834.067	CLAY 0.0-0.15 20/4/2021 SE218834.068	CLAY 0.0-0.15 20/4/2021 SE218834.069	CLAY 0.0-0.15 20/4/2021 SE218834.070
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

PARAMETER	UOM	LOR	P1	P2	P2	P3	P4
			CLAY 0.0-0.15 20/4/2021 SE218834.071	CLAY 0.0-0.15 20/4/2021 SE218834.073	CLAY 0.5-0.8 20/4/2021 SE218834.074	CLAY 0.0-0.15 20/4/2021 SE218834.075	CLAY 0.0-0.15 20/4/2021 SE218834.077
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

VOC's in Soil [AN433] Tested: 22/4/2021 (continued)

PARAMETER	UOM	LOR	P5	DDS2	DDS3	DDS1	TS1
			CLAY 0.0-0.15 20/4/2021 SE218834.079	CLAY - 19/4/2021 SE218834.082	CLAY - 20/4/2021 SE218834.083	CLAY - 20/4/2021 SE218834.084	SOIL - 19/4/2021 SE218834.086
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	[97%]
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	[97%]
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	[97%]
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	[97%]
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	[97%]
Total Xylenes	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	-
Total BTEX	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	-
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	-

PARAMETER	UOM	LOR	TS2
			SOIL - 20/4/2021 SE218834.088
Benzene	mg/kg	0.1	[91%]
Toluene	mg/kg	0.1	[94%]
Ethylbenzene	mg/kg	0.1	[97%]
m/p-xylene	mg/kg	0.2	[97%]
o-xylene	mg/kg	0.1	[97%]
Total Xylenes	mg/kg	0.3	-
Total BTEX	mg/kg	0.6	-
Naphthalene	mg/kg	0.1	-

Volatile Petroleum Hydrocarbons in Soil [AN433] Tested: 22/4/2021

PARAMETER	UOM	LOR	TP36	TP36	TP37	TP37	TP46
			CLAY 0.0-0.15 19/4/2021 SE218834.040	CLAY 0.5-0.8 19/4/2021 SE218834.041	CLAY 0.0-0.15 20/4/2021 SE218834.042	CLAY 0.5-0.8 20/4/2021 SE218834.043	CLAY 0.0-0.15 20/4/2021 SE218834.052
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

PARAMETER	UOM	LOR	B1	B2	B3	B4	B5
			CLAY 0.0-0.15 20/4/2021 SE218834.061	CLAY 0.0-0.15 20/4/2021 SE218834.062	CLAY 0.0-0.15 20/4/2021 SE218834.063	CLAY 0.0-0.15 20/4/2021 SE218834.064	CLAY 0.0-0.15 20/4/2021 SE218834.065
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

PARAMETER	UOM	LOR	B6	B7	B8	B9	B10
			CLAY 0.0-0.15 20/4/2021 SE218834.066	CLAY 0.0-0.15 20/4/2021 SE218834.067	CLAY 0.0-0.15 20/4/2021 SE218834.068	CLAY 0.0-0.15 20/4/2021 SE218834.069	CLAY 0.0-0.15 20/4/2021 SE218834.070
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

PARAMETER	UOM	LOR	P1	P2	P2	P3	P4
			CLAY 0.0-0.15 20/4/2021 SE218834.071	CLAY 0.0-0.15 20/4/2021 SE218834.073	CLAY 0.5-0.8 20/4/2021 SE218834.074	CLAY 0.0-0.15 20/4/2021 SE218834.075	CLAY 0.0-0.15 20/4/2021 SE218834.077
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

PARAMETER	UOM	LOR	P5	DDS2	DDS3	DDS1
			CLAY 0.0-0.15 20/4/2021 SE218834.079	CLAY - 19/4/2021 SE218834.082	CLAY - 20/4/2021 SE218834.083	CLAY - 20/4/2021 SE218834.084
TRH C6-C9	mg/kg	20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25

TRH (Total Recoverable Hydrocarbons) in Soil [AN403] Tested: 22/4/2021

PARAMETER	UOM	LOR	TP36	TP36	TP37	TP37	TP46
			CLAY 0.0-0.15 19/4/2021 SE218834.040	CLAY 0.5-0.8 19/4/2021 SE218834.041	CLAY 0.0-0.15 20/4/2021 SE218834.042	CLAY 0.5-0.8 20/4/2021 SE218834.043	CLAY 0.0-0.15 20/4/2021 SE218834.052
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	<45	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	<45	<45	<45
TRH C37-C40	mg/kg	100	<100	<100	<100	<100	<100
TRH >C10-C16	mg/kg	25	<25	<25	<25	<25	<25
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90	<90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	<110	<110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	<210	<210

PARAMETER	UOM	LOR	B1	B2	B3	B4	B5
			CLAY 0.0-0.15 20/4/2021 SE218834.061	CLAY 0.0-0.15 20/4/2021 SE218834.062	CLAY 0.0-0.15 20/4/2021 SE218834.063	CLAY 0.0-0.15 20/4/2021 SE218834.064	CLAY 0.0-0.15 20/4/2021 SE218834.065
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	<45	60	<45
TRH C29-C36	mg/kg	45	<45	<45	<45	220	<45
TRH C37-C40	mg/kg	100	<100	<100	<100	<100	<100
TRH >C10-C16	mg/kg	25	<25	<25	<25	<25	<25
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90	<90	<90	180	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	<110	280	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	300	<210

PARAMETER	UOM	LOR	B6	B7	B8	B9	B10
			CLAY 0.0-0.15 20/4/2021 SE218834.066	CLAY 0.0-0.15 20/4/2021 SE218834.067	CLAY 0.0-0.15 20/4/2021 SE218834.068	CLAY 0.0-0.15 20/4/2021 SE218834.069	CLAY 0.0-0.15 20/4/2021 SE218834.070
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	59
TRH C15-C28	mg/kg	45	<45	<45	<45	<45	200
TRH C29-C36	mg/kg	45	<45	<45	<45	<45	250
TRH C37-C40	mg/kg	100	<100	<100	<100	<100	<100
TRH >C10-C16	mg/kg	25	<25	<25	<25	<25	76
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	<25	<25	76
TRH >C16-C34 (F3)	mg/kg	90	<90	<90	<90	<90	330
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	150
TRH C10-C36 Total	mg/kg	110	<110	<110	<110	<110	510
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	<210	560

TRH (Total Recoverable Hydrocarbons) in Soil [AN403] Tested: 22/4/2021 (continued)

PARAMETER	UOM	LOR	P1	P2	P2	P3	P4
			CLAY 0.0-0.15 20/4/2021 SE218834.071	CLAY 0.0-0.15 20/4/2021 SE218834.073	CLAY 0.5-0.8 20/4/2021 SE218834.074	CLAY 0.0-0.15 20/4/2021 SE218834.075	CLAY 0.0-0.15 20/4/2021 SE218834.077
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	<45	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	<45	<45	<45
TRH C37-C40	mg/kg	100	<100	<100	<100	<100	<100
TRH >C10-C16	mg/kg	25	<25	<25	<25	<25	<25
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90	<90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	<110	<110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	<210	<210

PARAMETER	UOM	LOR	P5	DDS2	DDS3	DDS1
			CLAY 0.0-0.15 20/4/2021 SE218834.079	CLAY - 19/4/2021 SE218834.082	CLAY - 20/4/2021 SE218834.083	CLAY - 20/4/2021 SE218834.084
TRH C10-C14	mg/kg	20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	<45	<45
TRH C37-C40	mg/kg	100	<100	<100	<100	<100
TRH >C10-C16	mg/kg	25	<25	<25	<25	<25
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	<110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	<210

PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420] Tested: 22/4/2021

PARAMETER	UOM	LOR	TP36	TP36	TP37	TP37	TP46
			CLAY 0.0-0.15 19/4/2021 SE218834.040	CLAY 0.5-0.8 19/4/2021 SE218834.041	CLAY 0.0-0.15 20/4/2021 SE218834.042	CLAY 0.5-0.8 20/4/2021 SE218834.043	CLAY 0.0-0.15 20/4/2021 SE218834.052
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR	TEQ (mg/kg)	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8

PARAMETER	UOM	LOR	B1	B2	B3	B4	B5
			CLAY 0.0-0.15 20/4/2021 SE218834.061	CLAY 0.0-0.15 20/4/2021 SE218834.062	CLAY 0.0-0.15 20/4/2021 SE218834.063	CLAY 0.0-0.15 20/4/2021 SE218834.064	CLAY 0.0-0.15 20/4/2021 SE218834.065
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR	TEQ (mg/kg)	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8

PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420] Tested: 22/4/2021 (continued)

PARAMETER	UOM	LOR	B6	B7	B8	B9	B10
			CLAY 0.0-0.15 20/4/2021 SE218834.066	CLAY 0.0-0.15 20/4/2021 SE218834.067	CLAY 0.0-0.15 20/4/2021 SE218834.068	CLAY 0.0-0.15 20/4/2021 SE218834.069	CLAY 0.0-0.15 20/4/2021 SE218834.070
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	0.1
Pyrene	mg/kg	0.1	0.1	<0.1	<0.1	<0.1	0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR	TEQ (mg/kg)	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8

PARAMETER	UOM	LOR	P1	P2	P2	P3	P4
			CLAY 0.0-0.15 20/4/2021 SE218834.071	CLAY 0.0-0.15 20/4/2021 SE218834.073	CLAY 0.5-0.8 20/4/2021 SE218834.074	CLAY 0.0-0.15 20/4/2021 SE218834.075	CLAY 0.0-0.15 20/4/2021 SE218834.077
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR	TEQ (mg/kg)	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8

PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420] Tested: 22/4/2021 (continued)

PARAMETER	UOM	LOR	P5	DDS2	DDS3	DDS1
			CLAY 0.0-0.15 20/4/2021 SE218834.079	CLAY - 19/4/2021 SE218834.082	CLAY - 20/4/2021 SE218834.083	CLAY - 20/4/2021 SE218834.084
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	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	0.2	<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)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR	TEQ (mg/kg)	0.3	<0.3	<0.3	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8

OC Pesticides in Soil [AN420] Tested: 22/4/2021

PARAMETER	UOM	LOR	TP1	TP3	TP5	TP6	TP7
			CLAY 0.0-0.15 19/4/2021 SE218834.001	CLAY 0.0-0.15 19/4/2021 SE218834.003	CLAY 0.0-0.15 19/4/2021 SE218834.005	CLAY 0.0-0.15 19/4/2021 SE218834.007	CLAY 0.0-0.15 19/4/2021 SE218834.008
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

OC Pesticides in Soil [AN420] Tested: 22/4/2021 (continued)

PARAMETER	UOM	LOR	TP10	TP13	TP14	TP15	TP16
			CLAY 0.0-0.15 19/4/2021 SE218834.011	CLAY 0.0-0.15 19/4/2021 SE218834.014	CLAY 0.0-0.15 19/4/2021 SE218834.016	CLAY 0.0-0.15 19/4/2021 SE218834.017	CLAY 0.0-0.15 19/4/2021 SE218834.018
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.05	<0.05	0.07	0.06	0.06	0.07
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

OC Pesticides in Soil [AN420] Tested: 22/4/2021 (continued)

PARAMETER	UOM	LOR	TP18	TP19	TP22	TP31	TP34
			CLAY 0.0-0.15 19/4/2021 SE218834.020	CLAY 0.0-0.15 19/4/2021 SE218834.021	CLAY 0.0-0.15 19/4/2021 SE218834.025	CLAY 0.0-0.15 19/4/2021 SE218834.034	CLAY 0.0-0.15 19/4/2021 SE218834.038
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.05	0.06	0.07	0.06	0.06	0.07
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

OC Pesticides in Soil [AN420] Tested: 22/4/2021 (continued)

PARAMETER	UOM	LOR	TP35	TP36	TP36	TP37	TP37
			CLAY 0.0-0.15 19/4/2021 SE218834.039	CLAY 0.0-0.15 19/4/2021 SE218834.040	CLAY 0.5-0.8 19/4/2021 SE218834.041	CLAY 0.0-0.15 20/4/2021 SE218834.042	CLAY 0.5-0.8 20/4/2021 SE218834.043
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.05	0.07	0.06	0.07	0.07	0.07
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

OC Pesticides in Soil [AN420] Tested: 22/4/2021 (continued)

PARAMETER	UOM	LOR	TP38	TP39	TP44	TP46	TP47
			CLAY 0.0-0.15 20/4/2021 SE218834.044	CLAY 0.0-0.15 20/4/2021 SE218834.045	CLAY 0.0-0.15 20/4/2021 SE218834.050	CLAY 0.0-0.15 20/4/2021 SE218834.052	CLAY 0.0-0.15 19/4/2021 SE218834.054
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.05	0.07	0.06	0.06	0.06	0.07
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

OC Pesticides in Soil [AN420] Tested: 22/4/2021 (continued)

PARAMETER	UOM	LOR	TP48	B1	B2	B3	B4
			CLAY 0.0-0.15 19/4/2021 SE218834.055	CLAY 0.0-0.15 20/4/2021 SE218834.061	CLAY 0.0-0.15 20/4/2021 SE218834.062	CLAY 0.0-0.15 20/4/2021 SE218834.063	CLAY 0.0-0.15 20/4/2021 SE218834.064
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.05	0.07	0.06	0.07	0.06	0.05
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

OC Pesticides in Soil [AN420] Tested: 22/4/2021 (continued)

PARAMETER	UOM	LOR	B5	B6	B7	B8	B9
			CLAY 0.0-0.15 20/4/2021 SE218834.065	CLAY 0.0-0.15 20/4/2021 SE218834.066	CLAY 0.0-0.15 20/4/2021 SE218834.067	CLAY 0.0-0.15 20/4/2021 SE218834.068	CLAY 0.0-0.15 20/4/2021 SE218834.069
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1	0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.05	<0.05	0.06	0.06	0.05	0.05
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

OC Pesticides in Soil [AN420] Tested: 22/4/2021 (continued)

PARAMETER	UOM	LOR	P1	P2	P2	P3	P4
			CLAY 0.0-0.15 20/4/2021 SE218834.071	CLAY 0.0-0.15 20/4/2021 SE218834.073	CLAY 0.5-0.8 20/4/2021 SE218834.074	CLAY 0.0-0.15 20/4/2021 SE218834.075	CLAY 0.0-0.15 20/4/2021 SE218834.077
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.05	<0.05	0.06	<0.05	<0.05	0.06
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

OC Pesticides in Soil [AN420] Tested: 22/4/2021 (continued)

PARAMETER	UOM	LOR	P5	DDS4	DDS2	DDS3	DDS1
			CLAY 0.0-0.15 20/4/2021 SE218834.079	CLAY - 19/4/2021 SE218834.081	CLAY - 19/4/2021 SE218834.082	CLAY - 20/4/2021 SE218834.083	CLAY - 20/4/2021 SE218834.084
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.05	0.09	0.05	0.06	0.06	0.05
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

PCBs in Soil [AN420] Tested: 22/4/2021

PARAMETER	UOM	LOR	TP36	TP36	TP37	TP37	TP46
			CLAY 0.0-0.15 19/4/2021 SE218834.040	CLAY 0.5-0.8 19/4/2021 SE218834.041	CLAY 0.0-0.15 20/4/2021 SE218834.042	CLAY 0.5-0.8 20/4/2021 SE218834.043	CLAY 0.0-0.15 20/4/2021 SE218834.052
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1

PARAMETER	UOM	LOR	B7	P1	P2	P2	P3
			CLAY 0.0-0.15 20/4/2021 SE218834.067	CLAY 0.0-0.15 20/4/2021 SE218834.071	CLAY 0.0-0.15 20/4/2021 SE218834.073	CLAY 0.5-0.8 20/4/2021 SE218834.074	CLAY 0.0-0.15 20/4/2021 SE218834.075
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1

PARAMETER	UOM	LOR	P4	P5	DDS2	DDS3	DDS1
			CLAY 0.0-0.15 20/4/2021 SE218834.077	CLAY 0.0-0.15 20/4/2021 SE218834.079	CLAY - 19/4/2021 SE218834.082	CLAY - 20/4/2021 SE218834.083	CLAY - 20/4/2021 SE218834.084
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1

pH in soil (1:5) [AN101] Tested: 23/4/2021

PARAMETER	UOM	LOR	TP1	TP10	TP13	TP16	TP21
			CLAY	CLAY	CLAY	CLAY	CLAY
			0.0-0.15	0.0-0.15	0.0-0.15	0.0-0.15	0.25-0.35
			19/4/2021	19/4/2021	19/4/2021	19/4/2021	19/4/2021
			SE218834.001	SE218834.011	SE218834.014	SE218834.018	SE218834.024
pH	pH Units	0.1	5.8	5.5	5.6	5.4	5.0

PARAMETER	UOM	LOR	TP22	TP31	TP31	TP34	TP37
			CLAY	CLAY	CLAY	CLAY	CLAY
			0.0-0.15	0.0-0.15	0.25-0.35	0.0-0.15	0.0-0.15
			19/4/2021	19/4/2021	19/4/2021	19/4/2021	20/4/2021
			SE218834.025	SE218834.034	SE218834.035	SE218834.038	SE218834.042
pH	pH Units	0.1	5.8	5.5	5.3	6.0	6.1

PARAMETER	UOM	LOR	TP39	TP44	TP47	TP51	B3
			CLAY	CLAY	CLAY	CLAY	CLAY
			0.0-0.15	0.0-0.15	0.0-0.15	0.0-0.15	0.0-0.15
			20/4/2021	20/4/2021	19/4/2021	20/4/2021	20/4/2021
			SE218834.045	SE218834.050	SE218834.054	SE218834.059	SE218834.063
pH	pH Units	0.1	7.4	6.6	6.1	5.9	5.5

PARAMETER	UOM	LOR	B4	B5	B8	P1	P2
			CLAY	CLAY	CLAY	CLAY	CLAY
			0.0-0.15	0.0-0.15	0.0-0.15	0.45-0.55	0.5-0.8
			20/4/2021	20/4/2021	20/4/2021	20/4/2021	20/4/2021
			SE218834.064	SE218834.065	SE218834.068	SE218834.072	SE218834.074
pH	pH Units	0.1	5.2	5.7	6.5	7.6	5.9

PARAMETER	UOM	LOR	P3	P5
			CLAY	CLAY
			0.0-0.15	0.0-0.15
			20/4/2021	20/4/2021
			SE218834.075	SE218834.079
pH	pH Units	0.1	5.8	6.2

Exchangeable Cations and Cation Exchange Capacity (CEC/ESP/SAR) [AN122] Tested: 26/4/2021

PARAMETER	UOM	LOR	TP1	TP10	TP13	TP16	TP21
			CLAY 0.0-0.15 19/4/2021 SE218834.001	CLAY 0.0-0.15 19/4/2021 SE218834.011	CLAY 0.0-0.15 19/4/2021 SE218834.014	CLAY 0.0-0.15 19/4/2021 SE218834.018	CLAY 0.25-0.35 19/4/2021 SE218834.024
Exchangeable Sodium, Na	mg/kg	2	120	53	150	100	590
Exchangeable Sodium, Na	meq/100g	0.01	0.51	0.23	0.63	0.45	2.6
Exchangeable Sodium Percentage*	%	0.1	2.8	2.2	5.2	3.8	18.3
Exchangeable Potassium, K	mg/kg	2	200	220	210	270	150
Exchangeable Potassium, K	meq/100g	0.01	0.52	0.55	0.54	0.70	0.37
Exchangeable Potassium Percentage*	%	0.1	2.9	5.4	4.5	5.8	2.7
Exchangeable Calcium, Ca	mg/kg	2	1900	1100	730	930	140
Exchangeable Calcium, Ca	meq/100g	0.01	9.5	5.3	3.6	4.7	0.72
Exchangeable Calcium Percentage*	%	0.1	52.7	51.7	29.9	38.9	5.1
Exchangeable Magnesium, Mg	mg/kg	2	910	510	890	750	1300
Exchangeable Magnesium, Mg	meq/100g	0.02	7.5	4.2	7.3	6.2	10
Exchangeable Magnesium Percentage*	%	0.1	41.5	40.7	60.4	51.5	74.0
Cation Exchange Capacity	meq/100g	0.02	18	10	12	12	14

PARAMETER	UOM	LOR	TP22	TP31	TP31	TP34	TP37
			CLAY 0.0-0.15 19/4/2021 SE218834.025	CLAY 0.0-0.15 19/4/2021 SE218834.034	CLAY 0.25-0.35 19/4/2021 SE218834.035	CLAY 0.0-0.15 19/4/2021 SE218834.038	CLAY 0.0-0.15 20/4/2021 SE218834.042
Exchangeable Sodium, Na	mg/kg	2	61	150	520	140	420
Exchangeable Sodium, Na	meq/100g	0.01	0.27	0.64	2.2	0.59	1.8
Exchangeable Sodium Percentage*	%	0.1	3.8	8.9	16.0	4.0	14.9
Exchangeable Potassium, K	mg/kg	2	81	110	98	160	100
Exchangeable Potassium, K	meq/100g	0.01	0.21	0.28	0.25	0.40	0.26
Exchangeable Potassium Percentage*	%	0.1	3.0	3.9	1.8	2.7	2.1
Exchangeable Calcium, Ca	mg/kg	2	650	370	350	1600	580
Exchangeable Calcium, Ca	meq/100g	0.01	3.3	1.8	1.7	7.8	2.9
Exchangeable Calcium Percentage*	%	0.1	46.8	25.9	12.4	52.2	23.3
Exchangeable Magnesium, Mg	mg/kg	2	400	530	1200	750	900
Exchangeable Magnesium, Mg	meq/100g	0.02	3.2	4.4	9.8	6.1	7.4
Exchangeable Magnesium Percentage*	%	0.1	46.5	61.3	69.9	41.1	59.7
Cation Exchange Capacity	meq/100g	0.02	7.0	7.1	14	15	12

PARAMETER	UOM	LOR	TP39	TP44	TP47	TP51	B3
			CLAY 0.0-0.15 20/4/2021 SE218834.045	CLAY 0.0-0.15 20/4/2021 SE218834.050	CLAY 0.0-0.15 19/4/2021 SE218834.054	CLAY 0.0-0.15 20/4/2021 SE218834.059	CLAY 0.0-0.15 20/4/2021 SE218834.063
Exchangeable Sodium, Na	mg/kg	2	180	140	140	100	24
Exchangeable Sodium, Na	meq/100g	0.01	0.80	0.59	0.62	0.44	0.10
Exchangeable Sodium Percentage*	%	0.1	6.8	4.9	6.5	7.8	1.6
Exchangeable Potassium, K	mg/kg	2	79	90	92	61	44
Exchangeable Potassium, K	meq/100g	0.01	0.20	0.23	0.23	0.16	0.11
Exchangeable Potassium Percentage*	%	0.1	1.7	1.9	2.5	2.8	1.7
Exchangeable Calcium, Ca	mg/kg	2	1500	1400	760	430	750
Exchangeable Calcium, Ca	meq/100g	0.01	7.6	6.9	3.8	2.2	3.7
Exchangeable Calcium Percentage*	%	0.1	64.6	56.2	40.0	38.2	57.7
Exchangeable Magnesium, Mg	mg/kg	2	380	550	590	350	310
Exchangeable Magnesium, Mg	meq/100g	0.02	3.1	4.5	4.8	2.9	2.5
Exchangeable Magnesium Percentage*	%	0.1	26.9	37.1	50.9	51.2	38.9
Cation Exchange Capacity	meq/100g	0.02	12	12	9.4	5.7	6.5

Exchangeable Cations and Cation Exchange Capacity (CEC/ESP/SAR) [AN122] Tested: 26/4/2021 (continued)

PARAMETER	UOM	LOR	B4	B5	B8	P1	P2
			CLAY 0.0-0.15 20/4/2021 SE218834.064	CLAY 0.0-0.15 20/4/2021 SE218834.065	CLAY 0.0-0.15 20/4/2021 SE218834.068	CLAY 0.45-0.55 20/4/2021 SE218834.072	CLAY 0.5-0.8 20/4/2021 SE218834.074
Exchangeable Sodium, Na	mg/kg	2	34	90	59	400	320
Exchangeable Sodium, Na	meq/100g	0.01	0.15	0.39	0.26	1.7	1.4
Exchangeable Sodium Percentage*	%	0.1	0.9	4.0	2.0	13.3	10.9
Exchangeable Potassium, K	mg/kg	2	590	240	92	100	150
Exchangeable Potassium, K	meq/100g	0.01	1.5	0.61	0.24	0.26	0.38
Exchangeable Potassium Percentage*	%	0.1	8.9	6.2	1.9	2.0	3.0
Exchangeable Calcium, Ca	mg/kg	2	2200	1100	1500	780	470
Exchangeable Calcium, Ca	meq/100g	0.01	11	5.7	7.5	3.9	2.3
Exchangeable Calcium Percentage*	%	0.1	63.5	58.1	59.2	29.8	18.6
Exchangeable Magnesium, Mg	mg/kg	2	550	380	570	880	1000
Exchangeable Magnesium, Mg	meq/100g	0.02	4.5	3.1	4.6	7.2	8.5
Exchangeable Magnesium Percentage*	%	0.1	26.7	31.7	36.9	55.0	67.5
Cation Exchange Capacity	meq/100g	0.02	17	9.8	13	13	13

PARAMETER	UOM	LOR	P3	P5
			CLAY 0.0-0.15 20/4/2021 SE218834.075	CLAY 0.0-0.15 20/4/2021 SE218834.079
Exchangeable Sodium, Na	mg/kg	2	600	330
Exchangeable Sodium, Na	meq/100g	0.01	2.6	1.4
Exchangeable Sodium Percentage*	%	0.1	21.8	11.4
Exchangeable Potassium, K	mg/kg	2	110	110
Exchangeable Potassium, K	meq/100g	0.01	0.28	0.28
Exchangeable Potassium Percentage*	%	0.1	2.3	2.2
Exchangeable Calcium, Ca	mg/kg	2	140	1100
Exchangeable Calcium, Ca	meq/100g	0.01	0.72	5.6
Exchangeable Calcium Percentage*	%	0.1	6.1	44.3
Exchangeable Magnesium, Mg	mg/kg	2	1000	640
Exchangeable Magnesium, Mg	meq/100g	0.02	8.4	5.3
Exchangeable Magnesium Percentage*	%	0.1	69.9	42.0
Cation Exchange Capacity	meq/100g	0.02	12	13

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES [AN040/AN320] Tested: 26/4/2021

PARAMETER	UOM	LOR	TP1	TP2	TP3	TP4	TP5
			CLAY 0.0-0.15 19/4/2021 SE218834.001	CLAY 0.0-0.15 19/4/2021 SE218834.002	CLAY 0.0-0.15 19/4/2021 SE218834.003	CLAY 0.0-0.15 19/4/2021 SE218834.004	CLAY 0.0-0.15 19/4/2021 SE218834.005
Arsenic, As	mg/kg	1	8	9	11	13	7
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	11	14	14	13	16
Copper, Cu	mg/kg	0.5	19	17	20	21	19
Lead, Pb	mg/kg	1	15	33	27	18	28
Nickel, Ni	mg/kg	0.5	6.5	9.2	6.4	11	11
Zinc, Zn	mg/kg	2	32	41	63	43	98
Manganese, Mn	mg/kg	1	300	2200	510	760	1700

PARAMETER	UOM	LOR	TP5	TP6	TP7	TP8	TP9
			CLAY 0.25-0.35 19/4/2021 SE218834.006	CLAY 0.0-0.15 19/4/2021 SE218834.007	CLAY 0.0-0.15 19/4/2021 SE218834.008	CLAY 0.0-0.15 19/4/2021 SE218834.009	CLAY 0.0-0.15 19/4/2021 SE218834.010
Arsenic, As	mg/kg	1	4	7	6	5	10
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	14	15	13	17	16
Copper, Cu	mg/kg	0.5	12	19	21	22	16
Lead, Pb	mg/kg	1	13	27	22	20	24
Nickel, Ni	mg/kg	0.5	6.0	11	13	8.7	10
Zinc, Zn	mg/kg	2	26	95	560	34	74
Manganese, Mn	mg/kg	1	120	1900	2500	1300	2200

PARAMETER	UOM	LOR	TP10	TP11	TP12	TP13	TP13
			CLAY 0.0-0.15 19/4/2021 SE218834.011	CLAY 0.0-0.15 19/4/2021 SE218834.012	CLAY 0.0-0.15 19/4/2021 SE218834.013	CLAY 0.0-0.15 19/4/2021 SE218834.014	CLAY 0.25-0.35 19/4/2021 SE218834.015
Arsenic, As	mg/kg	1	9	8	6	10	5
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	18	21	17	12	13
Copper, Cu	mg/kg	0.5	15	12	18	14	21
Lead, Pb	mg/kg	1	32	21	19	18	13
Nickel, Ni	mg/kg	0.5	9.7	6.2	14	7.3	6.0
Zinc, Zn	mg/kg	2	33	22	43	30	31
Manganese, Mn	mg/kg	1	1600	1300	2200	860	210

PARAMETER	UOM	LOR	TP14	TP15	TP16	TP17	TP18
			CLAY 0.0-0.15 19/4/2021 SE218834.016	CLAY 0.0-0.15 19/4/2021 SE218834.017	CLAY 0.0-0.15 19/4/2021 SE218834.018	CLAY 0.0-0.15 19/4/2021 SE218834.019	CLAY 0.0-0.15 19/4/2021 SE218834.020
Arsenic, As	mg/kg	1	8	38	5	11	9
Cadmium, Cd	mg/kg	0.3	<0.3	0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	14	16	15	11	15
Copper, Cu	mg/kg	0.5	15	28	17	19	8.9
Lead, Pb	mg/kg	1	18	20	17	14	19
Nickel, Ni	mg/kg	0.5	7.9	15	9.3	9.8	9.3
Zinc, Zn	mg/kg	2	40	32	37	34	23
Manganese, Mn	mg/kg	1	1500	1200	1200	880	1600

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES [AN040/AN320] Tested: 26/4/2021

PARAMETER	UOM	LOR	TP19	TP20	TP21	TP21	TP22
			CLAY 0.0-0.15 19/4/2021 SE218834.021	CLAY 0.0-0.15 19/4/2021 SE218834.022	CLAY 0.0-0.15 19/4/2021 SE218834.023	CLAY 0.25-0.35 19/4/2021 SE218834.024	CLAY 0.0-0.15 19/4/2021 SE218834.025
Arsenic, As	mg/kg	1	6	8	8	7	6
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	13	12	13	13	18
Copper, Cu	mg/kg	0.5	18	16	17	31	12
Lead, Pb	mg/kg	1	19	23	21	14	25
Nickel, Ni	mg/kg	0.5	11	17	11	4.7	11
Zinc, Zn	mg/kg	2	30	34	25	29	26
Manganese, Mn	mg/kg	1	1900	2700	1200	62	2900

PARAMETER	UOM	LOR	TP23	TP24	TP25	TP26	TP27
			CLAY 0.0-0.15 19/4/2021 SE218834.026	CLAY 0.0-0.15 19/4/2021 SE218834.027	CLAY 0.0-0.15 19/4/2021 SE218834.028	CLAY 0.0-0.15 19/4/2021 SE218834.029	CLAY 0.0-0.15 19/4/2021 SE218834.030
Arsenic, As	mg/kg	1	9	6	3	8	6
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	14	12	12	14	12
Copper, Cu	mg/kg	0.5	10	12	12	14	7.7
Lead, Pb	mg/kg	1	16	22	15	18	12
Nickel, Ni	mg/kg	0.5	9.6	9.8	15	6.4	6.2
Zinc, Zn	mg/kg	2	28	42	52	35	21
Manganese, Mn	mg/kg	1	1100	1700	1500	780	1600

PARAMETER	UOM	LOR	TP28	TP29	TP30	TP31	TP31
			CLAY 0.0-0.15 19/4/2021 SE218834.031	CLAY 0.0-0.15 19/4/2021 SE218834.032	CLAY 0.0-0.15 19/4/2021 SE218834.033	CLAY 0.0-0.15 19/4/2021 SE218834.034	CLAY 0.25-0.35 19/4/2021 SE218834.035
Arsenic, As	mg/kg	1	5	9	4	10	11
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	12	14	20	11	14
Copper, Cu	mg/kg	0.5	16	23	13	11	15
Lead, Pb	mg/kg	1	110	30	21	19	13
Nickel, Ni	mg/kg	0.5	8.0	12	7.7	5.6	6.2
Zinc, Zn	mg/kg	2	140	190	26	22	28
Manganese, Mn	mg/kg	1	1100	1300	1100	970	77

PARAMETER	UOM	LOR	TP32	TP33	TP34	TP35	TP36
			CLAY 0.0-0.15 19/4/2021 SE218834.036	CLAY 0.0-0.15 19/4/2021 SE218834.037	CLAY 0.0-0.15 19/4/2021 SE218834.038	CLAY 0.0-0.15 19/4/2021 SE218834.039	CLAY 0.0-0.15 19/4/2021 SE218834.040
Arsenic, As	mg/kg	1	5	6	11	11	21
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	15	14	13	14	7.6
Copper, Cu	mg/kg	0.5	14	14	16	16	26
Lead, Pb	mg/kg	1	18	26	20	21	18
Nickel, Ni	mg/kg	0.5	5.7	12	11	6.3	15
Zinc, Zn	mg/kg	2	21	41	39	29	72
Manganese, Mn	mg/kg	1	1200	3800	1800	1600	1100

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES [AN040/AN320] Tested: 26/4/2021

PARAMETER	UOM	LOR	TP36	TP37	TP37	TP38	TP39
			CLAY 0.5-0.8 19/4/2021 SE218834.041	CLAY 0.0-0.15 20/4/2021 SE218834.042	CLAY 0.5-0.8 20/4/2021 SE218834.043	CLAY 0.0-0.15 20/4/2021 SE218834.044	CLAY 0.0-0.15 20/4/2021 SE218834.045
Arsenic, As	mg/kg	1	3	8	5	12	6
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	0.4	<0.3
Chromium, Cr	mg/kg	0.5	9.4	15	11	15	13
Copper, Cu	mg/kg	0.5	28	16	24	22	14
Lead, Pb	mg/kg	1	13	21	13	44	15
Nickel, Ni	mg/kg	0.5	12	14	13	9.2	7.8
Zinc, Zn	mg/kg	2	73	44	58	230	26
Manganese, Mn	mg/kg	1	190	2200	400	910	800

PARAMETER	UOM	LOR	TP40	TP41	TP42	TP43	TP44
			CLAY 0.0-0.15 20/4/2021 SE218834.046	CLAY 0.0-0.15 20/4/2021 SE218834.047	CLAY 0.0-0.15 20/4/2021 SE218834.048	CLAY 0.0-0.15 20/4/2021 SE218834.049	CLAY 0.0-0.15 20/4/2021 SE218834.050
Arsenic, As	mg/kg	1	6	8	6	7	10
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	12	11	11	18	16
Copper, Cu	mg/kg	0.5	16	19	11	15	15
Lead, Pb	mg/kg	1	26	22	17	22	25
Nickel, Ni	mg/kg	0.5	13	7.3	5.9	7.2	13
Zinc, Zn	mg/kg	2	51	31	15	32	43
Manganese, Mn	mg/kg	1	2800	860	3200	930	3200

PARAMETER	UOM	LOR	TP45	TP46	TP46	TP47	TP48
			CLAY 0.0-0.15 20/4/2021 SE218834.051	CLAY 0.0-0.15 20/4/2021 SE218834.052	CLAY 0.35-0.45 20/4/2021 SE218834.053	CLAY 0.0-0.15 19/4/2021 SE218834.054	CLAY 0.0-0.15 19/4/2021 SE218834.055
Arsenic, As	mg/kg	1	6	10	6	8	8
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	16	17	13	13	18
Copper, Cu	mg/kg	0.5	14	17	12	15	11
Lead, Pb	mg/kg	1	20	24	22	21	25
Nickel, Ni	mg/kg	0.5	7.9	11	6.1	12	8.0
Zinc, Zn	mg/kg	2	37	48	23	25	28
Manganese, Mn	mg/kg	1	1900	2700	2300	4300	3400

PARAMETER	UOM	LOR	TP48	TP49	TP50	TP51	TP52
			CLAY 0.25-0.35 19/4/2021 SE218834.056	CLAY 0.0-0.15 20/4/2021 SE218834.057	CLAY 0.0-0.15 20/4/2021 SE218834.058	CLAY 0.0-0.15 20/4/2021 SE218834.059	CLAY 0.0-0.15 20/4/2021 SE218834.060
Arsenic, As	mg/kg	1	5	8	9	6	8
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	13	14	17	14	15
Copper, Cu	mg/kg	0.5	12	14	14	10	10
Lead, Pb	mg/kg	1	16	23	27	21	23
Nickel, Ni	mg/kg	0.5	7.2	7.2	6.8	5.6	5.7
Zinc, Zn	mg/kg	2	30	20	34	26	19
Manganese, Mn	mg/kg	1	880	3700	1900	1700	2600

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES [AN040/AN320] Tested: 26/4/2021

PARAMETER	UOM	LOR	B1	B2	B3	B4	B5
			CLAY 0.0-0.15 20/4/2021 SE218834.061	CLAY 0.0-0.15 20/4/2021 SE218834.062	CLAY 0.0-0.15 20/4/2021 SE218834.063	CLAY 0.0-0.15 20/4/2021 SE218834.064	CLAY 0.0-0.15 20/4/2021 SE218834.065
Arsenic, As	mg/kg	1	6	7	8	7	10
Cadmium, Cd	mg/kg	0.3	0.3	0.4	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	11	15	15	9.8	14
Copper, Cu	mg/kg	0.5	17	22	15	23	13
Lead, Pb	mg/kg	1	18	27	23	24	23
Nickel, Ni	mg/kg	0.5	9.9	9.8	8.8	10	9.1
Zinc, Zn	mg/kg	2	91	120	34	78	42
Manganese, Mn	mg/kg	1	2000	1900	2100	490	1200

PARAMETER	UOM	LOR	B6	B7	B8	B9	B10
			CLAY 0.0-0.15 20/4/2021 SE218834.066	CLAY 0.0-0.15 20/4/2021 SE218834.067	CLAY 0.0-0.15 20/4/2021 SE218834.068	CLAY 0.0-0.15 20/4/2021 SE218834.069	CLAY 0.0-0.15 20/4/2021 SE218834.070
Arsenic, As	mg/kg	1	8	8	5	6	7
Cadmium, Cd	mg/kg	0.3	<0.3	1.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	22	14	19	12	16
Copper, Cu	mg/kg	0.5	26	18	16	17	23
Lead, Pb	mg/kg	1	73	27	30	18	54
Nickel, Ni	mg/kg	0.5	21	7.9	13	8.8	12
Zinc, Zn	mg/kg	2	130	210	250	91	300
Manganese, Mn	mg/kg	1	2200	1000	1900	1800	1100

PARAMETER	UOM	LOR	P1	P1	P2	P2	P3
			CLAY 0.0-0.15 20/4/2021 SE218834.071	CLAY 0.45-0.55 20/4/2021 SE218834.072	CLAY 0.0-0.15 20/4/2021 SE218834.073	CLAY 0.5-0.8 20/4/2021 SE218834.074	CLAY 0.0-0.15 20/4/2021 SE218834.075
Arsenic, As	mg/kg	1	1	5	5	5	6
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	7.3	13	15	10	11
Copper, Cu	mg/kg	0.5	21	16	27	24	28
Lead, Pb	mg/kg	1	10	19	18	14	11
Nickel, Ni	mg/kg	0.5	18	11	11	10	14
Zinc, Zn	mg/kg	2	79	1500	61	60	62
Manganese, Mn	mg/kg	1	470	740	300	240	140

PARAMETER	UOM	LOR	P3	P4	P4	P5	P5
			CLAY 0.55-0.65 20/4/2021 SE218834.076	CLAY 0.0-0.15 20/4/2021 SE218834.077	CLAY 0.55-0.65 20/4/2021 SE218834.078	CLAY 0.0-0.15 20/4/2021 SE218834.079	CLAY 0.55-0.65 20/4/2021 SE218834.080
Arsenic, As	mg/kg	1	3	7	9	7	6
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	13	15	12	15	15
Copper, Cu	mg/kg	0.5	26	16	18	24	16
Lead, Pb	mg/kg	1	11	19	16	17	16
Nickel, Ni	mg/kg	0.5	12	8.0	5.6	10	15
Zinc, Zn	mg/kg	2	70	38	25	84	36
Manganese, Mn	mg/kg	1	110	1900	150	890	330

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PARAMETER	UOM	LOR	DDS4	DDS2	DDS3	DDS1
			CLAY - 19/4/2021 SE218834.081	CLAY - 19/4/2021 SE218834.082	CLAY - 20/4/2021 SE218834.083	CLAY - 20/4/2021 SE218834.084
Arsenic, As	mg/kg	1	10	5	8	9
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	0.5	<0.3
Chromium, Cr	mg/kg	0.5	11	11	15	13
Copper, Cu	mg/kg	0.5	9.2	27	16	22
Lead, Pb	mg/kg	1	17	17	28	20
Nickel, Ni	mg/kg	0.5	5.0	16	7.2	12
Zinc, Zn	mg/kg	2	21	87	220	350
Manganese, Mn	mg/kg	1	550	480	1300	1500

Mercury in Soil [AN312] Tested: 26/4/2021

PARAMETER	UOM	LOR	TP1	TP2	TP3	TP4	TP5
			CLAY	CLAY	CLAY	CLAY	CLAY
			0.0-0.15	0.0-0.15	0.0-0.15	0.0-0.15	0.0-0.15
			19/4/2021	19/4/2021	19/4/2021	19/4/2021	19/4/2021
			SE218834.001	SE218834.002	SE218834.003	SE218834.004	SE218834.005
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	TP5	TP6	TP7	TP8	TP9
			CLAY	CLAY	CLAY	CLAY	CLAY
			0.25-0.35	0.0-0.15	0.0-0.15	0.0-0.15	0.0-0.15
			19/4/2021	19/4/2021	19/4/2021	19/4/2021	19/4/2021
			SE218834.006	SE218834.007	SE218834.008	SE218834.009	SE218834.010
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	TP10	TP11	TP12	TP13	TP13
			CLAY	CLAY	CLAY	CLAY	CLAY
			0.0-0.15	0.0-0.15	0.0-0.15	0.0-0.15	0.25-0.35
			19/4/2021	19/4/2021	19/4/2021	19/4/2021	19/4/2021
			SE218834.011	SE218834.012	SE218834.013	SE218834.014	SE218834.015
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	TP14	TP15	TP16	TP17	TP18
			CLAY	CLAY	CLAY	CLAY	CLAY
			0.0-0.15	0.0-0.15	0.0-0.15	0.0-0.15	0.0-0.15
			19/4/2021	19/4/2021	19/4/2021	19/4/2021	19/4/2021
			SE218834.016	SE218834.017	SE218834.018	SE218834.019	SE218834.020
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	TP19	TP20	TP21	TP21	TP22
			CLAY	CLAY	CLAY	CLAY	CLAY
			0.0-0.15	0.0-0.15	0.0-0.15	0.25-0.35	0.0-0.15
			19/4/2021	19/4/2021	19/4/2021	19/4/2021	19/4/2021
			SE218834.021	SE218834.022	SE218834.023	SE218834.024	SE218834.025
Mercury	mg/kg	0.05	0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	TP23	TP24	TP25	TP26	TP27
			CLAY	CLAY	CLAY	CLAY	CLAY
			0.0-0.15	0.0-0.15	0.0-0.15	0.0-0.15	0.0-0.15
			19/4/2021	19/4/2021	19/4/2021	19/4/2021	19/4/2021
			SE218834.026	SE218834.027	SE218834.028	SE218834.029	SE218834.030
Mercury	mg/kg	0.05	<0.05	0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	TP28	TP29	TP30	TP31	TP31
			CLAY	CLAY	CLAY	CLAY	CLAY
			0.0-0.15	0.0-0.15	0.0-0.15	0.0-0.15	0.25-0.35
			19/4/2021	19/4/2021	19/4/2021	19/4/2021	19/4/2021
			SE218834.031	SE218834.032	SE218834.033	SE218834.034	SE218834.035
Mercury	mg/kg	0.05	<0.05	0.06	<0.05	<0.05	<0.05

Mercury in Soil [AN312] Tested: 26/4/2021 (continued)

PARAMETER	UOM	LOR	TP32	TP33	TP34	TP35	TP36
			CLAY	CLAY	CLAY	CLAY	CLAY
			0.0-0.15	0.0-0.15	0.0-0.15	0.0-0.15	0.0-0.15
			19/4/2021	19/4/2021	19/4/2021	19/4/2021	19/4/2021
			SE218834.036	SE218834.037	SE218834.038	SE218834.039	SE218834.040
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	TP36	TP37	TP37	TP38	TP39
			CLAY	CLAY	CLAY	CLAY	CLAY
			0.5-0.8	0.0-0.15	0.5-0.8	0.0-0.15	0.0-0.15
			19/4/2021	20/4/2021	20/4/2021	20/4/2021	20/4/2021
			SE218834.041	SE218834.042	SE218834.043	SE218834.044	SE218834.045
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	TP40	TP41	TP42	TP43	TP44
			CLAY	CLAY	CLAY	CLAY	CLAY
			0.0-0.15	0.0-0.15	0.0-0.15	0.0-0.15	0.0-0.15
			20/4/2021	20/4/2021	20/4/2021	20/4/2021	20/4/2021
			SE218834.046	SE218834.047	SE218834.048	SE218834.049	SE218834.050
Mercury	mg/kg	0.05	0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	TP45	TP46	TP46	TP47	TP48
			CLAY	CLAY	CLAY	CLAY	CLAY
			0.0-0.15	0.0-0.15	0.35-0.45	0.0-0.15	0.0-0.15
			20/4/2021	20/4/2021	20/4/2021	19/4/2021	19/4/2021
			SE218834.051	SE218834.052	SE218834.053	SE218834.054	SE218834.055
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	TP48	TP49	TP50	TP51	TP52
			CLAY	CLAY	CLAY	CLAY	CLAY
			0.25-0.35	0.0-0.15	0.0-0.15	0.0-0.15	0.0-0.15
			19/4/2021	20/4/2021	20/4/2021	20/4/2021	20/4/2021
			SE218834.056	SE218834.057	SE218834.058	SE218834.059	SE218834.060
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	B1	B2	B3	B4	B5
			CLAY	CLAY	CLAY	CLAY	CLAY
			0.0-0.15	0.0-0.15	0.0-0.15	0.0-0.15	0.0-0.15
			20/4/2021	20/4/2021	20/4/2021	20/4/2021	20/4/2021
			SE218834.061	SE218834.062	SE218834.063	SE218834.064	SE218834.065
Mercury	mg/kg	0.05	<0.05	<0.05	0.06	<0.05	<0.05

PARAMETER	UOM	LOR	B6	B7	B8	B9	B10
			CLAY	CLAY	CLAY	CLAY	CLAY
			0.0-0.15	0.0-0.15	0.0-0.15	0.0-0.15	0.0-0.15
			20/4/2021	20/4/2021	20/4/2021	20/4/2021	20/4/2021
			SE218834.066	SE218834.067	SE218834.068	SE218834.069	SE218834.070
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	0.11

Mercury in Soil [AN312] Tested: 26/4/2021 (continued)

PARAMETER	UOM	LOR	P1	P1	P2	P2	P3
			CLAY	CLAY	CLAY	CLAY	CLAY
			0.0-0.15	0.45-0.55	0.0-0.15	0.5-0.8	0.0-0.15
			20/4/2021	20/4/2021	20/4/2021	20/4/2021	20/4/2021
			SE218834.071	SE218834.072	SE218834.073	SE218834.074	SE218834.075
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	P3	P4	P4	P5	P5
			CLAY	CLAY	CLAY	CLAY	CLAY
			0.55-0.65	0.0-0.15	0.55-0.65	0.0-0.15	0.55-0.65
			20/4/2021	20/4/2021	20/4/2021	20/4/2021	20/4/2021
			SE218834.076	SE218834.077	SE218834.078	SE218834.079	SE218834.080
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	DDS4	DDS2	DDS3	DDS1
			CLAY	CLAY	CLAY	CLAY
			-	-	-	-
			19/4/2021	19/4/2021	20/4/2021	20/4/2021
			SE218834.081	SE218834.082	SE218834.083	SE218834.084
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05

Moisture Content [AN002] Tested: 23/4/2021

			TP1	TP2	TP3	TP4	TP5
			CLAY	CLAY	CLAY	CLAY	CLAY
			0.0-0.15	0.0-0.15	0.0-0.15	0.0-0.15	0.0-0.15
			19/4/2021	19/4/2021	19/4/2021	19/4/2021	19/4/2021
PARAMETER	UOM	LOR	SE218834.001	SE218834.002	SE218834.003	SE218834.004	SE218834.005
% Moisture	%w/w	1	17.8	19.3	12.9	13.3	16.0

			TP5	TP6	TP7	TP8	TP9
			CLAY	CLAY	CLAY	CLAY	CLAY
			0.25-0.35	0.0-0.15	0.0-0.15	0.0-0.15	0.0-0.15
			19/4/2021	19/4/2021	19/4/2021	19/4/2021	19/4/2021
PARAMETER	UOM	LOR	SE218834.006	SE218834.007	SE218834.008	SE218834.009	SE218834.010
% Moisture	%w/w	1	18.0	18.0	14.3	11.3	11.9

			TP10	TP11	TP12	TP13	TP13
			CLAY	CLAY	CLAY	CLAY	CLAY
			0.0-0.15	0.0-0.15	0.0-0.15	0.0-0.15	0.25-0.35
			19/4/2021	19/4/2021	19/4/2021	19/4/2021	19/4/2021
PARAMETER	UOM	LOR	SE218834.011	SE218834.012	SE218834.013	SE218834.014	SE218834.015
% Moisture	%w/w	1	11.4	9.7	14.8	18.6	11.6

			TP14	TP15	TP16	TP17	TP18
			CLAY	CLAY	CLAY	CLAY	CLAY
			0.0-0.15	0.0-0.15	0.0-0.15	0.0-0.15	0.0-0.15
			19/4/2021	19/4/2021	19/4/2021	19/4/2021	19/4/2021
PARAMETER	UOM	LOR	SE218834.016	SE218834.017	SE218834.018	SE218834.019	SE218834.020
% Moisture	%w/w	1	13.2	14.6	15.1	15.1	11.1

			TP19	TP20	TP21	TP21	TP22
			CLAY	CLAY	CLAY	CLAY	CLAY
			0.0-0.15	0.0-0.15	0.0-0.15	0.25-0.35	0.0-0.15
			19/4/2021	19/4/2021	19/4/2021	19/4/2021	19/4/2021
PARAMETER	UOM	LOR	SE218834.021	SE218834.022	SE218834.023	SE218834.024	SE218834.025
% Moisture	%w/w	1	15.9	18.6	20.8	22.2	12.1

			TP23	TP24	TP25	TP26	TP27
			CLAY	CLAY	CLAY	CLAY	CLAY
			0.0-0.15	0.0-0.15	0.0-0.15	0.0-0.15	0.0-0.15
			19/4/2021	19/4/2021	19/4/2021	19/4/2021	19/4/2021
PARAMETER	UOM	LOR	SE218834.026	SE218834.027	SE218834.028	SE218834.029	SE218834.030
% Moisture	%w/w	1	17.4	13.5	16.2	15.6	13.1

			TP28	TP29	TP30	TP31	TP31
			CLAY	CLAY	CLAY	CLAY	CLAY
			0.0-0.15	0.0-0.15	0.0-0.15	0.0-0.15	0.25-0.35
			19/4/2021	19/4/2021	19/4/2021	19/4/2021	19/4/2021
PARAMETER	UOM	LOR	SE218834.031	SE218834.032	SE218834.033	SE218834.034	SE218834.035
% Moisture	%w/w	1	16.3	18.3	14.0	10.6	18.5

Moisture Content [AN002] Tested: 23/4/2021 (continued)

PARAMETER	UOM	LOR	TP32	TP33	TP34	TP35	TP36
			CLAY	CLAY	CLAY	CLAY	CLAY
			0.0-0.15	0.0-0.15	0.0-0.15	0.0-0.15	0.0-0.15
			19/4/2021	19/4/2021	19/4/2021	19/4/2021	19/4/2021
			SE218834.036	SE218834.037	SE218834.038	SE218834.039	SE218834.040
% Moisture	%w/w	1	14.9	16.4	17.6	16.5	11.6

PARAMETER	UOM	LOR	TP36	TP37	TP37	TP38	TP39
			CLAY	CLAY	CLAY	CLAY	CLAY
			0.5-0.8	0.0-0.15	0.5-0.8	0.0-0.15	0.0-0.15
			19/4/2021	20/4/2021	20/4/2021	20/4/2021	20/4/2021
			SE218834.041	SE218834.042	SE218834.043	SE218834.044	SE218834.045
% Moisture	%w/w	1	16.2	17.9	24.4	17.0	12.1

PARAMETER	UOM	LOR	TP40	TP41	TP42	TP43	TP44
			CLAY	CLAY	CLAY	CLAY	CLAY
			0.0-0.15	0.0-0.15	0.0-0.15	0.0-0.15	0.0-0.15
			20/4/2021	20/4/2021	20/4/2021	20/4/2021	20/4/2021
			SE218834.046	SE218834.047	SE218834.048	SE218834.049	SE218834.050
% Moisture	%w/w	1	17.2	14.1	11.1	13.4	13.2

PARAMETER	UOM	LOR	TP45	TP46	TP46	TP47	TP48
			CLAY	CLAY	CLAY	CLAY	CLAY
			0.0-0.15	0.0-0.15	0.35-0.45	0.0-0.15	0.0-0.15
			20/4/2021	20/4/2021	20/4/2021	19/4/2021	19/4/2021
			SE218834.051	SE218834.052	SE218834.053	SE218834.054	SE218834.055
% Moisture	%w/w	1	10.4	12.4	13.8	17.2	16.4

PARAMETER	UOM	LOR	TP48	TP49	TP50	TP51	TP52
			CLAY	CLAY	CLAY	CLAY	CLAY
			0.25-0.35	0.0-0.15	0.0-0.15	0.0-0.15	0.0-0.15
			19/4/2021	20/4/2021	20/4/2021	20/4/2021	20/4/2021
			SE218834.056	SE218834.057	SE218834.058	SE218834.059	SE218834.060
% Moisture	%w/w	1	14.1	12.9	22.1	14.3	14.2

PARAMETER	UOM	LOR	B1	B2	B3	B4	B5
			CLAY	CLAY	CLAY	CLAY	CLAY
			0.0-0.15	0.0-0.15	0.0-0.15	0.0-0.15	0.0-0.15
			20/4/2021	20/4/2021	20/4/2021	20/4/2021	20/4/2021
			SE218834.061	SE218834.062	SE218834.063	SE218834.064	SE218834.065
% Moisture	%w/w	1	19.2	19.9	16.2	8.4	6.0

PARAMETER	UOM	LOR	B6	B7	B8	B9	B10
			CLAY	CLAY	CLAY	CLAY	CLAY
			0.0-0.15	0.0-0.15	0.0-0.15	0.0-0.15	0.0-0.15
			20/4/2021	20/4/2021	20/4/2021	20/4/2021	20/4/2021
			SE218834.066	SE218834.067	SE218834.068	SE218834.069	SE218834.070
% Moisture	%w/w	1	13.8	7.4	12.3	11.0	10.7

Moisture Content [AN002] Tested: 23/4/2021 (continued)

PARAMETER	UOM	LOR	P1	P1	P2	P2	P3
			CLAY	CLAY	CLAY	CLAY	CLAY
			0.0-0.15	0.45-0.55	0.0-0.15	0.5-0.8	0.0-0.15
			20/4/2021	20/4/2021	20/4/2021	20/4/2021	20/4/2021
			SE218834.071	SE218834.072	SE218834.073	SE218834.074	SE218834.075
% Moisture	%w/w	1	10.8	19.1	13.9	20.5	6.6

PARAMETER	UOM	LOR	P3	P4	P4	P5	P5
			CLAY	CLAY	CLAY	CLAY	CLAY
			0.55-0.65	0.0-0.15	0.55-0.65	0.0-0.15	0.55-0.65
			20/4/2021	20/4/2021	20/4/2021	20/4/2021	20/4/2021
			SE218834.076	SE218834.077	SE218834.078	SE218834.079	SE218834.080
% Moisture	%w/w	1	16.1	20.5	18.6	23.3	18.3

PARAMETER	UOM	LOR	DDS4	DDS2	DDS3	DDS1
			CLAY	CLAY	CLAY	CLAY
			-	-	-	-
			19/4/2021	19/4/2021	20/4/2021	20/4/2021
			SE218834.081	SE218834.082	SE218834.083	SE218834.084
% Moisture	%w/w	1	11.0	17.4	10.8	21.7

VOCs in Water [AN433] Tested: 22/4/2021

PARAMETER	UOM	LOR	RS1	RS2
			WATER - 19/4/2021 SE218834.085	WATER - 20/4/2021 SE218834.087
Benzene	µg/L	0.5	<0.5	<0.5
Toluene	µg/L	0.5	<0.5	<0.5
Ethylbenzene	µg/L	0.5	<0.5	<0.5
m/p-xylene	µg/L	1	<1	<1
o-xylene	µg/L	0.5	<0.5	<0.5
Total Xylenes	µg/L	1.5	<1.5	<1.5
Total BTEX	µg/L	3	<3	<3
Naphthalene	µg/L	0.5	<0.5	<0.5

Volatile Petroleum Hydrocarbons in Water [AN433] Tested: 22/4/2021

PARAMETER	UOM	LOR	RS1	RS2
			WATER - 19/4/2021 SE218834.085	WATER - 20/4/2021 SE218834.087
TRH C6-C9	µg/L	40	<40	<40
Benzene (F0)	µg/L	0.5	<0.5	<0.5
TRH C6-C10	µg/L	50	<50	<50
TRH C6-C10 minus BTEX (F1)	µg/L	50	<50	<50

TRH (Total Recoverable Hydrocarbons) in Water [AN403] Tested: 23/4/2021

PARAMETER	UOM	LOR	RS1	RS2
			WATER - 19/4/2021 SE218834.085	WATER - 20/4/2021 SE218834.087
TRH C10-C14	µg/L	50	<50	<50
TRH C15-C28	µg/L	200	<200	<200
TRH C29-C36	µg/L	200	<200	<200
TRH C37-C40	µg/L	200	<200	<200
TRH >C10-C16	µg/L	60	<60	<60
TRH >C10-C16 - Naphthalene (F2)	µg/L	60	<60	<60
TRH >C16-C34 (F3)	µg/L	500	<500	<500
TRH >C34-C40 (F4)	µg/L	500	<500	<500
TRH C10-C40	µg/L	320	<320	<320

PAH (Polynuclear Aromatic Hydrocarbons) in Water [AN420] Tested: 23/4/2021

PARAMETER	UOM	LOR	RS1	RS2
			WATER - 19/4/2021 SE218834.085	WATER - 20/4/2021 SE218834.087
Naphthalene	µg/L	0.1	<0.1	<0.1
2-methylnaphthalene	µg/L	0.1	<0.1	<0.1
1-methylnaphthalene	µg/L	0.1	<0.1	<0.1
Acenaphthylene	µg/L	0.1	<0.1	<0.1
Acenaphthene	µg/L	0.1	<0.1	<0.1
Fluorene	µg/L	0.1	<0.1	<0.1
Phenanthrene	µg/L	0.1	<0.1	<0.1
Anthracene	µg/L	0.1	<0.1	<0.1
Fluoranthene	µg/L	0.1	<0.1	<0.1
Pyrene	µg/L	0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	0.1	<0.1	<0.1
Chrysene	µg/L	0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	µg/L	0.1	<0.1	<0.1
Benzo(k)fluoranthene	µg/L	0.1	<0.1	<0.1
Benzo(b&j&k)fluoranthene	µg/L	0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	µg/L	0.1	<0.1	<0.1
Dibenzo(ah)anthracene	µg/L	0.1	<0.1	<0.1
Benzo(ghi)perylene	µg/L	0.1	<0.1	<0.1
Total PAH (18)	µg/L	1	<1	<1

OC Pesticides in Water [AN420] Tested: 23/4/2021

PARAMETER	UOM	LOR	RS1	RS2
			WATER - 19/4/2021 SE218834.085	WATER - 20/4/2021 SE218834.087
Hexachlorobenzene (HCB)	µg/L	0.1	<0.1	<0.1
Alpha BHC	µg/L	0.1	<0.1	<0.1
Lindane (gamma BHC)	µg/L	0.1	<0.1	<0.1
Heptachlor	µg/L	0.1	<0.1	<0.1
Aldrin	µg/L	0.1	<0.1	<0.1
Beta BHC	µg/L	0.1	<0.1	<0.1
Delta BHC	µg/L	0.1	<0.1	<0.1
Heptachlor epoxide	µg/L	0.1	<0.1	<0.1
o,p'-DDE	µg/L	0.1	<0.1	<0.1
Alpha Endosulfan	µg/L	0.1	<0.1	<0.1
Gamma Chlordane	µg/L	0.1	<0.1	<0.1
Alpha Chlordane	µg/L	0.1	<0.1	<0.1
trans-Nonachlor	µg/L	0.1	<0.1	<0.1
p,p'-DDE	µg/L	0.1	<0.1	<0.1
Dieldrin	µg/L	0.1	<0.1	<0.1
Endrin	µg/L	0.1	<0.1	<0.1
o,p'-DDD	µg/L	0.1	<0.1	<0.1
o,p'-DDT	µg/L	0.1	<0.1	<0.1
Beta Endosulfan	µg/L	0.1	<0.1	<0.1
p,p'-DDD	µg/L	0.1	<0.1	<0.1
p,p'-DDT	µg/L	0.1	<0.1	<0.1
Endosulfan sulphate	µg/L	0.1	<0.1	<0.1
Endrin aldehyde	µg/L	0.1	<0.1	<0.1
Methoxychlor	µg/L	0.1	<0.1	<0.1
Endrin ketone	µg/L	0.1	<0.1	<0.1
Isodrin	µg/L	0.1	<0.1	<0.1
Mirex	µg/L	0.1	<0.1	<0.1

PCBs in Water [AN420] Tested: 23/4/2021

PARAMETER	UOM	LOR	RS1	RS2
			WATER - 19/4/2021 SE218834.085	WATER - 20/4/2021 SE218834.087
Arochlor 1016	µg/L	1	<1	<1
Arochlor 1221	µg/L	1	<1	<1
Arochlor 1232	µg/L	1	<1	<1
Arochlor 1242	µg/L	1	<1	<1
Arochlor 1248	µg/L	1	<1	<1
Arochlor 1254	µg/L	1	<1	<1
Arochlor 1260	µg/L	1	<1	<1
Arochlor 1262	µg/L	1	<1	<1
Arochlor 1268	µg/L	1	<1	<1
Total Arochlors*	µg/L	5	<5	<5

Metals in Water (Dissolved) by ICPOES [AN320] Tested: 22/4/2021

PARAMETER	UOM	LOR	RS1	RS2
			WATER - 19/4/2021 SE218834.085	WATER - 20/4/2021 SE218834.087
Arsenic, As	mg/L	0.02	<0.020	<0.020
Cadmium, Cd	mg/L	0.001	<0.001	<0.001
Chromium, Cr	mg/L	0.005	<0.005	<0.005
Copper, Cu	mg/L	0.005	<0.005	<0.005
Lead, Pb	mg/L	0.02	<0.02	<0.02
Nickel, Ni	mg/L	0.005	<0.005	<0.005
Zinc, Zn	mg/L	0.01	<0.01	<0.01
Manganese, Mn	mg/L	0.005	<0.005	<0.005



ANALYTICAL RESULTS

SE218834 R0

Mercury (dissolved) in Water [AN311(Perth)/AN312] Tested: 23/4/2021

			RS1	RS2
			WATER	WATER
			-	-
			19/4/2021	20/4/2021
PARAMETER	UOM	LOR	SE218834.085	SE218834.087
Mercury	mg/L	0.00005	<0.00005	<0.00005

METHOD

METHODOLOGY SUMMARY

- AN002** The test is carried out by drying (at either 40°C or 105°C) a known mass of sample in a weighed evaporating basin. After fully dry the sample is re-weighed. Samples such as sludge and sediment having high percentages of moisture will take some time in a drying oven for complete removal of water.
- AN020** Unpreserved water sample is filtered through a 0.45µm membrane filter and acidified with nitric acid similar to APHA3030B.
- AN040/AN320** A portion of sample is digested with nitric acid to decompose organic matter and hydrochloric acid to complete the digestion of metals. The digest is then analysed by ICP OES with metals results reported on the dried sample basis. Based on USEPA method 200.8 and 6010C.
- AN040** A portion of sample is digested with Nitric acid to decompose organic matter and Hydrochloric acid to complete the digestion of metals and then filtered for analysis by ASS or ICP as per USEPA Method 200.8.
- AN101** pH in Soil Sludge Sediment and Water: pH is measured electrometrically using a combination electrode and is calibrated against 3 buffers purchased commercially. For soils, sediments and sludges, an extract with water (or 0.01M CaCl₂) is made at a ratio of 1:5 and the pH determined and reported on the extract. Reference APHA 4500-H+.
- AN122** Exchangeable Cations, CEC and ESP: Soil sample is extracted in 1M Ammonium Acetate at pH=7 (or 1M Ammonium Chloride at pH=7) with cations (Na, K, Ca & Mg) then determined by ICP OES/ICP MS and reported as Exchangeable Cations. For saline soils, these results can be corrected for water soluble cations and reported as Exchangeable cations in meq/100g or soil can be pre-treated (aqueous ethanol/aqueous glycerol) prior to extraction. Cation Exchange Capacity (CEC) is the sum of the exchangeable cations in meq/100g.
- AN122** The Exchangeable Sodium Percentage (ESP) is calculated as the exchangeable sodium divided by the CEC (all in meq/100g) times 100.
ESP can be used to categorise the sodicity of the soil as below :
- | | |
|-----------|----------------|
| ESP < 6% | non-sodic |
| ESP 6-15% | sodic |
| ESP >15% | strongly sodic |
- Method is referenced to Rayment and Lyons, 2011, sections 15D3 and 15N1.-
- AN311(Perth)/AN312** Mercury by Cold Vapour AAS in Waters: Mercury ions are reduced by stannous chloride reagent in acidic solution to elemental mercury. This mercury vapour is purged by nitrogen into a cold cell in an atomic absorption spectrometer or mercury analyser. Quantification is made by comparing absorbances to those of the calibration standards. Reference APHA 3112/3500.
- AN312** Mercury by Cold Vapour AAS in Soils: After digestion with nitric acid, hydrogen peroxide and hydrochloric acid, mercury ions are reduced by stannous chloride reagent in acidic solution to elemental mercury. This mercury vapour is purged by nitrogen into a cold cell in an atomic absorption spectrometer or mercury analyser. Quantification is made by comparing absorbances to those of the calibration standards. Reference APHA 3112/3500
- AN320** Metals by ICP-OES: Samples are preserved with 10% nitric acid for a wide range of metals and some non-metals. This solution is measured by Inductively Coupled Plasma. Solutions are aspirated into an argon plasma at 8000-10000K and emit characteristic energy or light as a result of electron transitions through unique energy levels. The emitted light is focused onto a diffraction grating where it is separated into components.
- AN320** Photomultipliers or CCDs are used to measure the light intensity at specific wavelengths. This intensity is directly proportional to concentration. Corrections are required to compensate for spectral overlap between elements. Reference APHA 3120 B.
- AN403** Total Recoverable Hydrocarbons: Determination of Hydrocarbons by gas chromatography after a solvent extraction. Detection is by flame ionisation detector (FID) that produces an electronic signal in proportion to the combustible matter passing through it. Total Recoverable Hydrocarbons (TRH) are routinely reported as four alkane groupings based on the carbon chain length of the compounds: C6-C9, C10-C14, C15-C28 and C29-C36 and in recognition of the NEPM 1999 (2013), >C10-C16 (F2), >C16-C34 (F3) and >C34-C40 (F4). F2 is reported directly and also corrected by subtracting Naphthalene (from VOC method AN433) where available.
- AN403** Additionally, the volatile C6-C9 fraction may be determined by a purge and trap technique and GC/MS because of the potential for volatiles loss. Total Recoverable Hydrocarbons - Silica (TRH-Si) follows the same method of analysis after silica gel cleanup of the solvent extract. Aliphatic/Aromatic Speciation follows the same method of analysis after fractionation of the solvent extract over silica with differential polarity of the eluent solvents.
- AN403** The GC/FID method is not well suited to the analysis of refined high boiling point materials (ie lubricating oils or greases) but is particularly suited for measuring diesel, kerosene and petrol if care to control volatility is taken. This method will detect naturally occurring hydrocarbons, lipids, animal fats, phenols and PAHs if they are present at sufficient levels, dependent on the use of specific cleanup/fractionation techniques. Reference USEPA 3510B, 8015B.
- AN420** (SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols (etc) in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D).

AN420

SVOC Compounds: Semi-Volatile Organic Compounds (SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D).

AN433

VOCs and C6-C9 Hydrocarbons by GC-MS P&T: VOC's are volatile organic compounds. The sample is presented to a gas chromatograph via a purge and trap (P&T) concentrator and autosampler and is detected with a Mass Spectrometer (MSD). Solid samples are initially extracted with methanol whilst liquid samples are processed directly. References: USEPA 5030B, 8020A, 8260.

FOOTNOTES

*	NATA accreditation does not cover the performance of this service.	-	Not analysed.	UOM	Unit of Measure.
**	Indicative data, theoretical holding time exceeded.	NVL	Not validated.	LOR	Limit of Reporting.
***	Indicates that both * and ** apply.	IS	Insufficient sample for analysis.	↑↓	Raised/lowered Limit of Reporting.
		LNR	Sample listed, but not received.		

Unless it is reported that sampling has been performed by SGS, the samples have been analysed as received. Solid samples expressed on a dry weight basis.

Where "Total" analyte groups are reported (for example, Total PAHs, Total OC Pesticides) the total will be calculated as the sum of the individual analytes, with those analytes that are reported as <LOR being assumed to be zero. The summed (Total) limit of reporting is calculated by summing the individual analyte LORs and dividing by two. For example, where 16 individual analytes are being summed and each has an LOR of 0.1 mg/kg, the "Totals" LOR will be 1.6 / 2 (0.8 mg/kg). Where only 2 analytes are being summed, the "Total" LOR will be the sum of those two LORs.

Some totals may not appear to add up because the total is rounded after adding up the raw values.

If reported, measurement uncertainty follow the ± sign after the analytical result and is expressed as the expanded uncertainty calculated using a coverage factor of 2, providing a level of confidence of approximately 95%, unless stated otherwise in the comments section of this report.

Results reported for samples tested under test methods with codes starting with ARS-SOP, radionuclide or gross radioactivity concentrations are expressed in becquerel (Bq) per unit of mass or volume or per wipe as stated on the report. Becquerel is the SI unit for activity and equals one nuclear transformation per second.

Note that in terms of units of radioactivity:

- 1 Bq is equivalent to 27 pCi
- 37 MBq is equivalent to 1 mCi

For results reported for samples tested under test methods with codes starting with ARS-SOP, less than (<) values indicate the detection limit for each radionuclide or parameter for the measurement system used. The respective detection limits have been calculated in accordance with ISO 11929.

The QC and MU criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: www.sgs.com.au/en-gb/environment-health-and-safety.

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STATEMENT OF QA/QC PERFORMANCE

SE218834 R0

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Project **14892/2 Catherine Field**
Order Number (Not specified)
Samples 88

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SGS Reference **SE218834 R0**
Date Received 21 Apr 2021
Date Reported 28 Apr 2021

COMMENTS

All the laboratory data for each environmental matrix was compared to SGS' stated Data Quality Objectives (DQO). Comments arising from the comparison were made and are reported below.

The data relating to sampling was taken from the Chain of Custody document.

This QA/QC Statement must be read in conjunction with the referenced Analytical Report.

The Statement and the Analytical Report must not be reproduced except in full.

All Data Quality Objectives were met with the exception of the following:

Duplicate	Moisture Content	1 item
	Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES	3 items
	Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES	1 item
Matrix Spike	Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES	1 item
	Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES	1 item
	Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES	1 item
	Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES	1 item

SAMPLE SUMMARY

Samples clearly labelled	Yes	Complete documentation received	Yes
Sample container provider	SGS	Sample cooling method	Ice Bricks
Samples received in correct containers	Yes	Sample counts by matrix	2 Soil, 84 Clay, 2 W:
Date documentation received	21/4/2021	Type of documentation received	COC
Samples received in good order	Yes	Samples received without headspace	Yes
Sample temperature upon receipt	15.0°C	Sufficient sample for analysis	Yes
Turnaround time requested	2 Day/Standard		

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

Exchangeable Cations and Cation Exchange Capacity (CEC/ESP/SAR)

Method: ME-(AU)-ENVJAN122

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP1	SE218834.001	LB223284	19 Apr 2021	21 Apr 2021	17 May 2021	26 Apr 2021	17 May 2021	27 Apr 2021
TP10	SE218834.011	LB223284	19 Apr 2021	21 Apr 2021	17 May 2021	26 Apr 2021	17 May 2021	27 Apr 2021
TP13	SE218834.014	LB223284	19 Apr 2021	21 Apr 2021	17 May 2021	26 Apr 2021	17 May 2021	27 Apr 2021
TP16	SE218834.018	LB223284	19 Apr 2021	21 Apr 2021	17 May 2021	26 Apr 2021	17 May 2021	27 Apr 2021
TP21	SE218834.024	LB223284	19 Apr 2021	21 Apr 2021	17 May 2021	26 Apr 2021	17 May 2021	27 Apr 2021
TP22	SE218834.025	LB223284	19 Apr 2021	21 Apr 2021	17 May 2021	26 Apr 2021	17 May 2021	27 Apr 2021
TP31	SE218834.034	LB223284	19 Apr 2021	21 Apr 2021	17 May 2021	26 Apr 2021	17 May 2021	27 Apr 2021
TP31	SE218834.035	LB223284	19 Apr 2021	21 Apr 2021	17 May 2021	26 Apr 2021	17 May 2021	27 Apr 2021
TP34	SE218834.038	LB223284	19 Apr 2021	21 Apr 2021	17 May 2021	26 Apr 2021	17 May 2021	27 Apr 2021
TP37	SE218834.042	LB223284	20 Apr 2021	21 Apr 2021	18 May 2021	26 Apr 2021	18 May 2021	27 Apr 2021
TP39	SE218834.045	LB223284	20 Apr 2021	21 Apr 2021	18 May 2021	26 Apr 2021	18 May 2021	27 Apr 2021
TP44	SE218834.050	LB223284	20 Apr 2021	21 Apr 2021	18 May 2021	26 Apr 2021	18 May 2021	27 Apr 2021
TP47	SE218834.054	LB223284	19 Apr 2021	21 Apr 2021	17 May 2021	26 Apr 2021	17 May 2021	27 Apr 2021
TP51	SE218834.059	LB223284	20 Apr 2021	21 Apr 2021	18 May 2021	26 Apr 2021	18 May 2021	27 Apr 2021
B3	SE218834.063	LB223284	20 Apr 2021	21 Apr 2021	18 May 2021	26 Apr 2021	18 May 2021	27 Apr 2021
B4	SE218834.064	LB223284	20 Apr 2021	21 Apr 2021	18 May 2021	26 Apr 2021	18 May 2021	27 Apr 2021
B5	SE218834.065	LB223284	20 Apr 2021	21 Apr 2021	18 May 2021	26 Apr 2021	18 May 2021	27 Apr 2021
B8	SE218834.068	LB223284	20 Apr 2021	21 Apr 2021	18 May 2021	26 Apr 2021	18 May 2021	27 Apr 2021
P1	SE218834.072	LB223284	20 Apr 2021	21 Apr 2021	18 May 2021	26 Apr 2021	18 May 2021	27 Apr 2021
P2	SE218834.074	LB223284	20 Apr 2021	21 Apr 2021	18 May 2021	26 Apr 2021	18 May 2021	27 Apr 2021
P3	SE218834.075	LB223284	20 Apr 2021	21 Apr 2021	18 May 2021	26 Apr 2021	18 May 2021	27 Apr 2021
P5	SE218834.079	LB223284	20 Apr 2021	21 Apr 2021	18 May 2021	26 Apr 2021	18 May 2021	27 Apr 2021

Mercury (dissolved) in Water

Method: ME-(AU)-ENVJAN311(Perth)/AN312

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
RS1	SE218834.085	LB223193	19 Apr 2021	21 Apr 2021	17 May 2021	23 Apr 2021	17 May 2021	23 Apr 2021
RS2	SE218834.087	LB223193	20 Apr 2021	21 Apr 2021	18 May 2021	23 Apr 2021	18 May 2021	23 Apr 2021

Mercury in Soil

Method: ME-(AU)-ENVJAN312

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP1	SE218834.001	LB223291	19 Apr 2021	21 Apr 2021	17 May 2021	26 Apr 2021	17 May 2021	27 Apr 2021
TP2	SE218834.002	LB223291	19 Apr 2021	21 Apr 2021	17 May 2021	26 Apr 2021	17 May 2021	27 Apr 2021
TP3	SE218834.003	LB223291	19 Apr 2021	21 Apr 2021	17 May 2021	26 Apr 2021	17 May 2021	27 Apr 2021
TP4	SE218834.004	LB223291	19 Apr 2021	21 Apr 2021	17 May 2021	26 Apr 2021	17 May 2021	27 Apr 2021
TP5	SE218834.005	LB223291	19 Apr 2021	21 Apr 2021	17 May 2021	26 Apr 2021	17 May 2021	27 Apr 2021
TP5	SE218834.006	LB223291	19 Apr 2021	21 Apr 2021	17 May 2021	26 Apr 2021	17 May 2021	27 Apr 2021
TP6	SE218834.007	LB223291	19 Apr 2021	21 Apr 2021	17 May 2021	26 Apr 2021	17 May 2021	27 Apr 2021
TP7	SE218834.008	LB223291	19 Apr 2021	21 Apr 2021	17 May 2021	26 Apr 2021	17 May 2021	27 Apr 2021
TP8	SE218834.009	LB223291	19 Apr 2021	21 Apr 2021	17 May 2021	26 Apr 2021	17 May 2021	27 Apr 2021
TP9	SE218834.010	LB223291	19 Apr 2021	21 Apr 2021	17 May 2021	26 Apr 2021	17 May 2021	27 Apr 2021
TP10	SE218834.011	LB223291	19 Apr 2021	21 Apr 2021	17 May 2021	26 Apr 2021	17 May 2021	27 Apr 2021
TP11	SE218834.012	LB223291	19 Apr 2021	21 Apr 2021	17 May 2021	26 Apr 2021	17 May 2021	27 Apr 2021
TP12	SE218834.013	LB223291	19 Apr 2021	21 Apr 2021	17 May 2021	26 Apr 2021	17 May 2021	27 Apr 2021
TP13	SE218834.014	LB223291	19 Apr 2021	21 Apr 2021	17 May 2021	26 Apr 2021	17 May 2021	27 Apr 2021
TP13	SE218834.015	LB223291	19 Apr 2021	21 Apr 2021	17 May 2021	26 Apr 2021	17 May 2021	27 Apr 2021
TP14	SE218834.016	LB223291	19 Apr 2021	21 Apr 2021	17 May 2021	26 Apr 2021	17 May 2021	27 Apr 2021
TP15	SE218834.017	LB223291	19 Apr 2021	21 Apr 2021	17 May 2021	26 Apr 2021	17 May 2021	27 Apr 2021
TP16	SE218834.018	LB223291	19 Apr 2021	21 Apr 2021	17 May 2021	26 Apr 2021	17 May 2021	27 Apr 2021
TP17	SE218834.019	LB223291	19 Apr 2021	21 Apr 2021	17 May 2021	26 Apr 2021	17 May 2021	27 Apr 2021
TP18	SE218834.020	LB223292	19 Apr 2021	21 Apr 2021	17 May 2021	26 Apr 2021	17 May 2021	27 Apr 2021
TP19	SE218834.021	LB223292	19 Apr 2021	21 Apr 2021	17 May 2021	26 Apr 2021	17 May 2021	27 Apr 2021
TP20	SE218834.022	LB223292	19 Apr 2021	21 Apr 2021	17 May 2021	26 Apr 2021	17 May 2021	27 Apr 2021
TP21	SE218834.023	LB223292	19 Apr 2021	21 Apr 2021	17 May 2021	26 Apr 2021	17 May 2021	27 Apr 2021
TP21	SE218834.024	LB223292	19 Apr 2021	21 Apr 2021	17 May 2021	26 Apr 2021	17 May 2021	27 Apr 2021
TP22	SE218834.025	LB223292	19 Apr 2021	21 Apr 2021	17 May 2021	26 Apr 2021	17 May 2021	27 Apr 2021
TP23	SE218834.026	LB223292	19 Apr 2021	21 Apr 2021	17 May 2021	26 Apr 2021	17 May 2021	27 Apr 2021
TP24	SE218834.027	LB223292	19 Apr 2021	21 Apr 2021	17 May 2021	26 Apr 2021	17 May 2021	27 Apr 2021
TP25	SE218834.028	LB223292	19 Apr 2021	21 Apr 2021	17 May 2021	26 Apr 2021	17 May 2021	27 Apr 2021
TP26	SE218834.029	LB223292	19 Apr 2021	21 Apr 2021	17 May 2021	26 Apr 2021	17 May 2021	27 Apr 2021
TP27	SE218834.030	LB223292	19 Apr 2021	21 Apr 2021	17 May 2021	26 Apr 2021	17 May 2021	27 Apr 2021
TP28	SE218834.031	LB223292	19 Apr 2021	21 Apr 2021	17 May 2021	26 Apr 2021	17 May 2021	27 Apr 2021

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

Mercury in Soil (continued)

Method: ME-(AU)-ENVJAN312

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP29	SE218834.032	LB223292	19 Apr 2021	21 Apr 2021	17 May 2021	26 Apr 2021	17 May 2021	27 Apr 2021
TP30	SE218834.033	LB223292	19 Apr 2021	21 Apr 2021	17 May 2021	26 Apr 2021	17 May 2021	27 Apr 2021
TP31	SE218834.034	LB223292	19 Apr 2021	21 Apr 2021	17 May 2021	26 Apr 2021	17 May 2021	27 Apr 2021
TP31	SE218834.035	LB223292	19 Apr 2021	21 Apr 2021	17 May 2021	26 Apr 2021	17 May 2021	27 Apr 2021
TP32	SE218834.036	LB223292	19 Apr 2021	21 Apr 2021	17 May 2021	26 Apr 2021	17 May 2021	27 Apr 2021
TP33	SE218834.037	LB223292	19 Apr 2021	21 Apr 2021	17 May 2021	26 Apr 2021	17 May 2021	27 Apr 2021
TP34	SE218834.038	LB223292	19 Apr 2021	21 Apr 2021	17 May 2021	26 Apr 2021	17 May 2021	27 Apr 2021
TP35	SE218834.039	LB223293	19 Apr 2021	21 Apr 2021	17 May 2021	26 Apr 2021	17 May 2021	27 Apr 2021
TP36	SE218834.040	LB223293	19 Apr 2021	21 Apr 2021	17 May 2021	26 Apr 2021	17 May 2021	27 Apr 2021
TP36	SE218834.041	LB223293	19 Apr 2021	21 Apr 2021	17 May 2021	26 Apr 2021	17 May 2021	27 Apr 2021
TP37	SE218834.042	LB223293	20 Apr 2021	21 Apr 2021	18 May 2021	26 Apr 2021	18 May 2021	27 Apr 2021
TP37	SE218834.043	LB223293	20 Apr 2021	21 Apr 2021	18 May 2021	26 Apr 2021	18 May 2021	27 Apr 2021
TP38	SE218834.044	LB223293	20 Apr 2021	21 Apr 2021	18 May 2021	26 Apr 2021	18 May 2021	27 Apr 2021
TP39	SE218834.045	LB223293	20 Apr 2021	21 Apr 2021	18 May 2021	26 Apr 2021	18 May 2021	27 Apr 2021
TP40	SE218834.046	LB223293	20 Apr 2021	21 Apr 2021	18 May 2021	26 Apr 2021	18 May 2021	27 Apr 2021
TP41	SE218834.047	LB223293	20 Apr 2021	21 Apr 2021	18 May 2021	26 Apr 2021	18 May 2021	27 Apr 2021
TP42	SE218834.048	LB223293	20 Apr 2021	21 Apr 2021	18 May 2021	26 Apr 2021	18 May 2021	27 Apr 2021
TP43	SE218834.049	LB223293	20 Apr 2021	21 Apr 2021	18 May 2021	26 Apr 2021	18 May 2021	27 Apr 2021
TP44	SE218834.050	LB223293	20 Apr 2021	21 Apr 2021	18 May 2021	26 Apr 2021	18 May 2021	27 Apr 2021
TP45	SE218834.051	LB223293	20 Apr 2021	21 Apr 2021	18 May 2021	26 Apr 2021	18 May 2021	27 Apr 2021
TP46	SE218834.052	LB223293	20 Apr 2021	21 Apr 2021	18 May 2021	26 Apr 2021	18 May 2021	27 Apr 2021
TP46	SE218834.053	LB223293	20 Apr 2021	21 Apr 2021	18 May 2021	26 Apr 2021	18 May 2021	27 Apr 2021
TP47	SE218834.054	LB223293	19 Apr 2021	21 Apr 2021	17 May 2021	26 Apr 2021	17 May 2021	27 Apr 2021
TP48	SE218834.055	LB223293	19 Apr 2021	21 Apr 2021	17 May 2021	26 Apr 2021	17 May 2021	27 Apr 2021
TP48	SE218834.056	LB223293	19 Apr 2021	21 Apr 2021	17 May 2021	26 Apr 2021	17 May 2021	27 Apr 2021
TP49	SE218834.057	LB223293	20 Apr 2021	21 Apr 2021	18 May 2021	26 Apr 2021	18 May 2021	27 Apr 2021
TP50	SE218834.058	LB223294	20 Apr 2021	21 Apr 2021	18 May 2021	26 Apr 2021	18 May 2021	27 Apr 2021
TP51	SE218834.059	LB223294	20 Apr 2021	21 Apr 2021	18 May 2021	26 Apr 2021	18 May 2021	27 Apr 2021
TP52	SE218834.060	LB223294	20 Apr 2021	21 Apr 2021	18 May 2021	26 Apr 2021	18 May 2021	27 Apr 2021
B1	SE218834.061	LB223294	20 Apr 2021	21 Apr 2021	18 May 2021	26 Apr 2021	18 May 2021	27 Apr 2021
B2	SE218834.062	LB223294	20 Apr 2021	21 Apr 2021	18 May 2021	26 Apr 2021	18 May 2021	27 Apr 2021
B3	SE218834.063	LB223294	20 Apr 2021	21 Apr 2021	18 May 2021	26 Apr 2021	18 May 2021	27 Apr 2021
B4	SE218834.064	LB223294	20 Apr 2021	21 Apr 2021	18 May 2021	26 Apr 2021	18 May 2021	27 Apr 2021
B5	SE218834.065	LB223294	20 Apr 2021	21 Apr 2021	18 May 2021	26 Apr 2021	18 May 2021	27 Apr 2021
B6	SE218834.066	LB223294	20 Apr 2021	21 Apr 2021	18 May 2021	26 Apr 2021	18 May 2021	27 Apr 2021
B7	SE218834.067	LB223294	20 Apr 2021	21 Apr 2021	18 May 2021	26 Apr 2021	18 May 2021	27 Apr 2021
B8	SE218834.068	LB223294	20 Apr 2021	21 Apr 2021	18 May 2021	26 Apr 2021	18 May 2021	27 Apr 2021
B9	SE218834.069	LB223294	20 Apr 2021	21 Apr 2021	18 May 2021	26 Apr 2021	18 May 2021	27 Apr 2021
B10	SE218834.070	LB223294	20 Apr 2021	21 Apr 2021	18 May 2021	26 Apr 2021	18 May 2021	27 Apr 2021
P1	SE218834.071	LB223294	20 Apr 2021	21 Apr 2021	18 May 2021	26 Apr 2021	18 May 2021	27 Apr 2021
P1	SE218834.072	LB223294	20 Apr 2021	21 Apr 2021	18 May 2021	26 Apr 2021	18 May 2021	27 Apr 2021
P2	SE218834.073	LB223294	20 Apr 2021	21 Apr 2021	18 May 2021	26 Apr 2021	18 May 2021	27 Apr 2021
P2	SE218834.074	LB223294	20 Apr 2021	21 Apr 2021	18 May 2021	26 Apr 2021	18 May 2021	27 Apr 2021
P3	SE218834.075	LB223294	20 Apr 2021	21 Apr 2021	18 May 2021	26 Apr 2021	18 May 2021	27 Apr 2021
P3	SE218834.076	LB223294	20 Apr 2021	21 Apr 2021	18 May 2021	26 Apr 2021	18 May 2021	27 Apr 2021
P4	SE218834.077	LB223304	20 Apr 2021	21 Apr 2021	18 May 2021	26 Apr 2021	18 May 2021	27 Apr 2021
P4	SE218834.078	LB223304	20 Apr 2021	21 Apr 2021	18 May 2021	26 Apr 2021	18 May 2021	27 Apr 2021
P5	SE218834.079	LB223304	20 Apr 2021	21 Apr 2021	18 May 2021	26 Apr 2021	18 May 2021	27 Apr 2021
P5	SE218834.080	LB223304	20 Apr 2021	21 Apr 2021	18 May 2021	26 Apr 2021	18 May 2021	27 Apr 2021
DDS4	SE218834.081	LB223304	19 Apr 2021	21 Apr 2021	17 May 2021	26 Apr 2021	17 May 2021	27 Apr 2021
DDS2	SE218834.082	LB223304	19 Apr 2021	21 Apr 2021	17 May 2021	26 Apr 2021	17 May 2021	27 Apr 2021
DDS3	SE218834.083	LB223304	20 Apr 2021	21 Apr 2021	18 May 2021	26 Apr 2021	18 May 2021	27 Apr 2021
DDS1	SE218834.084	LB223304	20 Apr 2021	21 Apr 2021	18 May 2021	26 Apr 2021	18 May 2021	27 Apr 2021

Metals in Water (Dissolved) by ICPOES

Method: ME-(AU)-ENVJAN320

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
RS1	SE218834.085	LB223115	19 Apr 2021	21 Apr 2021	16 Oct 2021	22 Apr 2021	16 Oct 2021	23 Apr 2021
RS2	SE218834.087	LB223115	20 Apr 2021	21 Apr 2021	17 Oct 2021	22 Apr 2021	17 Oct 2021	23 Apr 2021

Moisture Content

Method: ME-(AU)-ENVJAN002

Sample Name	Sample No.	QC Ref

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

Moisture Content (continued)

Method: ME-(AU)-ENVJAN002

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP1	SE218834.001	LB223207	19 Apr 2021	21 Apr 2021	03 May 2021	23 Apr 2021	28 Apr 2021	26 Apr 2021
TP2	SE218834.002	LB223207	19 Apr 2021	21 Apr 2021	03 May 2021	23 Apr 2021	28 Apr 2021	26 Apr 2021
TP3	SE218834.003	LB223207	19 Apr 2021	21 Apr 2021	03 May 2021	23 Apr 2021	28 Apr 2021	26 Apr 2021
TP4	SE218834.004	LB223207	19 Apr 2021	21 Apr 2021	03 May 2021	23 Apr 2021	28 Apr 2021	26 Apr 2021
TP5	SE218834.005	LB223207	19 Apr 2021	21 Apr 2021	03 May 2021	23 Apr 2021	28 Apr 2021	26 Apr 2021
TP5	SE218834.006	LB223207	19 Apr 2021	21 Apr 2021	03 May 2021	23 Apr 2021	28 Apr 2021	26 Apr 2021
TP6	SE218834.007	LB223207	19 Apr 2021	21 Apr 2021	03 May 2021	23 Apr 2021	28 Apr 2021	26 Apr 2021
TP7	SE218834.008	LB223207	19 Apr 2021	21 Apr 2021	03 May 2021	23 Apr 2021	28 Apr 2021	26 Apr 2021
TP8	SE218834.009	LB223207	19 Apr 2021	21 Apr 2021	03 May 2021	23 Apr 2021	28 Apr 2021	26 Apr 2021
TP9	SE218834.010	LB223207	19 Apr 2021	21 Apr 2021	03 May 2021	23 Apr 2021	28 Apr 2021	26 Apr 2021
TP10	SE218834.011	LB223207	19 Apr 2021	21 Apr 2021	03 May 2021	23 Apr 2021	28 Apr 2021	26 Apr 2021
TP11	SE218834.012	LB223207	19 Apr 2021	21 Apr 2021	03 May 2021	23 Apr 2021	28 Apr 2021	26 Apr 2021
TP12	SE218834.013	LB223207	19 Apr 2021	21 Apr 2021	03 May 2021	23 Apr 2021	28 Apr 2021	26 Apr 2021
TP13	SE218834.014	LB223203	19 Apr 2021	21 Apr 2021	03 May 2021	23 Apr 2021	28 Apr 2021	27 Apr 2021
TP13	SE218834.015	LB223203	19 Apr 2021	21 Apr 2021	03 May 2021	23 Apr 2021	28 Apr 2021	27 Apr 2021
TP14	SE218834.016	LB223203	19 Apr 2021	21 Apr 2021	03 May 2021	23 Apr 2021	28 Apr 2021	27 Apr 2021
TP15	SE218834.017	LB223203	19 Apr 2021	21 Apr 2021	03 May 2021	23 Apr 2021	28 Apr 2021	27 Apr 2021
TP16	SE218834.018	LB223203	19 Apr 2021	21 Apr 2021	03 May 2021	23 Apr 2021	28 Apr 2021	27 Apr 2021
TP17	SE218834.019	LB223203	19 Apr 2021	21 Apr 2021	03 May 2021	23 Apr 2021	28 Apr 2021	27 Apr 2021
TP18	SE218834.020	LB223203	19 Apr 2021	21 Apr 2021	03 May 2021	23 Apr 2021	28 Apr 2021	27 Apr 2021
TP19	SE218834.021	LB223203	19 Apr 2021	21 Apr 2021	03 May 2021	23 Apr 2021	28 Apr 2021	27 Apr 2021
TP20	SE218834.022	LB223203	19 Apr 2021	21 Apr 2021	03 May 2021	23 Apr 2021	28 Apr 2021	27 Apr 2021
TP21	SE218834.023	LB223203	19 Apr 2021	21 Apr 2021	03 May 2021	23 Apr 2021	28 Apr 2021	27 Apr 2021
TP21	SE218834.024	LB223203	19 Apr 2021	21 Apr 2021	03 May 2021	23 Apr 2021	28 Apr 2021	27 Apr 2021
TP22	SE218834.025	LB223203	19 Apr 2021	21 Apr 2021	03 May 2021	23 Apr 2021	28 Apr 2021	27 Apr 2021
TP23	SE218834.026	LB223203	19 Apr 2021	21 Apr 2021	03 May 2021	23 Apr 2021	28 Apr 2021	27 Apr 2021
TP24	SE218834.027	LB223203	19 Apr 2021	21 Apr 2021	03 May 2021	23 Apr 2021	28 Apr 2021	27 Apr 2021
TP25	SE218834.028	LB223203	19 Apr 2021	21 Apr 2021	03 May 2021	23 Apr 2021	28 Apr 2021	27 Apr 2021
TP26	SE218834.029	LB223203	19 Apr 2021	21 Apr 2021	03 May 2021	23 Apr 2021	28 Apr 2021	27 Apr 2021
TP27	SE218834.030	LB223203	19 Apr 2021	21 Apr 2021	03 May 2021	23 Apr 2021	28 Apr 2021	27 Apr 2021
TP28	SE218834.031	LB223203	19 Apr 2021	21 Apr 2021	03 May 2021	23 Apr 2021	28 Apr 2021	27 Apr 2021
TP29	SE218834.032	LB223203	19 Apr 2021	21 Apr 2021	03 May 2021	23 Apr 2021	28 Apr 2021	27 Apr 2021
TP30	SE218834.033	LB223203	19 Apr 2021	21 Apr 2021	03 May 2021	23 Apr 2021	28 Apr 2021	27 Apr 2021
TP31	SE218834.034	LB223203	19 Apr 2021	21 Apr 2021	03 May 2021	23 Apr 2021	28 Apr 2021	27 Apr 2021
TP31	SE218834.035	LB223203	19 Apr 2021	21 Apr 2021	03 May 2021	23 Apr 2021	28 Apr 2021	27 Apr 2021
TP32	SE218834.036	LB223203	19 Apr 2021	21 Apr 2021	03 May 2021	23 Apr 2021	28 Apr 2021	27 Apr 2021
TP33	SE218834.037	LB223203	19 Apr 2021	21 Apr 2021	03 May 2021	23 Apr 2021	28 Apr 2021	27 Apr 2021
TP34	SE218834.038	LB223203	19 Apr 2021	21 Apr 2021	03 May 2021	23 Apr 2021	28 Apr 2021	27 Apr 2021
TP35	SE218834.039	LB223203	19 Apr 2021	21 Apr 2021	03 May 2021	23 Apr 2021	28 Apr 2021	27 Apr 2021
TP36	SE218834.040	LB223203	19 Apr 2021	21 Apr 2021	03 May 2021	23 Apr 2021	28 Apr 2021	27 Apr 2021
TP36	SE218834.041	LB223203	19 Apr 2021	21 Apr 2021	03 May 2021	23 Apr 2021	28 Apr 2021	27 Apr 2021
TP37	SE218834.042	LB223203	20 Apr 2021	21 Apr 2021	04 May 2021	23 Apr 2021	28 Apr 2021	27 Apr 2021
TP37	SE218834.043	LB223203	20 Apr 2021	21 Apr 2021	04 May 2021	23 Apr 2021	28 Apr 2021	27 Apr 2021
TP38	SE218834.044	LB223203	20 Apr 2021	21 Apr 2021	04 May 2021	23 Apr 2021	28 Apr 2021	27 Apr 2021
TP39	SE218834.045	LB223203	20 Apr 2021	21 Apr 2021	04 May 2021	23 Apr 2021	28 Apr 2021	27 Apr 2021
TP40	SE218834.046	LB223203	20 Apr 2021	21 Apr 2021	04 May 2021	23 Apr 2021	28 Apr 2021	27 Apr 2021
TP41	SE218834.047	LB223203	20 Apr 2021	21 Apr 2021	04 May 2021	23 Apr 2021	28 Apr 2021	27 Apr 2021
TP42	SE218834.048	LB223203	20 Apr 2021	21 Apr 2021	04 May 2021	23 Apr 2021	28 Apr 2021	27 Apr 2021
TP43	SE218834.049	LB223203	20 Apr 2021	21 Apr 2021	04 May 2021	23 Apr 2021	28 Apr 2021	27 Apr 2021
TP44	SE218834.050	LB223203	20 Apr 2021	21 Apr 2021	04 May 2021	23 Apr 2021	28 Apr 2021	27 Apr 2021
TP45	SE218834.051	LB223203	20 Apr 2021	21 Apr 2021	04 May 2021	23 Apr 2021	28 Apr 2021	27 Apr 2021
TP46	SE218834.052	LB223203	20 Apr 2021	21 Apr 2021	04 May 2021	23 Apr 2021	28 Apr 2021	27 Apr 2021
TP46	SE218834.053	LB223203	20 Apr 2021	21 Apr 2021	04 May 2021	23 Apr 2021	28 Apr 2021	27 Apr 2021
TP47	SE218834.054	LB223203	19 Apr 2021	21 Apr 2021	03 May 2021	23 Apr 2021	28 Apr 2021	27 Apr 2021
TP48	SE218834.055	LB223203	19 Apr 2021	21 Apr 2021	03 May 2021	23 Apr 2021	28 Apr 2021	27 Apr 2021
TP48	SE218834.056	LB223204	19 Apr 2021	21 Apr 2021	03 May 2021	23 Apr 2021	28 Apr 2021	27 Apr 2021
TP49	SE218834.057	LB223204	20 Apr 2021	21 Apr 2021	04 May 2021	23 Apr 2021	28 Apr 2021	27 Apr 2021
TP50	SE218834.058	LB223204	20 Apr 2021	21 Apr 2021	04 May 2021	23 Apr 2021	28 Apr 2021	27 Apr 2021
TP51	SE218834.059	LB223204	20 Apr 2021	21 Apr 2021	04 May 2021	23 Apr 2021	28 Apr 2021	27 Apr 2021
TP52	SE218834.060	LB223204	20 Apr 2021	21 Apr 2021	04 May 2021	23 Apr 2021	28 Apr 2021	27 Apr 2021

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

Moisture Content (continued)

Method: ME-(AU)-ENVJAN002

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
B1	SE218834.061	LB223204	20 Apr 2021	21 Apr 2021	04 May 2021	23 Apr 2021	28 Apr 2021	27 Apr 2021
B2	SE218834.062	LB223204	20 Apr 2021	21 Apr 2021	04 May 2021	23 Apr 2021	28 Apr 2021	27 Apr 2021
B3	SE218834.063	LB223204	20 Apr 2021	21 Apr 2021	04 May 2021	23 Apr 2021	28 Apr 2021	27 Apr 2021
B4	SE218834.064	LB223204	20 Apr 2021	21 Apr 2021	04 May 2021	23 Apr 2021	28 Apr 2021	27 Apr 2021
B5	SE218834.065	LB223204	20 Apr 2021	21 Apr 2021	04 May 2021	23 Apr 2021	28 Apr 2021	27 Apr 2021
B6	SE218834.066	LB223204	20 Apr 2021	21 Apr 2021	04 May 2021	23 Apr 2021	28 Apr 2021	27 Apr 2021
B7	SE218834.067	LB223204	20 Apr 2021	21 Apr 2021	04 May 2021	23 Apr 2021	28 Apr 2021	27 Apr 2021
B8	SE218834.068	LB223204	20 Apr 2021	21 Apr 2021	04 May 2021	23 Apr 2021	28 Apr 2021	27 Apr 2021
B9	SE218834.069	LB223204	20 Apr 2021	21 Apr 2021	04 May 2021	23 Apr 2021	28 Apr 2021	27 Apr 2021
B10	SE218834.070	LB223204	20 Apr 2021	21 Apr 2021	04 May 2021	23 Apr 2021	28 Apr 2021	27 Apr 2021
P1	SE218834.071	LB223204	20 Apr 2021	21 Apr 2021	04 May 2021	23 Apr 2021	28 Apr 2021	27 Apr 2021
P1	SE218834.072	LB223204	20 Apr 2021	21 Apr 2021	04 May 2021	23 Apr 2021	28 Apr 2021	27 Apr 2021
P2	SE218834.073	LB223204	20 Apr 2021	21 Apr 2021	04 May 2021	23 Apr 2021	28 Apr 2021	27 Apr 2021
P2	SE218834.074	LB223204	20 Apr 2021	21 Apr 2021	04 May 2021	23 Apr 2021	28 Apr 2021	27 Apr 2021
P3	SE218834.075	LB223204	20 Apr 2021	21 Apr 2021	04 May 2021	23 Apr 2021	28 Apr 2021	27 Apr 2021
P3	SE218834.076	LB223204	20 Apr 2021	21 Apr 2021	04 May 2021	23 Apr 2021	28 Apr 2021	27 Apr 2021
P4	SE218834.077	LB223204	20 Apr 2021	21 Apr 2021	04 May 2021	23 Apr 2021	28 Apr 2021	27 Apr 2021
P4	SE218834.078	LB223204	20 Apr 2021	21 Apr 2021	04 May 2021	23 Apr 2021	28 Apr 2021	27 Apr 2021
P5	SE218834.079	LB223204	20 Apr 2021	21 Apr 2021	04 May 2021	23 Apr 2021	28 Apr 2021	27 Apr 2021
P5	SE218834.080	LB223204	20 Apr 2021	21 Apr 2021	04 May 2021	23 Apr 2021	28 Apr 2021	27 Apr 2021
DDS4	SE218834.081	LB223204	19 Apr 2021	21 Apr 2021	03 May 2021	23 Apr 2021	28 Apr 2021	27 Apr 2021
DDS2	SE218834.082	LB223204	19 Apr 2021	21 Apr 2021	03 May 2021	23 Apr 2021	28 Apr 2021	27 Apr 2021
DDS3	SE218834.083	LB223204	20 Apr 2021	21 Apr 2021	04 May 2021	23 Apr 2021	28 Apr 2021	27 Apr 2021
DDS1	SE218834.084	LB223204	20 Apr 2021	21 Apr 2021	04 May 2021	23 Apr 2021	28 Apr 2021	27 Apr 2021

OC Pesticides in Soil

Method: ME-(AU)-ENVJAN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP1	SE218834.001	LB223176	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP3	SE218834.003	LB223176	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP5	SE218834.005	LB223176	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP6	SE218834.007	LB223176	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP7	SE218834.008	LB223176	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP10	SE218834.011	LB223176	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP13	SE218834.014	LB223165	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP14	SE218834.016	LB223165	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP15	SE218834.017	LB223165	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP16	SE218834.018	LB223165	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP18	SE218834.020	LB223165	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP19	SE218834.021	LB223165	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP22	SE218834.025	LB223165	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP31	SE218834.034	LB223165	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP34	SE218834.038	LB223165	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP35	SE218834.039	LB223165	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP36	SE218834.040	LB223165	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP36	SE218834.041	LB223165	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP37	SE218834.042	LB223165	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP37	SE218834.043	LB223165	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP38	SE218834.044	LB223165	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP39	SE218834.045	LB223165	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP44	SE218834.050	LB223165	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP46	SE218834.052	LB223165	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP47	SE218834.054	LB223165	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP48	SE218834.055	LB223165	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
B1	SE218834.061	LB223164	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
B2	SE218834.062	LB223164	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
B3	SE218834.063	LB223164	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
B4	SE218834.064	LB223164	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
B5	SE218834.065	LB223164	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
B6	SE218834.066	LB223164	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
B7	SE218834.067	LB223164	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

OC Pesticides in Soil (continued)

Method: ME-(AU)-ENVJAN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
B8	SE218834.068	LB223164	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
B9	SE218834.069	LB223164	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
B10	SE218834.070	LB223164	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
P1	SE218834.071	LB223164	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
P2	SE218834.073	LB223164	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
P2	SE218834.074	LB223164	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
P3	SE218834.075	LB223164	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
P4	SE218834.077	LB223164	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
P5	SE218834.079	LB223164	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
DDS4	SE218834.081	LB223164	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
DDS2	SE218834.082	LB223164	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
DDS3	SE218834.083	LB223164	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
DDS1	SE218834.084	LB223164	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021

OC Pesticides in Water

Method: ME-(AU)-ENVJAN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
RS1	SE218834.085	LB223192	19 Apr 2021	21 Apr 2021	26 Apr 2021	23 Apr 2021	02 Jun 2021	26 Apr 2021
RS2	SE218834.087	LB223192	20 Apr 2021	21 Apr 2021	27 Apr 2021	23 Apr 2021	02 Jun 2021	26 Apr 2021

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-ENVJAN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP1	SE218834.001	LB223176	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP3	SE218834.003	LB223176	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP5	SE218834.005	LB223176	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP6	SE218834.007	LB223176	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP7	SE218834.008	LB223176	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP10	SE218834.011	LB223176	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP13	SE218834.014	LB223165	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP14	SE218834.016	LB223165	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP15	SE218834.017	LB223165	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP16	SE218834.018	LB223165	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP18	SE218834.020	LB223165	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP19	SE218834.021	LB223165	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP22	SE218834.025	LB223165	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP31	SE218834.034	LB223165	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP34	SE218834.038	LB223165	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP35	SE218834.039	LB223165	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP36	SE218834.040	LB223165	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP36	SE218834.041	LB223165	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP37	SE218834.042	LB223165	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP37	SE218834.043	LB223165	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP38	SE218834.044	LB223165	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP39	SE218834.045	LB223165	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP44	SE218834.050	LB223165	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP46	SE218834.052	LB223165	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP47	SE218834.054	LB223165	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP48	SE218834.055	LB223165	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
B1	SE218834.061	LB223164	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
B2	SE218834.062	LB223164	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
B3	SE218834.063	LB223164	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
B4	SE218834.064	LB223164	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
B5	SE218834.065	LB223164	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
B6	SE218834.066	LB223164	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
B7	SE218834.067	LB223164	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
B8	SE218834.068	LB223164	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
B9	SE218834.069	LB223164	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
B10	SE218834.070	LB223164	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
P1	SE218834.071	LB223164	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
P2	SE218834.073	LB223164	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
P2	SE218834.074	LB223164	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
P3	SE218834.075	LB223164	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued)

Method: ME-(AU)-ENVJAN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
P4	SE218834.077	LB223164	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
P5	SE218834.079	LB223164	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
DDS4	SE218834.081	LB223164	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
DDS2	SE218834.082	LB223164	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
DDS3	SE218834.083	LB223164	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
DDS1	SE218834.084	LB223164	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021

PAH (Polynuclear Aromatic Hydrocarbons) in Water

Method: ME-(AU)-ENVJAN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
RS1	SE218834.085	LB223192	19 Apr 2021	21 Apr 2021	26 Apr 2021	23 Apr 2021	02 Jun 2021	26 Apr 2021
RS2	SE218834.087	LB223192	20 Apr 2021	21 Apr 2021	27 Apr 2021	23 Apr 2021	02 Jun 2021	26 Apr 2021

PCBs in Soil

Method: ME-(AU)-ENVJAN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP1	SE218834.001	LB223176	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP3	SE218834.003	LB223176	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP5	SE218834.005	LB223176	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP6	SE218834.007	LB223176	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP7	SE218834.008	LB223176	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP10	SE218834.011	LB223176	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP13	SE218834.014	LB223165	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP14	SE218834.016	LB223165	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP15	SE218834.017	LB223165	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP16	SE218834.018	LB223165	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP18	SE218834.020	LB223165	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP19	SE218834.021	LB223165	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP22	SE218834.025	LB223165	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP31	SE218834.034	LB223165	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP34	SE218834.038	LB223165	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP35	SE218834.039	LB223165	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP36	SE218834.040	LB223165	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP36	SE218834.041	LB223165	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP37	SE218834.042	LB223165	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP37	SE218834.043	LB223165	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP38	SE218834.044	LB223165	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP39	SE218834.045	LB223165	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP44	SE218834.050	LB223165	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP46	SE218834.052	LB223165	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP47	SE218834.054	LB223165	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP48	SE218834.055	LB223165	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
B1	SE218834.061	LB223164	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
B2	SE218834.062	LB223164	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
B3	SE218834.063	LB223164	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
B4	SE218834.064	LB223164	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
B5	SE218834.065	LB223164	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
B6	SE218834.066	LB223164	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
B7	SE218834.067	LB223164	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
B8	SE218834.068	LB223164	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
B9	SE218834.069	LB223164	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
B10	SE218834.070	LB223164	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
P1	SE218834.071	LB223164	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
P2	SE218834.073	LB223164	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
P2	SE218834.074	LB223164	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
P3	SE218834.075	LB223164	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
P4	SE218834.077	LB223164	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
P5	SE218834.079	LB223164	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
DDS4	SE218834.081	LB223164	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
DDS2	SE218834.082	LB223164	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
DDS3	SE218834.083	LB223164	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
DDS1	SE218834.084	LB223164	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

PCBs in Water

Method: ME-(AU)-ENVJAN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
RS1	SE218834.085	LB223192	19 Apr 2021	21 Apr 2021	26 Apr 2021	23 Apr 2021	02 Jun 2021	26 Apr 2021
RS2	SE218834.087	LB223192	20 Apr 2021	21 Apr 2021	27 Apr 2021	23 Apr 2021	02 Jun 2021	26 Apr 2021

pH in soil (1:5)

Method: ME-(AU)-ENVJAN101

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP1	SE218834.001	LB223249	19 Apr 2021	21 Apr 2021	26 Apr 2021	23 Apr 2021	24 Apr 2021	23 Apr 2021
TP10	SE218834.011	LB223249	19 Apr 2021	21 Apr 2021	26 Apr 2021	23 Apr 2021	24 Apr 2021	23 Apr 2021
TP13	SE218834.014	LB223249	19 Apr 2021	21 Apr 2021	26 Apr 2021	23 Apr 2021	24 Apr 2021	23 Apr 2021
TP16	SE218834.018	LB223249	19 Apr 2021	21 Apr 2021	26 Apr 2021	23 Apr 2021	24 Apr 2021	23 Apr 2021
TP21	SE218834.024	LB223249	19 Apr 2021	21 Apr 2021	26 Apr 2021	23 Apr 2021	24 Apr 2021	23 Apr 2021
TP22	SE218834.025	LB223249	19 Apr 2021	21 Apr 2021	26 Apr 2021	23 Apr 2021	24 Apr 2021	23 Apr 2021
TP31	SE218834.034	LB223249	19 Apr 2021	21 Apr 2021	26 Apr 2021	23 Apr 2021	24 Apr 2021	23 Apr 2021
TP31	SE218834.035	LB223249	19 Apr 2021	21 Apr 2021	26 Apr 2021	23 Apr 2021	24 Apr 2021	23 Apr 2021
TP34	SE218834.038	LB223249	19 Apr 2021	21 Apr 2021	26 Apr 2021	23 Apr 2021	24 Apr 2021	23 Apr 2021
TP37	SE218834.042	LB223249	20 Apr 2021	21 Apr 2021	27 Apr 2021	23 Apr 2021	24 Apr 2021	23 Apr 2021
TP39	SE218834.045	LB223249	20 Apr 2021	21 Apr 2021	27 Apr 2021	23 Apr 2021	24 Apr 2021	23 Apr 2021
TP44	SE218834.050	LB223249	20 Apr 2021	21 Apr 2021	27 Apr 2021	23 Apr 2021	24 Apr 2021	23 Apr 2021
TP47	SE218834.054	LB223249	19 Apr 2021	21 Apr 2021	26 Apr 2021	23 Apr 2021	24 Apr 2021	23 Apr 2021
TP51	SE218834.059	LB223249	20 Apr 2021	21 Apr 2021	27 Apr 2021	23 Apr 2021	24 Apr 2021	23 Apr 2021
B3	SE218834.063	LB223249	20 Apr 2021	21 Apr 2021	27 Apr 2021	23 Apr 2021	24 Apr 2021	23 Apr 2021
B4	SE218834.064	LB223249	20 Apr 2021	21 Apr 2021	27 Apr 2021	23 Apr 2021	24 Apr 2021	23 Apr 2021
B5	SE218834.065	LB223249	20 Apr 2021	21 Apr 2021	27 Apr 2021	23 Apr 2021	24 Apr 2021	23 Apr 2021
B8	SE218834.068	LB223249	20 Apr 2021	21 Apr 2021	27 Apr 2021	23 Apr 2021	24 Apr 2021	23 Apr 2021
P1	SE218834.072	LB223249	20 Apr 2021	21 Apr 2021	27 Apr 2021	23 Apr 2021	24 Apr 2021	23 Apr 2021
P2	SE218834.074	LB223249	20 Apr 2021	21 Apr 2021	27 Apr 2021	23 Apr 2021	24 Apr 2021	23 Apr 2021
P3	SE218834.075	LB223249	20 Apr 2021	21 Apr 2021	27 Apr 2021	23 Apr 2021	24 Apr 2021	23 Apr 2021
P5	SE218834.079	LB223249	20 Apr 2021	21 Apr 2021	27 Apr 2021	23 Apr 2021	24 Apr 2021	23 Apr 2021

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES

Method: ME-(AU)-ENVJAN040/AN320

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP1	SE218834.001	LB223287	19 Apr 2021	21 Apr 2021	16 Oct 2021	26 Apr 2021	16 Oct 2021	27 Apr 2021
TP2	SE218834.002	LB223287	19 Apr 2021	21 Apr 2021	16 Oct 2021	26 Apr 2021	16 Oct 2021	27 Apr 2021
TP3	SE218834.003	LB223287	19 Apr 2021	21 Apr 2021	16 Oct 2021	26 Apr 2021	16 Oct 2021	27 Apr 2021
TP4	SE218834.004	LB223287	19 Apr 2021	21 Apr 2021	16 Oct 2021	26 Apr 2021	16 Oct 2021	27 Apr 2021
TP5	SE218834.005	LB223287	19 Apr 2021	21 Apr 2021	16 Oct 2021	26 Apr 2021	16 Oct 2021	27 Apr 2021
TP5	SE218834.006	LB223287	19 Apr 2021	21 Apr 2021	16 Oct 2021	26 Apr 2021	16 Oct 2021	27 Apr 2021
TP6	SE218834.007	LB223287	19 Apr 2021	21 Apr 2021	16 Oct 2021	26 Apr 2021	16 Oct 2021	27 Apr 2021
TP7	SE218834.008	LB223287	19 Apr 2021	21 Apr 2021	16 Oct 2021	26 Apr 2021	16 Oct 2021	27 Apr 2021
TP8	SE218834.009	LB223287	19 Apr 2021	21 Apr 2021	16 Oct 2021	26 Apr 2021	16 Oct 2021	27 Apr 2021
TP9	SE218834.010	LB223287	19 Apr 2021	21 Apr 2021	16 Oct 2021	26 Apr 2021	16 Oct 2021	27 Apr 2021
TP10	SE218834.011	LB223287	19 Apr 2021	21 Apr 2021	16 Oct 2021	26 Apr 2021	16 Oct 2021	27 Apr 2021
TP11	SE218834.012	LB223287	19 Apr 2021	21 Apr 2021	16 Oct 2021	26 Apr 2021	16 Oct 2021	27 Apr 2021
TP12	SE218834.013	LB223287	19 Apr 2021	21 Apr 2021	16 Oct 2021	26 Apr 2021	16 Oct 2021	27 Apr 2021
TP13	SE218834.014	LB223287	19 Apr 2021	21 Apr 2021	16 Oct 2021	26 Apr 2021	16 Oct 2021	27 Apr 2021
TP13	SE218834.015	LB223287	19 Apr 2021	21 Apr 2021	16 Oct 2021	26 Apr 2021	16 Oct 2021	27 Apr 2021
TP14	SE218834.016	LB223287	19 Apr 2021	21 Apr 2021	16 Oct 2021	26 Apr 2021	16 Oct 2021	27 Apr 2021
TP15	SE218834.017	LB223287	19 Apr 2021	21 Apr 2021	16 Oct 2021	26 Apr 2021	16 Oct 2021	27 Apr 2021
TP16	SE218834.018	LB223287	19 Apr 2021	21 Apr 2021	16 Oct 2021	26 Apr 2021	16 Oct 2021	27 Apr 2021
TP17	SE218834.019	LB223287	19 Apr 2021	21 Apr 2021	16 Oct 2021	26 Apr 2021	16 Oct 2021	27 Apr 2021
TP18	SE218834.020	LB223288	19 Apr 2021	21 Apr 2021	16 Oct 2021	26 Apr 2021	16 Oct 2021	27 Apr 2021
TP19	SE218834.021	LB223288	19 Apr 2021	21 Apr 2021	16 Oct 2021	26 Apr 2021	16 Oct 2021	27 Apr 2021
TP20	SE218834.022	LB223288	19 Apr 2021	21 Apr 2021	16 Oct 2021	26 Apr 2021	16 Oct 2021	27 Apr 2021
TP21	SE218834.023	LB223288	19 Apr 2021	21 Apr 2021	16 Oct 2021	26 Apr 2021	16 Oct 2021	27 Apr 2021
TP21	SE218834.024	LB223288	19 Apr 2021	21 Apr 2021	16 Oct 2021	26 Apr 2021	16 Oct 2021	27 Apr 2021
TP22	SE218834.025	LB223288	19 Apr 2021	21 Apr 2021	16 Oct 2021	26 Apr 2021	16 Oct 2021	27 Apr 2021
TP23	SE218834.026	LB223288	19 Apr 2021	21 Apr 2021	16 Oct 2021	26 Apr 2021	16 Oct 2021	27 Apr 2021
TP24	SE218834.027	LB223288	19 Apr 2021	21 Apr 2021	16 Oct 2021	26 Apr 2021	16 Oct 2021	27 Apr 2021
TP25	SE218834.028	LB223288	19 Apr 2021	21 Apr 2021	16 Oct 2021	26 Apr 2021	16 Oct 2021	27 Apr 2021
TP26	SE218834.029	LB223288	19 Apr 2021	21 Apr 2021	16 Oct 2021	26 Apr 2021	16 Oct 2021	27 Apr 2021
TP27	SE218834.030	LB223288	19 Apr 2021	21 Apr 2021	16 Oct 2021	26 Apr 2021	16 Oct 2021	27 Apr 2021
TP28	SE218834.031	LB223288	19 Apr 2021	21 Apr 2021	16 Oct 2021	26 Apr 2021	16 Oct 2021	27 Apr 2021

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES (continued)

Method: ME-(AU)-[ENV]AN040/AN320

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP29	SE218834.032	LB223288	19 Apr 2021	21 Apr 2021	16 Oct 2021	26 Apr 2021	16 Oct 2021	27 Apr 2021
TP30	SE218834.033	LB223288	19 Apr 2021	21 Apr 2021	16 Oct 2021	26 Apr 2021	16 Oct 2021	27 Apr 2021
TP31	SE218834.034	LB223288	19 Apr 2021	21 Apr 2021	16 Oct 2021	26 Apr 2021	16 Oct 2021	27 Apr 2021
TP31	SE218834.035	LB223288	19 Apr 2021	21 Apr 2021	16 Oct 2021	26 Apr 2021	16 Oct 2021	27 Apr 2021
TP32	SE218834.036	LB223288	19 Apr 2021	21 Apr 2021	16 Oct 2021	26 Apr 2021	16 Oct 2021	27 Apr 2021
TP33	SE218834.037	LB223288	19 Apr 2021	21 Apr 2021	16 Oct 2021	26 Apr 2021	16 Oct 2021	27 Apr 2021
TP34	SE218834.038	LB223288	19 Apr 2021	21 Apr 2021	16 Oct 2021	26 Apr 2021	16 Oct 2021	27 Apr 2021
TP35	SE218834.039	LB223289	19 Apr 2021	21 Apr 2021	16 Oct 2021	26 Apr 2021	16 Oct 2021	27 Apr 2021
TP36	SE218834.040	LB223289	19 Apr 2021	21 Apr 2021	16 Oct 2021	26 Apr 2021	16 Oct 2021	27 Apr 2021
TP36	SE218834.041	LB223289	19 Apr 2021	21 Apr 2021	16 Oct 2021	26 Apr 2021	16 Oct 2021	27 Apr 2021
TP37	SE218834.042	LB223289	20 Apr 2021	21 Apr 2021	17 Oct 2021	26 Apr 2021	17 Oct 2021	27 Apr 2021
TP37	SE218834.043	LB223289	20 Apr 2021	21 Apr 2021	17 Oct 2021	26 Apr 2021	17 Oct 2021	27 Apr 2021
TP38	SE218834.044	LB223289	20 Apr 2021	21 Apr 2021	17 Oct 2021	26 Apr 2021	17 Oct 2021	27 Apr 2021
TP39	SE218834.045	LB223289	20 Apr 2021	21 Apr 2021	17 Oct 2021	26 Apr 2021	17 Oct 2021	27 Apr 2021
TP40	SE218834.046	LB223289	20 Apr 2021	21 Apr 2021	17 Oct 2021	26 Apr 2021	17 Oct 2021	27 Apr 2021
TP41	SE218834.047	LB223289	20 Apr 2021	21 Apr 2021	17 Oct 2021	26 Apr 2021	17 Oct 2021	27 Apr 2021
TP42	SE218834.048	LB223289	20 Apr 2021	21 Apr 2021	17 Oct 2021	26 Apr 2021	17 Oct 2021	27 Apr 2021
TP43	SE218834.049	LB223289	20 Apr 2021	21 Apr 2021	17 Oct 2021	26 Apr 2021	17 Oct 2021	27 Apr 2021
TP44	SE218834.050	LB223289	20 Apr 2021	21 Apr 2021	17 Oct 2021	26 Apr 2021	17 Oct 2021	27 Apr 2021
TP45	SE218834.051	LB223289	20 Apr 2021	21 Apr 2021	17 Oct 2021	26 Apr 2021	17 Oct 2021	27 Apr 2021
TP46	SE218834.052	LB223289	20 Apr 2021	21 Apr 2021	17 Oct 2021	26 Apr 2021	17 Oct 2021	27 Apr 2021
TP46	SE218834.053	LB223289	20 Apr 2021	21 Apr 2021	17 Oct 2021	26 Apr 2021	17 Oct 2021	27 Apr 2021
TP47	SE218834.054	LB223289	19 Apr 2021	21 Apr 2021	16 Oct 2021	26 Apr 2021	16 Oct 2021	27 Apr 2021
TP48	SE218834.055	LB223289	19 Apr 2021	21 Apr 2021	16 Oct 2021	26 Apr 2021	16 Oct 2021	27 Apr 2021
TP48	SE218834.056	LB223289	19 Apr 2021	21 Apr 2021	16 Oct 2021	26 Apr 2021	16 Oct 2021	27 Apr 2021
TP49	SE218834.057	LB223289	20 Apr 2021	21 Apr 2021	17 Oct 2021	26 Apr 2021	17 Oct 2021	27 Apr 2021
TP50	SE218834.058	LB223290	20 Apr 2021	21 Apr 2021	17 Oct 2021	26 Apr 2021	17 Oct 2021	27 Apr 2021
TP51	SE218834.059	LB223290	20 Apr 2021	21 Apr 2021	17 Oct 2021	26 Apr 2021	17 Oct 2021	27 Apr 2021
TP52	SE218834.060	LB223290	20 Apr 2021	21 Apr 2021	17 Oct 2021	26 Apr 2021	17 Oct 2021	27 Apr 2021
B1	SE218834.061	LB223290	20 Apr 2021	21 Apr 2021	17 Oct 2021	26 Apr 2021	17 Oct 2021	27 Apr 2021
B2	SE218834.062	LB223290	20 Apr 2021	21 Apr 2021	17 Oct 2021	26 Apr 2021	17 Oct 2021	27 Apr 2021
B3	SE218834.063	LB223290	20 Apr 2021	21 Apr 2021	17 Oct 2021	26 Apr 2021	17 Oct 2021	27 Apr 2021
B4	SE218834.064	LB223290	20 Apr 2021	21 Apr 2021	17 Oct 2021	26 Apr 2021	17 Oct 2021	27 Apr 2021
B5	SE218834.065	LB223290	20 Apr 2021	21 Apr 2021	17 Oct 2021	26 Apr 2021	17 Oct 2021	27 Apr 2021
B6	SE218834.066	LB223290	20 Apr 2021	21 Apr 2021	17 Oct 2021	26 Apr 2021	17 Oct 2021	27 Apr 2021
B7	SE218834.067	LB223290	20 Apr 2021	21 Apr 2021	17 Oct 2021	26 Apr 2021	17 Oct 2021	27 Apr 2021
B8	SE218834.068	LB223290	20 Apr 2021	21 Apr 2021	17 Oct 2021	26 Apr 2021	17 Oct 2021	27 Apr 2021
B9	SE218834.069	LB223290	20 Apr 2021	21 Apr 2021	17 Oct 2021	26 Apr 2021	17 Oct 2021	27 Apr 2021
B10	SE218834.070	LB223290	20 Apr 2021	21 Apr 2021	17 Oct 2021	26 Apr 2021	17 Oct 2021	27 Apr 2021
P1	SE218834.071	LB223290	20 Apr 2021	21 Apr 2021	17 Oct 2021	26 Apr 2021	17 Oct 2021	27 Apr 2021
P1	SE218834.072	LB223290	20 Apr 2021	21 Apr 2021	17 Oct 2021	26 Apr 2021	17 Oct 2021	27 Apr 2021
P2	SE218834.073	LB223290	20 Apr 2021	21 Apr 2021	17 Oct 2021	26 Apr 2021	17 Oct 2021	27 Apr 2021
P2	SE218834.074	LB223290	20 Apr 2021	21 Apr 2021	17 Oct 2021	26 Apr 2021	17 Oct 2021	27 Apr 2021
P3	SE218834.075	LB223290	20 Apr 2021	21 Apr 2021	17 Oct 2021	26 Apr 2021	17 Oct 2021	27 Apr 2021
P3	SE218834.076	LB223290	20 Apr 2021	21 Apr 2021	17 Oct 2021	26 Apr 2021	17 Oct 2021	27 Apr 2021
P4	SE218834.077	LB223303	20 Apr 2021	21 Apr 2021	17 Oct 2021	26 Apr 2021	17 Oct 2021	27 Apr 2021
P4	SE218834.078	LB223303	20 Apr 2021	21 Apr 2021	17 Oct 2021	26 Apr 2021	17 Oct 2021	27 Apr 2021
P5	SE218834.079	LB223303	20 Apr 2021	21 Apr 2021	17 Oct 2021	26 Apr 2021	17 Oct 2021	27 Apr 2021
P5	SE218834.080	LB223303	20 Apr 2021	21 Apr 2021	17 Oct 2021	26 Apr 2021	17 Oct 2021	27 Apr 2021
DDS4	SE218834.081	LB223303	19 Apr 2021	21 Apr 2021	16 Oct 2021	26 Apr 2021	16 Oct 2021	27 Apr 2021
DDS2	SE218834.082	LB223303	19 Apr 2021	21 Apr 2021	16 Oct 2021	26 Apr 2021	16 Oct 2021	27 Apr 2021
DDS3	SE218834.083	LB223303	20 Apr 2021	21 Apr 2021	17 Oct 2021	26 Apr 2021	17 Oct 2021	27 Apr 2021
DDS1	SE218834.084	LB223303	20 Apr 2021	21 Apr 2021	17 Oct 2021	26 Apr 2021	17 Oct 2021	27 Apr 2021

TRH (Total Recoverable Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN040

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP1	SE218834.001	LB223176	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	28 Apr 2021
TP3	SE218834.003	LB223176	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	28 Apr 2021
TP5	SE218834.005	LB223176	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	28 Apr 2021
TP6	SE218834.007	LB223176	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	28 Apr 2021

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

TRH (Total Recoverable Hydrocarbons) in Soil (continued)

Method: ME-(AU)-ENVJAN403

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP7	SE218834.008	LB223176	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	28 Apr 2021
TP10	SE218834.011	LB223176	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	28 Apr 2021
TP13	SE218834.014	LB223165	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	28 Apr 2021
TP14	SE218834.016	LB223165	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	28 Apr 2021
TP15	SE218834.017	LB223165	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	28 Apr 2021
TP16	SE218834.018	LB223165	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	28 Apr 2021
TP18	SE218834.020	LB223165	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	28 Apr 2021
TP19	SE218834.021	LB223165	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	28 Apr 2021
TP22	SE218834.025	LB223165	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	28 Apr 2021
TP31	SE218834.034	LB223165	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	28 Apr 2021
TP34	SE218834.038	LB223165	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	28 Apr 2021
TP35	SE218834.039	LB223165	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	28 Apr 2021
TP36	SE218834.040	LB223165	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP36	SE218834.041	LB223165	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP37	SE218834.042	LB223165	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP37	SE218834.043	LB223165	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP38	SE218834.044	LB223165	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	28 Apr 2021
TP39	SE218834.045	LB223165	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	28 Apr 2021
TP44	SE218834.050	LB223165	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	28 Apr 2021
TP46	SE218834.052	LB223165	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP47	SE218834.054	LB223165	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	28 Apr 2021
TP48	SE218834.055	LB223165	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	28 Apr 2021
B1	SE218834.061	LB223164	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	28 Apr 2021
B2	SE218834.062	LB223164	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	28 Apr 2021
B3	SE218834.063	LB223164	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	28 Apr 2021
B4	SE218834.064	LB223164	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	28 Apr 2021
B5	SE218834.065	LB223164	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	28 Apr 2021
B6	SE218834.066	LB223164	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	28 Apr 2021
B7	SE218834.067	LB223164	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	28 Apr 2021
B8	SE218834.068	LB223164	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	28 Apr 2021
B9	SE218834.069	LB223164	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	28 Apr 2021
B10	SE218834.070	LB223164	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	28 Apr 2021
P1	SE218834.071	LB223164	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	28 Apr 2021
P2	SE218834.073	LB223164	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	28 Apr 2021
P2	SE218834.074	LB223164	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	28 Apr 2021
P3	SE218834.075	LB223164	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	28 Apr 2021
P4	SE218834.077	LB223164	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	28 Apr 2021
P5	SE218834.079	LB223164	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	28 Apr 2021
DDS4	SE218834.081	LB223164	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	28 Apr 2021
DDS2	SE218834.082	LB223164	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	28 Apr 2021
DDS3	SE218834.083	LB223164	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	28 Apr 2021
DDS1	SE218834.084	LB223164	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	28 Apr 2021

TRH (Total Recoverable Hydrocarbons) in Water

Method: ME-(AU)-ENVJAN403

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
RS1	SE218834.085	LB223192	19 Apr 2021	21 Apr 2021	26 Apr 2021	23 Apr 2021	02 Jun 2021	26 Apr 2021
RS2	SE218834.087	LB223192	20 Apr 2021	21 Apr 2021	27 Apr 2021	23 Apr 2021	02 Jun 2021	26 Apr 2021

VOC's in Soil

Method: ME-(AU)-ENVJAN433

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP36	SE218834.040	LB223166	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP36	SE218834.041	LB223166	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP37	SE218834.042	LB223166	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP37	SE218834.043	LB223166	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP46	SE218834.052	LB223166	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
B1	SE218834.061	LB223163	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
B2	SE218834.062	LB223163	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
B3	SE218834.063	LB223163	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
B4	SE218834.064	LB223163	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
B5	SE218834.065	LB223163	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
B6	SE218834.066	LB223163	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

VOC's in Soil (continued)

Method: ME-(AU)-ENVJAN433

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
B7	SE218834.067	LB223163	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
B8	SE218834.068	LB223163	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
B9	SE218834.069	LB223163	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
B10	SE218834.070	LB223163	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
P1	SE218834.071	LB223163	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
P2	SE218834.073	LB223163	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
P2	SE218834.074	LB223163	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
P3	SE218834.075	LB223163	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
P4	SE218834.077	LB223163	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
P5	SE218834.079	LB223163	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
DDS2	SE218834.082	LB223163	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
DDS3	SE218834.083	LB223163	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
DDS1	SE218834.084	LB223163	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TS1	SE218834.086	LB223163	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TS2	SE218834.088	LB223163	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021

VOCs in Water

Method: ME-(AU)-ENVJAN433

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
RS1	SE218834.085	LB223168	19 Apr 2021	21 Apr 2021	26 Apr 2021	22 Apr 2021	01 Jun 2021	26 Apr 2021
RS2	SE218834.087	LB223168	20 Apr 2021	21 Apr 2021	27 Apr 2021	22 Apr 2021	01 Jun 2021	26 Apr 2021

Volatile Petroleum Hydrocarbons in Soil

Method: ME-(AU)-ENVJAN433

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP36	SE218834.040	LB223166	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP36	SE218834.041	LB223166	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP37	SE218834.042	LB223166	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP37	SE218834.043	LB223166	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TP46	SE218834.052	LB223166	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
B1	SE218834.061	LB223163	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
B2	SE218834.062	LB223163	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
B3	SE218834.063	LB223163	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
B4	SE218834.064	LB223163	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
B5	SE218834.065	LB223163	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
B6	SE218834.066	LB223163	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
B7	SE218834.067	LB223163	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
B8	SE218834.068	LB223163	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
B9	SE218834.069	LB223163	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
B10	SE218834.070	LB223163	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
P1	SE218834.071	LB223163	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
P2	SE218834.073	LB223163	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
P2	SE218834.074	LB223163	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
P3	SE218834.075	LB223163	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
P4	SE218834.077	LB223163	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
P5	SE218834.079	LB223163	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
DDS2	SE218834.082	LB223163	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
DDS3	SE218834.083	LB223163	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
DDS1	SE218834.084	LB223163	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TS1	SE218834.086	LB223163	19 Apr 2021	21 Apr 2021	03 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021
TS2	SE218834.088	LB223163	20 Apr 2021	21 Apr 2021	04 May 2021	22 Apr 2021	01 Jun 2021	27 Apr 2021

Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-ENVJAN433

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
RS1	SE218834.085	LB223168	19 Apr 2021	21 Apr 2021	26 Apr 2021	22 Apr 2021	01 Jun 2021	26 Apr 2021
RS2	SE218834.087	LB223168	20 Apr 2021	21 Apr 2021	27 Apr 2021	22 Apr 2021	01 Jun 2021	26 Apr 2021

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

OC Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Tetrachloro-m-xylene (TCMX) (Surrogate)	TP1	SE218834.001	%	60 - 130%	96
	TP3	SE218834.003	%	60 - 130%	94
	TP5	SE218834.005	%	60 - 130%	96
	TP6	SE218834.007	%	60 - 130%	101
	TP7	SE218834.008	%	60 - 130%	95
	TP10	SE218834.011	%	60 - 130%	94
	TP13	SE218834.014	%	60 - 130%	95
	TP14	SE218834.016	%	60 - 130%	81
	TP15	SE218834.017	%	60 - 130%	95
	TP16	SE218834.018	%	60 - 130%	100
	TP18	SE218834.020	%	60 - 130%	97
	TP19	SE218834.021	%	60 - 130%	100
	TP22	SE218834.025	%	60 - 130%	96
	TP31	SE218834.034	%	60 - 130%	91
	TP34	SE218834.038	%	60 - 130%	94
	TP35	SE218834.039	%	60 - 130%	101
	TP36	SE218834.040	%	60 - 130%	94
	TP36	SE218834.041	%	60 - 130%	98
	TP37	SE218834.042	%	60 - 130%	96
	TP37	SE218834.043	%	60 - 130%	86
	TP38	SE218834.044	%	60 - 130%	100
	TP39	SE218834.045	%	60 - 130%	98
	TP44	SE218834.050	%	60 - 130%	98
	TP46	SE218834.052	%	60 - 130%	97
	TP47	SE218834.054	%	60 - 130%	100
	TP48	SE218834.055	%	60 - 130%	89
	B1	SE218834.061	%	60 - 130%	110
	B2	SE218834.062	%	60 - 130%	110
	B3	SE218834.063	%	60 - 130%	109
	B4	SE218834.064	%	60 - 130%	121
	B5	SE218834.065	%	60 - 130%	109
	B6	SE218834.066	%	60 - 130%	117
	B7	SE218834.067	%	60 - 130%	116
	B8	SE218834.068	%	60 - 130%	120
	B9	SE218834.069	%	60 - 130%	115
	P1	SE218834.071	%	60 - 130%	113
	P2	SE218834.073	%	60 - 130%	116
	P2	SE218834.074	%	60 - 130%	116
	P3	SE218834.075	%	60 - 130%	112
	P4	SE218834.077	%	60 - 130%	117
	P5	SE218834.079	%	60 - 130%	115
	DDS4	SE218834.081	%	60 - 130%	111
	DDS2	SE218834.082	%	60 - 130%	113
	DDS3	SE218834.083	%	60 - 130%	111
	DDS1	SE218834.084	%	60 - 130%	119

OC Pesticides in Water

Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Tetrachloro-m-xylene (TCMX) (Surrogate)	RS1	SE218834.085	%	40 - 130%	67
	RS2	SE218834.087	%	40 - 130%	53

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	TP36	SE218834.040	%	70 - 130%	100
	TP36	SE218834.041	%	70 - 130%	102
	TP37	SE218834.042	%	70 - 130%	99
	TP37	SE218834.043	%	70 - 130%	102
	TP46	SE218834.052	%	70 - 130%	79
	B1	SE218834.061	%	70 - 130%	104
	B2	SE218834.062	%	70 - 130%	98
	B3	SE218834.063	%	70 - 130%	101

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued)

Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	B4	SE218834.064	%	70 - 130%	89
	B5	SE218834.065	%	70 - 130%	100
	B6	SE218834.066	%	70 - 130%	100
	B7	SE218834.067	%	70 - 130%	99
	B8	SE218834.068	%	70 - 130%	107
	B9	SE218834.069	%	70 - 130%	101
	B10	SE218834.070	%	70 - 130%	99
	P1	SE218834.071	%	70 - 130%	98
	P2	SE218834.073	%	70 - 130%	97
	P2	SE218834.074	%	70 - 130%	101
	P3	SE218834.075	%	70 - 130%	93
	P4	SE218834.077	%	70 - 130%	100
	P5	SE218834.079	%	70 - 130%	97
	DDS2	SE218834.082	%	70 - 130%	97
	DDS3	SE218834.083	%	70 - 130%	104
	DDS1	SE218834.084	%	70 - 130%	101
d14-p-terphenyl (Surrogate)	TP36	SE218834.040	%	70 - 130%	97
	TP36	SE218834.041	%	70 - 130%	98
	TP37	SE218834.042	%	70 - 130%	97
	TP37	SE218834.043	%	70 - 130%	96
	TP46	SE218834.052	%	70 - 130%	75
	B1	SE218834.061	%	70 - 130%	102
	B2	SE218834.062	%	70 - 130%	97
	B3	SE218834.063	%	70 - 130%	101
	B4	SE218834.064	%	70 - 130%	88
	B5	SE218834.065	%	70 - 130%	100
	B6	SE218834.066	%	70 - 130%	99
	B7	SE218834.067	%	70 - 130%	97
	B8	SE218834.068	%	70 - 130%	100
	B9	SE218834.069	%	70 - 130%	96
	B10	SE218834.070	%	70 - 130%	93
	P1	SE218834.071	%	70 - 130%	95
	P2	SE218834.073	%	70 - 130%	91
	P2	SE218834.074	%	70 - 130%	102
	P3	SE218834.075	%	70 - 130%	96
	P4	SE218834.077	%	70 - 130%	102
	P5	SE218834.079	%	70 - 130%	107
	DDS2	SE218834.082	%	70 - 130%	99
	DDS3	SE218834.083	%	70 - 130%	98
	DDS1	SE218834.084	%	70 - 130%	98
d5-nitrobenzene (Surrogate)	TP36	SE218834.040	%	70 - 130%	87
	TP36	SE218834.041	%	70 - 130%	88
	TP37	SE218834.042	%	70 - 130%	88
	TP37	SE218834.043	%	70 - 130%	92
	TP46	SE218834.052	%	70 - 130%	72
	B1	SE218834.061	%	70 - 130%	100
	B2	SE218834.062	%	70 - 130%	96
	B3	SE218834.063	%	70 - 130%	100
	B4	SE218834.064	%	70 - 130%	93
	B5	SE218834.065	%	70 - 130%	106
	B6	SE218834.066	%	70 - 130%	108
	B7	SE218834.067	%	70 - 130%	106
	B8	SE218834.068	%	70 - 130%	106
	B9	SE218834.069	%	70 - 130%	102
	B10	SE218834.070	%	70 - 130%	101
	P1	SE218834.071	%	70 - 130%	102
	P2	SE218834.073	%	70 - 130%	101
	P2	SE218834.074	%	70 - 130%	105
	P3	SE218834.075	%	70 - 130%	100
	P4	SE218834.077	%	70 - 130%	106
	P5	SE218834.079	%	70 - 130%	104

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued)

Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
d5-nitrobenzene (Surrogate)	DDS2	SE218834.082	%	70 - 130%	108
	DDS3	SE218834.083	%	70 - 130%	106
	DDS1	SE218834.084	%	70 - 130%	102

PAH (Polynuclear Aromatic Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	RS1	SE218834.085	%	40 - 130%	50
	RS2	SE218834.087	%	40 - 130%	46
d14-p-terphenyl (Surrogate)	RS1	SE218834.085	%	40 - 130%	64
	RS2	SE218834.087	%	40 - 130%	56
d5-nitrobenzene (Surrogate)	RS1	SE218834.085	%	40 - 130%	44
	RS2	SE218834.087	%	40 - 130%	42

PCBs in Soil

Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Tetrachloro-m-xylene (TCMX) (Surrogate)	TP36	SE218834.040	%	60 - 130%	94
	TP36	SE218834.041	%	60 - 130%	98
	TP37	SE218834.042	%	60 - 130%	96
	TP37	SE218834.043	%	60 - 130%	86
	TP46	SE218834.052	%	60 - 130%	97
	B7	SE218834.067	%	60 - 130%	116
	P1	SE218834.071	%	60 - 130%	113
	P2	SE218834.073	%	60 - 130%	116
	P2	SE218834.074	%	60 - 130%	116
	P3	SE218834.075	%	60 - 130%	112
	P4	SE218834.077	%	60 - 130%	117
	P5	SE218834.079	%	60 - 130%	115
	DDS2	SE218834.082	%	60 - 130%	113
	DDS3	SE218834.083	%	60 - 130%	111
	DDS1	SE218834.084	%	60 - 130%	119

PCBs in Water

Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Tetrachloro-m-xylene (Surrogate)	RS1	SE218834.085	%	40 - 130%	67
	RS2	SE218834.087	%	40 - 130%	53

VOC's in Soil

Method: ME-(AU)-[ENV]AN433

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	TP36	SE218834.040	%	60 - 130%	108
	TP36	SE218834.041	%	60 - 130%	99
	TP37	SE218834.042	%	60 - 130%	98
	TP37	SE218834.043	%	60 - 130%	103
	TP46	SE218834.052	%	60 - 130%	100
	B1	SE218834.061	%	60 - 130%	85
	B2	SE218834.062	%	60 - 130%	81
	B3	SE218834.063	%	60 - 130%	104
	B4	SE218834.064	%	60 - 130%	113
	B5	SE218834.065	%	60 - 130%	117
	B6	SE218834.066	%	60 - 130%	78
	B7	SE218834.067	%	60 - 130%	81
	B8	SE218834.068	%	60 - 130%	110
	B9	SE218834.069	%	60 - 130%	80
	B10	SE218834.070	%	60 - 130%	73
	P1	SE218834.071	%	60 - 130%	77
	P2	SE218834.073	%	60 - 130%	75
	P2	SE218834.074	%	60 - 130%	102
	P3	SE218834.075	%	60 - 130%	108
	P4	SE218834.077	%	60 - 130%	74
	P5	SE218834.079	%	60 - 130%	111
	DDS2	SE218834.082	%	60 - 130%	77
	DDS3	SE218834.083	%	60 - 130%	75
	DDS1	SE218834.084	%	60 - 130%	78

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

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VOC's in Soil (continued)

Method: ME-(AU)-[ENV]AN433

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	TS1	SE218834.086	%	60 - 130%	70
	TS2	SE218834.088	%	60 - 130%	73
d4-1,2-dichloroethane (Surrogate)	TP36	SE218834.040	%	60 - 130%	115
	TP36	SE218834.041	%	60 - 130%	105
	TP37	SE218834.042	%	60 - 130%	104
	TP37	SE218834.043	%	60 - 130%	108
	TP46	SE218834.052	%	60 - 130%	106
	B1	SE218834.061	%	60 - 130%	90
	B2	SE218834.062	%	60 - 130%	87
	B3	SE218834.063	%	60 - 130%	107
	B4	SE218834.064	%	60 - 130%	115
	B5	SE218834.065	%	60 - 130%	120
	B6	SE218834.066	%	60 - 130%	83
	B7	SE218834.067	%	60 - 130%	88
	B8	SE218834.068	%	60 - 130%	114
	B9	SE218834.069	%	60 - 130%	87
	B10	SE218834.070	%	60 - 130%	80
	P1	SE218834.071	%	60 - 130%	87
	P2	SE218834.073	%	60 - 130%	82
	P2	SE218834.074	%	60 - 130%	105
	P3	SE218834.075	%	60 - 130%	112
	P4	SE218834.077	%	60 - 130%	84
	P5	SE218834.079	%	60 - 130%	116
	DDS2	SE218834.082	%	60 - 130%	85
	DDS3	SE218834.083	%	60 - 130%	81
	DDS1	SE218834.084	%	60 - 130%	84
	TS1	SE218834.086	%	60 - 130%	83
	TS2	SE218834.088	%	60 - 130%	86
d8-toluene (Surrogate)	TP36	SE218834.040	%	60 - 130%	106
	TP36	SE218834.041	%	60 - 130%	97
	TP37	SE218834.042	%	60 - 130%	119
	TP37	SE218834.043	%	60 - 130%	101
	TP46	SE218834.052	%	60 - 130%	99
	B1	SE218834.061	%	60 - 130%	85
	B2	SE218834.062	%	60 - 130%	85
	B3	SE218834.063	%	60 - 130%	106
	B4	SE218834.064	%	60 - 130%	115
	B5	SE218834.065	%	60 - 130%	119
	B6	SE218834.066	%	60 - 130%	81
	B7	SE218834.067	%	60 - 130%	86
	B8	SE218834.068	%	60 - 130%	113
	B9	SE218834.069	%	60 - 130%	86
	B10	SE218834.070	%	60 - 130%	79
	P1	SE218834.071	%	60 - 130%	86
	P2	SE218834.073	%	60 - 130%	79
	P2	SE218834.074	%	60 - 130%	104
	P3	SE218834.075	%	60 - 130%	112
	P4	SE218834.077	%	60 - 130%	82
	P5	SE218834.079	%	60 - 130%	115
	DDS2	SE218834.082	%	60 - 130%	82
	DDS3	SE218834.083	%	60 - 130%	81
	DDS1	SE218834.084	%	60 - 130%	80
	TS1	SE218834.086	%	60 - 130%	82
	TS2	SE218834.088	%	60 - 130%	86

VOCs in Water

Method: ME-(AU)-[ENV]AN433

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	RS1	SE218834.085	%	40 - 130%	104
	RS2	SE218834.087	%	40 - 130%	105
d4-1,2-dichloroethane (Surrogate)	RS1	SE218834.085	%	40 - 130%	106
	RS2	SE218834.087	%	40 - 130%	108

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

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VOCs in Water (continued)

Method: ME-(AU)-[ENV]AN433

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
d8-toluene (Surrogate)	RS1	SE218834.085	%	40 - 130%	103
	RS2	SE218834.087	%	40 - 130%	105

Volatile Petroleum Hydrocarbons in Soil

Method: ME-(AU)-[ENV]AN433

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	TP36	SE218834.040	%	60 - 130%	108
	TP36	SE218834.041	%	60 - 130%	99
	TP37	SE218834.042	%	60 - 130%	98
	TP37	SE218834.043	%	60 - 130%	103
	TP46	SE218834.052	%	60 - 130%	100
	B1	SE218834.061	%	60 - 130%	85
	B2	SE218834.062	%	60 - 130%	81
	B3	SE218834.063	%	60 - 130%	104
	B4	SE218834.064	%	60 - 130%	113
	B5	SE218834.065	%	60 - 130%	117
	B6	SE218834.066	%	60 - 130%	78
	B7	SE218834.067	%	60 - 130%	81
	B8	SE218834.068	%	60 - 130%	110
	B9	SE218834.069	%	60 - 130%	80
	B10	SE218834.070	%	60 - 130%	73
	P1	SE218834.071	%	60 - 130%	77
	P2	SE218834.073	%	60 - 130%	75
	P2	SE218834.074	%	60 - 130%	102
	P3	SE218834.075	%	60 - 130%	108
	P4	SE218834.077	%	60 - 130%	74
	P5	SE218834.079	%	60 - 130%	111
d4-1,2-dichloroethane (Surrogate)	DDS2	SE218834.082	%	60 - 130%	77
	DDS3	SE218834.083	%	60 - 130%	75
	DDS1	SE218834.084	%	60 - 130%	78
	TP36	SE218834.040	%	60 - 130%	115
	TP36	SE218834.041	%	60 - 130%	105
	TP37	SE218834.042	%	60 - 130%	104
	TP37	SE218834.043	%	60 - 130%	108
	TP46	SE218834.052	%	60 - 130%	106
	B1	SE218834.061	%	60 - 130%	90
	B2	SE218834.062	%	60 - 130%	87
d8-toluene (Surrogate)	B3	SE218834.063	%	60 - 130%	107
	B4	SE218834.064	%	60 - 130%	115
	B5	SE218834.065	%	60 - 130%	120
	B6	SE218834.066	%	60 - 130%	83
	B7	SE218834.067	%	60 - 130%	88
	B8	SE218834.068	%	60 - 130%	114
	B9	SE218834.069	%	60 - 130%	87
	B10	SE218834.070	%	60 - 130%	80
	P1	SE218834.071	%	60 - 130%	87
	P2	SE218834.073	%	60 - 130%	82
	P2	SE218834.074	%	60 - 130%	105
	P3	SE218834.075	%	60 - 130%	112
	P4	SE218834.077	%	60 - 130%	84
	P5	SE218834.079	%	60 - 130%	116
	DDS2	SE218834.082	%	60 - 130%	85
	DDS3	SE218834.083	%	60 - 130%	81
	DDS1	SE218834.084	%	60 - 130%	84
	TP36	SE218834.040	%	60 - 130%	106
	TP36	SE218834.041	%	60 - 130%	97
	TP37	SE218834.042	%	60 - 130%	119
	TP37	SE218834.043	%	60 - 130%	101
	TP46	SE218834.052	%	60 - 130%	99
	B1	SE218834.061	%	60 - 130%	85
	B2	SE218834.062	%	60 - 130%	85
	B3	SE218834.063	%	60 - 130%	106

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

Volatile Petroleum Hydrocarbons in Soil (continued)

Method: ME-(AU)-[ENV]AN433

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
d8-toluene (Surrogate)	B4	SE218834.064	%	60 - 130%	115
	B5	SE218834.065	%	60 - 130%	119
	B6	SE218834.066	%	60 - 130%	81
	B7	SE218834.067	%	60 - 130%	86
	B8	SE218834.068	%	60 - 130%	113
	B9	SE218834.069	%	60 - 130%	86
	B10	SE218834.070	%	60 - 130%	79
	P1	SE218834.071	%	60 - 130%	86
	P2	SE218834.073	%	60 - 130%	79
	P2	SE218834.074	%	60 - 130%	104
	P3	SE218834.075	%	60 - 130%	112
	P4	SE218834.077	%	60 - 130%	82
	P5	SE218834.079	%	60 - 130%	115
	DDS2	SE218834.082	%	60 - 130%	82
	DDS3	SE218834.083	%	60 - 130%	81
	DDS1	SE218834.084	%	60 - 130%	80

Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-[ENV]AN433

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	RS1	SE218834.085	%	40 - 130%	104
	RS2	SE218834.087	%	40 - 130%	105
d4-1,2-dichloroethane (Surrogate)	RS1	SE218834.085	%	60 - 130%	106
	RS2	SE218834.087	%	60 - 130%	108
d8-toluene (Surrogate)	RS1	SE218834.085	%	40 - 130%	103
	RS2	SE218834.087	%	40 - 130%	105

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

Exchangeable Cations and Cation Exchange Capacity (CEC/ESP/SAR)

Method: ME-(AU)-[ENV]AN122

Sample Number	Parameter	Units	LOR	Result
LB223284.001	Exchangeable Sodium, Na	mg/kg	2	0
	Exchangeable Potassium, K	mg/kg	2	0
	Exchangeable Calcium, Ca	mg/kg	2	0
	Exchangeable Magnesium, Mg	mg/kg	2	0

Mercury (dissolved) in Water

Method: ME-(AU)-[ENV]AN311(Perth)/AN312

Sample Number	Parameter	Units	LOR	Result
LB223193.001	Mercury	mg/L	0.00005	<5e-005

Mercury in Soil

Method: ME-(AU)-[ENV]AN312

Sample Number	Parameter	Units	LOR	Result
LB223291.001	Mercury	mg/kg	0.05	<0.05
LB223292.001	Mercury	mg/kg	0.05	<0.05
LB223293.001	Mercury	mg/kg	0.05	<0.05
LB223294.001	Mercury	mg/kg	0.05	<0.05
LB223304.001	Mercury	mg/kg	0.05	<0.05

Metals in Water (Dissolved) by ICPOES

Method: ME-(AU)-[ENV]AN320

Sample Number	Parameter	Units	LOR	Result
LB223115.001	Arsenic, As	mg/L	0.02	<0.020
	Cadmium, Cd	mg/L	0.001	<0.001
	Chromium, Cr	mg/L	0.005	<0.005
	Copper, Cu	mg/L	0.005	<0.005
	Lead, Pb	mg/L	0.02	<0.02
	Manganese, Mn	mg/L	0.005	<0.005
	Nickel, Ni	mg/L	0.005	<0.005
	Zinc, Zn	mg/L	0.01	<0.01

OC Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

Sample Number	Parameter	Units	LOR	Result
LB223164.001	Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1
	Alpha BHC	mg/kg	0.1	<0.1
	Lindane	mg/kg	0.1	<0.1
	Heptachlor	mg/kg	0.1	<0.1
	Aldrin	mg/kg	0.1	<0.1
	Beta BHC	mg/kg	0.1	<0.1
	Delta BHC	mg/kg	0.1	<0.1
	Heptachlor epoxide	mg/kg	0.1	<0.1
	Alpha Endosulfan	mg/kg	0.2	<0.2
	Gamma Chlordane	mg/kg	0.1	<0.1
	Alpha Chlordane	mg/kg	0.1	<0.1
	p,p'-DDE	mg/kg	0.1	<0.1
	Dieldrin	mg/kg	0.05	<0.05
	Endrin	mg/kg	0.2	<0.2
	Beta Endosulfan	mg/kg	0.2	<0.2
	p,p'-DDD	mg/kg	0.1	<0.1
	p,p'-DDT	mg/kg	0.1	<0.1
	Endosulfan sulphate	mg/kg	0.1	<0.1
	Endrin Aldehyde	mg/kg	0.1	<0.1
	Methoxychlor	mg/kg	0.1	<0.1
	Endrin Ketone	mg/kg	0.1	<0.1
	Isodrin	mg/kg	0.1	<0.1
	Mirex	mg/kg	0.1	<0.1
LB223165.001	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	%	107
	Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1
LB223165.001	Alpha BHC	mg/kg	0.1	<0.1
	Lindane	mg/kg	0.1	<0.1
	Heptachlor	mg/kg	0.1	<0.1
	Aldrin	mg/kg	0.1	<0.1
	Beta BHC	mg/kg	0.1	<0.1
	Delta BHC	mg/kg	0.1	<0.1

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

OC Pesticides in Soil (continued)

Method: ME-(AU)-ENVJAN420

Sample Number	Parameter	Units	LOR	Result
LB223165.001	Heptachlor epoxide	mg/kg	0.1	<0.1
	Alpha Endosulfan	mg/kg	0.2	<0.2
	Gamma Chlordane	mg/kg	0.1	<0.1
	Alpha Chlordane	mg/kg	0.1	<0.1
	p,p'-DDE	mg/kg	0.1	<0.1
	Dieldrin	mg/kg	0.05	0.06
	Endrin	mg/kg	0.2	<0.2
	Beta Endosulfan	mg/kg	0.2	<0.2
	p,p'-DDD	mg/kg	0.1	<0.1
	p,p'-DDT	mg/kg	0.1	<0.1
	Endosulfan sulphate	mg/kg	0.1	<0.1
	Endrin Aldehyde	mg/kg	0.1	<0.1
	Methoxychlor	mg/kg	0.1	<0.1
	Endrin Ketone	mg/kg	0.1	<0.1
	Isodrin	mg/kg	0.1	<0.1
	Mirex	mg/kg	0.1	<0.1
Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	92
LB223176.001	Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1
	Alpha BHC	mg/kg	0.1	<0.1
	Lindane	mg/kg	0.1	<0.1
	Heptachlor	mg/kg	0.1	<0.1
	Aldrin	mg/kg	0.1	<0.1
	Beta BHC	mg/kg	0.1	<0.1
	Delta BHC	mg/kg	0.1	<0.1
	Heptachlor epoxide	mg/kg	0.1	<0.1
	Alpha Endosulfan	mg/kg	0.2	<0.2
	Gamma Chlordane	mg/kg	0.1	<0.1
	Alpha Chlordane	mg/kg	0.1	<0.1
	p,p'-DDE	mg/kg	0.1	<0.1
	Dieldrin	mg/kg	0.05	<0.05
	Endrin	mg/kg	0.2	<0.2
	Beta Endosulfan	mg/kg	0.2	<0.2
	p,p'-DDD	mg/kg	0.1	<0.1
	p,p'-DDT	mg/kg	0.1	<0.1
	Endosulfan sulphate	mg/kg	0.1	<0.1
	Endrin Aldehyde	mg/kg	0.1	<0.1
	Methoxychlor	mg/kg	0.1	<0.1
	Endrin Ketone	mg/kg	0.1	<0.1
	Isodrin	mg/kg	0.1	<0.1
	Mirex	mg/kg	0.1	<0.1
Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	93

OC Pesticides in Water

Method: ME-(AU)-ENVJAN420

Sample Number	Parameter	Units	LOR	Result
LB223192.001	Hexachlorobenzene (HCB)	µg/L	0.1	<0.1
	Alpha BHC	µg/L	0.1	<0.1
	Lindane (gamma BHC)	µg/L	0.1	<0.1
	Heptachlor	µg/L	0.1	<0.1
	Aldrin	µg/L	0.1	<0.1
	Beta BHC	µg/L	0.1	<0.1
	Delta BHC	µg/L	0.1	<0.1
	Heptachlor epoxide	µg/L	0.1	<0.1
	Alpha Endosulfan	µg/L	0.1	<0.1
	Gamma Chlordane	µg/L	0.1	<0.1
	Alpha Chlordane	µg/L	0.1	<0.1
	p,p'-DDE	µg/L	0.1	<0.1
	Dieldrin	µg/L	0.1	<0.1
	Endrin	µg/L	0.1	<0.1
	Beta Endosulfan	µg/L	0.1	<0.1
	p,p'-DDD	µg/L	0.1	<0.1
	p,p'-DDT	µg/L	0.1	<0.1

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

OC Pesticides in Water (continued)

Method: ME-(AU)-[ENV]JAN420

Sample Number	Parameter	Units	LOR	Result
LB223192.001	Endosulfan sulphate	µg/L	0.1	<0.1
	Endrin aldehyde	µg/L	0.1	<0.1
	Methoxychlor	µg/L	0.1	<0.1
	Endrin ketone	µg/L	0.1	<0.1
	Isodrin	µg/L	0.1	<0.1
	Mirex	µg/L	0.1	<0.1
Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	75

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]JAN420

Sample Number	Parameter	Units	LOR	Result
LB223164.001	Naphthalene	mg/kg	0.1	<0.1
	2-methylnaphthalene	mg/kg	0.1	<0.1
	1-methylnaphthalene	mg/kg	0.1	<0.1
	Acenaphthylene	mg/kg	0.1	<0.1
	Acenaphthene	mg/kg	0.1	<0.1
	Fluorene	mg/kg	0.1	<0.1
	Phenanthrene	mg/kg	0.1	<0.1
	Anthracene	mg/kg	0.1	<0.1
	Fluoranthene	mg/kg	0.1	<0.1
	Pyrene	mg/kg	0.1	<0.1
	Benzo(a)anthracene	mg/kg	0.1	<0.1
	Chrysene	mg/kg	0.1	<0.1
	Benzo(a)pyrene	mg/kg	0.1	<0.1
	Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1
	Dibenzo(ah)anthracene	mg/kg	0.1	<0.1
	Benzo(ghi)perylene	mg/kg	0.1	<0.1
	Total PAH (18)	mg/kg	0.8	<0.8
Surrogates	d5-nitrobenzene (Surrogate)	%	-	106
	2-fluorobiphenyl (Surrogate)	%	-	102
	d14-p-terphenyl (Surrogate)	%	-	106
LB223165.001	Naphthalene	mg/kg	0.1	<0.1
	2-methylnaphthalene	mg/kg	0.1	<0.1
	1-methylnaphthalene	mg/kg	0.1	<0.1
	Acenaphthylene	mg/kg	0.1	<0.1
	Acenaphthene	mg/kg	0.1	<0.1
	Fluorene	mg/kg	0.1	<0.1
	Phenanthrene	mg/kg	0.1	<0.1
	Anthracene	mg/kg	0.1	<0.1
	Fluoranthene	mg/kg	0.1	<0.1
	Pyrene	mg/kg	0.1	<0.1
	Benzo(a)anthracene	mg/kg	0.1	<0.1
	Chrysene	mg/kg	0.1	<0.1
	Benzo(a)pyrene	mg/kg	0.1	<0.1
	Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1
	Dibenzo(ah)anthracene	mg/kg	0.1	<0.1
	Benzo(ghi)perylene	mg/kg	0.1	<0.1
	Total PAH (18)	mg/kg	0.8	<0.8
Surrogates	d5-nitrobenzene (Surrogate)	%	-	93
	2-fluorobiphenyl (Surrogate)	%	-	104
	d14-p-terphenyl (Surrogate)	%	-	107

PAH (Polynuclear Aromatic Hydrocarbons) in Water

Method: ME-(AU)-[ENV]JAN420

Sample Number	Parameter	Units	LOR	Result
LB223192.001	Naphthalene	µg/L	0.1	<0.1
	2-methylnaphthalene	µg/L	0.1	<0.1
	1-methylnaphthalene	µg/L	0.1	<0.1
	Acenaphthylene	µg/L	0.1	<0.1
	Acenaphthene	µg/L	0.1	<0.1
	Fluorene	µg/L	0.1	<0.1
	Phenanthrene	µg/L	0.1	<0.1
	Anthracene	µg/L	0.1	<0.1
	Fluoranthene	µg/L	0.1	<0.1

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

PAH (Polynuclear Aromatic Hydrocarbons) in Water (continued)

Method: ME-(AU)-[ENV]AN420

Sample Number	Parameter	Units	LOR	Result
LB223192.001	Pyrene	µg/L	0.1	<0.1
	Benzo(a)anthracene	µg/L	0.1	<0.1
	Chrysene	µg/L	0.1	<0.1
	Benzo(b&j&k)fluoranthene	µg/L	0.2	<0.2
	Benzo(a)pyrene	µg/L	0.1	<0.1
	Indeno(1,2,3-cd)pyrene	µg/L	0.1	<0.1
	Dibenzo(ah)anthracene	µg/L	0.1	<0.1
	Benzo(ghi)perylene	µg/L	0.1	<0.1
	Surrogates			
	d5-nitrobenzene (Surrogate)	%	-	52
	2-fluorobiphenyl (Surrogate)	%	-	66
	d14-p-terphenyl (Surrogate)	%	-	94

PCBs in Soil

Method: ME-(AU)-[ENV]AN420

Sample Number	Parameter	Units	LOR	Result
LB223164.001	Arochlor 1016	mg/kg	0.2	<0.2
	Arochlor 1221	mg/kg	0.2	<0.2
	Arochlor 1232	mg/kg	0.2	<0.2
	Arochlor 1242	mg/kg	0.2	<0.2
	Arochlor 1248	mg/kg	0.2	<0.2
	Arochlor 1254	mg/kg	0.2	<0.2
	Arochlor 1260	mg/kg	0.2	<0.2
	Arochlor 1262	mg/kg	0.2	<0.2
	Arochlor 1268	mg/kg	0.2	<0.2
	Total PCBs (Arochlors)	mg/kg	1	<1
Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	107
LB223165.001	Arochlor 1016	mg/kg	0.2	<0.2
	Arochlor 1221	mg/kg	0.2	<0.2
	Arochlor 1232	mg/kg	0.2	<0.2
	Arochlor 1242	mg/kg	0.2	<0.2
	Arochlor 1248	mg/kg	0.2	<0.2
	Arochlor 1254	mg/kg	0.2	<0.2
	Arochlor 1260	mg/kg	0.2	<0.2
	Arochlor 1262	mg/kg	0.2	<0.2
	Arochlor 1268	mg/kg	0.2	<0.2
	Total PCBs (Arochlors)	mg/kg	1	<1
Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	92

PCBs in Water

Method: ME-(AU)-[ENV]AN420

Sample Number	Parameter	Units	LOR	Result
LB223192.001	Arochlor 1016	µg/L	1	<1
	Arochlor 1221	µg/L	1	<1
	Arochlor 1232	µg/L	1	<1
	Arochlor 1242	µg/L	1	<1
	Arochlor 1248	µg/L	1	<1
	Arochlor 1254	µg/L	1	<1
	Arochlor 1260	µg/L	1	<1
	Arochlor 1262	µg/L	1	<1
	Arochlor 1268	µg/L	1	<1

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES

Method: ME-(AU)-[ENV]AN040/AN320

Sample Number	Parameter	Units	LOR	Result
LB223287.001	Arsenic, As	mg/kg	1	<1
	Cadmium, Cd	mg/kg	0.3	<0.3
	Chromium, Cr	mg/kg	0.5	<0.5
	Copper, Cu	mg/kg	0.5	<0.5
	Manganese, Mn	mg/kg	1	<1
	Nickel, Ni	mg/kg	0.5	<0.5
	Lead, Pb	mg/kg	1	<1
	Zinc, Zn	mg/kg	2	<2
LB223288.001	Arsenic, As	mg/kg	1	<1
	Cadmium, Cd	mg/kg	0.3	<0.3
	Chromium, Cr	mg/kg	0.5	<0.5

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES (continued)

Method: ME-(AU)-[ENV]AN040/AN320

Sample Number	Parameter	Units	LOR	Result
LB223288.001	Copper, Cu	mg/kg	0.5	<0.5
	Manganese, Mn	mg/kg	1	<1
	Nickel, Ni	mg/kg	0.5	<0.5
	Lead, Pb	mg/kg	1	<1
	Zinc, Zn	mg/kg	2	<2
LB223289.001	Arsenic, As	mg/kg	1	<1
	Cadmium, Cd	mg/kg	0.3	<0.3
	Chromium, Cr	mg/kg	0.5	<0.5
	Copper, Cu	mg/kg	0.5	<0.5
	Manganese, Mn	mg/kg	1	<1
	Nickel, Ni	mg/kg	0.5	<0.5
	Lead, Pb	mg/kg	1	<1
	Zinc, Zn	mg/kg	2	<2
LB223290.001	Arsenic, As	mg/kg	1	<1
	Cadmium, Cd	mg/kg	0.3	<0.3
	Chromium, Cr	mg/kg	0.5	<0.5
	Copper, Cu	mg/kg	0.5	<0.5
	Manganese, Mn	mg/kg	1	<1
	Nickel, Ni	mg/kg	0.5	<0.5
	Lead, Pb	mg/kg	1	<1
	Zinc, Zn	mg/kg	2	<2
LB223303.001	Arsenic, As	mg/kg	1	<1
	Cadmium, Cd	mg/kg	0.3	<0.3
	Chromium, Cr	mg/kg	0.5	<0.5
	Copper, Cu	mg/kg	0.5	<0.5
	Manganese, Mn	mg/kg	1	<1
	Nickel, Ni	mg/kg	0.5	<0.5
	Lead, Pb	mg/kg	1	<1
	Zinc, Zn	mg/kg	2	<2

TRH (Total Recoverable Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN403

Sample Number	Parameter	Units	LOR	Result
LB223164.001	TRH C10-C14	mg/kg	20	<20
	TRH C15-C28	mg/kg	45	<45
	TRH C29-C36	mg/kg	45	<45
	TRH C37-C40	mg/kg	100	<100
	TRH C10-C36 Total	mg/kg	110	<110
LB223165.001	TRH C10-C14	mg/kg	20	<20
	TRH C15-C28	mg/kg	45	<45
	TRH C29-C36	mg/kg	45	<45
	TRH C37-C40	mg/kg	100	<100
	TRH C10-C36 Total	mg/kg	110	<110

TRH (Total Recoverable Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN403

Sample Number	Parameter	Units	LOR	Result
LB223192.001	TRH C10-C14	µg/L	50	<50
	TRH C15-C28	µg/L	200	<200
	TRH C29-C36	µg/L	200	<200
	TRH C37-C40	µg/L	200	<200

VOC's in Soil

Method: ME-(AU)-[ENV]AN433

Sample Number	Parameter	Units	LOR	Result
LB223163.001	Monocyclic Aromatic Hydrocarbons	Benzene	mg/kg	<0.1
		Toluene	mg/kg	<0.1
		Ethylbenzene	mg/kg	<0.1
		m/p-xylene	mg/kg	<0.2
		o-xylene	mg/kg	<0.1
	Polycyclic VOCs	Naphthalene	mg/kg	<0.1
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-
		d8-toluene (Surrogate)	%	-
		Bromofluorobenzene (Surrogate)	%	-
	Totals	Total BTEX	mg/kg	0.6

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

VOC's in Soil (continued)

Method: ME-(AU)-[ENV]AN433

Sample Number		Parameter	Units	LOR	Result
LB223166.001	Monocyclic Aromatic Hydrocarbons	Benzene	mg/kg	0.1	<0.1
		Toluene	mg/kg	0.1	<0.1
		Ethylbenzene	mg/kg	0.1	<0.1
		m/p-xylene	mg/kg	0.2	<0.2
		o-xylene	mg/kg	0.1	<0.1
	Polycyclic VOCs	Naphthalene	mg/kg	0.1	<0.1
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	120
		d8-toluene (Surrogate)	%	-	111
		Bromofluorobenzene (Surrogate)	%	-	111
	Totals	Total BTEX	mg/kg	0.6	<0.6

VOCs in Water

Method: ME-(AU)-[ENV]AN433

Sample Number		Parameter	Units	LOR	Result
LB223168.001	Monocyclic Aromatic Hydrocarbons	Benzene	µg/L	0.5	<0.5
		Toluene	µg/L	0.5	<0.5
		Ethylbenzene	µg/L	0.5	<0.5
		m/p-xylene	µg/L	1	<1
		o-xylene	µg/L	0.5	<0.5
	Polycyclic VOCs	Naphthalene	µg/L	0.5	<0.5
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	97
		d8-toluene (Surrogate)	%	-	98
		Bromofluorobenzene (Surrogate)	%	-	111

Volatile Petroleum Hydrocarbons in Soil

Method: ME-(AU)-[ENV]AN433

Sample Number		Parameter	Units	LOR	Result
LB223163.001		TRH C6-C9	mg/kg	20	<20
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	99
LB223166.001		TRH C6-C9	mg/kg	20	<20
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	120

Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-[ENV]AN433

Sample Number		Parameter	Units	LOR	Result
LB223168.001		TRH C6-C9	µg/L	40	<40
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	97
		d8-toluene (Surrogate)	%	-	98
		Bromofluorobenzene (Surrogate)	%	-	111

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: $RPD = | \text{OriginalResult} - \text{ReplicateResult} | \times 100 / \text{Mean}$

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: $MAD = 100 \times \text{SDL} / \text{Mean} + \text{LR}$

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

Mercury (dissolved) in Water

Method: ME-(AU)-[ENV]AN311(Porth)/AN312

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE218885.003	LB223193.014	Mercury	µg/L	0.00005	<0.00005	<0.00005	200	0

Mercury in Soil

Method: ME-(AU)-[ENV]AN312

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE218776.005	LB223304.024	Mercury	mg/kg	0.05	<0.05	<0.05	156	0
SE218834.010	LB223291.014	Mercury	mg/kg	0.05	<0.05	0.05	131	6
SE218834.019	LB223291.024	Mercury	mg/kg	0.05	<0.05	<0.05	194	0
SE218834.029	LB223292.014	Mercury	mg/kg	0.05	<0.05	<0.05	200	0
SE218834.038	LB223292.024	Mercury	mg/kg	0.05	<0.05	<0.05	196	0
SE218834.048	LB223293.014	Mercury	mg/kg	0.05	<0.05	<0.05	200	0
SE218834.057	LB223293.024	Mercury	mg/kg	0.05	<0.05	<0.05	200	0
SE218834.067	LB223294.014	Mercury	mg/kg	0.05	<0.05	<0.05	200	0
SE218834.076	LB223294.024	Mercury	mg/kg	0.05	<0.05	<0.05	200	0
SE218834.078	LB223304.014	Mercury	mg/kg	0.05	<0.05	<0.05	200	0

Moisture Content

Method: ME-(AU)-[ENV]AN002

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE218811.001	LB223207.011	% Moisture	%w/w	1	1.8	2.2	80	19
SE218834.003	LB223207.022	% Moisture	%w/w	1	12.9	10.6	39	20
SE218834.013	LB223207.033	% Moisture	%w/w	1	14.8	14.2	37	4
SE218834.023	LB223203.011	% Moisture	%w/w	1	20.8	19.4	35	7
SE218834.033	LB223203.022	% Moisture	%w/w	1	14.0	14.3	37	2
SE218834.043	LB223203.033	% Moisture	%w/w	1	24.4	25.6	34	5
SE218834.053	LB223203.044	% Moisture	%w/w	1	13.8	13.9	37	1
SE218834.055	LB223203.047	% Moisture	%w/w	1	16.4	10.0	38	48 Ⓢ
SE218834.065	LB223204.011	% Moisture	%w/w	1	6.0	6.1	46	1
SE218834.075	LB223204.022	% Moisture	%w/w	1	6.6	7.0	45	6
SE218834.084	LB223204.032	% Moisture	%w/w	1	21.7	21.7	35	0

OC Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE218834.003	LB223176.031	Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	200	0
		Alpha BHC	mg/kg	0.1	<0.1	<0.1	200	0
		Lindane	mg/kg	0.1	<0.1	<0.1	200	0
		Heptachlor	mg/kg	0.1	<0.1	<0.1	200	0
		Aldrin	mg/kg	0.1	<0.1	<0.1	200	0
		Beta BHC	mg/kg	0.1	<0.1	<0.1	200	0
		Delta BHC	mg/kg	0.1	<0.1	<0.1	200	0
		Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	200	0
		o,p'-DDE	mg/kg	0.1	<0.1	<0.1	200	0
		Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0
		Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	200	0
		Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	200	0
		trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	200	0
		p,p'-DDE	mg/kg	0.1	<0.1	<0.1	168	0
		Dieldrin	mg/kg	0.05	<0.05	<0.05	200	0
		Endrin	mg/kg	0.2	<0.2	<0.2	200	0
		o,p'-DDD	mg/kg	0.1	<0.1	<0.1	200	0
		o,p'-DDT	mg/kg	0.1	<0.1	<0.1	200	0
		Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0
		p,p'-DDD	mg/kg	0.1	<0.1	<0.1	200	0
		p,p'-DDT	mg/kg	0.1	<0.1	<0.1	200	0
		Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	200	0
		Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	200	0
		Methoxychlor	mg/kg	0.1	<0.1	<0.1	200	0
		Endrin Ketone	mg/kg	0.1	<0.1	<0.1	200	0
		Isodrin	mg/kg	0.1	<0.1	<0.1	200	0
		Mirex	mg/kg	0.1	<0.1	<0.1	200	0
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.14	0.14	30	0
SE218834.011	LB223176.025	Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: $RPD = | \text{OriginalResult} - \text{ReplicateResult} | \times 100 / \text{Mean}$

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: $MAD = 100 \times \text{SDL} / \text{Mean} + \text{LR}$

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

OC Pesticides in Soil (continued)

Method: ME-(AU)-ENVJAN420

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %		
SE218834.011	LB223176.025	Alpha BHC	mg/kg	0.1	<0.1	<0.1	200	0		
		Lindane	mg/kg	0.1	<0.1	<0.1	200	0		
		Heptachlor	mg/kg	0.1	<0.1	<0.1	200	0		
		Aldrin	mg/kg	0.1	<0.1	<0.1	200	0		
		Beta BHC	mg/kg	0.1	<0.1	<0.1	200	0		
		Delta BHC	mg/kg	0.1	<0.1	<0.1	200	0		
		Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	200	0		
		o,p'-DDE	mg/kg	0.1	<0.1	<0.1	200	0		
		Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0		
		Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	200	0		
		Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	200	0		
		trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	200	0		
		p,p'-DDE	mg/kg	0.1	<0.1	<0.1	200	0		
		Dieldrin	mg/kg	0.05	<0.05	<0.05	200	0		
		Endrin	mg/kg	0.2	<0.2	<0.2	200	0		
		o,p'-DDD	mg/kg	0.1	<0.1	<0.1	200	0		
		o,p'-DDT	mg/kg	0.1	<0.1	<0.1	200	0		
		Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0		
		p,p'-DDD	mg/kg	0.1	<0.1	<0.1	200	0		
		p,p'-DDT	mg/kg	0.1	<0.1	<0.1	200	0		
		Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	200	0		
		Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	200	0		
		Methoxychlor	mg/kg	0.1	<0.1	<0.1	200	0		
		Endrin Ketone	mg/kg	0.1	<0.1	<0.1	200	0		
		Isodrin	mg/kg	0.1	<0.1	<0.1	200	0		
		Mirex	mg/kg	0.1	<0.1	<0.1	200	0		
			Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.14	0.14	30	1
		SE218834.039	LB223165.014	Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	200	0
				Alpha BHC	mg/kg	0.1	<0.1	<0.1	200	0
	Lindane			mg/kg	0.1	<0.1	<0.1	200	0	
Heptachlor	mg/kg			0.1	<0.1	<0.1	200	0		
Aldrin	mg/kg			0.1	<0.1	<0.1	200	0		
Beta BHC	mg/kg			0.1	<0.1	<0.1	200	0		
Delta BHC	mg/kg			0.1	<0.1	<0.1	194	0		
Heptachlor epoxide	mg/kg			0.1	<0.1	<0.1	200	0		
o,p'-DDE	mg/kg			0.1	<0.1	<0.1	200	0		
Alpha Endosulfan	mg/kg			0.2	<0.2	<0.2	200	0		
Gamma Chlordane	mg/kg			0.1	<0.1	<0.1	200	0		
Alpha Chlordane	mg/kg			0.1	<0.1	<0.1	199	0		
trans-Nonachlor	mg/kg			0.1	<0.1	<0.1	200	0		
p,p'-DDE	mg/kg			0.1	<0.1	<0.1	200	0		
Dieldrin	mg/kg			0.05	0.07	0.07	181	0		
Endrin	mg/kg			0.2	<0.2	<0.2	200	0		
o,p'-DDD	mg/kg			0.1	<0.1	<0.1	200	0		
o,p'-DDT	mg/kg			0.1	<0.1	<0.1	200	0		
Beta Endosulfan	mg/kg			0.2	<0.2	<0.2	175	0		
p,p'-DDD	mg/kg			0.1	<0.1	<0.1	200	0		
p,p'-DDT	mg/kg			0.1	<0.1	<0.1	200	0		
Endosulfan sulphate	mg/kg			0.1	<0.1	<0.1	160	0		
Endrin Aldehyde	mg/kg			0.1	<0.1	<0.1	200	0		
Methoxychlor	mg/kg			0.1	<0.1	<0.1	200	0		
Endrin Ketone	mg/kg			0.1	<0.1	<0.1	200	0		
Isodrin	mg/kg			0.1	<0.1	<0.1	200	0		
Mirex	mg/kg			0.1	<0.1	<0.1	200	0		
	Surrogates			Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.15	0.14	30	8
SE218834.055	LB223165.025		Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	200	0	
		Alpha BHC	mg/kg	0.1	<0.1	<0.1	200	0		
		Lindane	mg/kg	0.1	<0.1	<0.1	200	0		
		Heptachlor	mg/kg	0.1	<0.1	<0.1	200	0		
		Aldrin	mg/kg	0.1	<0.1	<0.1	200	0		
		Beta BHC	mg/kg	0.1	<0.1	<0.1	200	0		

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: $RPD = | \text{OriginalResult} - \text{ReplicateResult} | \times 100 / \text{Mean}$

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: $MAD = 100 \times \text{SDL} / \text{Mean} + \text{LR}$

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

OC Pesticides in Soil (continued)

Method: ME-(AU)-ENVJAN420

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE218834.055	LB223165.025	Delta BHC	mg/kg	0.1	<0.1	<0.1	195	0
		Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	200	0
		o,p'-DDE	mg/kg	0.1	<0.1	<0.1	200	0
		Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0
		Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	200	0
		Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	199	0
		trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	200	0
		p,p'-DDE	mg/kg	0.1	<0.1	<0.1	200	0
		Dieldrin	mg/kg	0.05	0.07	0.07	181	0
		Endrin	mg/kg	0.2	<0.2	<0.2	200	0
		o,p'-DDD	mg/kg	0.1	<0.1	<0.1	200	0
		o,p'-DDT	mg/kg	0.1	<0.1	<0.1	200	0
		Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	175	0
		p,p'-DDD	mg/kg	0.1	<0.1	<0.1	200	0
		p,p'-DDT	mg/kg	0.1	<0.1	<0.1	200	0
		Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	160	0
		Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	200	0
		Methoxychlor	mg/kg	0.1	<0.1	<0.1	200	0
		Endrin Ketone	mg/kg	0.1	<0.1	<0.1	200	0
		Isodrin	mg/kg	0.1	<0.1	<0.1	200	0
		Mirex	mg/kg	0.1	<0.1	<0.1	200	0
		Surrogates						
		Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.13	0.15	30	9
SE218834.071	LB223164.027	Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	200	0
		Alpha BHC	mg/kg	0.1	<0.1	<0.1	200	0
		Lindane	mg/kg	0.1	<0.1	<0.1	200	0
		Heptachlor	mg/kg	0.1	<0.1	<0.1	200	0
		Aldrin	mg/kg	0.1	<0.1	<0.1	200	0
		Beta BHC	mg/kg	0.1	<0.1	<0.1	200	0
		Delta BHC	mg/kg	0.1	<0.1	<0.1	198	0
		Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	200	0
		o,p'-DDE	mg/kg	0.1	<0.1	<0.1	143	0
		Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0
		Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	200	0
		Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	200	0
		trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	200	0
		p,p'-DDE	mg/kg	0.1	<0.1	<0.1	200	0
		Dieldrin	mg/kg	0.05	<0.05	0.05	200	0
		Endrin	mg/kg	0.2	<0.2	<0.2	200	0
		o,p'-DDD	mg/kg	0.1	<0.1	<0.1	200	0
		o,p'-DDT	mg/kg	0.1	<0.1	<0.1	200	0
		Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0
		p,p'-DDD	mg/kg	0.1	<0.1	<0.1	200	0
		p,p'-DDT	mg/kg	0.1	<0.1	<0.1	158	0
		Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	200	0
		Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	200	0
		Methoxychlor	mg/kg	0.1	<0.1	<0.1	200	0
		Endrin Ketone	mg/kg	0.1	<0.1	<0.1	200	0
		Isodrin	mg/kg	0.1	<0.1	<0.1	200	0
		Mirex	mg/kg	0.1	<0.1	<0.1	200	0
		Surrogates						
		Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.17	0.17	30	2
SE218834.084	LB223164.025	Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	198	0
		Alpha BHC	mg/kg	0.1	<0.1	<0.1	174	0
		Lindane	mg/kg	0.1	<0.1	<0.1	182	0
		Heptachlor	mg/kg	0.1	<0.1	<0.1	193	0
		Aldrin	mg/kg	0.1	<0.1	<0.1	194	0
		Beta BHC	mg/kg	0.1	<0.1	<0.1	200	0
		Delta BHC	mg/kg	0.1	<0.1	<0.1	177	0
		Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	200	0
		o,p'-DDE	mg/kg	0.1	<0.1	<0.1	200	0
		Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0
		Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	195	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: $RPD = | \text{OriginalResult} - \text{ReplicateResult} | \times 100 / \text{Mean}$

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: $MAD = 100 \times \text{SDL} / \text{Mean} + \text{LR}$

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

OC Pesticides in Soil (continued)

Method: ME-(AU)-[ENV]JAN420

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE218834.084	LB223164.025	Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	200	0
		trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	200	0
		p,p'-DDE	mg/kg	0.1	<0.1	<0.1	190	0
		Dieldrin	mg/kg	0.05	0.05	0.16	125	0
		Endrin	mg/kg	0.2	<0.2	<0.2	191	0
		o,p'-DDD	mg/kg	0.1	<0.1	<0.1	200	0
		o,p'-DDT	mg/kg	0.1	<0.1	<0.1	150	0
		Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0
		p,p'-DDD	mg/kg	0.1	<0.1	<0.1	200	0
		p,p'-DDT	mg/kg	0.1	<0.1	<0.1	200	0
		Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	200	0
		Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	200	0
		Methoxychlor	mg/kg	0.1	<0.1	<0.1	184	0
		Endrin Ketone	mg/kg	0.1	<0.1	<0.1	200	0
		Isodrin	mg/kg	0.1	<0.1	<0.1	200	0
		Mirex	mg/kg	0.1	<0.1	<0.1	200	0
Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)		mg/kg	-	0.18	0.18	30	4

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]JAN420

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE218834.052	LB223165.027	Naphthalene	mg/kg	0.1	<0.1	<0.1	200	0
		2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
		1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
		Acenaphthylene	mg/kg	0.1	<0.1	<0.1	200	0
		Acenaphthene	mg/kg	0.1	<0.1	<0.1	200	0
		Fluorene	mg/kg	0.1	<0.1	<0.1	200	0
		Phenanthrene	mg/kg	0.1	<0.1	<0.1	200	0
		Anthracene	mg/kg	0.1	<0.1	<0.1	200	0
		Fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
		Pyrene	mg/kg	0.1	<0.1	<0.1	200	0
		Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	200	0
		Chrysene	mg/kg	0.1	<0.1	<0.1	200	0
		Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
		Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
		Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	200	0
		Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	200	0
		Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	200	0
		Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	200	0
		Carcinogenic PAHs, BaP TEQ <LOR=0	mg/kg	0.2	<0.2	<0.2	200	0
		Carcinogenic PAHs, BaP TEQ <LOR=LOR	mg/kg	0.3	<0.3	<0.3	134	0
		Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	mg/kg	0.2	<0.2	<0.2	175	0
		Total PAH (18)	mg/kg	0.8	<0.8	<0.8	200	0
Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.4	0.4	30	18	
	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.4	0.5	30	21	
	d14-p-terphenyl (Surrogate)	mg/kg	-	0.4	0.5	30	24	
SE218834.070	LB223164.014	Naphthalene	mg/kg	0.1	<0.1	<0.1	200	0
		2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
		1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
		Acenaphthylene	mg/kg	0.1	<0.1	<0.1	200	0
		Acenaphthene	mg/kg	0.1	<0.1	<0.1	200	0
		Fluorene	mg/kg	0.1	<0.1	<0.1	200	0
		Phenanthrene	mg/kg	0.1	<0.1	<0.1	187	0
		Anthracene	mg/kg	0.1	<0.1	<0.1	199	0
		Fluoranthene	mg/kg	0.1	0.1	<0.1	137	18
		Pyrene	mg/kg	0.1	0.1	<0.1	137	18
		Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	200	0
		Chrysene	mg/kg	0.1	<0.1	<0.1	200	0
		Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	162	0
		Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	184	0
		Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	200	0
		Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: $RPD = | \text{OriginalResult} - \text{ReplicateResult} | \times 100 / \text{Mean}$

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: $MAD = 100 \times \text{SDL} / \text{Mean} + \text{LR}$

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued)

Method: ME-(AU)-ENVJAN420

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE218834.070	LB223164.014	Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	200	0
		Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	200	0
		Carcinogenic PAHs, BaP TEQ <LOR=0	mg/kg	0.2	<0.2	<0.2	200	0
		Carcinogenic PAHs, BaP TEQ <LOR=LOR	mg/kg	0.3	<0.3	<0.3	134	0
		Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	mg/kg	0.2	<0.2	<0.2	175	0
		Total PAH (18)	mg/kg	0.8	<0.8	<0.8	200	0
		Surrogates						
		d5-nitrobenzene (Surrogate)	mg/kg	-	0.5	0.5	30	6
		2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.6	30	11
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	2
SE218834.084	LB223164.025	Naphthalene	mg/kg	0.1	<0.1	<0.1	200	0
		2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
		1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
		Acenaphthylene	mg/kg	0.1	<0.1	<0.1	200	0
		Acenaphthene	mg/kg	0.1	<0.1	<0.1	200	0
		Fluorene	mg/kg	0.1	<0.1	<0.1	200	0
		Phenanthrene	mg/kg	0.1	<0.1	<0.1	200	0
		Anthracene	mg/kg	0.1	<0.1	<0.1	200	0
		Fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
		Pyrene	mg/kg	0.1	<0.1	<0.1	200	0
		Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	200	0
		Chrysene	mg/kg	0.1	<0.1	<0.1	200	0
		Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
		Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
		Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	200	0
		Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	200	0
		Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	200	0
		Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	200	0
		Carcinogenic PAHs, BaP TEQ <LOR=0	mg/kg	0.2	<0.2	<0.2	200	0
		Carcinogenic PAHs, BaP TEQ <LOR=LOR	mg/kg	0.3	<0.3	<0.3	134	0
		Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	mg/kg	0.2	<0.2	<0.2	175	0
		Total PAH (18)	mg/kg	0.8	<0.8	<0.8	200	0
		Surrogates						
		d5-nitrobenzene (Surrogate)	mg/kg	-	0.5	0.6	30	14
		2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.6	30	14
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.6	30	12

PCBs in Soil

Method: ME-(AU)-ENVJAN420

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE218834.071	LB223164.027	Arochlor 1016	mg/kg	0.2	<0.2	<0.2	200	0
		Arochlor 1221	mg/kg	0.2	<0.2	<0.2	200	0
		Arochlor 1232	mg/kg	0.2	<0.2	<0.2	200	0
		Arochlor 1242	mg/kg	0.2	<0.2	<0.2	200	0
		Arochlor 1248	mg/kg	0.2	<0.2	<0.2	200	0
		Arochlor 1254	mg/kg	0.2	<0.2	<0.2	200	0
		Arochlor 1260	mg/kg	0.2	<0.2	<0.2	200	0
		Arochlor 1262	mg/kg	0.2	<0.2	<0.2	200	0
		Arochlor 1268	mg/kg	0.2	<0.2	<0.2	200	0
		Total PCBs (Arochlors)	mg/kg	1	<1	<1	200	0
SE218834.084	LB223164.025	Surrogates						
		Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0	0	30	2
		Arochlor 1016	mg/kg	0.2	<0.2	<0.2	200	0
		Arochlor 1221	mg/kg	0.2	<0.2	<0.2	200	0
		Arochlor 1232	mg/kg	0.2	<0.2	<0.2	200	0
		Arochlor 1242	mg/kg	0.2	<0.2	<0.2	200	0
		Arochlor 1248	mg/kg	0.2	<0.2	<0.2	200	0
		Arochlor 1254	mg/kg	0.2	<0.2	<0.2	200	0
		Arochlor 1260	mg/kg	0.2	<0.2	<0.2	200	0
		Arochlor 1262	mg/kg	0.2	<0.2	<0.2	200	0
SE218834.084	LB223164.025	Arochlor 1268	mg/kg	0.2	<0.2	<0.2	200	0
		Total PCBs (Arochlors)	mg/kg	1	<1	<1	200	0
		Surrogates						
		Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0	0	30	4

pH in soil (1:5)

Method: ME-(AU)-ENVJAN101

Original	Duplicate	Parameter	Units	LOR

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: $RPD = | \text{OriginalResult} - \text{ReplicateResult} | \times 100 / \text{Mean}$

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: $MAD = 100 \times \text{SDL} / \text{Mean} + \text{LR}$

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

pH in soil (1:5) (continued)

Method: ME-(AU)-[ENV]JAN101

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE218834.042	LB223249.014	pH	pH Units	0.1	6.1	6.1	32	1
SE218834.074	LB223249.025	pH	pH Units	0.1	5.9	6.0	32	2

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES

Method: ME-(AU)-[ENV]JAN040/AN320

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE218776.005	LB223303.024	Arsenic, As	mg/kg	1	5	5	52	4
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
		Chromium, Cr	mg/kg	0.5	10	7.9	36	24
		Copper, Cu	mg/kg	0.5	26	32	32	24
		Nickel, Ni	mg/kg	0.5	17	27	32	44 @
		Lead, Pb	mg/kg	1	25	21	34	20
		Zinc, Zn	mg/kg	2	73	85	33	16
SE218834.010	LB223287.014	Arsenic, As	mg/kg	1	10	9	40	10
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
		Chromium, Cr	mg/kg	0.5	16	15	33	3
		Copper, Cu	mg/kg	0.5	16	17	33	8
		Manganese, Mn	mg/kg	1	2200	2100	30	7
		Nickel, Ni	mg/kg	0.5	10	10	35	2
		Lead, Pb	mg/kg	1	24	26	34	7
SE218834.019	LB223287.024	Zinc, Zn	mg/kg	2	74	85	33	15
		Arsenic, As	mg/kg	1	11	12	39	2
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
		Chromium, Cr	mg/kg	0.5	11	13	34	16
		Copper, Cu	mg/kg	0.5	19	17	33	6
		Manganese, Mn	mg/kg	1	880	940	30	7
		Nickel, Ni	mg/kg	0.5	9.8	9.7	35	1
SE218834.029	LB223288.014	Lead, Pb	mg/kg	1	14	16	37	17
		Zinc, Zn	mg/kg	2	34	35	36	4
		Arsenic, As	mg/kg	1	8	9	42	3
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
		Chromium, Cr	mg/kg	0.5	14	13	34	6
		Copper, Cu	mg/kg	0.5	14	14	34	6
		Manganese, Mn	mg/kg	1	780	990	30	25
SE218834.038	LB223288.024	Nickel, Ni	mg/kg	0.5	6.4	6.8	38	5
		Lead, Pb	mg/kg	1	18	19	35	6
		Zinc, Zn	mg/kg	2	35	35	36	1
		Arsenic, As	mg/kg	1	11	11	39	0
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
		Chromium, Cr	mg/kg	0.5	13	15	34	14
		Copper, Cu	mg/kg	0.5	16	17	33	10
SE218834.048	LB223289.014	Manganese, Mn	mg/kg	1	1800	1900	30	5
		Nickel, Ni	mg/kg	0.5	11	9.3	35	15
		Lead, Pb	mg/kg	1	20	20	35	3
		Zinc, Zn	mg/kg	2	39	38	35	3
		Arsenic, As	mg/kg	1	6	7	46	16
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
		Chromium, Cr	mg/kg	0.5	11	13	34	18
SE218834.057	LB223289.024	Copper, Cu	mg/kg	0.5	11	10	35	10
		Manganese, Mn	mg/kg	1	3200	2800	30	16
		Nickel, Ni	mg/kg	0.5	5.9	5.8	39	1
		Lead, Pb	mg/kg	1	17	17	36	1
		Zinc, Zn	mg/kg	2	15	15	44	1
		Arsenic, As	mg/kg	1	8	6	45	22
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
SE218834.074	LB223289.025	Chromium, Cr	mg/kg	0.5	14	15	34	8
		Copper, Cu	mg/kg	0.5	14	12	34	16
		Manganese, Mn	mg/kg	1	3700	3000	30	22
		Nickel, Ni	mg/kg	0.5	7.2	6.8	37	5
		Lead, Pb	mg/kg	1	23	19	35	21
		Zinc, Zn	mg/kg	2	20	19	40	3

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: $RPD = | \text{OriginalResult} - \text{ReplicateResult} | \times 100 / \text{Mean}$

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: $MAD = 100 \times \text{SDL} / \text{Mean} + \text{LR}$

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES (continued)

Method: ME-(AU)-[ENV]JAN040/AN320

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE218834.067	LB223290.014	Arsenic, As	mg/kg	1	8	6	44	27
		Cadmium, Cd	mg/kg	0.3	1.3	0.4	64	100 @
		Chromium, Cr	mg/kg	0.5	14	18	33	24
		Copper, Cu	mg/kg	0.5	18	20	33	7
		Manganese, Mn	mg/kg	1	1000	1000	30	4
		Nickel, Ni	mg/kg	0.5	7.9	13	35	48 @
		Lead, Pb	mg/kg	1	27	30	34	11
		Zinc, Zn	mg/kg	2	210	270	31	24
SE218834.076	LB223290.024	Arsenic, As	mg/kg	1	3	2	66	51
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
		Chromium, Cr	mg/kg	0.5	13	11	34	15
		Copper, Cu	mg/kg	0.5	26	19	32	31
		Manganese, Mn	mg/kg	1	110	79	31	34 @
		Nickel, Ni	mg/kg	0.5	12	9.9	34	22
		Lead, Pb	mg/kg	1	11	8	41	27
		Zinc, Zn	mg/kg	2	70	55	33	24
SE218834.078	LB223303.014	Arsenic, As	mg/kg	1	9	9	41	2
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
		Chromium, Cr	mg/kg	0.5	12	14	34	12
		Copper, Cu	mg/kg	0.5	18	17	33	5
		Manganese, Mn	mg/kg	1	150	120	31	20
		Nickel, Ni	mg/kg	0.5	5.6	5.7	39	1
		Lead, Pb	mg/kg	1	16	15	36	11
		Zinc, Zn	mg/kg	2	25	27	38	5

TRH (Total Recoverable Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]JAN403

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE218834.052	LB223165.027	TRH C10-C14	mg/kg	20	<20	<20	200	0
		TRH C15-C28	mg/kg	45	<45	<45	200	0
		TRH C29-C36	mg/kg	45	<45	<45	200	0
		TRH C37-C40	mg/kg	100	<100	<100	200	0
		TRH C10-C36 Total	mg/kg	110	<110	<110	200	0
		TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	200	0
		TRH >C10-C16	mg/kg	25	<25	<25	200	0
		TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	200	0
		TRH >C16-C34 (F3)	mg/kg	90	<90	<90	200	0
		TRH >C34-C40 (F4)	mg/kg	120	<120	<120	200	0
		TRH F Bands	mg/kg	20	59	34	73	54
SE218834.070	LB223164.014	TRH C10-C14	mg/kg	20	200	230	51	14
		TRH C15-C28	mg/kg	45	250	270	48	7
		TRH C29-C36	mg/kg	45	<100	<100	200	0
		TRH C37-C40	mg/kg	100	510	530	51	4
		TRH C10-C36 Total	mg/kg	110	560	560	68	0
		TRH >C10-C40 Total (F bands)	mg/kg	210	560	560	68	0
		TRH >C10-C16	mg/kg	25	76	43	72	55
		TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	76	43	72	55
		TRH >C16-C34 (F3)	mg/kg	90	330	390	55	17
		TRH >C34-C40 (F4)	mg/kg	120	150	120	119	22
		TRH F Bands	mg/kg	20	<20	<20	200	0
SE218834.084	LB223164.025	TRH C10-C14	mg/kg	20	<20	<20	200	0
		TRH C15-C28	mg/kg	45	<45	<45	200	0
		TRH C29-C36	mg/kg	45	<45	<45	200	0
		TRH C37-C40	mg/kg	100	<100	<100	200	0
		TRH C10-C36 Total	mg/kg	110	<110	<110	200	0
		TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	200	0
		TRH >C10-C16	mg/kg	25	<25	<25	200	0
		TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	200	0
		TRH >C16-C34 (F3)	mg/kg	90	<90	<90	200	0
		TRH >C34-C40 (F4)	mg/kg	120	<120	<120	200	0
		TRH F Bands	mg/kg	20	<20	<20	200	0

TRH (Total Recoverable Hydrocarbons) in Water

Method: ME-(AU)-[ENV]JAN403

Original	Duplicate	Parameter	Units	LOR

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: $RPD = | \text{OriginalResult} - \text{ReplicateResult} | \times 100 / \text{Mean}$

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: $MAD = 100 \times \text{SDL} / \text{Mean} + \text{LR}$

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

TRH (Total Recoverable Hydrocarbons) in Water (continued)

Method: ME-(AU)-[ENV]AN403

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE218885.003	LB223192.023	TRH C10-C14	µg/L	50	<50	<50	200	0
		TRH C15-C28	µg/L	200	<200	<200	200	0
		TRH C29-C36	µg/L	200	<200	<200	200	0
		TRH C37-C40	µg/L	200	<200	<200	200	0
		TRH C10-C40	µg/L	320	<320	<320	200	0
		TRH F Bands	µg/L	60	<60	<60	200	0
		TRH >C10-C16	µg/L	60	<60	<60	200	0
		TRH >C10-C16 - Naphthalene (F2)	µg/L	60	<60	<60	200	0
		TRH >C16-C34 (F3)	µg/L	500	<500	<500	200	0
		TRH >C34-C40 (F4)	µg/L	500	<500	<500	200	0

VOC's in Soil

Method: ME-(AU)-[ENV]AN403

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %		
SE218834.052	LB223166.009	Monocyclic	Benzene	mg/kg	0.1	<0.1	<0.1	200	0		
			Aromatic	Toluene	mg/kg	0.1	<0.1	<0.1	200	0	
			Ethylbenzene	mg/kg	0.1	<0.1	<0.1	200	0		
			m/p-xylene	mg/kg	0.2	<0.2	<0.2	200	0		
			o-xylene	mg/kg	0.1	<0.1	<0.1	200	0		
		Polycyclic	Naphthalene	mg/kg	0.1	<0.1	<0.1	200	0		
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	10.6	10.7	50	0		
			d8-toluene (Surrogate)	mg/kg	-	9.9	9.9	50	0		
			Bromofluorobenzene (Surrogate)	mg/kg	-	10.0	10.1	50	1		
		Totals	Total Xylenes	mg/kg	0.3	<0.3	<0.3	200	0		
			Total BTEX	mg/kg	0.6	<0.6	<0.6	200	0		
		SE218834.070	LB223163.015	Monocyclic	Benzene	mg/kg	0.1	<0.1	<0.1	200	0
					Aromatic	Toluene	mg/kg	0.1	<0.1	<0.1	200
					Ethylbenzene	mg/kg	0.1	<0.1	<0.1	200	0
	m/p-xylene			mg/kg	0.2	<0.2	<0.2	200	0		
	o-xylene			mg/kg	0.1	<0.1	<0.1	200	0		
Polycyclic	Naphthalene			mg/kg	0.1	<0.1	<0.1	200	0		
Surrogates	d4-1,2-dichloroethane (Surrogate)			mg/kg	-	8.0	8.4	50	5		
	d8-toluene (Surrogate)			mg/kg	-	7.9	8.3	50	5		
	Bromofluorobenzene (Surrogate)			mg/kg	-	7.3	7.6	50	5		
Totals	Total Xylenes			mg/kg	0.3	<0.3	<0.3	200	0		
	Total BTEX			mg/kg	0.6	<0.6	<0.6	200	0		
SE218834.084	LB223163.032			Monocyclic	Benzene	mg/kg	0.1	<0.1	<0.1	200	0
					Aromatic	Toluene	mg/kg	0.1	<0.1	<0.1	200
					Ethylbenzene	mg/kg	0.1	<0.1	<0.1	200	0
			m/p-xylene	mg/kg	0.2	<0.2	<0.2	200	0		
			o-xylene	mg/kg	0.1	<0.1	<0.1	200	0		
		Polycyclic	Naphthalene	mg/kg	0.1	<0.1	<0.1	200	0		
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.4	7.4	50	12		
			d8-toluene (Surrogate)	mg/kg	-	8.0	7.7	50	4		
			Bromofluorobenzene (Surrogate)	mg/kg	-	7.8	6.4	50	19		
		Totals	Total Xylenes	mg/kg	0.3	<0.3	<0.3	200	0		
			Total BTEX	mg/kg	0.6	<0.6	<0.6	200	0		

VOCs in Water

Method: ME-(AU)-[ENV]AN403

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE218877.005	LB223168.025	Monocyclic Aromatic	Benzene	µg/L	0.5	<0.5	<0.5	200	0
			Toluene	µg/L	0.5	<0.5	<0.5	200	0
			Ethylbenzene	µg/L	0.5	<0.5	<0.5	200	0
			m/p-xylene	µg/L	1	<1	<1	200	0
			o-xylene	µg/L	0.5	<0.5	<0.5	200	0
		Polycyclic	Naphthalene	µg/L	0.5	<0.5	<0.5	200	0
			Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	11	10	30
		d8-toluene (Surrogate)		µg/L	-	11	9.8	30	9
		Bromofluorobenzene (Surrogate)		µg/L	-	11	10	30	6
		SE218885.001	LB223168.023	Monocyclic Aromatic	Benzene	µg/L	0.5	<0.5	<0.5
Toluene	µg/L				0.5	0.7	0.8	100	18
Ethylbenzene	µg/L				0.5	<0.5	<0.5	200	0
m/p-xylene	µg/L				1	<1	<1	200	0
o-xylene	µg/L				0.5	<0.5	<0.5	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: $RPD = | \text{OriginalResult} - \text{ReplicateResult} | \times 100 / \text{Mean}$

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: $MAD = 100 \times \text{SDL} / \text{Mean} + \text{LR}$

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

VOCs in Water (continued)

Method: ME-(AU)-ENVJAN433

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE218885.001	LB223168.023	Polycyclic	Naphthalene	µg/L	0.5	<0.5	<0.5	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	9.6	9.9	30	3
			d8-toluene (Surrogate)	µg/L	-	9.5	10	30	6
			Bromofluorobenzene (Surrogate)	µg/L	-	9.8	10	30	3

Volatile Petroleum Hydrocarbons in Soil

Method: ME-(AU)-ENVJAN433

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %	
SE218834.052	LB223166.009	TRH C6-C10	mg/kg	25	<25	<25	200	0	
		TRH C6-C9	mg/kg	20	<20	<20	200	0	
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	10.6	10.7	30	0
			d8-toluene (Surrogate)	mg/kg	-	9.9	9.9	30	0
		VPH F Bands	Bromofluorobenzene (Surrogate)	mg/kg	-	10.0	10.1	30	1
			Benzene (F0)	mg/kg	0.1	<0.1	<0.1	200	0
			TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	200	0
		SE218834.070	LB223163.015	TRH C6-C10	mg/kg	25	<25	<25	200
TRH C6-C9	mg/kg			20	<20	<20	200	0	
Surrogates	d4-1,2-dichloroethane (Surrogate)			mg/kg	-	8.0	8.4	30	5
	d8-toluene (Surrogate)			mg/kg	-	7.9	8.3	30	5
VPH F Bands	Bromofluorobenzene (Surrogate)			mg/kg	-	7.3	7.6	30	5
	Benzene (F0)			mg/kg	0.1	<0.1	<0.1	200	0
	TRH C6-C10 minus BTEX (F1)			mg/kg	25	<25	<25	200	0
SE218834.084	LB223163.032			TRH C6-C10	mg/kg	25	<25	<25	200
		TRH C6-C9	mg/kg	20	<20	<20	200	0	
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.4	7.4	30	12
			d8-toluene (Surrogate)	mg/kg	-	8.0	7.7	30	4
		VPH F Bands	Bromofluorobenzene (Surrogate)	mg/kg	-	7.8	6.4	30	19
			Benzene (F0)	mg/kg	0.1	<0.1	<0.1	200	0
			TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	200	0

Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-ENVJAN433

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %	
SE218877.005	LB223168.025	TRH C6-C10	µg/L	50	<50	<50	200	0	
		TRH C6-C9	µg/L	40	<40	<40	200	0	
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	11	10	30	6
			d8-toluene (Surrogate)	µg/L	-	11	9.8	30	9
			Bromofluorobenzene (Surrogate)	µg/L	-	11	10	30	6
		VPH F Bands	Benzene (F0)	µg/L	0.5	<0.5	<0.5	200	0
			TRH C6-C10 minus BTEX (F1)	µg/L	50	<50	<50	200	0
SE218885.001	LB223168.023	TRH C6-C10	µg/L	50	<50	<50	200	0	
		TRH C6-C9	µg/L	40	<40	<40	200	0	
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	9.6	9.9	30	3
			d8-toluene (Surrogate)	µg/L	-	9.5	10	30	6
			Bromofluorobenzene (Surrogate)	µg/L	-	9.8	10	30	3
		VPH F Bands	Benzene (F0)	µg/L	0.5	<0.5	<0.5	200	0
			TRH C6-C10 minus BTEX (F1)	µg/L	50	<50	<50	200	0

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

Exchangeable Cations and Cation Exchange Capacity (CEC/ESP/SAR)

Method: ME-(AU)-[ENV]JAN122

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB223284.002	Exchangeable Sodium, Na	meq/100g	0.01	0.20	0.194	80 - 120	101
	Exchangeable Potassium, K	meq/100g	0.01	0.62	0.63	80 - 120	98
	Exchangeable Calcium, Ca	meq/100g	0.01	6.5	6.3	80 - 120	102
	Exchangeable Magnesium, Mg	meq/100g	0.02	1.1	1.11	80 - 120	96

Mercury in Soil

Method: ME-(AU)-[ENV]JAN312

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB223291.002	Mercury	mg/kg	0.05	0.20	0.2	70 - 130	99
LB223292.002	Mercury	mg/kg	0.05	0.20	0.2	70 - 130	101
LB223293.002	Mercury	mg/kg	0.05	0.21	0.2	70 - 130	104
LB223294.002	Mercury	mg/kg	0.05	0.21	0.2	70 - 130	103
LB223304.002	Mercury	mg/kg	0.05	0.20	0.2	70 - 130	100

Metals in Water (Dissolved) by ICPOES

Method: ME-(AU)-[ENV]JAN320

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB223115.002	Arsenic, As	mg/L	0.02	0.48	0.5	80 - 120	97
	Cadmium, Cd	mg/L	0.001	0.46	0.5	80 - 120	92
	Chromium, Cr	mg/L	0.005	0.48	0.5	80 - 120	96
	Copper, Cu	mg/L	0.005	0.48	0.5	80 - 120	97
	Lead, Pb	mg/L	0.02	0.47	0.5	80 - 120	94
	Manganese, Mn	mg/L	0.005	0.48	0.5	80 - 120	96
	Nickel, Ni	mg/L	0.005	0.47	0.5	80 - 120	95
	Zinc, Zn	mg/L	0.01	0.47	0.5	80 - 120	95

OC Pesticides in Soil

Method: ME-(AU)-[ENV]JAN420

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB223164.002	Heptachlor	mg/kg	0.1	0.2	0.2	60 - 140	122
	Aldrin	mg/kg	0.1	0.2	0.2	60 - 140	120
	Delta BHC	mg/kg	0.1	0.2	0.2	60 - 140	123
	Dieldrin	mg/kg	0.05	0.24	0.2	60 - 140	120
	Endrin	mg/kg	0.2	0.3	0.2	60 - 140	130
	p,p'-DDT	mg/kg	0.1	0.2	0.2	60 - 140	108
LB223165.002	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	-	0.16	0.15	40 - 130	106
	Heptachlor	mg/kg	0.1	0.2	0.2	60 - 140	117
	Aldrin	mg/kg	0.1	0.2	0.2	60 - 140	111
	Delta BHC	mg/kg	0.1	0.2	0.2	60 - 140	113
	Dieldrin	mg/kg	0.05	0.23	0.2	60 - 140	115
	Endrin	mg/kg	0.2	<0.2	0.2	60 - 140	84
LB223176.002	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	-	0.14	0.15	40 - 130	93
	Heptachlor	mg/kg	0.1	0.2	0.2	60 - 140	80
	Aldrin	mg/kg	0.1	0.2	0.2	60 - 140	83
	Delta BHC	mg/kg	0.1	0.2	0.2	60 - 140	77
	Dieldrin	mg/kg	0.05	0.16	0.2	60 - 140	82
	Endrin	mg/kg	0.2	<0.2	0.2	60 - 140	91
LB223176.002	p,p'-DDT	mg/kg	0.1	0.1	0.2	60 - 140	66
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	-	0.14	0.15	40 - 130	93

OC Pesticides in Water

Method: ME-(AU)-[ENV]JAN420

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB223192.002	Heptachlor	µg/L	0.1	0.2	0.2	60 - 140	123
	Aldrin	µg/L	0.1	0.2	0.2	60 - 140	123
	Delta BHC	µg/L	0.1	0.3	0.2	60 - 140	131
	Dieldrin	µg/L	0.1	0.3	0.2	60 - 140	130
	Endrin	µg/L	0.1	0.2	0.2	60 - 140	115
	p,p'-DDT	µg/L	0.1	0.2	0.2	60 - 140	115
Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	µg/L	-	0.11	0.15	40 - 130	72

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]JAN420

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB223164.002	Naphthalene	mg/kg	0.1	4.6	4	60 - 140	114
	Acenaphthylene	mg/kg	0.1	5.1	4	60 - 140	127
	Acenaphthene	mg/kg	0.1	5.0	4	60 - 140	125

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued)

Method: ME-(AU)-[ENV]AN420

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB223164.002	Phenanthrene	mg/kg	0.1	4.8	4	60 - 140	119
	Anthracene	mg/kg	0.1	4.3	4	60 - 140	106
	Fluoranthene	mg/kg	0.1	4.5	4	60 - 140	114
	Pyrene	mg/kg	0.1	4.6	4	60 - 140	115
	Benzo(a)pyrene	mg/kg	0.1	4.8	4	60 - 140	121
	d5-nitrobenzene (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	105
	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	100
LB223165.002	d14-p-terphenyl (Surrogate)	mg/kg	-	0.4	0.5	40 - 130	87
	Naphthalene	mg/kg	0.1	5.0	4	60 - 140	125
	Acenaphthylene	mg/kg	0.1	5.2	4	60 - 140	131
	Acenaphthene	mg/kg	0.1	5.4	4	60 - 140	135
	Phenanthrene	mg/kg	0.1	5.6	4	60 - 140	139
	Anthracene	mg/kg	0.1	5.4	4	60 - 140	134
	Fluoranthene	mg/kg	0.1	5.6	4	60 - 140	139
	Pyrene	mg/kg	0.1	5.6	4	60 - 140	139
	Benzo(a)pyrene	mg/kg	0.1	5.3	4	60 - 140	132
	d5-nitrobenzene (Surrogate)	mg/kg	-	0.4	0.5	40 - 130	83
	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	96
	d14-p-terphenyl (Surrogate)	mg/kg	-	0.4	0.5	40 - 130	90

PAH (Polynuclear Aromatic Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN420

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB223192.002	Naphthalene	µg/L	0.1	25	40	60 - 140	63
	Acenaphthylene	µg/L	0.1	32	40	60 - 140	79
	Acenaphthene	µg/L	0.1	30	40	60 - 140	76
	Phenanthrene	µg/L	0.1	31	40	60 - 140	78
	Anthracene	µg/L	0.1	31	40	60 - 140	78
	Fluoranthene	µg/L	0.1	34	40	60 - 140	84
	Pyrene	µg/L	0.1	35	40	60 - 140	88
	Benzo(a)pyrene	µg/L	0.1	30	40	60 - 140	76
	d5-nitrobenzene (Surrogate)	µg/L	-	0.25	0.5	40 - 130	50
	2-fluorobiphenyl (Surrogate)	µg/L	-	0.30	0.5	40 - 130	60
	d14-p-terphenyl (Surrogate)	µg/L	-	0.36	0.5	40 - 130	72

PCBs in Soil

Method: ME-(AU)-[ENV]AN420

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB223164.002	Arochlor 1260	mg/kg	0.2	0.4	0.4	60 - 140	112
LB223165.002	Arochlor 1260	mg/kg	0.2	0.4	0.4	60 - 140	101

PCBs in Water

Method: ME-(AU)-[ENV]AN420

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB223192.002	Arochlor 1260	µg/L	1	<1	0.4	60 - 140	126

pH in soil (1:5)

Method: ME-(AU)-[ENV]AN101

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB223249.003	pH	pH Units	0.1	7.4	7.415	98 - 102	100

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES

Method: ME-(AU)-[ENV]AN040/AN320

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB223287.002	Arsenic, As	mg/kg	1	350	318.22	80 - 120	110
	Cadmium, Cd	mg/kg	0.3	4.7	4.81	70 - 130	98
	Chromium, Cr	mg/kg	0.5	42	38.31	80 - 120	110
	Copper, Cu	mg/kg	0.5	320	290	80 - 120	111
	Manganese, Mn	mg/kg	1	720	660	80 - 120	109
	Nickel, Ni	mg/kg	0.5	200	187	80 - 120	105
	Lead, Pb	mg/kg	1	94	89.9	80 - 120	105
	Zinc, Zn	mg/kg	2	290	273	80 - 120	105
LB223288.002	Arsenic, As	mg/kg	1	340	318.22	80 - 120	108

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES (continued)

Method: ME-(AU)-[ENV]AN040/AN320

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB223288.002	Cadmium, Cd	mg/kg	0.3	4.9	4.81	70 - 130	102
	Chromium, Cr	mg/kg	0.5	40	38.31	80 - 120	106
	Copper, Cu	mg/kg	0.5	320	290	80 - 120	111
	Manganese, Mn	mg/kg	1	730	660	80 - 120	111
	Nickel, Ni	mg/kg	0.5	200	187	80 - 120	105
	Lead, Pb	mg/kg	1	97	89.9	80 - 120	108
	Zinc, Zn	mg/kg	2	290	273	80 - 120	107
LB223289.002	Arsenic, As	mg/kg	1	330	318.22	80 - 120	105
	Cadmium, Cd	mg/kg	0.3	4.6	4.81	70 - 130	96
	Chromium, Cr	mg/kg	0.5	38	38.31	80 - 120	100
	Copper, Cu	mg/kg	0.5	300	290	80 - 120	105
	Manganese, Mn	mg/kg	1	710	660	80 - 120	107
	Nickel, Ni	mg/kg	0.5	190	187	80 - 120	101
	Lead, Pb	mg/kg	1	94	89.9	80 - 120	104
LB223290.002	Zinc, Zn	mg/kg	2	280	273	80 - 120	102
	Arsenic, As	mg/kg	1	330	318.22	80 - 120	104
	Cadmium, Cd	mg/kg	0.3	4.7	4.81	70 - 130	97
	Chromium, Cr	mg/kg	0.5	38	38.31	80 - 120	100
	Copper, Cu	mg/kg	0.5	310	290	80 - 120	106
	Manganese, Mn	mg/kg	1	710	660	80 - 120	107
	Nickel, Ni	mg/kg	0.5	190	187	80 - 120	101
LB223303.002	Lead, Pb	mg/kg	1	95	89.9	80 - 120	106
	Zinc, Zn	mg/kg	2	280	273	80 - 120	103
	Arsenic, As	mg/kg	1	350	318.22	80 - 120	109
	Cadmium, Cd	mg/kg	0.3	5.0	4.81	70 - 130	104
	Chromium, Cr	mg/kg	0.5	40	38.31	80 - 120	104
	Copper, Cu	mg/kg	0.5	320	290	80 - 120	111
	Manganese, Mn	mg/kg	1	720	660	80 - 120	109
	Nickel, Ni	mg/kg	0.5	200	187	80 - 120	105
	Lead, Pb	mg/kg	1	96	89.9	80 - 120	107
	Zinc, Zn	mg/kg	2	290	273	80 - 120	106

TRH (Total Recoverable Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN403

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB223164.002	TRH C10-C14	mg/kg	20	45	40	60 - 140	113
	TRH C15-C28	mg/kg	45	<45	40	60 - 140	105
	TRH C29-C36	mg/kg	45	45	40	60 - 140	113
	TRH F Bands	mg/kg	25	43	40	60 - 140	108
	TRH >C10-C16	mg/kg	90	<90	40	60 - 140	123
	TRH >C16-C34 (F3)	mg/kg	120	<120	20	60 - 140	110
LB223165.002	TRH >C34-C40 (F4)	mg/kg	120	<120	20	60 - 140	110
	TRH C10-C14	mg/kg	20	50	40	60 - 140	125
	TRH C15-C28	mg/kg	45	46	40	60 - 140	115
	TRH C29-C36	mg/kg	45	<45	40	60 - 140	95
	TRH F Bands	mg/kg	25	48	40	60 - 140	120
	TRH >C10-C16	mg/kg	90	<90	40	60 - 140	108
	TRH >C16-C34 (F3)	mg/kg	120	<120	20	60 - 140	90
	TRH >C34-C40 (F4)	mg/kg	120	<120	20	60 - 140	90

TRH (Total Recoverable Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN403

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB223192.002	TRH C10-C14	µg/L	50	1300	1200	60 - 140	108
	TRH C15-C28	µg/L	200	1400	1200	60 - 140	115
	TRH C29-C36	µg/L	200	1500	1200	60 - 140	123
	TRH F Bands	µg/L	60	1400	1200	60 - 140	115
	TRH >C10-C16	µg/L	500	1400	1200	60 - 140	120
	TRH >C16-C34 (F3)	µg/L	500	700	600	60 - 140	117
	TRH >C34-C40 (F4)	µg/L	500	700	600	60 - 140	117

VOC's in Soil

Method: ME-(AU)-[ENV]AN433

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB223163.002	Monocyclic	Benzene	mg/kg	0.1	4.7	5	60 - 140	94
	Aromatic	Toluene	mg/kg	0.1	4.8	5	60 - 140	95
		Ethylbenzene	mg/kg	0.1	5.0	5	60 - 140	100
		m/p-xylene	mg/kg	0.2	10	10	60 - 140	100

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

VOC's in Soil (continued)

Method: ME-(AU)-[ENV]AN433

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB223163.002	Monocyclic	o-xylene	mg/kg	0.1	5.0	5	60 - 140
	Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	9.9	10	70 - 130
		d8-toluene (Surrogate)	mg/kg	-	9.7	10	70 - 130
		Bromofluorobenzene (Surrogate)	mg/kg	-	9.2	10	70 - 130
LB223166.002	Monocyclic	Benzene	mg/kg	0.1	4.9	5	60 - 140
	Aromatic	Toluene	mg/kg	0.1	4.9	5	60 - 140
		Ethylbenzene	mg/kg	0.1	5.2	5	60 - 140
		m/p-xylene	mg/kg	0.2	10	10	60 - 140
		o-xylene	mg/kg	0.1	5.2	5	60 - 140
	Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	10.9	10	70 - 130
		d8-toluene (Surrogate)	mg/kg	-	10.0	10	70 - 130
		Bromofluorobenzene (Surrogate)	mg/kg	-	9.8	10	70 - 130

VOCs in Water

Method: ME-(AU)-[ENV]AN433

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB223168.002	Monocyclic	Benzene	µg/L	0.5	46	45.45	60 - 140
	Aromatic	Toluene	µg/L	0.5	44	45.45	60 - 140
		Ethylbenzene	µg/L	0.5	42	45.45	60 - 140
		m/p-xylene	µg/L	1	79	90.9	60 - 140
		o-xylene	µg/L	0.5	40	45.45	60 - 140
	Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	8.5	10	60 - 140
		d8-toluene (Surrogate)	µg/L	-	10	10	70 - 130
		Bromofluorobenzene (Surrogate)	µg/L	-	9.1	10	70 - 130

Volatile Petroleum Hydrocarbons in Soil

Method: ME-(AU)-[ENV]AN433

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB223163.002		TRH C6-C10	mg/kg	25	85	92.5	60 - 140
		TRH C6-C9	mg/kg	20	75	80	60 - 140
	Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	9.9	10	70 - 130
		Bromofluorobenzene (Surrogate)	mg/kg	-	9.2	10	70 - 130
	VPH F Bands	TRH C6-C10 minus BTEX (F1)	mg/kg	25	56	62.5	60 - 140
LB223166.002		TRH C6-C10	mg/kg	25	77	92.5	60 - 140
		TRH C6-C9	mg/kg	20	69	80	60 - 140
	Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	10.9	10	70 - 130
		Bromofluorobenzene (Surrogate)	mg/kg	-	9.8	10	70 - 130
	VPH F Bands	TRH C6-C10 minus BTEX (F1)	mg/kg	25	47	62.5	60 - 140

Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-[ENV]AN433

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB223168.002		TRH C6-C10	µg/L	50	920	946.63	60 - 140
		TRH C6-C9	µg/L	40	800	818.71	60 - 140
	Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	8.5	10	60 - 140
		d8-toluene (Surrogate)	µg/L	-	10	10	70 - 130
		Bromofluorobenzene (Surrogate)	µg/L	-	9.1	10	70 - 130
	VPH F Bands	TRH C6-C10 minus BTEX (F1)	µg/L	50	670	639.67	60 - 140

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub-sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

Mercury in Soil

Method: ME-(AU)-[ENV]AN312

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE218834.001	LB223291.004	Mercury	mg/kg	0.05	0.23	<0.05	0.2	92
SE218834.020	LB223292.004	Mercury	mg/kg	0.05	0.22	<0.05	0.2	92
SE218834.039	LB223293.004	Mercury	mg/kg	0.05	0.22	<0.05	0.2	92
SE218834.058	LB223294.004	Mercury	mg/kg	0.05	0.20	<0.05	0.2	85
SE218864.001	LB223304.004	Mercury	mg/kg	0.05	0.20	<0.05	0.2	90

OC Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE218775.001	LB223176.030	Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	-	-
		Alpha BHC	mg/kg	0.1	<0.1	<0.1	-	-
		Lindane	mg/kg	0.1	<0.1	<0.1	-	-
		Heptachlor	mg/kg	0.1	0.2	<0.1	0.2	91
		Aldrin	mg/kg	0.1	0.2	<0.1	0.2	92
		Beta BHC	mg/kg	0.1	<0.1	<0.1	-	-
		Delta BHC	mg/kg	0.1	0.2	<0.1	0.2	85
		Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	-	-
		o,p'-DDE	mg/kg	0.1	<0.1	<0.1	-	-
		Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	-	-
		Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	-	-
		Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	-	-
		trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	-	-
		p,p'-DDE	mg/kg	0.1	<0.1	<0.1	-	-
		Dieldrin	mg/kg	0.05	<0.2	<0.2	0.2	91
		Endrin	mg/kg	0.2	0.2	<0.2	0.2	97
		o,p'-DDD	mg/kg	0.1	<0.1	<0.1	-	-
		o,p'-DDT	mg/kg	0.1	<0.1	<0.1	-	-
		Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	-	-
		p,p'-DDD	mg/kg	0.1	<0.1	<0.1	-	-
		p,p'-DDT	mg/kg	0.1	0.2	<0.1	0.2	80
		Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	-	-
		Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	-	-
		Methoxychlor	mg/kg	0.1	<0.1	<0.1	-	-
		Endrin Ketone	mg/kg	0.1	<0.1	<0.1	-	-
		Isodrin	mg/kg	0.1	<0.1	<0.1	-	-
		Mirex	mg/kg	0.1	<0.1	<0.1	-	-
SE218834.014	LB223165.004	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.14	0.15	93
		Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	-	-
		Alpha BHC	mg/kg	0.1	<0.1	<0.1	-	-
		Lindane	mg/kg	0.1	<0.1	<0.1	-	-
		Heptachlor	mg/kg	0.1	0.3	<0.1	0.2	103
		Aldrin	mg/kg	0.1	0.2	<0.1	0.2	95
		Beta BHC	mg/kg	0.1	<0.1	<0.1	-	-
		Delta BHC	mg/kg	0.1	0.3	<0.1	0.2	99
		Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	-	-
		o,p'-DDE	mg/kg	0.1	<0.1	<0.1	-	-
		Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	-	-
		Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	-	-
		Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	-	-
		trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	-	-
		p,p'-DDE	mg/kg	0.1	<0.1	<0.1	-	-
		Dieldrin	mg/kg	0.05	0.25	0.07	0.2	93
		Endrin	mg/kg	0.2	<0.2	<0.2	0.2	97
		o,p'-DDD	mg/kg	0.1	<0.1	<0.1	-	-
		o,p'-DDT	mg/kg	0.1	<0.1	<0.1	-	-
		Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	-	-
		p,p'-DDD	mg/kg	0.1	<0.1	<0.1	-	-
		p,p'-DDT	mg/kg	0.1	0.2	<0.1	0.2	109
		Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	-	-
		Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	-	-
		Methoxychlor	mg/kg	0.1	<0.1	<0.1	-	-
		Endrin Ketone	mg/kg	0.1	<0.1	<0.1	-	-

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub-sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

OC Pesticides in Soil (continued)

Method: ME-(AU)-[ENV]AN420

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE218834.014	LB223165.004	Isodrin	mg/kg	0.1	<0.1	<0.1	-	-
		Mirex	mg/kg	0.1	<0.1	<0.1	-	-
		Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.15	0.14	-	101
SE218834.061	LB223164.004	Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	-	-
		Alpha BHC	mg/kg	0.1	<0.1	<0.1	-	-
		Lindane	mg/kg	0.1	<0.1	<0.1	-	-
		Heptachlor	mg/kg	0.1	0.3	<0.1	0.2	96
		Aldrin	mg/kg	0.1	0.2	<0.1	0.2	95
		Beta BHC	mg/kg	0.1	<0.1	<0.1	-	-
		Delta BHC	mg/kg	0.1	0.3	<0.1	0.2	94
		Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	-	-
		o,p'-DDE	mg/kg	0.1	<0.1	<0.1	-	-
		Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	-	-
		Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	-	-
		Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	-	-
		trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	-	-
		p,p'-DDE	mg/kg	0.1	<0.1	<0.1	-	-
		Dieldrin	mg/kg	0.05	0.25	0.06	0.2	95
		Endrin	mg/kg	0.2	0.3	<0.2	0.2	104
		o,p'-DDD	mg/kg	0.1	<0.1	<0.1	-	-
		o,p'-DDT	mg/kg	0.1	<0.1	<0.1	-	-
		Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	-	-
		p,p'-DDD	mg/kg	0.1	<0.1	<0.1	-	-
		p,p'-DDT	mg/kg	0.1	0.2	<0.1	0.2	72
		Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	-	-
		Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	-	-
		Methoxychlor	mg/kg	0.1	<0.1	<0.1	-	-
		Endrin Ketone	mg/kg	0.1	<0.1	<0.1	-	-
		Isodrin	mg/kg	0.1	<0.1	<0.1	-	-
		Mirex	mg/kg	0.1	<0.1	<0.1	-	-
		Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.16	0.16	-	107

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN420

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE218834.061	LB223164.004	Naphthalene	mg/kg	0.1	4.8	<0.1	4	121
		2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	-	-
		1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	-	-
		Acenaphthylene	mg/kg	0.1	5.1	<0.1	4	128
		Acenaphthene	mg/kg	0.1	5.1	<0.1	4	127
		Fluorene	mg/kg	0.1	<0.1	<0.1	-	-
		Phenanthrene	mg/kg	0.1	4.8	<0.1	4	120
		Anthracene	mg/kg	0.1	4.4	<0.1	4	109
		Fluoranthene	mg/kg	0.1	4.6	<0.1	4	116
		Pyrene	mg/kg	0.1	4.8	<0.1	4	120
		Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	-	-
		Chrysene	mg/kg	0.1	<0.1	<0.1	-	-
		Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	-	-
		Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	-	-
		Benzo(a)pyrene	mg/kg	0.1	5.0	<0.1	4	126
		Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	-	-
		Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	-	-
		Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	-	-
		Carcinogenic PAHs, BaP TEQ <LOR=0	TEQ (mg/kg)	0.2	5.0	<0.2	-	-
		Carcinogenic PAHs, BaP TEQ <LOR=LOR	TEQ (mg/kg)	0.3	5.2	<0.3	-	-
		Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	0.2	5.1	<0.2	-	-
		Total PAH (18)	mg/kg	0.8	39	<0.8	-	-
		d5-nitrobenzene (Surrogate)	mg/kg	-	0.5	0.5	-	98
		2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	-	101
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.4	0.5	-	83

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES

Method: ME-(AU)-[ENV]AN040/AN320

QC Sample	Sample Number	Parameter	Units	LOR

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub-sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES (continued)

Method: ME-(AU)-[ENV]AN040/AN320

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE218834.001	LB223287.004	Arsenic, As	mg/kg	1	55	8	50	93
		Cadmium, Cd	mg/kg	0.3	45	<0.3	50	91
		Chromium, Cr	mg/kg	0.5	59	11	50	95
		Copper, Cu	mg/kg	0.5	65	19	50	93
		Manganese, Mn	mg/kg	1	270	300	50	-62 ④
		Nickel, Ni	mg/kg	0.5	54	6.5	50	94
		Lead, Pb	mg/kg	1	59	15	50	89
		Zinc, Zn	mg/kg	2	73	32	50	82
SE218834.020	LB223288.004	Arsenic, As	mg/kg	1	51	9	50	83
		Cadmium, Cd	mg/kg	0.3	42	<0.3	50	84
		Chromium, Cr	mg/kg	0.5	58	15	50	87
		Copper, Cu	mg/kg	0.5	54	8.9	50	91
		Manganese, Mn	mg/kg	1	1400	1600	50	-405 ④
		Nickel, Ni	mg/kg	0.5	52	9.3	50	86
		Lead, Pb	mg/kg	1	59	19	50	81
		Zinc, Zn	mg/kg	2	68	23	50	90
SE218834.039	LB223289.004	Arsenic, As	mg/kg	1	52	11	50	83
		Cadmium, Cd	mg/kg	0.3	41	<0.3	50	82
		Chromium, Cr	mg/kg	0.5	56	14	50	85
		Copper, Cu	mg/kg	0.5	58	16	50	84
		Manganese, Mn	mg/kg	1	1800	1600	50	376 ④
		Nickel, Ni	mg/kg	0.5	49	6.3	50	86
		Lead, Pb	mg/kg	1	60	21	50	79
		Zinc, Zn	mg/kg	2	67	29	50	76
SE218834.058	LB223290.004	Arsenic, As	mg/kg	1	50	9	50	83
		Cadmium, Cd	mg/kg	0.3	41	<0.3	50	82
		Chromium, Cr	mg/kg	0.5	57	17	50	79
		Copper, Cu	mg/kg	0.5	57	14	50	88
		Manganese, Mn	mg/kg	1	1700	1900	50	-388 ④
		Nickel, Ni	mg/kg	0.5	50	6.8	50	87
		Lead, Pb	mg/kg	1	64	27	50	73
		Zinc, Zn	mg/kg	2	90	34	50	113
SE218864.001	LB223303.004	Arsenic, As	mg/kg	1	53	5	50	96
		Cadmium, Cd	mg/kg	0.3	46	<0.3	50	91
		Chromium, Cr	mg/kg	0.5	62	17	50	92
		Copper, Cu	mg/kg	0.5	54	3.3	50	101
		Nickel, Ni	mg/kg	0.5	50	0.8	50	98
		Lead, Pb	mg/kg	1	69	30	50	78
		Zinc, Zn	mg/kg	2	73	19	50	108

TRH (Total Recoverable Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN403

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE218834.061	LB223164.004	TRH C10-C14	mg/kg	20	39	<20	40	98
		TRH C15-C28	mg/kg	45	<45	<45	40	88
		TRH C29-C36	mg/kg	45	<45	<45	40	88
		TRH C37-C40	mg/kg	100	<100	<100	-	-
		TRH C10-C36 Total	mg/kg	110	<110	<110	-	-
		TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	-	-
		TRH F	mg/kg	25	38	<25	40	95
		TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	33	<25	-	-
		TRH >C16-C34 (F3)	mg/kg	90	<90	<90	40	90
		TRH >C34-C40 (F4)	mg/kg	120	<120	<120	-	-

VOC's in Soil

Method: ME-(AU)-[ENV]AN433

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%	
SE218834.061	LB223163.004	Monocyclic	Benzene	mg/kg	0.1	3.9	<0.1	5	77
		Aromatic	Toluene	mg/kg	0.1	4.1	<0.1	5	81
			Ethylbenzene	mg/kg	0.1	4.3	<0.1	5	85
			m/p-xylene	mg/kg	0.2	8.8	<0.2	10	87
			o-xylene	mg/kg	0.1	4.5	<0.1	5	88
			Polycyclic	Naphthalene	mg/kg	0.1	<0.1	<0.1	-
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.6	9.0	10	86

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub-sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

VOC's in Soil (continued)

Method: ME-(AU)-[ENV]AN433

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%	
SE218834.061	LB223163.004	Surrogates	d8-toluene (Surrogate)	mg/kg	-	8.3	8.5	10	83
			Bromofluorobenzene (Surrogate)	mg/kg	-	7.9	8.5	10	79
		Totals	Total Xylenes	mg/kg	0.3	13	<0.3	-	-
			Total BTEX	mg/kg	0.6	26	<0.6	-	-

VOCs in Water

Method: ME-(AU)-[ENV]AN433

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE218832.009	LB223168.024	Monocyclic	Benzene	µg/L	0.5	53	<0.5	45.45	117
			Aromatic	Toluene	µg/L	0.5	51	<0.5	45.45
			Ethylbenzene	µg/L	0.5	53	<0.5	45.45	117
			m/p-xylene	µg/L	1	100	<1	90.9	114
			o-xylene	µg/L	0.5	53	<0.5	45.45	117
		Polycyclic	Naphthalene	µg/L	0.5	56	<0.5	-	-
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	10.3	10.7	-	103
			d8-toluene (Surrogate)	µg/L	-	10.2	10.1	-	102
			Bromofluorobenzene (Surrogate)	µg/L	-	10.2	10.2	-	102

Volatile Petroleum Hydrocarbons in Soil

Method: ME-(AU)-[ENV]AN433

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%	
SE218834.061	LB223163.004	TRH C6-C10	mg/kg	25	71	<25	92.5	76	
		TRH C6-C9	mg/kg	20	63	<20	80	77	
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.6	9.0	10	86
			d8-toluene (Surrogate)	mg/kg	-	8.3	8.5	10	83
			Bromofluorobenzene (Surrogate)	mg/kg	-	7.9	8.5	-	79
		VPH F	Benzene (F0)	mg/kg	0.1	3.9	<0.1	-	-
		Bands	TRH C6-C10 minus BTEX (F1)	mg/kg	25	46	<25	62.5	71

Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-[ENV]AN433

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%	
SE218832.009	LB223168.024	TRH C6-C10	µg/L	50	1000	<50	946.63	107	
		TRH C6-C9	µg/L	40	840	<40	818.71	102	
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	10.3	10.7	-	103
			d8-toluene (Surrogate)	µg/L	-	10.2	10.1	-	102
			Bromofluorobenzene (Surrogate)	µg/L	-	10.2	10.2	-	102
		VPH F	Benzene (F0)	µg/L	0.5		<0.5	-	-
		Bands	TRH C6-C10 minus BTEX (F1)	µg/L	50	700	<50	639.67	109

Matrix spike duplicates are calculated as Relative Percent Difference (RPD) using the formula: $RPD = | \text{OriginalResult} - \text{ReplicateResult} | \times 100 / \text{Mean}$

The original result is the analyte concentration of the matrix spike. The Duplicate result is the analyte concentration of the matrix spike duplicate.

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: $MAD = 100 \times \text{SDL} / \text{Mean} + \text{LR}$

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the

QC Sample	Sample Number	Parameter	Units	LOR

Samples analysed as received.

Solid samples expressed on a dry weight basis.

QC criteria are subject to internal review according to the SGS QA/QC plan and may be provided on request or alternatively can be found here : https://www.sgs.com.au/~media/Local/Australia/Documents/Technical Documents/MP-AU-ENV-QU-022_QA_QC_Plan.pdf

- * NATA accreditation does not cover the performance of this service .
- ** Indicative data, theoretical holding time exceeded.
- *** Indicates that both * and ** apply.
- Sample not analysed for this analyte.
- IS Insufficient sample for analysis.
- LNR Sample listed, but not received.
- LOR Limit of reporting.
- QFH QC result is above the upper tolerance.
- QFL QC result is below the lower tolerance.
- ① At least 2 of 3 surrogates are within acceptance criteria.
- ② RPD failed acceptance criteria due to sample heterogeneity.
- ③ Results less than 5 times LOR preclude acceptance criteria for RPD.
- ④ Recovery failed acceptance criteria due to matrix interference.
- ⑤ Recovery failed acceptance criteria due to the presence of significant concentration of analyte (i.e. the concentration of analyte exceeds the spike level).
- ⑥ LOR was raised due to sample matrix interference.
- ⑦ LOR was raised due to dilution of significantly high concentration of analyte in sample.
- ⑧ Reanalysis of sample in duplicate confirmed sample heterogeneity and inconsistency of results.
- ⑨ Recovery failed acceptance criteria due to sample heterogeneity.
- ⑩ LOR was raised due to high conductivity of the sample (required dilution).
- † Refer to relevant report comments for further information.

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1 LEMKO PLACE PENRITH NSW 2750

CHAIN OF CUSTODY

Results Required By: Normal Turnaround 4 days

Except pH Results Required By 2 days

Your Reference No.:

Date: Tuesday, 27 April 2021
Date: Friday, 23 April 2021

Date: Friday, 23 April 2021

TO: SGS UNIT 16, 33 MADDOX STREET ALEXANDRIA NSW 2015										Sampled By: SS		Ref No: 148922		Location: Catherine Field										Project Manager: SAURABH SARKOTA	
Location	Depth (m)	Date	Soil	Water	Material	Metals As Cd Cr Cu Pb Hg Ni Zn	pH	CEC	CL8 TRH BTEX PAH	CL10 Metals* TRH BTEX PAH	CL16 Metal Co Ni Ss	Be B Mn	Asbestos 0.001% w/w	Asbestos	BTEX	TRH & BTEX	PAH	OCP & PCB	Phenol	Cyanide	VOC	OCP & PCB			
TP1	0.0-0.15	19/04/2021	G		Clay	*	*	*				*						*							
TP2	0.0-0.15	19/04/2021	G		Clay	*						*													
TP3	0.0-0.15	19/04/2021	G		Clay	*						*						*							
TP4	0.0-0.15	19/04/2021	G		Clay	*						*						*							
TP5	0.0-0.15	19/04/2021	G		Clay	*						*						*							
TP5	0.25-0.35	19/04/2021	G		Clay	*						*						*							
TP6	0.0-0.15	19/04/2021	G		Clay	*						*						*							
TP7	0.0-0.15	19/04/2021	G		Clay	*						*						*							
TP8	0.0-0.15	19/04/2021	G		Clay	*						*						*							
TP9	0.0-0.15	19/04/2021	G		Clay	*						*						*							
TP10	0.0-0.15	19/04/2021	G		Clay	*	*	*				*						*							
TP11	0.0-0.15	19/04/2021	G		Clay	*	*	*				*						*							
TP12	0.0-0.15	19/04/2021	G		Clay	*	*	*				*						*							
TP13	0.0-0.15	19/04/2021	G		Clay	*	*	*				*						*							
TP13	0.25-0.35	19/04/2021	G		Clay	*	*	*				*						*							
TP14	0.0-0.15	19/04/2021	G		Clay	*	*	*				*						*							
TP15	0.0-0.15	19/04/2021	G		Clay	*	*	*				*						*							
TP16	0.0-0.15	19/04/2021	G		Clay	*	*	*				*						*							
TP17	0.0-0.15	19/04/2021	G		Clay	*	*	*				*						*							
TP18	0.0-0.15	19/04/2021	G		Clay	*	*	*				*						*							
TP18	0.0-0.15	19/04/2021	G		Clay	*	*	*				*						*							
TP20	0.0-0.15	19/04/2021	G		Clay	*	*	*				*						*							

SGS EHS Sydney COC

SE218834



Results Required By: Normal Turnaround 4 days
Except pH Results Required By 2 days
Your Reference No.:

Date: Tuesday, 27 April 2021
Date: Friday, 23 April 2021

TO: SGS UNIT 16, 33 MADDOX STREET ALEXANDRIA NSW 2015						Sampled By: SS						Ref No: 148922						Project Manager: SAURABH SAPKOTA					
Location						Location: Catherine Field																	
Location	Depth (m)	Date	Soil	Water	Material	Metals As Cd Pb Cu Ni Zn	pH	CEC	CL8 TRH BTEX PAH	CL10 Metals* TRH BTEX PAH	CL16 Metal TRH BTEX PAH OC PCB	Be B Co Mn Se	Min	Asbestos 0.001% w/w	Asbestos	BTEX TRH & BTEX	PAH	OCF OCF & PCB	Phenol	Cyanide	VOC	OCF OCF & PCB	
TP21	0.0-0.15	19/04/2021	G		Clay	*						*											
TP21	0.25-0.35	19/04/2021	G		Clay	*	*	*				*											
TP22	0.0-0.15	19/04/2021	G		Clay	*	*	*				*						*					
TP23	0.0-0.15	19/04/2021	G		Clay	*						*											
TP24	0.0-0.15	19/04/2021	G		Clay	*						*											
TP25	0.0-0.15	19/04/2021	G		Clay	*						*											
TP26	0.0-0.15	19/04/2021	G		Clay	*						*											
TP27	0.0-0.15	19/04/2021	G		Clay	*						*											
TP28	0.0-0.15	19/04/2021	G		Clay	*						*											
TP29	0.0-0.15	19/04/2021	G		Clay	*						*											
TP30	0.0-0.15	19/04/2021	G		Clay	*						*											
TP31	0.0-0.15	19/04/2021	G		Clay	*	*	*				*					*						
TP31	0.25-0.35	19/04/2021	G		Clay	*	*	*				*											
TP32	0.0-0.15	19/04/2021	G		Clay	*						*											
TP33	0.0-0.15	19/04/2021	G		Clay	*						*											
TP34	0.0-0.15	19/04/2021	G		Clay	*	*	*				*					*						
TP35	0.0-0.15	19/04/2021	G		Clay	*						*					*						
TP36	0.0-0.15	19/04/2021	G		Clay	*						*					*						
TP36	0.5-0.8	19/04/2021	G		Clay	*						*											
TP37	0.0-0.15	20/04/2021	G		Clay	*	*	*				*					*						
TP37	0.5-0.8	20/04/2021	G		Clay	*						*					*						
TP38	0.0-0.15	20/04/2021	G		Clay	*						*					*						
TP39	0.0-0.15	20/04/2021	G		Clay	*	*	*				*					*						
TP40	0.0-0.15	20/04/2021	G		Clay	*						*					*						

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CHAIN OF CUSTODY
Results Required By: Normal Turnaround 4 days
Except pH Results Required By 2 days
Your Reference No.:

Date: Tuesday, 27 April 2021
Date: Friday, 23 April 2021

TO: SGS UNIT 16, 33 MADDOX STREET ALEXANDRIA NSW 2015						Sampled By: SS						Ref No: 148922 Location: Catherine Field						Project Manager: SAURABH SARKOTA						
Location	Depth (m)	Date	Soil	Water	Material	Metals As Cd Cr Cu Pb Hg Ni Zn	pH	CEC	CL8 TRH BTEX PAH	CL10 TRH BTEX PAH	CL16 Metal s* BTEX PAH OC PCB	Be B Co Mn Se	Mn	Asbestos 0.001% w/w	Asbestos	BTEX	TRH & BTEX	PAH	OCF & PCB	Phenol	Cyanide	VOC	OCF & PCB	
TP41	0.0-0.15	20/04/2021	G		Clay	✓							✓											
TP42	0.0-0.15	20/04/2021	G		Clay	✓							✓											
TP43	0.0-0.15	20/04/2021	G		Clay	✓							✓											
TP44	0.0-0.15	20/04/2021	G		Clay	✓							✓						✓					
TP45	0.0-0.15	20/04/2021	G		Clay	✓							✓											
TP46	0.0-0.15	20/04/2021	G		Clay								✓											
TP46	0.35-0.45	20/04/2021	G		Clay	✓							✓											
TP47	0.0-0.15	19/04/2021	G		Clay	✓							✓						✓					
TP48	0.0-0.15	19/04/2021	G		Clay	✓							✓						✓					
TP48	0.25-0.35	19/04/2021	G		Clay	✓							✓											
TP49	0.0-0.15	20/04/2021	G		Clay	✓							✓											
TP50	0.0-0.15	20/04/2021	G		Clay	✓							✓											
TP51	0.0-0.15	20/04/2021	G		Clay	✓							✓											
TP52	0.0-0.15	20/04/2021	G		Clay	✓							✓											
B1	0.0-0.15	20/04/2021	G		Clay								✓						✓					
B2	0.0-0.15	20/04/2021	G		Clay								✓											
B3	0.0-0.15	20/04/2021	G		Clay								✓						✓					
B4	0.0-0.15	20/04/2021	G		Clay								✓						✓					
B5	0.0-0.15	20/04/2021	G		Clay								✓						✓					
B6	0.0-0.15	20/04/2021	G		Clay								✓						✓					
B7	0.0-0.15	20/04/2021	G		Clay								✓						✓					
B8	0.0-0.15	20/04/2021	G		Clay								✓						✓					
B9	0.0-0.15	20/04/2021	G		Clay								✓						✓					
B10	0.0-0.15	20/04/2021	G		Clay								✓											
P1	0.0-0.15	20/04/2021	G		Clay								✓											
P1	0.45-0.55	20/04/2021	G		Clay								✓											

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GEOTECHNIQUE PTY LTD

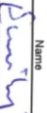
1 LEIKO PLACE PENRITH NSW 2750

CHAIN OF CUSTODY

Results Required By: Normal Turnaround 4 days
Except pH Results Required By 2 days

Date: Tuesday, 27 April 2021
Date: Friday, 23 April 2021

Your Reference No.:

TO: SGS UNIT 16, 33 MADDOX STREET ALEXANDRIA NSW 2015		Sampled By: SS		Ref No: 146922		Location: Catherine Field		Project Manager: SAURABH SARKOTA															
Location	Depth (m)	Date	Soil	Water	Material	Metals As Cd Cr Cu Pb Hg Ni Zn	pH	CEC	CL8 TRH BTEX PAH	CL10 Metals* TRH BTEX PAH	CL16 Metal s* TRH BTEX PAH OC PCB	Be B Co Mn Se	Mn	Asbestos 0.001% w/w	Asbestos	BTEX TRH & BTEX	PAH	OCF & PCB	Phenol	Cyanide	VOC	OCF & PCB	
P2	0.0-0.15	20/04/2021	G		Clay																		
P2	0.5-0.8	20/04/2021	G		Clay																		
P3	0.0-0.15	20/04/2021	G		Clay																		
P3	0.55-0.65	20/04/2021	G		Clay																		
P4	0.0-0.15	20/04/2021	G		Clay																		
P4	0.55-0.65	20/04/2021	G		Clay																		
P5	0.0-0.15	20/04/2021	G		Clay																		
P5	0.55-0.65	20/04/2021	G		Clay																		
DDS4		19/04/2021	G		Clay																		
DDS2		19/04/2021	G		Clay																		
DDS3		20/04/2021	G		Clay																		
DDS1		20/04/2021	G		Clay																		
RS1		19/04/2021		WG & Vial																			
TS1		19/04/2021	Vial																				
RS2		20/04/2021		WG & Vial																			
TS2		20/04/2021	Vial																				
Name: SAURABH SARKOTA		Signature: 		Date: 21/04/2021		Name: 		Signature: 		Date: 21/4/2021		Received by: 		Date: 21/4/2021									
WG: Water sample (glass bottle)		G		Soil sample (glass jar)		FCP		Fibro Cement Piece (plastic bag)		* As, Cd, Cr, Cu, Pb, Hg, Ni & Zn (6 metals)													
WP: Water sample (plastic bottle)		P		Soil sample (plastic bag)		Test required																	

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SAMPLE RECEIPT ADVICE

SE218834

CLIENT DETAILS

Contact Saurabh Sapkota
Client Geotechnique
Address P.O. Box 880
NSW 2751

Telephone 02 4722 2700
Facsimile 02 4722 6161
Email Saurabh@geotech.com.au

Project **14892/2 Catherine Field**
Order Number (Not specified)
Samples 88

LABORATORY DETAILS

Manager Huong Crawford
Laboratory SGS Alexandria Environmental
Address Unit 16, 33 Maddox St
Alexandria NSW 2015

Telephone +61 2 8594 0400
Facsimile +61 2 8594 0499
Email au.environmental.sydney@sgs.com

Samples Received Wed 21/4/2021
Report Due Tue 27/4/2021
SGS Reference **SE218834**

SUBMISSION DETAILS

This is to confirm that 88 samples were received on Wednesday 21/4/2021. Results are expected to be ready by COB Tuesday 27/4/2021. Please quote SGS reference SE218834 when making enquiries. Refer below for details relating to sample integrity upon receipt.

Samples clearly labelled	Yes	Complete documentation received	Yes
Sample container provider	SGS	Sample cooling method	Ice Bricks
Samples received in correct containers	Yes	Sample counts by matrix	2 Soil, 84 Clay, 2 Water
Date documentation received	21/4/2021	Type of documentation received	COC
Samples received in good order	Yes	Samples received without headspace	Yes
Sample temperature upon receipt	15.0°C	Sufficient sample for analysis	Yes
Turnaround time requested	2 Day/Standard		

Unless otherwise instructed, water and bulk samples will be held for one month from date of report, and soil samples will be held for two months.

COMMENTS

This document is issued by the Company under its General Conditions of Service accessible at www.sgs.com/en/Terms-and-Conditions.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

CLIENT DETAILS

Client **Geotechnique**

Project **14892/2 Catherine Field**

SUMMARY OF ANALYSIS

No.	Sample ID	Exchangeable Cations and Cation Exchange Capacity	OC Pesticides in Soil	pH in soil (1:5)
001	TP1 0.0-0.15	13	28	1
003	TP3 0.0-0.15	-	28	-
005	TP5 0.0-0.15	-	28	-
007	TP6 0.0-0.15	-	28	-
008	TP7 0.0-0.15	-	28	-
011	TP10 0.0-0.15	13	28	1
014	TP13 0.0-0.15	13	28	1
016	TP14 0.0-0.15	-	28	-
017	TP15 0.0-0.15	-	28	-
018	TP16 0.0-0.15	13	28	1
020	TP18 0.0-0.15	-	28	-
021	TP19 0.0-0.15	-	28	-
024	TP21 0.25-0.35	13	-	1

CONTINUED OVERLEAF

The above table represents SGS' interpretation of the client-supplied Chain Of Custody document.

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Please indicate as soon as possible should your request differ from these details .

Testing as per this table shall commence immediately unless the client intervenes with a correction .

CLIENT DETAILS

Client **Geotechnique**

Project **14892/2 Catherine Field**

SUMMARY OF ANALYSIS

No.	Sample ID	Exchangeable Cations and Cation Exchange Capacity	OC Pesticides in Soil	PAH (Polynuclear Aromatic Hydrocarbons) in Soil	PCBs in Soil	pH in soil (1:5)	TRH (Total Recoverable Hydrocarbons) in Soil	VOC's in Soil	Volatile Petroleum Hydrocarbons in Soil
025	TP22 0.0-0.15	13	28	-	-	1	-	-	-
034	TP31 0.0-0.15	13	28	-	-	1	-	-	-
035	TP31 0.25-0.35	13	-	-	-	1	-	-	-
038	TP34 0.0-0.15	13	28	-	-	1	-	-	-
039	TP35 0.0-0.15	-	28	-	-	-	-	-	-
040	TP36 0.0-0.15	-	28	26	11	-	10	11	7
041	TP36 0.5-0.8	-	28	26	11	-	10	11	7
042	TP37 0.0-0.15	13	28	26	11	1	10	11	7
043	TP37 0.5-0.8	-	28	26	11	-	10	11	7
044	TP38 0.0-0.15	-	28	-	-	-	-	-	-
045	TP39 0.0-0.15	13	28	-	-	1	-	-	-

CONTINUED OVERLEAF

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CLIENT DETAILS

Client **Geotechnique**

Project **14892/2 Catherine Field**

SUMMARY OF ANALYSIS

No.	Sample ID	Exchangeable Cations and Cation Exchange Capacity	OC Pesticides in Soil	PAH (Polynuclear Aromatic Hydrocarbons) in Soil	PCBs in Soil	pH in soil (1:5)	TRH (Total Recoverable Hydrocarbons) in Soil	VOC's in Soil	Volatile Petroleum Hydrocarbons in Soil
050	TP44 0.0-0.15	13	28	-	-	1	-	-	-
052	TP46 0.0-0.15	-	28	26	11	-	10	11	7
054	TP47 0.0-0.15	13	28	-	-	1	-	-	-
055	TP48 0.0-0.15	-	28	-	-	-	-	-	-
059	TP51 0.0-0.15	13	-	-	-	1	-	-	-
061	B1 0.0-0.15	-	28	26	-	-	10	11	7
062	B2 0.0-0.15	-	28	26	-	-	10	11	7
063	B3 0.0-0.15	13	28	26	-	1	10	11	7
064	B4 0.0-0.15	13	28	26	-	1	10	11	7
065	B5 0.0-0.15	13	28	26	-	1	10	11	7
066	B6 0.0-0.15	-	28	26	-	-	10	11	7
067	B7 0.0-0.15	-	28	26	11	-	10	11	7
068	B8 0.0-0.15	13	28	26	-	1	10	11	7
069	B9 0.0-0.15	-	28	26	-	-	10	11	7
070	B10 0.0-0.15	-	-	26	-	-	10	11	7
071	P1 0.0-0.15	-	28	26	11	-	10	11	7
072	P1 0.45-0.55	13	-	-	-	1	-	-	-

CONTINUED OVERLEAF

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CLIENT DETAILS

Client **Geotechnique**

Project **14892/2 Catherine Field**

SUMMARY OF ANALYSIS

No.	Sample ID	Exchangeable Cations and Cation Exchange Capacity	OC Pesticides in Soil	PAH (Polynuclear Aromatic Hydrocarbons) in Soil	PCBs in Soil	pH in soil (1:5)	TRH (Total Recoverable Hydrocarbons) in Soil	VOC's in Soil	Volatile Petroleum Hydrocarbons in Soil
073	P2 0.0-0.15	-	28	26	11	-	10	11	7
074	P2 0.5-0.8	13	28	26	11	1	10	11	7
075	P3 0.0-0.15	13	28	26	11	1	10	11	7
077	P4 0.0-0.15	-	28	26	11	-	10	11	7
079	P5 0.0-0.15	13	28	26	11	1	10	11	7
081	DDS4	-	28	-	-	-	-	-	-
082	DDS2	-	28	26	11	-	10	11	7
083	DDS3	-	28	26	11	-	10	11	7
084	DDS1	-	28	26	11	-	10	11	7
086	TS1	-	-	-	-	-	-	11	-
088	TS2	-	-	-	-	-	-	11	-

CONTINUED OVERLEAF

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CLIENT DETAILS

Client **Geotechnique**

Project **14892/2 Catherine Field**

SUMMARY OF ANALYSIS

No.	Sample ID	Mercury in Soil	Moisture Content	Total Recoverable Elements in Soil/Waste
001	TP1 0.0-0.15	1	1	8
002	TP2 0.0-0.15	1	1	8
003	TP3 0.0-0.15	1	1	8
004	TP4 0.0-0.15	1	1	8
005	TP5 0.0-0.15	1	1	8
006	TP5 0.25-0.35	1	1	8
007	TP6 0.0-0.15	1	1	8
008	TP7 0.0-0.15	1	1	8
009	TP8 0.0-0.15	1	1	8
010	TP9 0.0-0.15	1	1	8
011	TP10 0.0-0.15	1	1	8
012	TP11 0.0-0.15	1	1	8
013	TP12 0.0-0.15	1	1	8
014	TP13 0.0-0.15	1	1	8
015	TP13 0.25-0.35	1	1	8
016	TP14 0.0-0.15	1	1	8
017	TP15 0.0-0.15	1	1	8
018	TP16 0.0-0.15	1	1	8
019	TP17 0.0-0.15	1	1	8
020	TP18 0.0-0.15	1	1	8
021	TP19 0.0-0.15	1	1	8
022	TP20 0.0-0.15	1	1	8
023	TP21 0.0-0.15	1	1	8
024	TP21 0.25-0.35	1	1	8

CONTINUED OVERLEAF

The above table represents SGS' interpretation of the client-supplied Chain Of Custody document.

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CLIENT DETAILS

Client **Geotechnique**

Project **14892/2 Catherine Field**

SUMMARY OF ANALYSIS

No.	Sample ID	Mercury in Soil	Moisture Content	Total Recoverable Elements in Soil/Waste
025	TP22 0.0-0.15	1	1	8
026	TP23 0.0-0.15	1	1	8
027	TP24 0.0-0.15	1	1	8
028	TP25 0.0-0.15	1	1	8
029	TP26 0.0-0.15	1	1	8
030	TP27 0.0-0.15	1	1	8
031	TP28 0.0-0.15	1	1	8
032	TP29 0.0-0.15	1	1	8
033	TP30 0.0-0.15	1	1	8
034	TP31 0.0-0.15	1	1	8
035	TP31 0.25-0.35	1	1	8
036	TP32 0.0-0.15	1	1	8
037	TP33 0.0-0.15	1	1	8
038	TP34 0.0-0.15	1	1	8
039	TP35 0.0-0.15	1	1	8
040	TP36 0.0-0.15	1	1	8
041	TP36 0.5-0.8	1	1	8
042	TP37 0.0-0.15	1	1	8
043	TP37 0.5-0.8	1	1	8
044	TP38 0.0-0.15	1	1	8
045	TP39 0.0-0.15	1	1	8
046	TP40 0.0-0.15	1	1	8
047	TP41 0.0-0.15	1	1	8
048	TP42 0.0-0.15	1	1	8

CONTINUED OVERLEAF

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Testing as per this table shall commence immediately unless the client intervenes with a correction .

CLIENT DETAILS

Client **Geotechnique**

Project **14892/2 Catherine Field**

SUMMARY OF ANALYSIS

No.	Sample ID	Mercury in Soil	Moisture Content	Total Recoverable Elements in Soil/Waste
049	TP43 0.0-0.15	1	1	8
050	TP44 0.0-0.15	1	1	8
051	TP45 0.0-0.15	1	1	8
052	TP46 0.0-0.15	1	1	8
053	TP46 0.35-0.45	1	1	8
054	TP47 0.0-0.15	1	1	8
055	TP48 0.0-0.15	1	1	8
056	TP48 0.25-0.35	1	1	8
057	TP49 0.0-0.15	1	1	8
058	TP50 0.0-0.15	1	1	8
059	TP51 0.0-0.15	1	1	8
060	TP52 0.0-0.15	1	1	8
061	B1 0.0-0.15	1	1	8
062	B2 0.0-0.15	1	1	8
063	B3 0.0-0.15	1	1	8
064	B4 0.0-0.15	1	1	8
065	B5 0.0-0.15	1	1	8
066	B6 0.0-0.15	1	1	8
067	B7 0.0-0.15	1	1	8
068	B8 0.0-0.15	1	1	8
069	B9 0.0-0.15	1	1	8
070	B10 0.0-0.15	1	1	8
071	P1 0.0-0.15	1	1	8
072	P1 0.45-0.55	1	1	8

CONTINUED OVERLEAF

The above table represents SGS' interpretation of the client-supplied Chain Of Custody document.
The numbers shown in the table indicate the number of results requested in each package.
Please indicate as soon as possible should your request differ from these details .
Testing as per this table shall commence immediately unless the client intervenes with a correction .

CLIENT DETAILS

Client **Geotechnique**

Project **14892/2 Catherine Field**

SUMMARY OF ANALYSIS

No.	Sample ID	Mercury in Soil	Moisture Content	Total Recoverable Elements in Soil/Waste	VOCs in Water	Volatile Petroleum Hydrocarbons in Water
073	P2 0.0-0.15	1	1	8	-	-
074	P2 0.5-0.8	1	1	8	-	-
075	P3 0.0-0.15	1	1	8	-	-
076	P3 0.55-0.65	1	1	8	-	-
077	P4 0.0-0.15	1	1	8	-	-
078	P4 0.55-0.65	1	1	8	-	-
079	P5 0.0-0.15	1	1	8	-	-
080	P5 0.55-0.65	1	1	8	-	-
081	DDS4	1	1	8	-	-
082	DDS2	1	1	8	-	-
083	DDS3	1	1	8	-	-
084	DDS1	1	1	8	-	-
085	RS1	-	-	-	11	7
087	RS2	-	-	-	11	7

CONTINUED OVERLEAF

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SAMPLE RECEIPT ADVICE

SE218834

CLIENT DETAILS

Client **Geotechnique**

Project **14892/2 Catherine Field**

SUMMARY OF ANALYSIS

No.	Sample ID	Mercury (dissolved) in Water	Metals in Water (Dissolved) by ICPOES	OC Pesticides in Water	PAH (Polynuclear Aromatic Hydrocarbons) in Water	PCBs in Water	TRH (Total Recoverable Hydrocarbons) in Water
085	RS1	1	8	28	23	11	9
087	RS2	1	8	28	23	11	9

The above table represents SGS' interpretation of the client-supplied Chain Of Custody document.
The numbers shown in the table indicate the number of results requested in each package.
Please indicate as soon as possible should your request differ from these details .
Testing as per this table shall commence immediately unless the client intervenes with a correction .

CERTIFICATE OF ANALYSIS 267278

Client Details

Client	Geotechnique Pty Ltd
Attention	Saurabh Sapkota
Address	PO Box 880, Penrith, NSW, 2751

Sample Details

Your Reference	<u>14892/2, Catherine Field</u>
Number of Samples	4 soil
Date samples received	21/04/2021
Date completed instructions received	21/04/2021

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.

Report Details

Date results requested by	27/04/2021
Date of Issue	27/04/2021
NATA Accreditation Number 2901. This document shall not be reproduced except in full.	
Accredited for compliance with ISO/IEC 17025 - Testing. Tests not covered by NATA are denoted with *	

Results Approved By

Dragana Tomas, Senior Chemist
 Hannah Nguyen, Senior Chemist
 Steven Luong, Organics Supervisor

Authorised By



Nancy Zhang, Laboratory Manager

vTRH(C6-C10)/BTEXN in Soil			
Our Reference		267278-3	267278-4
Your Reference	UNITS	DSS1	DSS2
Date Sampled		20/04/2021	20/04/2021
Type of sample		soil	soil
Date extracted	-	22/04/2021	22/04/2021
Date analysed	-	22/04/2021	22/04/2021
TRH C ₆ - C ₉	mg/kg	<25	<25
TRH C ₆ - C ₁₀	mg/kg	<25	<25
vTPH C ₆ - C ₁₀ less BTEX (F1)	mg/kg	<25	<25
Benzene	mg/kg	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1
m+p-xylene	mg/kg	<2	<2
o-Xylene	mg/kg	<1	<1
naphthalene	mg/kg	<1	<1
Total +ve Xylenes	mg/kg	<3	<3
Surrogate aaa-Trifluorotoluene	%	117	121

svTRH (C10-C40) in Soil			
Our Reference		267278-3	267278-4
Your Reference	UNITS	DSS1	DSS2
Date Sampled		20/04/2021	20/04/2021
Type of sample		soil	soil
Date extracted	-	22/04/2021	22/04/2021
Date analysed	-	23/04/2021	23/04/2021
TRH C ₁₀ - C ₁₄	mg/kg	<50	<50
TRH C ₁₅ - C ₂₈	mg/kg	<100	<100
TRH C ₂₉ - C ₃₆	mg/kg	<100	140
TRH >C ₁₀ -C ₁₆	mg/kg	<50	<50
TRH >C ₁₀ - C ₁₆ less Naphthalene (F2)	mg/kg	<50	<50
TRH >C ₁₆ -C ₃₄	mg/kg	<100	110
TRH >C ₃₄ -C ₄₀	mg/kg	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	110
Surrogate o-Terphenyl	%	105	100

PAHs in Soil			
Our Reference		267278-3	267278-4
Your Reference	UNITS	DSS1	DSS2
Date Sampled		20/04/2021	20/04/2021
Type of sample		soil	soil
Date extracted	-	22/04/2021	22/04/2021
Date analysed	-	23/04/2021	23/04/2021
Naphthalene	mg/kg	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	0.2
Anthracene	mg/kg	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	0.2
Pyrene	mg/kg	<0.1	0.2
Benzo(a)anthracene	mg/kg	<0.1	0.1
Chrysene	mg/kg	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	0.09
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	0.81
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5
Surrogate <i>p</i> -Terphenyl-d14	%	116	113

Organochlorine Pesticides in soil					
Our Reference		267278-1	267278-2	267278-3	267278-4
Your Reference	UNITS	DSS4	DSS3	DSS1	DSS2
Date Sampled		19/04/2021	19/04/2021	20/04/2021	20/04/2021
Type of sample		soil	soil	soil	soil
Date extracted	-	22/04/2021	22/04/2021	22/04/2021	22/04/2021
Date analysed	-	23/04/2021	23/04/2021	23/04/2021	23/04/2021
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1
Total +ve DDT+DDD+DDE	mg/kg	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	102	95	97	96

PCBs in Soil		
Our Reference		267278-3
Your Reference	UNITS	DSS1
Date Sampled		20/04/2021
Type of sample		soil
Date extracted	-	22/04/2021
Date analysed	-	23/04/2021
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 TCMX	%	97

Acid Extractable metals in soil					
Our Reference		267278-1	267278-2	267278-3	267278-4
Your Reference	UNITS	DSS4	DSS3	DSS1	DSS2
Date Sampled		19/04/2021	19/04/2021	20/04/2021	20/04/2021
Type of sample		soil	soil	soil	soil
Date prepared	-	23/04/2021	23/04/2021	23/04/2021	23/04/2021
Date analysed	-	23/04/2021	23/04/2021	23/04/2021	23/04/2021
Arsenic	mg/kg	5	5	6	11
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	16	16	12	16
Copper	mg/kg	18	16	29	22
Lead	mg/kg	16	19	13	22
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	7	10	14	11
Manganese	mg/kg	670	990	320	380
Zinc	mg/kg	25	27	64	56

Moisture					
Our Reference		267278-1	267278-2	267278-3	267278-4
Your Reference	UNITS	DSS4	DSS3	DSS1	DSS2
Date Sampled		19/04/2021	19/04/2021	20/04/2021	20/04/2021
Type of sample		soil	soil	soil	soil
Date prepared	-	22/04/2021	22/04/2021	22/04/2021	22/04/2021
Date analysed	-	23/04/2021	23/04/2021	23/04/2021	23/04/2021
Moisture	%	13	12	22	11

Method ID	Methodology Summary
Inorg-008	Moisture content determined by heating at 105+/-5 °C for a minimum of 12 hours.
Metals-020	Determination of various metals by ICP-AES.
Metals-021	Determination of Mercury by Cold Vapour AAS.
Org-020	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-020	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-021	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD.
Org-021	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-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS.
Org-022/025	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-MS/GC-MSMS. 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.

Method ID	Methodology Summary
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS and/or GC-MS/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 are actually at the PQL. This is the most conservative approach and can give false positive TEQs given that PAHs that contribute to the TEQ calculation may not be present. 2. 'EQ zero' values are assuming all contributing PAHs reported as <PQL are zero. This is the least conservative approach and is more susceptible to false negative TEQs when PAHs that contribute to the TEQ calculation are present but below PQL. 3. 'EQ half PQL' values are assuming all contributing PAHs reported as <PQL are half the stipulated PQL. Hence a mid-point between the most and least conservative approaches above. Note, the Total +ve PAHs PQL is reflective of the lowest individual PQL and is therefore "Total +ve PAHs" is simply a sum of the positive individual PAHs.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
Org-023	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.
Org-023	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.

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			22/04/2021	[NT]	[NT]	[NT]	[NT]	22/04/2021	[NT]
Date analysed	-			22/04/2021	[NT]	[NT]	[NT]	[NT]	22/04/2021	[NT]
TRH C ₆ - C ₉	mg/kg	25	Org-023	<25	[NT]	[NT]	[NT]	[NT]	88	[NT]
TRH C ₆ - C ₁₀	mg/kg	25	Org-023	<25	[NT]	[NT]	[NT]	[NT]	88	[NT]
Benzene	mg/kg	0.2	Org-023	<0.2	[NT]	[NT]	[NT]	[NT]	97	[NT]
Toluene	mg/kg	0.5	Org-023	<0.5	[NT]	[NT]	[NT]	[NT]	90	[NT]
Ethylbenzene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	90	[NT]
m+p-xylene	mg/kg	2	Org-023	<2	[NT]	[NT]	[NT]	[NT]	81	[NT]
o-Xylene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	86	[NT]
naphthalene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	95	[NT]	[NT]	[NT]	[NT]	93	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			22/04/2021	[NT]	[NT]	[NT]	[NT]	22/04/2021	[NT]
Date analysed	-			22/04/2021	[NT]	[NT]	[NT]	[NT]	22/04/2021	[NT]
TRH C ₁₀ - C ₁₄	mg/kg	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	134	[NT]
TRH C ₁₅ - C ₂₈	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	101	[NT]
TRH C ₂₉ - C ₃₆	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	92	[NT]
TRH >C ₁₀ -C ₁₆	mg/kg	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	134	[NT]
TRH >C ₁₆ -C ₃₄	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	101	[NT]
TRH >C ₃₄ -C ₄₀	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	92	[NT]
Surrogate o-Terphenyl	%		Org-020	106	[NT]	[NT]	[NT]	[NT]	91	[NT]

QUALITY CONTROL: PAHs in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			22/04/2021	[NT]	[NT]	[NT]	[NT]	22/04/2021	[NT]
Date analysed	-			23/04/2021	[NT]	[NT]	[NT]	[NT]	23/04/2021	[NT]
Naphthalene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	83	[NT]
Acenaphthylene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	77	[NT]
Fluorene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	88	[NT]
Phenanthrene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	109	[NT]
Anthracene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	84	[NT]
Pyrene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	86	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	78	[NT]
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	<0.05	[NT]	[NT]	[NT]	[NT]	75	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	110	[NT]	[NT]	[NT]	[NT]	102	[NT]

QUALITY CONTROL: Organochlorine Pesticides in soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			22/04/2021	[NT]	[NT]	[NT]	[NT]	22/04/2021	[NT]
Date analysed	-			23/04/2021	[NT]	[NT]	[NT]	[NT]	23/04/2021	[NT]
alpha-BHC	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	90	[NT]
HCB	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	94	[NT]
gamma-BHC	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	85	[NT]
delta-BHC	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	97	[NT]
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	95	[NT]
gamma-Chlordane	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	96	[NT]
Dieldrin	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	95	[NT]
Endrin	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	84	[NT]
Endosulfan II	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	77	[NT]
Endrin Aldehyde	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	86	[NT]
Methoxychlor	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	100	[NT]	[NT]	[NT]	[NT]	98	[NT]

QUALITY CONTROL: PCBs in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			22/04/2021	[NT]	[NT]	[NT]	[NT]	22/04/2021	[NT]
Date analysed	-			23/04/2021	[NT]	[NT]	[NT]	[NT]	23/04/2021	[NT]
Aroclor 1016	mg/kg	0.1	Org-021	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-021	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-021	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-021	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-021	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-021	<0.1	[NT]	[NT]	[NT]	[NT]	100	[NT]
Aroclor 1260	mg/kg	0.1	Org-021	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate TCMX	%		Org-021	100	[NT]	[NT]	[NT]	[NT]	98	[NT]

QUALITY CONTROL: Acid Extractable metals in soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date prepared	-			23/04/2021	[NT]	[NT]	[NT]	[NT]	23/04/2021	[NT]
Date analysed	-			23/04/2021	[NT]	[NT]	[NT]	[NT]	23/04/2021	[NT]
Arsenic	mg/kg	4	Metals-020	<4	[NT]	[NT]	[NT]	[NT]	95	[NT]
Cadmium	mg/kg	0.4	Metals-020	<0.4	[NT]	[NT]	[NT]	[NT]	95	[NT]
Chromium	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	105	[NT]
Copper	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	98	[NT]
Lead	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	98	[NT]
Mercury	mg/kg	0.1	Metals-021	<0.1	[NT]	[NT]	[NT]	[NT]	96	[NT]
Nickel	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	94	[NT]
Manganese	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	99	[NT]
Zinc	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	95	[NT]

Result Definitions

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 Control Definitions

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.
Duplicate	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 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 (Laboratory Control Sample)	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 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.	
The recommended maximums for analytes in urine are taken from "2018 TLVs and BEIs", as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.	
Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2	

Laboratory Acceptance Criteria

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 (not SPOCAS); 60-140% for organics/SPOCAS (+/-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.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

GEOTECHNIQUE PTY LTD

1 LEMKO PLACE PENRITH NSW 2750

CHAIN OF CUSTODY

Results Required By: Normal Turnaround 4 days

Date: Tuesday, 27 April 2021

Except pH Results Required By -

Date:

Your Reference No.:

TO: ENVIROLAB SERVICES PTY LTD 12 ASHLEY STREET CHATSWOOD NSW 2067						Sampled By: SS Project Manager: SAURABH SAPKOTA						Ref No: 14892/2 Location: Catherine Field	
Location	Depth (m)	Date	Soil	Material	Metals As Cd Cr Cu Pb Hg Ni Mn Zn	TRH & BTEX	PAH	OCF	PCB	PHENOL	CYANIDE	COMBO NO	COAL TAR (RTA Test Method T542)2
1- DSS4		19/04/2021	G		✓			✓					
2- DSS3		19/04/2021	G		✓			✓					
3- DSS1		20/04/2021	G		✓	✓	✓	✓	✓			5	
4- DSS2		20/04/2021	G		✓	✓	✓	✓				3	
Relinquished by						Received by: ELS SYP.							
Name		Signature		Date		Name Christine		Signature		Date 21/04/21		21	
SAURABH SAPKOTA				21/04/2021									
G	Soil sample (glass jar)	FCP	Fibro Cement Piece (plastic bag)										
P	Soil sample (plastic bag)	✓	Test required										



Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200

Job No: 267278

Date Received: 21/04/21

Time Received: 15:15

Received By: CH

Temp: Cool/Ambient

Cooling: Ice/Icepack

Security: Intact/Broken/None

CH 267278 21/04/21 # 267278.

SAMPLE RECEIPT ADVICE

Client Details

Client	Geotechnique Pty Ltd
Attention	Saurabh Sapkota

Sample Login Details

Your reference	14892/2, Catherine Field
Envirolab Reference	267278
Date Sample Received	21/04/2021
Date Instructions Received	21/04/2021
Date Results Expected to be Reported	27/04/2021

Sample Condition

Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	4 soil
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	15.0
Cooling Method	Ice Pack
Sampling Date Provided	YES

Comments

Nil

Please direct any queries to:

Aileen Hie

Phone: 02 9910 6200
Fax: 02 9910 6201
Email: ahie@envirolab.com.au

Jacinta Hurst

Phone: 02 9910 6200
Fax: 02 9910 6201
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 Pesticides in soil	PCBs in Soil	Acid Extractable metals in soil
DSS4				✓		✓
DSS3				✓		✓
DSS1	✓	✓	✓	✓	✓	✓
DSS2	✓	✓	✓	✓		✓

The '✓' indicates the testing you have requested. **THIS IS NOT A REPORT OF THE RESULTS.**

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.



AUSTRALIAN SAFER ENVIRONMENT & TECHNOLOGY PTY LTD

ABN 36 088 095 112

Our ref : ASET92720 / 95900 / 1 - 11
Your ref : 14892/2 – 268-278 Catherine Fields Road
NATA Accreditation No: 14484

22 April 2021

AI Group
51 Walker Street
North Sydney NSW 2060

Attn: Mr John Tiong



Accredited for compliance with ISO/IEC 17025 - Testing.

Dear John

Asbestos Identification

This report presents the results of eleven samples, forwarded by AI Group on 21 April 2021, for analysis for asbestos.

1.Introduction:Eleven samples forwarded were examined and analysed for the presence of asbestos on 22 April 2021.

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

The report also provides approximate weights and percentages, categories of asbestos forms appearing in the sample, such as **AF**(Asbestos Fines), **FA**(Friable Asbestos) and **ACM** (Asbestos Containing Material), also satisfying the requirements of the WA/ NEPM Guidelines).

3. Results : **Sample No. 1. ASET92720 / 95900 / 1. 14892/2 - TP36-0.0-0.15.**
Approx dimensions 10.0 cm x 10.0 cm x 9.3 cm
Approximate total dry weight of soil = 927.0g.
The sample consisted of a mixture of clayish sandy soil, stones, fragments of wood chips and plant matter.
No asbestos detected.

Sample No. 2. ASET92720 / 95900 / 2. 14892/2 - TP36-0.5-0.8.
Approx dimensions 10.0 cm x 10.0 cm x 8.6 cm
Approximate total dry weight of soil = 862.0g.
The sample consisted of a mixture of clayish sandy soil, stones and plant matter.
No asbestos detected.

Sample No. 3. ASET92720 / 95900 / 3. 14892/2 - TP37-0.0-0.15.
Approx dimensions 10.0 cm x 10.0 cm x 8.7 cm
Approximate total dry weight of soil = 870.0g.
The sample consisted of a mixture of clayish sandy soil, organic fibres, stones, fragments of wood chips and plant matter.
No asbestos detected.

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PHONE: (02) 99872183 FAX: (02)99872151 EMAIL: info@ausset.com.au WEBSITE: www.Ausset.com.au

OCCUPATIONAL HEALTH & SAFETY STUDIES • INDOOR AIR QUALITY SURVEYS • HAZARDOUS MATERIAL SURVEYS • RADIATION SURVEYS • ASBESTOS SURVEYS
ASBESTOS DETECTION & IDENTIFICATION • REPAIR & CALIBRATION OF SCIENTIFIC EQUIPMENT • AIRBORNE FIBRE & SILICA MONITORING



Sample No. 4. ASET92720 / 95900 / 4. 14892/2 - TP37-0.5-0.8.

Approx dimensions 10.0 cm x 10.0 cm x 8.5 cm

Approximate total dry weight of soil = 849.0g.

The sample consisted of a mixture of clayish sandy soil, organic fibres, stones, fragments of paint flakes, wood chips and plant matter.

No asbestos detected.

Sample No. 5. ASET92720 / 95900 / 5. 14892/2 - TP46-0.0-0.15.

Approx dimensions 10.0 cm x 10.0 cm x 9.6 cm

Approximate total dry weight of soil = 958.0g.

The sample consisted of a mixture of clayish sandy soil, organic fibres, stones, fragments of wood chips, char and plant matter.

No asbestos detected.

Sample No. 6. ASET92720 / 95900 / 6. 14892/2 - P1-0.0-0.15.

Approx dimensions 10.0 cm x 10.0 cm x 9.7 cm

Approximate total dry weight of soil = 972.0g.

The sample consisted of a mixture of clayish sandy soil, organic fibres, stones, fragments of wood chips and plant matter.

No asbestos detected.

Sample No. 7. ASET92720 / 95900 / 7. 14892/2 - P2-0.0-0.15.

Approx dimensions 10.0 cm x 10.0 cm x 8.0 cm

Approximate total dry weight of soil = 804.0g.

The sample consisted of a mixture of clayish sandy soil, organic fibres, stones, fragments of wood chips and plant matter.

No asbestos detected.

Sample No. 8. ASET92720 / 95900 / 8. 14892/2 - P2-0.5-0.8.

Approx dimensions 10.0 cm x 10.0 cm x 8.1 cm

Approximate total dry weight of soil = 812.0g.

The sample consisted of a mixture of clayish sandy soil, organic fibres, stones, fragments of plastic, wood chips and plant matter.

No asbestos detected.

Sample No. 9. ASET92720 / 95900 / 9. 14892/2 - P3-0.0-0.15.

Approx dimensions 10.0 cm x 10.0 cm x 10.6 cm

Approximate total dry weight of soil = 1064.0g.

The sample consisted of a mixture of clayish sandy soil, stones and plant matter.

No asbestos detected.

Sample No. 10. ASET92720 / 95900 / 10. 14892/2 - P4-0.0-0.15.

Approx dimensions 10.0 cm x 10.0 cm x 8.8 cm

Approximate total dry weight of soil = 880.0g.

The sample consisted of a mixture of clayish sandy soil, organic fibres, stones, fragments of wood chips and plant matter.

No asbestos detected.

Sample No. 11. ASET92720 / 95900 / 11. 14892/2 - P5-0.0-0.15.

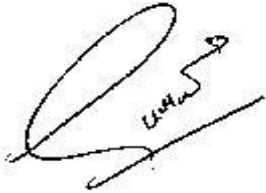
Approx dimensions 10.0 cm x 10.0 cm x 7.6 cm

Approximate total dry weight of soil = 762.0g.

The sample consisted of a mixture of clayish sandy soil, organic fibres, stones, fragments of brick, wood chips and plant matter.

No asbestos detected.

Reported by,



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



Accredited for compliance with ISO/IEC 17025 - Testing.

This report is consistent with the analytical procedures and reporting recommendations in the Western Australia Guidelines for the Assessment Remediation and Management of Asbestos contaminated sites in Western Australia and it also satisfies the requirements of the current NEPM Guidelines. NATA Accreditation does not cover the performance of this service.

Disclaimers;

The approx; weights given above can be used only as a guide. They do not represent absolute weights of each kind of asbestos, as it is impossible to extract all loose fibres from soil and other asbestos containing building material samples using this method. However above figures may be used as closest approximations to the exact values in each case. Estimation and/ or reporting of asbestos fibre weights in asbestos containing materials and soil is out of the Scope of the NATA Accreditation. NATA Accreditation only covers the qualitative part of the results reported. This weight disclaimer also covers weight / weight percentages if given.

ACM - Asbestos Containing Material - Products or materials that contain asbestos in an inert bound matrix such as cement or resin. Here taken to be sound material, even as fragments and not fitting through a 7mm X 7 mm sieve.

AF -Includes asbestos free fibres, small fibre bundles and also ACM fragments that pass through a 7mm X 7 mm sieve.

FA -Friable asbestos material such as severely weathered ACM, and asbestos in the form of loose fibrous material such as insulation products.

^ denotes loose fibres of relevant asbestos types detected in soil/dust.

*** denotes asbestos detected in ACM in bonded form.**

denotes friable asbestos as soft fibro plaster and/ or highly weathered ACM that will easily crumble.

The results contained in this report relate only to the sample/s submitted for testing. Australian Safer Environment & Technology accepts no responsibility for whether or not the submitted sample/s is/are representative. Results indicating "No asbestos detected" indicates a reporting limit specified in AS4964 -2004 which is 0.1g/ Kg (0.01%). Any amounts detected at assumed lower level than that would be reported, however those assumed lower levels may be treated as "No asbestos detected" as specified and recommended by A4964-2004. Trace / respirable level asbestos will be



reported only when detected and trace analysis have been performed on each sample as required by AS4964-2004. When loose asbestos fibres/ fibre bundles are detected and reported that means they are larger handpicked fibres/ fibre bundles, and they do not represent respirable fibres. Dust/soil samples are always subjected to trace analysis except where the amounts involved are extremely minute and trace analysis is not possible to be carried out. When trace analysis is not performed on dust samples it will be indicated in the report that trace analysis has not been carried out due to the volume of the sample being extremely minute.

Estimation of asbestos weights involves the use of following assumptions;

Volume of each kind of Asbestos present in broken edges have been visually estimated and its been assumed that volumes remain similar throughout the binding matrix and those volumes are only approximate and not exact. Material densities have been assumed to be similar to commonly found similar materials and may not be exact.

All samples indicating “No asbestos detected” are assumed to be less than 0.001% for friable AF and FA portions detected and 0.01 % for ACM detected unless the approximate weight is given.



AUSTRALIAN SAFER ENVIRONMENT & TECHNOLOGY PTY LTD
SUITE 710 / 90 GEORGE STREET, HORNSBY NSW 2077 - P.O. BOX 1844 HORNSBY WESTFIELD NSW 1635
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CHAIN OF CUSTODY RECORD

ASET JOB NO: <u>ASET92720/95900/</u>				Contact Name: John T		Asbestos in Material	Asbestos in Soil (+/-)	Asbestos WA/ NEPM 500mL	Asbestos Fibre Count	Asbestos in Water	Asbestos in Dust	Lead Analysis
Name/ Company Name: Ai Group <u>1-11</u>				Job No: 14892/2								
Address:				Project Address: 268-278 Catherine Fields Road								
				Purchase Order:								
Contact Ph: 0418656167				Email Results to:								
	Sample ID	Date	Type	Container	Sample Depth (m)							
1	TP36	19/04/2021	Soil	P	0.0-0.15			✓				
2	TP36	19/04/2021	Soil	P	0.5-0.8			✓				
3	TP37	20/04/2021	Soil	P	0.0-0.15			✓				
4	TP37	20/04/2021	Soil	P	0.5-0.8			✓				
5	TP46	20/04/2021	Soil	P	0.0-0.15			✓				
6	P1	20/04/2021	Soil	P	0.0-0.15			✓				
7	P2	20/04/2021	Soil	P	0.0-0.15			✓				
8	P2	20/04/2021	Soil	P	0.5-0.8			✓				
9	P3	20/04/2021	Soil	P	0.0-0.15			✓				
10	P4	20/04/2021	Soil	P	0.0-0.15			✓				
11	P5	20/04/2021	Soil	P	0.0-0.15			✓				
Relinquished By: John T						Received By: <u>Keh</u>		Turn around time			Shipment Method	
Date & Time: 21/04/2021						Date & Time: <u>21/4/21 3pm</u>		Same Day	24 hrs	48 hrs	3 Days	5 days
Signature: <u>John T</u>						Signature: <u>[Signature]</u>						

RECEIVED
21 APR 2021

BY: [Signature]

APPENDIX I

PROUCL CALCULATION (FOR THE 95% UCL FOR METALS)

	A	B	C	D	E	F	G	H	I	J	K	L
1	UCL Statistics for Uncensored Full Data Sets											
2												
3	User Selected Options											
4	Date/Time of Computation			ProUCL 5.129/04/2021 12:15:52 PM								
5	From File			data sheet.xls								
6	Full Precision			OFF								
7	Confidence Coefficient			95%								
8	Number of Bootstrap Operations			2000								
9												
10												
11	ARSENIC											
12												
13	General Statistics											
14	Total Number of Observations					57	Number of Distinct Observations					12
15							Number of Missing Observations					0
16	Minimum					3	Mean					8.175
17	Maximum					38	Median					8
18	SD					4.528	Std. Error of Mean					0.6
19	Coefficient of Variation					0.554	Skewness					5.242
20												
21	Normal GOF Test											
22	Shapiro Wilk Test Statistic					0.551	Shapiro Wilk GOF Test					
23	5% Shapiro Wilk P Value					0	Data Not Normal at 5% Significance Level					
24	Lilliefors Test Statistic					0.221	Lilliefors GOF Test					
25	5% Lilliefors Critical Value					0.117	Data Not Normal at 5% Significance Level					
26	Data Not Normal at 5% Significance Level											
27												
28	Assuming Normal Distribution											
29	95% Normal UCL						95% UCLs (Adjusted for Skewness)					
30	95% Student's-t UCL					9.179	95% Adjusted-CLT UCL (Chen-1995)					9.607
31							95% Modified-t UCL (Johnson-1978)					9.248
32												
33	Gamma GOF Test											
34	A-D Test Statistic					2.163	Anderson-Darling Gamma GOF Test					
35	5% A-D Critical Value					0.753	Data Not Gamma Distributed at 5% Significance Level					
36	K-S Test Statistic					0.154	Kolmogorov-Smirnov Gamma GOF Test					
37	5% K-S Critical Value					0.118	Data Not Gamma Distributed at 5% Significance Level					
38	Data Not Gamma Distributed at 5% Significance Level											
39												
40	Gamma Statistics											
41	k hat (MLE)					6.624	k star (bias corrected MLE)					6.287
42	Theta hat (MLE)					1.234	Theta star (bias corrected MLE)					1.3
43	nu hat (MLE)					755.2	nu star (bias corrected)					716.8
44	MLE Mean (bias corrected)					8.175	MLE Sd (bias corrected)					3.26
45							Approximate Chi Square Value (0.05)					655.6
46	Adjusted Level of Significance					0.0458	Adjusted Chi Square Value					654.1
47												
48	Assuming Gamma Distribution											
49	95% Approximate Gamma UCL (use when n>=50))					8.938	95% Adjusted Gamma UCL (use when n<50)					8.958
50												
51	Lognormal GOF Test											
52	Shapiro Wilk Test Statistic					0.902	Shapiro Wilk Lognormal GOF Test					
53	5% Shapiro Wilk P Value					9.2094E-5	Data Not Lognormal at 5% Significance Level					
54	Lilliefors Test Statistic					0.136	Lilliefors Lognormal GOF Test					
55	5% Lilliefors Critical Value					0.117	Data Not Lognormal at 5% Significance Level					

	A	B	C	D	E	F	G	H	I	J	K	L
56	Data Not Lognormal at 5% Significance Level											
57												
58	Lognormal Statistics											
59	Minimum of Logged Data				1.099	Mean of logged Data					2.024	
60	Maximum of Logged Data				3.638	SD of logged Data					0.358	
61												
62	Assuming Lognormal Distribution											
63	95% H-UCL				8.772	90% Chebyshev (MVUE) UCL					9.236	
64	95% Chebyshev (MVUE) UCL				9.77	97.5% Chebyshev (MVUE) UCL					10.51	
65	99% Chebyshev (MVUE) UCL				11.96							
66												
67	Nonparametric Distribution Free UCL Statistics											
68	Data do not follow a Discernible Distribution (0.05)											
69												
70	Nonparametric Distribution Free UCLs											
71	95% CLT UCL				9.162	95% Jackknife UCL					9.179	
72	95% Standard Bootstrap UCL				9.152	95% Bootstrap-t UCL					10.09	
73	95% Hall's Bootstrap UCL				13.44	95% Percentile Bootstrap UCL					9.193	
74	95% BCA Bootstrap UCL				9.772							
75	90% Chebyshev(Mean, Sd) UCL				9.975	95% Chebyshev(Mean, Sd) UCL					10.79	
76	97.5% Chebyshev(Mean, Sd) UCL				11.92	99% Chebyshev(Mean, Sd) UCL					14.14	
77												
78	Suggested UCL to Use											
79	95% Student's-t UCL				9.179	or 95% Modified-t UCL					9.248	
80												
81	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL											
82	Recommendations are based upon data size, data distribution, and skewness.											
83	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
84	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
85												
86												
87	CADMIUM											
88												
89	General Statistics											
90	Total Number of Observations				57	Number of Distinct Observations					2	
91						Number of Missing Observations					0	
92	Minimum				0.3	Mean					0.304	
93	Maximum				0.4	Median					0.3	
94	SD				0.0186	Std. Error of Mean					0.00246	
95	Coefficient of Variation				0.0612	Skewness					5.191	
96												
97	Normal GOF Test											
98	Shapiro Wilk Test Statistic				0.193	Shapiro Wilk GOF Test						
99	5% Shapiro Wilk P Value				0	Data Not Normal at 5% Significance Level						
100	Lilliefors Test Statistic				0.54	Lilliefors GOF Test						
101	5% Lilliefors Critical Value				0.117	Data Not Normal at 5% Significance Level						
102	Data Not Normal at 5% Significance Level											
103												
104	Assuming Normal Distribution											
105	95% Normal UCL					95% UCLs (Adjusted for Skewness)						
106	95% Student's-t UCL				0.308	95% Adjusted-CLT UCL (Chen-1995)					0.309	
107						95% Modified-t UCL (Johnson-1978)					0.308	
108												
109	Gamma GOF Test											
110	A-D Test Statistic				21.08	Anderson-Darling Gamma GOF Test						

	A	B	C	D	E	F	G	H	I	J	K	L	
111	5% A-D Critical Value					0.748	Data Not Gamma Distributed at 5% Significance Level						
112	K-S Test Statistic					0.541	Kolmogorov-Smirnov Gamma GOF Test						
113	5% K-S Critical Value					0.118	Data Not Gamma Distributed at 5% Significance Level						
114	Data Not Gamma Distributed at 5% Significance Level												
115													
116	Gamma Statistics												
117	k hat (MLE)					326.1	k star (bias corrected MLE)					309	
118	Theta hat (MLE)					9.3065E-4	Theta star (bias corrected MLE)					9.8231E-4	
119	nu hat (MLE)					37178	nu star (bias corrected)					35223	
120	MLE Mean (bias corrected)					0.304	MLE Sd (bias corrected)					0.0173	
121							Approximate Chi Square Value (0.05)					34788	
122	Adjusted Level of Significance					0.0458	Adjusted Chi Square Value					34776	
123													
124	Assuming Gamma Distribution												
125	95% Approximate Gamma UCL (use when n>=50))					0.307	95% Adjusted Gamma UCL (use when n<50)					0.307	
126													
127	Lognormal GOF Test												
128	Shapiro Wilk Test Statistic					0.193	Shapiro Wilk Lognormal GOF Test						
129	5% Shapiro Wilk P Value					0	Data Not Lognormal at 5% Significance Level						
130	Lilliefors Test Statistic					0.54	Lilliefors Lognormal GOF Test						
131	5% Lilliefors Critical Value					0.117	Data Not Lognormal at 5% Significance Level						
132	Data Not Lognormal at 5% Significance Level												
133													
134	Lognormal Statistics												
135	Minimum of Logged Data					-1.204	Mean of logged Data					-1.194	
136	Maximum of Logged Data					-0.916	SD of logged Data					0.0534	
137													
138	Assuming Lognormal Distribution												
139	95% H-UCL					N/A	90% Chebyshev (MVUE) UCL					0.31	
140	95% Chebyshev (MVUE) UCL					0.313	97.5% Chebyshev (MVUE) UCL					0.317	
141	99% Chebyshev (MVUE) UCL					0.325							
142													
143	Nonparametric Distribution Free UCL Statistics												
144	Data do not follow a Discernible Distribution (0.05)												
145													
146	Nonparametric Distribution Free UCLs												
147	95% CLT UCL					0.308	95% Jackknife UCL					N/A	
148	95% Standard Bootstrap UCL					N/A	95% Bootstrap-t UCL					N/A	
149	95% Hall's Bootstrap UCL					N/A	95% Percentile Bootstrap UCL					N/A	
150	95% BCA Bootstrap UCL					N/A							
151	90% Chebyshev(Mean, Sd) UCL					0.311	95% Chebyshev(Mean, Sd) UCL					0.314	
152	97.5% Chebyshev(Mean, Sd) UCL					0.319	99% Chebyshev(Mean, Sd) UCL					0.328	
153													
154	Suggested UCL to Use												
155	95% Student's-t UCL					0.308	or 95% Modified-t UCL					0.308	
156													
157	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL												
158	Recommendations are based upon data size, data distribution, and skewness.												
159	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).												
160	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician												
161													
162													
163	CHROMIUM (Total)												
164													
165	General Statistics												

	A	B	C	D	E	F	G	H	I	J	K	L
166	Total Number of Observations					57	Number of Distinct Observations					13
167							Number of Missing Observations					0
168	Minimum					9.8	Mean					14.42
169	Maximum					22	Median					14
170	SD					2.651	Std. Error of Mean					0.351
171	Coefficient of Variation					0.184	Skewness					0.771
172												
173	Normal GOF Test											
174	Shapiro Wilk Test Statistic					0.942	Shapiro Wilk GOF Test					
175	5% Shapiro Wilk P Value					0.0142	Data Not Normal at 5% Significance Level					
176	Lilliefors Test Statistic					0.142	Lilliefors GOF Test					
177	5% Lilliefors Critical Value					0.117	Data Not Normal at 5% Significance Level					
178	Data Not Normal at 5% Significance Level											
179												
180	Assuming Normal Distribution											
181	95% Normal UCL						95% UCLs (Adjusted for Skewness)					
182	95% Student's-t UCL					15	95% Adjusted-CLT UCL (Chen-1995)					15.03
183							95% Modified-t UCL (Johnson-1978)					15.01
184												
185	Gamma GOF Test											
186	A-D Test Statistic					0.663	Anderson-Darling Gamma GOF Test					
187	5% A-D Critical Value					0.748	ected data appear Gamma Distributed at 5% Significance Level					
188	K-S Test Statistic					0.121	Kolmogorov-Smirnov Gamma GOF Test					
189	5% K-S Critical Value					0.118	Data Not Gamma Distributed at 5% Significance Level					
190	Detected data follow Appr. Gamma Distribution at 5% Significance Level											
191												
192	Gamma Statistics											
193	k hat (MLE)					31.7	k star (bias corrected MLE)					30.04
194	Theta hat (MLE)					0.455	Theta star (bias corrected MLE)					0.48
195	nu hat (MLE)					3613	nu star (bias corrected)					3424
196	MLE Mean (bias corrected)					14.42	MLE Sd (bias corrected)					2.631
197							Approximate Chi Square Value (0.05)					3289
198	Adjusted Level of Significance					0.0458	Adjusted Chi Square Value					3286
199												
200	Assuming Gamma Distribution											
201	95% Approximate Gamma UCL (use when n>=50)					15.01	95% Adjusted Gamma UCL (use when n<50)					15.02
202												
203	Lognormal GOF Test											
204	Shapiro Wilk Test Statistic					0.967	Shapiro Wilk Lognormal GOF Test					
205	5% Shapiro Wilk P Value					0.253	Data appear Lognormal at 5% Significance Level					
206	Lilliefors Test Statistic					0.109	Lilliefors Lognormal GOF Test					
207	5% Lilliefors Critical Value					0.117	Data appear Lognormal at 5% Significance Level					
208	Data appear Lognormal at 5% Significance Level											
209												
210	Lognormal Statistics											
211	Minimum of Logged Data					2.282	Mean of logged Data					2.653
212	Maximum of Logged Data					3.091	SD of logged Data					0.178
213												
214	Assuming Lognormal Distribution											
215	95% H-UCL					15.02	90% Chebyshev (MVUE) UCL					15.44
216	95% Chebyshev (MVUE) UCL					15.91	97.5% Chebyshev (MVUE) UCL					16.55
217	99% Chebyshev (MVUE) UCL					17.82						
218												
219	Nonparametric Distribution Free UCL Statistics											
220	Data appear to follow a Discernible Distribution at 5% Significance Level											

	A	B	C	D	E	F	G	H	I	J	K	L
221												
222	Nonparametric Distribution Free UCLs											
223	95% CLT UCL					15	95% Jackknife UCL					15
224	95% Standard Bootstrap UCL					14.98	95% Bootstrap-t UCL					15.05
225	95% Hall's Bootstrap UCL					15.03	95% Percentile Bootstrap UCL					15
226	95% BCA Bootstrap UCL					15.05						
227	90% Chebyshev(Mean, Sd) UCL					15.47	95% Chebyshev(Mean, Sd) UCL					15.95
228	97.5% Chebyshev(Mean, Sd) UCL					16.61	99% Chebyshev(Mean, Sd) UCL					17.91
229												
230	Suggested UCL to Use											
231	95% Approximate Gamma UCL					15.01						
232												
233	When a data set follows an approximate (e.g., normal) distribution passing one of the GOF test											
234	When applicable, it is suggested to use a UCL based upon a distribution (e.g., gamma) passing both GOF tests in ProUCL											
235												
236	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL											
237	Recommendations are based upon data size, data distribution, and skewness.											
238	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
239	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician											
240												
241												
242	COPPER											
243												
244	General Statistics											
245	Total Number of Observations					57	Number of Distinct Observations					18
246							Number of Missing Observations					0
247	Minimum					7.7	Mean					15.99
248	Maximum					28	Median					16
249	SD					4.218	Std. Error of Mean					0.559
250	Coefficient of Variation					0.264	Skewness					0.548
251												
252	Normal GOF Test											
253	Shapiro Wilk Test Statistic					0.97	Shapiro Wilk GOF Test					
254	5% Shapiro Wilk P Value					0.322	Data appear Normal at 5% Significance Level					
255	Lilliefors Test Statistic					0.113	Lilliefors GOF Test					
256	5% Lilliefors Critical Value					0.117	Data appear Normal at 5% Significance Level					
257	Data appear Normal at 5% Significance Level											
258												
259	Assuming Normal Distribution											
260	95% Normal UCL						95% UCLs (Adjusted for Skewness)					
261	95% Student's-t UCL					16.93	95% Adjusted-CLT UCL (Chen-1995)					16.96
262							95% Modified-t UCL (Johnson-1978)					16.93
263												
264	Gamma GOF Test											
265	A-D Test Statistic					0.291	Anderson-Darling Gamma GOF Test					
266	5% A-D Critical Value					0.75	Detected data appear Gamma Distributed at 5% Significance Level					
267	K-S Test Statistic					0.0947	Kolmogorov-Smirnov Gamma GOF Test					
268	5% K-S Critical Value					0.118	Detected data appear Gamma Distributed at 5% Significance Level					
269	Detected data appear Gamma Distributed at 5% Significance Level											
270												
271	Gamma Statistics											
272	k hat (MLE)					14.73	k star (bias corrected MLE)					13.96
273	Theta hat (MLE)					1.086	Theta star (bias corrected MLE)					1.145
274	nu hat (MLE)					1679	nu star (bias corrected)					1592
275	MLE Mean (bias corrected)					15.99	MLE Sd (bias corrected)					4.28

	A	B	C	D	E	F	G	H	I	J	K	L
276							Approximate Chi Square Value (0.05)					1500
277	Adjusted Level of Significance					0.0458	Adjusted Chi Square Value					1498
278												
279	Assuming Gamma Distribution											
280	95% Approximate Gamma UCL (use when n>=50))					16.97	95% Adjusted Gamma UCL (use when n<50)					17
281												
282	Lognormal GOF Test											
283	Shapiro Wilk Test Statistic					0.984	Shapiro Wilk Lognormal GOF Test					
284	5% Shapiro Wilk P Value					0.837	Data appear Lognormal at 5% Significance Level					
285	Lilliefors Test Statistic					0.11	Lilliefors Lognormal GOF Test					
286	5% Lilliefors Critical Value					0.117	Data appear Lognormal at 5% Significance Level					
287	Data appear Lognormal at 5% Significance Level											
288												
289	Lognormal Statistics											
290	Minimum of Logged Data					2.041	Mean of logged Data					2.738
291	Maximum of Logged Data					3.332	SD of logged Data					0.267
292												
293	Assuming Lognormal Distribution											
294	95% H-UCL					17.02	90% Chebyshev (MVUE) UCL					17.73
295	95% Chebyshev (MVUE) UCL					18.51	97.5% Chebyshev (MVUE) UCL					19.59
296	99% Chebyshev (MVUE) UCL					21.72						
297												
298	Nonparametric Distribution Free UCL Statistics											
299	Data appear to follow a Discernible Distribution at 5% Significance Level											
300												
301	Nonparametric Distribution Free UCLs											
302	95% CLT UCL					16.91	95% Jackknife UCL					16.93
303	95% Standard Bootstrap UCL					16.91	95% Bootstrap-t UCL					17
304	95% Hall's Bootstrap UCL					17	95% Percentile Bootstrap UCL					16.86
305	95% BCA Bootstrap UCL					16.9						
306	90% Chebyshev(Mean, Sd) UCL					17.67	95% Chebyshev(Mean, Sd) UCL					18.43
307	97.5% Chebyshev(Mean, Sd) UCL					19.48	99% Chebyshev(Mean, Sd) UCL					21.55
308												
309	Suggested UCL to Use											
310	95% Student's-t UCL					16.93						
311												
312	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL											
313	Recommendations are based upon data size, data distribution, and skewness.											
314	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
315	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician											
316												
317												
318	LEAD											
319												
320	General Statistics											
321	Total Number of Observations					57	Number of Distinct Observations					22
322							Number of Missing Observations					0
323	Minimum					12	Mean					24.47
324	Maximum					110	Median					21
325	SD					14.4	Std. Error of Mean					1.907
326	Coefficient of Variation					0.588	Skewness					4.582
327												
328	Normal GOF Test											
329	Shapiro Wilk Test Statistic					0.522	Shapiro Wilk GOF Test					
330	5% Shapiro Wilk P Value					0	Data Not Normal at 5% Significance Level					

	A	B	C	D	E	F	G	H	I	J	K	L	
331	Lilliefors Test Statistic					0.29	Lilliefors GOF Test						
332	5% Lilliefors Critical Value					0.117	Data Not Normal at 5% Significance Level						
333	Data Not Normal at 5% Significance Level												
334													
335	Assuming Normal Distribution												
336	95% Normal UCL					95% UCLs (Adjusted for Skewness)							
337	95% Student's-t UCL					27.66	95% Adjusted-CLT UCL (Chen-1995)					28.85	
338							95% Modified-t UCL (Johnson-1978)					27.86	
339													
340	Gamma GOF Test												
341	A-D Test Statistic					4.06	Anderson-Darling Gamma GOF Test						
342	5% A-D Critical Value					0.753	Data Not Gamma Distributed at 5% Significance Level						
343	K-S Test Statistic					0.211	Kolmogorov-Smirnov Gamma GOF Test						
344	5% K-S Critical Value					0.118	Data Not Gamma Distributed at 5% Significance Level						
345	Data Not Gamma Distributed at 5% Significance Level												
346													
347	Gamma Statistics												
348	k hat (MLE)					6.239	k star (bias corrected MLE)					5.922	
349	Theta hat (MLE)					3.923	Theta star (bias corrected MLE)					4.132	
350	nu hat (MLE)					711.3	nu star (bias corrected)					675.2	
351	MLE Mean (bias corrected)					24.47	MLE Sd (bias corrected)					10.06	
352							Approximate Chi Square Value (0.05)					615.9	
353	Adjusted Level of Significance					0.0458	Adjusted Chi Square Value					614.4	
354													
355	Assuming Gamma Distribution												
356	95% Approximate Gamma UCL (use when n>=50))					26.83	95% Adjusted Gamma UCL (use when n<50)					26.89	
357													
358	Lognormal GOF Test												
359	Shapiro Wilk Test Statistic					0.826	Shapiro Wilk Lognormal GOF Test						
360	5% Shapiro Wilk P Value					8.9663E-9	Data Not Lognormal at 5% Significance Level						
361	Lilliefors Test Statistic					0.164	Lilliefors Lognormal GOF Test						
362	5% Lilliefors Critical Value					0.117	Data Not Lognormal at 5% Significance Level						
363	Data Not Lognormal at 5% Significance Level												
364													
365	Lognormal Statistics												
366	Minimum of Logged Data					2.485	Mean of logged Data					3.115	
367	Maximum of Logged Data					4.7	SD of logged Data					0.353	
368													
369	Assuming Lognormal Distribution												
370	95% H-UCL					26.05	90% Chebyshev (MVUE) UCL					27.42	
371	95% Chebyshev (MVUE) UCL					28.98	97.5% Chebyshev (MVUE) UCL					31.15	
372	99% Chebyshev (MVUE) UCL					35.42							
373													
374	Nonparametric Distribution Free UCL Statistics												
375	Data do not follow a Discernible Distribution (0.05)												
376													
377	Nonparametric Distribution Free UCLs												
378	95% CLT UCL					27.61	95% Jackknife UCL					27.66	
379	95% Standard Bootstrap UCL					27.59	95% Bootstrap-t UCL					32.11	
380	95% Hall's Bootstrap UCL					43.2	95% Percentile Bootstrap UCL					28.11	
381	95% BCA Bootstrap UCL					29.47							
382	90% Chebyshev(Mean, Sd) UCL					30.19	95% Chebyshev(Mean, Sd) UCL					32.78	
383	97.5% Chebyshev(Mean, Sd) UCL					36.38	99% Chebyshev(Mean, Sd) UCL					43.44	
384													
385	Suggested UCL to Use												

	A	B	C	D	E	F	G	H	I	J	K	L
386	95% Student's-t UCL					27.66	or 95% Modified-t UCL					27.86
387												
388	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL											
389	Recommendations are based upon data size, data distribution, and skewness.											
390	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
391	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician											
392												
393												
394	MANGANESE											
395												
396	General Statistics											
397	Total Number of Observations				57	Number of Distinct Observations				32		
398						Number of Missing Observations				0		
399	Minimum				300	Mean				1750		
400	Maximum				4300	Median				1600		
401	SD				878	Std. Error of Mean				116.3		
402	Coefficient of Variation				0.502	Skewness				0.898		
403												
404	Normal GOF Test											
405	Shapiro Wilk Test Statistic				0.935	Shapiro Wilk GOF Test						
406	5% Shapiro Wilk P Value				0.00629	Data Not Normal at 5% Significance Level						
407	Lilliefors Test Statistic				0.134	Lilliefors GOF Test						
408	5% Lilliefors Critical Value				0.117	Data Not Normal at 5% Significance Level						
409	Data Not Normal at 5% Significance Level											
410												
411	Assuming Normal Distribution											
412	95% Normal UCL					95% UCLs (Adjusted for Skewness)						
413	95% Student's-t UCL				1945	95% Adjusted-CLT UCL (Chen-1995)				1956		
414						95% Modified-t UCL (Johnson-1978)				1947		
415												
416	Gamma GOF Test											
417	A-D Test Statistic				0.232	Anderson-Darling Gamma GOF Test						
418	5% A-D Critical Value				0.754	Detected data appear Gamma Distributed at 5% Significance Level						
419	K-S Test Statistic				0.0713	Kolmogorov-Smirnov Gamma GOF Test						
420	5% K-S Critical Value				0.118	Detected data appear Gamma Distributed at 5% Significance Level						
421	Detected data appear Gamma Distributed at 5% Significance Level											
422												
423	Gamma Statistics											
424	k hat (MLE)				4.028	k star (bias corrected MLE)				3.827		
425	Theta hat (MLE)				434.5	Theta star (bias corrected MLE)				457.2		
426	nu hat (MLE)				459.2	nu star (bias corrected)				436.3		
427	MLE Mean (bias corrected)				1750	MLE Sd (bias corrected)				894.5		
428						Approximate Chi Square Value (0.05)				388.9		
429	Adjusted Level of Significance				0.0458	Adjusted Chi Square Value				387.7		
430												
431	Assuming Gamma Distribution											
432	95% Approximate Gamma UCL (use when n>=50)				1963	95% Adjusted Gamma UCL (use when n<50)				1969		
433												
434	Lognormal GOF Test											
435	Shapiro Wilk Test Statistic				0.975	Shapiro Wilk Lognormal GOF Test						
436	5% Shapiro Wilk P Value				0.489	Data appear Lognormal at 5% Significance Level						
437	Lilliefors Test Statistic				0.0909	Lilliefors Lognormal GOF Test						
438	5% Lilliefors Critical Value				0.117	Data appear Lognormal at 5% Significance Level						
439	Data appear Lognormal at 5% Significance Level											
440												

	A	B	C	D	E	F	G	H	I	J	K	L
441	Lognormal Statistics											
442	Minimum of Logged Data					5.704	Mean of logged Data					7.338
443	Maximum of Logged Data					8.366	SD of logged Data					0.535
444												
445	Assuming Lognormal Distribution											
446	95% H-UCL					2034	90% Chebyshev (MVUE) UCL					2167
447	95% Chebyshev (MVUE) UCL					2347	97.5% Chebyshev (MVUE) UCL					2598
448	99% Chebyshev (MVUE) UCL					3089						
449												
450	Nonparametric Distribution Free UCL Statistics											
451	Data appear to follow a Discernible Distribution at 5% Significance Level											
452												
453	Nonparametric Distribution Free UCLs											
454	95% CLT UCL					1941	95% Jackknife UCL					1945
455	95% Standard Bootstrap UCL					1946	95% Bootstrap-t UCL					1951
456	95% Hall's Bootstrap UCL					1943	95% Percentile Bootstrap UCL					1944
457	95% BCA Bootstrap UCL					1965						
458	90% Chebyshev(Mean, Sd) UCL					2099	95% Chebyshev(Mean, Sd) UCL					2257
459	97.5% Chebyshev(Mean, Sd) UCL					2476	99% Chebyshev(Mean, Sd) UCL					2907
460												
461	Suggested UCL to Use											
462	95% Approximate Gamma UCL					1963						
463												
464	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL											
465	Recommendations are based upon data size, data distribution, and skewness.											
466	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
467	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
468												
469												
470	MERCURY											
471												
472	General Statistics											
473	Total Number of Observations					57	Number of Distinct Observations					2
474							Number of Missing Observations					0
475	Minimum					0.05	Mean					0.0504
476	Maximum					0.06	Median					0.05
477	SD					0.00186	Std. Error of Mean					2.4588E-4
478	Coefficient of Variation					0.0369	Skewness					5.191
479												
480	Normal GOF Test											
481	Shapiro Wilk Test Statistic					0.193	Shapiro Wilk GOF Test					
482	5% Shapiro Wilk P Value					0	Data Not Normal at 5% Significance Level					
483	Lilliefors Test Statistic					0.54	Lilliefors GOF Test					
484	5% Lilliefors Critical Value					0.117	Data Not Normal at 5% Significance Level					
485	Data Not Normal at 5% Significance Level											
486												
487	Assuming Normal Distribution											
488	95% Normal UCL						95% UCLs (Adjusted for Skewness)					
489	95% Student's-t UCL					0.0508	95% Adjusted-CLT UCL (Chen-1995)					0.0509
490							95% Modified-t UCL (Johnson-1978)					0.0508
491												
492	Gamma GOF Test											
493	A-D Test Statistic					21.08	Anderson-Darling Gamma GOF Test					
494	5% A-D Critical Value					0.748	Data Not Gamma Distributed at 5% Significance Level					
495	K-S Test Statistic					0.541	Kolmogorov-Smirnov Gamma GOF Test					

	A	B	C	D	E	F	G	H	I	J	K	L	
496	5% K-S Critical Value					0.118	Data Not Gamma Distributed at 5% Significance Level						
497	Data Not Gamma Distributed at 5% Significance Level												
498													
499	Gamma Statistics												
500	k hat (MLE)				839.4	k star (bias corrected MLE)				795.2			
501	Theta hat (MLE)				5.9985E-5	Theta star (bias corrected MLE)				6.3317E-5			
502	nu hat (MLE)				95691	nu star (bias corrected)				90656			
503	MLE Mean (bias corrected)				0.0504	MLE Sd (bias corrected)				0.00179			
504						Approximate Chi Square Value (0.05)				89956			
505	Adjusted Level of Significance				0.0458	Adjusted Chi Square Value				89938			
506													
507	Assuming Gamma Distribution												
508	95% Approximate Gamma UCL (use when n>=50))				0.0507	95% Adjusted Gamma UCL (use when n<50)				0.0508			
509													
510	Lognormal GOF Test												
511	Shapiro Wilk Test Statistic				0.193	Shapiro Wilk Lognormal GOF Test							
512	5% Shapiro Wilk P Value				0	Data Not Lognormal at 5% Significance Level							
513	Lilliefors Test Statistic				0.54	Lilliefors Lognormal GOF Test							
514	5% Lilliefors Critical Value				0.117	Data Not Lognormal at 5% Significance Level							
515	Data Not Lognormal at 5% Significance Level												
516													
517	Lognormal Statistics												
518	Minimum of Logged Data				-2.996	Mean of logged Data				-2.989			
519	Maximum of Logged Data				-2.813	SD of logged Data				0.0338			
520													
521	Assuming Lognormal Distribution												
522	95% H-UCL				N/A	90% Chebyshev (MVUE) UCL				0.051			
523	95% Chebyshev (MVUE) UCL				0.0513	97.5% Chebyshev (MVUE) UCL				0.0518			
524	99% Chebyshev (MVUE) UCL				0.0526								
525													
526	Nonparametric Distribution Free UCL Statistics												
527	Data do not follow a Discernible Distribution (0.05)												
528													
529	Nonparametric Distribution Free UCLs												
530	95% CLT UCL				0.0508	95% Jackknife UCL				N/A			
531	95% Standard Bootstrap UCL				N/A	95% Bootstrap-t UCL				N/A			
532	95% Hall's Bootstrap UCL				N/A	95% Percentile Bootstrap UCL				N/A			
533	95% BCA Bootstrap UCL				N/A								
534	90% Chebyshev(Mean, Sd) UCL				0.0511	95% Chebyshev(Mean, Sd) UCL				0.0514			
535	97.5% Chebyshev(Mean, Sd) UCL				0.0519	99% Chebyshev(Mean, Sd) UCL				0.0528			
536													
537	Suggested UCL to Use												
538	95% Student's-t UCL				0.0508	or 95% Modified-t UCL				0.0508			
539													
540	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL												
541	Recommendations are based upon data size, data distribution, and skewness.												
542	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).												
543	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.												
544													
545													
546	NICKEL												
547													
548	General Statistics												
549	Total Number of Observations				57	Number of Distinct Observations				31			
550						Number of Missing Observations				0			

	A	B	C	D	E	F	G	H	I	J	K	L	
551	Minimum					5.6	Mean						9.607
552	Maximum					21	Median						9.3
553	SD					3.079	Std. Error of Mean						0.408
554	Coefficient of Variation					0.321	Skewness						1.192
555													
556	Normal GOF Test												
557	Shapiro Wilk Test Statistic					0.918	Shapiro Wilk GOF Test						
558	5% Shapiro Wilk P Value					6.7313E-4	Data Not Normal at 5% Significance Level						
559	Lilliefors Test Statistic					0.116	Lilliefors GOF Test						
560	5% Lilliefors Critical Value					0.117	Data appear Normal at 5% Significance Level						
561	Data appear Approximate Normal at 5% Significance Level												
562													
563	Assuming Normal Distribution												
564	95% Normal UCL					95% UCLs (Adjusted for Skewness)							
565	95% Student's-t UCL					10.29	95% Adjusted-CLT UCL (Chen-1995)						10.35
566							95% Modified-t UCL (Johnson-1978)						10.3
567													
568	Gamma GOF Test												
569	A-D Test Statistic					0.418	Anderson-Darling Gamma GOF Test						
570	5% A-D Critical Value					0.75	ected data appear Gamma Distributed at 5% Significance Level						
571	K-S Test Statistic					0.0775	Kolmogorov-Smirnov Gamma GOF Test						
572	5% K-S Critical Value					0.118	ected data appear Gamma Distributed at 5% Significance Level						
573	Detected data appear Gamma Distributed at 5% Significance Level												
574													
575	Gamma Statistics												
576	k hat (MLE)					11.01	k star (bias corrected MLE)						10.45
577	Theta hat (MLE)					0.872	Theta star (bias corrected MLE)						0.92
578	nu hat (MLE)					1256	nu star (bias corrected)						1191
579	MLE Mean (bias corrected)					9.607	MLE Sd (bias corrected)						2.973
580							Approximate Chi Square Value (0.05)						1112
581	Adjusted Level of Significance					0.0458	Adjusted Chi Square Value						1110
582													
583	Assuming Gamma Distribution												
584	95% Approximate Gamma UCL (use when n>=50))					10.29	95% Adjusted Gamma UCL (use when n<50)						10.31
585													
586	Lognormal GOF Test												
587	Shapiro Wilk Test Statistic					0.967	Shapiro Wilk Lognormal GOF Test						
588	5% Shapiro Wilk P Value					0.249	Data appear Lognormal at 5% Significance Level						
589	Lilliefors Test Statistic					0.0658	Lilliefors Lognormal GOF Test						
590	5% Lilliefors Critical Value					0.117	Data appear Lognormal at 5% Significance Level						
591	Data appear Lognormal at 5% Significance Level												
592													
593	Lognormal Statistics												
594	Minimum of Logged Data					1.723	Mean of logged Data						2.216
595	Maximum of Logged Data					3.045	SD of logged Data						0.302
596													
597	Assuming Lognormal Distribution												
598	95% H-UCL					10.28	90% Chebyshev (MVUE) UCL						10.77
599	95% Chebyshev (MVUE) UCL					11.3	97.5% Chebyshev (MVUE) UCL						12.04
600	99% Chebyshev (MVUE) UCL					13.49							
601													
602	Nonparametric Distribution Free UCL Statistics												
603	Data appear to follow a Discernible Distribution at 5% Significance Level												
604													
605	Nonparametric Distribution Free UCLs												

	A	B	C	D	E	F	G	H	I	J	K	L
606	95% CLT UCL					10.28	95% Jackknife UCL					10.29
607	95% Standard Bootstrap UCL					10.28	95% Bootstrap-t UCL					10.37
608	95% Hall's Bootstrap UCL					10.37	95% Percentile Bootstrap UCL					10.3
609	95% BCA Bootstrap UCL					10.37						
610	90% Chebyshev(Mean, Sd) UCL					10.83	95% Chebyshev(Mean, Sd) UCL					11.38
611	97.5% Chebyshev(Mean, Sd) UCL					12.15	99% Chebyshev(Mean, Sd) UCL					13.66
612												
613	Suggested UCL to Use											
614	95% Student's-t UCL					10.29						
615												
616	When a data set follows an approximate (e.g., normal) distribution passing one of the GOF test											
617	When applicable, it is suggested to use a UCL based upon a distribution (e.g., gamma) passing both GOF tests in ProUCL											
618												
619	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL											
620	Recommendations are based upon data size, data distribution, and skewness.											
621	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
622	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician											
623												
624												
625	ZINC											
626												
627	General Statistics											
628	Total Number of Observations					57	Number of Distinct Observations					37
629							Number of Missing Observations					0
630	Minimum					15	Mean					62.95
631	Maximum					560	Median					34
632	SD					83.25	Std. Error of Mean					11.03
633	Coefficient of Variation					1.323	Skewness					4.349
634												
635	Normal GOF Test											
636	Shapiro Wilk Test Statistic					0.517	Shapiro Wilk GOF Test					
637	5% Shapiro Wilk P Value					0	Data Not Normal at 5% Significance Level					
638	Lilliefors Test Statistic					0.314	Lilliefors GOF Test					
639	5% Lilliefors Critical Value					0.117	Data Not Normal at 5% Significance Level					
640	Data Not Normal at 5% Significance Level											
641												
642	Assuming Normal Distribution											
643	95% Normal UCL						95% UCLs (Adjusted for Skewness)					
644	95% Student's-t UCL					81.39	95% Adjusted-CLT UCL (Chen-1995)					87.87
645							95% Modified-t UCL (Johnson-1978)					82.45
646												
647	Gamma GOF Test											
648	A-D Test Statistic					4.714	Anderson-Darling Gamma GOF Test					
649	5% A-D Critical Value					0.768	Data Not Gamma Distributed at 5% Significance Level					
650	K-S Test Statistic					0.285	Kolmogorov-Smirnov Gamma GOF Test					
651	5% K-S Critical Value					0.12	Data Not Gamma Distributed at 5% Significance Level					
652	Data Not Gamma Distributed at 5% Significance Level											
653												
654	Gamma Statistics											
655	k hat (MLE)					1.536	k star (bias corrected MLE)					1.467
656	Theta hat (MLE)					40.99	Theta star (bias corrected MLE)					42.92
657	nu hat (MLE)					175.1	nu star (bias corrected)					167.2
658	MLE Mean (bias corrected)					62.95	MLE Sd (bias corrected)					51.98
659							Approximate Chi Square Value (0.05)					138.3
660	Adjusted Level of Significance					0.0458	Adjusted Chi Square Value					137.6

	A	B	C	D	E	F	G	H	I	J	K	L
661												
662	Assuming Gamma Distribution											
663	95% Approximate Gamma UCL (use when n>=50))					76.1	95% Adjusted Gamma UCL (use when n<50)					76.48
664												
665	Lognormal GOF Test											
666	Shapiro Wilk Test Statistic					0.868	Shapiro Wilk Lognormal GOF Test					
667	5% Shapiro Wilk P Value					1.3534E-6	Data Not Lognormal at 5% Significance Level					
668	Lilliefors Test Statistic					0.231	Lilliefors Lognormal GOF Test					
669	5% Lilliefors Critical Value					0.117	Data Not Lognormal at 5% Significance Level					
670	Data Not Lognormal at 5% Significance Level											
671												
672	Lognormal Statistics											
673	Minimum of Logged Data					2.708	Mean of logged Data					3.783
674	Maximum of Logged Data					6.328	SD of logged Data					0.726
675												
676	Assuming Lognormal Distribution											
677	95% H-UCL					69.84	90% Chebyshev (MVUE) UCL					74.96
678	95% Chebyshev (MVUE) UCL					83.16	97.5% Chebyshev (MVUE) UCL					94.54
679	99% Chebyshev (MVUE) UCL					116.9						
680												
681	Nonparametric Distribution Free UCL Statistics											
682	Data do not follow a Discernible Distribution (0.05)											
683												
684	Nonparametric Distribution Free UCLs											
685	95% CLT UCL					81.08	95% Jackknife UCL					81.39
686	95% Standard Bootstrap UCL					81.27	95% Bootstrap-t UCL					99.37
687	95% Hall's Bootstrap UCL					150	95% Percentile Bootstrap UCL					82.81
688	95% BCA Bootstrap UCL					90.93						
689	90% Chebyshev(Mean, Sd) UCL					96.03	95% Chebyshev(Mean, Sd) UCL					111
690	97.5% Chebyshev(Mean, Sd) UCL					131.8	99% Chebyshev(Mean, Sd) UCL					172.7
691												
692	Suggested UCL to Use											
693	95% Chebyshev (Mean, Sd) UCL					111						
694												
695	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL											
696	Recommendations are based upon data size, data distribution, and skewness.											
697	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
698	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician											
699												

	A	B	C	D	E	F	G	H	I	J	K	L
1	UCL Statistics for Uncensored Full Data Sets											
2												
3	User Selected Options											
4	Date/Time of Computation			ProUCL 5.129/04/2021 1:43:43 PM								
5	From File			data sheet_a.xls								
6	Full Precision			OFF								
7	Confidence Coefficient			95%								
8	Number of Bootstrap Operations			2000								
9												
10												
11	ARSENIC											
12												
13	General Statistics											
14	Total Number of Observations				12		Number of Distinct Observations				9	
15							Number of Missing Observations				0	
16	Minimum				1		Mean				7.333	
17	Maximum				21		Median				6.5	
18	SD				4.997		Std. Error of Mean				1.443	
19	Coefficient of Variation				0.681		Skewness				1.924	
20												
21	Normal GOF Test											
22	Shapiro Wilk Test Statistic				0.819		Shapiro Wilk GOF Test					
23	5% Shapiro Wilk Critical Value				0.859		Data Not Normal at 5% Significance Level					
24	Lilliefors Test Statistic				0.213		Lilliefors GOF Test					
25	5% Lilliefors Critical Value				0.243		Data appear Normal at 5% Significance Level					
26	Data appear Approximate Normal at 5% Significance Level											
27												
28	Assuming Normal Distribution											
29	95% Normal UCL					95% UCLs (Adjusted for Skewness)						
30	95% Student's-t UCL				9.924		95% Adjusted-CLT UCL (Chen-1995)				10.56	
31							95% Modified-t UCL (Johnson-1978)				10.06	
32												
33	Gamma GOF Test											
34	A-D Test Statistic				0.414		Anderson-Darling Gamma GOF Test					
35	5% A-D Critical Value				0.74		Detected data appear Gamma Distributed at 5% Significance Level					
36	K-S Test Statistic				0.195		Kolmogorov-Smirnov Gamma GOF Test					
37	5% K-S Critical Value				0.248		Detected data appear Gamma Distributed at 5% Significance Level					
38	Detected data appear Gamma Distributed at 5% Significance Level											
39												
40	Gamma Statistics											
41	k hat (MLE)				2.515		k star (bias corrected MLE)				1.942	
42	Theta hat (MLE)				2.916		Theta star (bias corrected MLE)				3.776	
43	nu hat (MLE)				60.36		nu star (bias corrected)				46.6	
44	MLE Mean (bias corrected)				7.333		MLE Sd (bias corrected)				5.262	
45						Approximate Chi Square Value (0.05)				31.94		
46	Adjusted Level of Significance				0.029		Adjusted Chi Square Value				30.1	
47												
48	Assuming Gamma Distribution											
49	95% Approximate Gamma UCL (use when n>=50))				10.7		95% Adjusted Gamma UCL (use when n<50)				11.36	
50												
51	Lognormal GOF Test											
52	Shapiro Wilk Test Statistic				0.907		Shapiro Wilk Lognormal GOF Test					
53	5% Shapiro Wilk Critical Value				0.859		Data appear Lognormal at 5% Significance Level					
54	Lilliefors Test Statistic				0.241		Lilliefors Lognormal GOF Test					
55	5% Lilliefors Critical Value				0.243		Data appear Lognormal at 5% Significance Level					

	A	B	C	D	E	F	G	H	I	J	K	L
56	Data appear Lognormal at 5% Significance Level											
57												
58	Lognormal Statistics											
59	Minimum of Logged Data				0		Mean of logged Data				1.781	
60	Maximum of Logged Data				3.045		SD of logged Data				0.737	
61												
62	Assuming Lognormal Distribution											
63	95% H-UCL				13.48		90% Chebyshev (MVUE) UCL				12.63	
64	95% Chebyshev (MVUE) UCL				14.92		97.5% Chebyshev (MVUE) UCL				18.1	
65	99% Chebyshev (MVUE) UCL				24.34							
66												
67	Nonparametric Distribution Free UCL Statistics											
68	Data appear to follow a Discernible Distribution at 5% Significance Level											
69												
70	Nonparametric Distribution Free UCLs											
71	95% CLT UCL				9.706		95% Jackknife UCL				9.924	
72	95% Standard Bootstrap UCL				9.55		95% Bootstrap-t UCL				11.48	
73	95% Hall's Bootstrap UCL				21.8		95% Percentile Bootstrap UCL				9.667	
74	95% BCA Bootstrap UCL				10.5							
75	90% Chebyshev(Mean, Sd) UCL				11.66		95% Chebyshev(Mean, Sd) UCL				13.62	
76	97.5% Chebyshev(Mean, Sd) UCL				16.34		99% Chebyshev(Mean, Sd) UCL				21.69	
77												
78	Suggested UCL to Use											
79	95% Student's-t UCL				9.924							
80												
81	When a data set follows an approximate (e.g., normal) distribution passing one of the GOF test											
82	When applicable, it is suggested to use a UCL based upon a distribution (e.g., gamma) passing both GOF tests in ProUCL											
83												
84	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL											
85	Recommendations are based upon data size, data distribution, and skewness.											
86	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
87	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician											
88												
89												
90	CADMIUM											
91												
92	General Statistics											
93	Total Number of Observations				12		Number of Distinct Observations				2	
94							Number of Missing Observations				0	
95	Minimum				0.3		Mean				0.317	
96	Maximum				0.5		Median				0.3	
97	SD				0.0577		Std. Error of Mean				0.0167	
98	Coefficient of Variation				0.182		Skewness				3.464	
99												
100	Normal GOF Test											
101	Shapiro Wilk Test Statistic				0.327		Shapiro Wilk GOF Test					
102	5% Shapiro Wilk Critical Value				0.859		Data Not Normal at 5% Significance Level					
103	Lilliefors Test Statistic				0.53		Lilliefors GOF Test					
104	5% Lilliefors Critical Value				0.243		Data Not Normal at 5% Significance Level					
105	Data Not Normal at 5% Significance Level											
106												
107	Assuming Normal Distribution											
108	95% Normal UCL					95% UCLs (Adjusted for Skewness)						
109	95% Student's-t UCL				0.347		95% Adjusted-CLT UCL (Chen-1995)				0.362	
110							95% Modified-t UCL (Johnson-1978)				0.349	

	A	B	C	D	E	F	G	H	I	J	K	L
111												
112	Gamma GOF Test											
113	A-D Test Statistic					4.088	Anderson-Darling Gamma GOF Test					
114	5% A-D Critical Value					0.73	Data Not Gamma Distributed at 5% Significance Level					
115	K-S Test Statistic					0.536	Kolmogorov-Smirnov Gamma GOF Test					
116	5% K-S Critical Value					0.245	Data Not Gamma Distributed at 5% Significance Level					
117	Data Not Gamma Distributed at 5% Significance Level											
118												
119	Gamma Statistics											
120	k hat (MLE)					43.65	k star (bias corrected MLE)					32.79
121	Theta hat (MLE)					0.00725	Theta star (bias corrected MLE)					0.00966
122	nu hat (MLE)					1048	nu star (bias corrected)					787
123	MLE Mean (bias corrected)					0.317	MLE Sd (bias corrected)					0.0553
124							Approximate Chi Square Value (0.05)					722.9
125	Adjusted Level of Significance					0.029	Adjusted Chi Square Value					713.6
126												
127	Assuming Gamma Distribution											
128	95% Approximate Gamma UCL (use when n>=50))					0.345	95% Adjusted Gamma UCL (use when n<50)					0.349
129												
130	Lognormal GOF Test											
131	Shapiro Wilk Test Statistic					0.327	Shapiro Wilk Lognormal GOF Test					
132	5% Shapiro Wilk Critical Value					0.859	Data Not Lognormal at 5% Significance Level					
133	Lilliefors Test Statistic					0.53	Lilliefors Lognormal GOF Test					
134	5% Lilliefors Critical Value					0.243	Data Not Lognormal at 5% Significance Level					
135	Data Not Lognormal at 5% Significance Level											
136												
137	Lognormal Statistics											
138	Minimum of Logged Data					-1.204	Mean of logged Data					-1.161
139	Maximum of Logged Data					-0.693	SD of logged Data					0.147
140												
141	Assuming Lognormal Distribution											
142	95% H-UCL					0.343	90% Chebyshev (MVUE) UCL					0.357
143	95% Chebyshev (MVUE) UCL					0.375	97.5% Chebyshev (MVUE) UCL					0.4
144	99% Chebyshev (MVUE) UCL					0.45						
145												
146	Nonparametric Distribution Free UCL Statistics											
147	Data do not follow a Discernible Distribution (0.05)											
148												
149	Nonparametric Distribution Free UCLs											
150	95% CLT UCL					0.344	95% Jackknife UCL					N/A
151	95% Standard Bootstrap UCL					N/A	95% Bootstrap-t UCL					N/A
152	95% Hall's Bootstrap UCL					N/A	95% Percentile Bootstrap UCL					N/A
153	95% BCA Bootstrap UCL					N/A						
154	90% Chebyshev(Mean, Sd) UCL					0.367	95% Chebyshev(Mean, Sd) UCL					0.389
155	97.5% Chebyshev(Mean, Sd) UCL					0.421	99% Chebyshev(Mean, Sd) UCL					0.482
156												
157	Suggested UCL to Use											
158	95% Student's-t UCL					0.347	or 95% Modified-t UCL					0.349
159												
160	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL											
161	Recommendations are based upon data size, data distribution, and skewness.											
162	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
163	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician											
164												
165												

	A	B	C	D	E	F	G	H	I	J	K	L
166	CHROMIUM (Total)											
167												
168	General Statistics											
169	Total Number of Observations					12	Number of Distinct Observations					8
170							Number of Missing Observations					0
171	Minimum					7.3	Mean					12.19
172	Maximum					17	Median					12
173	SD					3.244	Std. Error of Mean					0.937
174	Coefficient of Variation					0.266	Skewness					-0.157
175												
176	Normal GOF Test											
177	Shapiro Wilk Test Statistic					0.918	Shapiro Wilk GOF Test					
178	5% Shapiro Wilk Critical Value					0.859	Data appear Normal at 5% Significance Level					
179	Lilliefors Test Statistic					0.223	Lilliefors GOF Test					
180	5% Lilliefors Critical Value					0.243	Data appear Normal at 5% Significance Level					
181	Data appear Normal at 5% Significance Level											
182												
183	Assuming Normal Distribution											
184	95% Normal UCL						95% UCLs (Adjusted for Skewness)					
185	95% Student's-t UCL					13.87	95% Adjusted-CLT UCL (Chen-1995)					13.69
186							95% Modified-t UCL (Johnson-1978)					13.87
187												
188	Gamma GOF Test											
189	A-D Test Statistic					0.509	Anderson-Darling Gamma GOF Test					
190	5% A-D Critical Value					0.731	ected data appear Gamma Distributed at 5% Significance Lev					
191	K-S Test Statistic					0.232	Kolmogorov-Smirnov Gamma GOF Test					
192	5% K-S Critical Value					0.245	ected data appear Gamma Distributed at 5% Significance Lev					
193	Detected data appear Gamma Distributed at 5% Significance Level											
194												
195	Gamma Statistics											
196	k hat (MLE)					14.33	k star (bias corrected MLE)					10.8
197	Theta hat (MLE)					0.851	Theta star (bias corrected MLE)					1.129
198	nu hat (MLE)					343.9	nu star (bias corrected)					259.3
199	MLE Mean (bias corrected)					12.19	MLE Sd (bias corrected)					3.709
200							Approximate Chi Square Value (0.05)					223
201	Adjusted Level of Significance					0.029	Adjusted Chi Square Value					217.9
202												
203	Assuming Gamma Distribution											
204	95% Approximate Gamma UCL (use when n>=50))					14.18	95% Adjusted Gamma UCL (use when n<50)					14.51
205												
206	Lognormal GOF Test											
207	Shapiro Wilk Test Statistic					0.907	Shapiro Wilk Lognormal GOF Test					
208	5% Shapiro Wilk Critical Value					0.859	Data appear Lognormal at 5% Significance Level					
209	Lilliefors Test Statistic					0.22	Lilliefors Lognormal GOF Test					
210	5% Lilliefors Critical Value					0.243	Data appear Lognormal at 5% Significance Level					
211	Data appear Lognormal at 5% Significance Level											
212												
213	Lognormal Statistics											
214	Minimum of Logged Data					1.988	Mean of logged Data					2.465
215	Maximum of Logged Data					2.833	SD of logged Data					0.284
216												
217	Assuming Lognormal Distribution											
218	95% H-UCL					14.43	90% Chebyshev (MVUE) UCL					15.24
219	95% Chebyshev (MVUE) UCL					16.61	97.5% Chebyshev (MVUE) UCL					18.51
220	99% Chebyshev (MVUE) UCL					22.25						

	A	B	C	D	E	F	G	H	I	J	K	L
221												
222	Nonparametric Distribution Free UCL Statistics											
223	Data appear to follow a Discernible Distribution at 5% Significance Level											
224												
225	Nonparametric Distribution Free UCLs											
226	95% CLT UCL					13.73	95% Jackknife UCL					13.87
227	95% Standard Bootstrap UCL					13.67	95% Bootstrap-t UCL					13.78
228	95% Hall's Bootstrap UCL					13.54	95% Percentile Bootstrap UCL					13.7
229	95% BCA Bootstrap UCL					13.63						
230	90% Chebyshev(Mean, Sd) UCL					15	95% Chebyshev(Mean, Sd) UCL					16.27
231	97.5% Chebyshev(Mean, Sd) UCL					18.04	99% Chebyshev(Mean, Sd) UCL					21.51
232												
233	Suggested UCL to Use											
234	95% Student's-t UCL					13.87						
235												
236	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL											
237	Recommendations are based upon data size, data distribution, and skewness.											
238	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
239	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician											
240												
241	Note: For highly negatively-skewed data, confidence limits (e.g., Chen, Johnson, Lognormal, and Gamma) may not be											
242	reliable. Chen's and Johnson's methods provide adjustments for positively skewed data sets.											
243												
244												
245	COPPER											
246												
247	General Statistics											
248	Total Number of Observations					12	Number of Distinct Observations					8
249							Number of Missing Observations					0
250	Minimum					16	Mean					22.08
251	Maximum					28	Median					23
252	SD					4.814	Std. Error of Mean					1.39
253	Coefficient of Variation					0.218	Skewness					-0.196
254												
255	Normal GOF Test											
256	Shapiro Wilk Test Statistic					0.872	Shapiro Wilk GOF Test					
257	5% Shapiro Wilk Critical Value					0.859	Data appear Normal at 5% Significance Level					
258	Lilliefors Test Statistic					0.188	Lilliefors GOF Test					
259	5% Lilliefors Critical Value					0.243	Data appear Normal at 5% Significance Level					
260	Data appear Normal at 5% Significance Level											
261												
262	Assuming Normal Distribution											
263	95% Normal UCL						95% UCLs (Adjusted for Skewness)					
264	95% Student's-t UCL					24.58	95% Adjusted-CLT UCL (Chen-1995)					24.28
265							95% Modified-t UCL (Johnson-1978)					24.57
266												
267	Gamma GOF Test											
268	A-D Test Statistic					0.681	Anderson-Darling Gamma GOF Test					
269	5% A-D Critical Value					0.732	Detected data appear Gamma Distributed at 5% Significance Level					
270	K-S Test Statistic					0.197	Kolmogorov-Smirnov Gamma GOF Test					
271	5% K-S Critical Value					0.245	Detected data appear Gamma Distributed at 5% Significance Level					
272	Detected data appear Gamma Distributed at 5% Significance Level											
273												
274	Gamma Statistics											
275	k hat (MLE)					21.84	k star (bias corrected MLE)					16.43

	A	B	C	D	E	F	G	H	I	J	K	L	
276	Theta hat (MLE)					1.011	Theta star (bias corrected MLE)					1.344	
277	nu hat (MLE)					524	nu star (bias corrected)					394.4	
278	MLE Mean (bias corrected)					22.08	MLE Sd (bias corrected)					5.448	
279	Adjusted Level of Significance						0.029	Approximate Chi Square Value (0.05)					349.3
280							Adjusted Chi Square Value					342.9	
281													
282	Assuming Gamma Distribution												
283	95% Approximate Gamma UCL (use when n>=50))					24.93	95% Adjusted Gamma UCL (use when n<50)					25.4	
284													
285	Lognormal GOF Test												
286	Shapiro Wilk Test Statistic					0.854	Shapiro Wilk Lognormal GOF Test						
287	5% Shapiro Wilk Critical Value					0.859	Data Not Lognormal at 5% Significance Level						
288	Lilliefors Test Statistic					0.186	Lilliefors Lognormal GOF Test						
289	5% Lilliefors Critical Value					0.243	Data appear Lognormal at 5% Significance Level						
290	Data appear Approximate Lognormal at 5% Significance Level												
291													
292	Lognormal Statistics												
293	Minimum of Logged Data					2.773	Mean of logged Data					3.072	
294	Maximum of Logged Data					3.332	SD of logged Data					0.228	
295													
296	Assuming Lognormal Distribution												
297	95% H-UCL					25.17	90% Chebyshev (MVUE) UCL					26.48	
298	95% Chebyshev (MVUE) UCL					28.46	97.5% Chebyshev (MVUE) UCL					31.21	
299	99% Chebyshev (MVUE) UCL					36.62							
300													
301	Nonparametric Distribution Free UCL Statistics												
302	Data appear to follow a Discernible Distribution at 5% Significance Level												
303													
304	Nonparametric Distribution Free UCLs												
305	95% CLT UCL					24.37	95% Jackknife UCL					24.58	
306	95% Standard Bootstrap UCL					24.24	95% Bootstrap-t UCL					24.41	
307	95% Hall's Bootstrap UCL					24.12	95% Percentile Bootstrap UCL					24.17	
308	95% BCA Bootstrap UCL					24							
309	90% Chebyshev(Mean, Sd) UCL					26.25	95% Chebyshev(Mean, Sd) UCL					28.14	
310	97.5% Chebyshev(Mean, Sd) UCL					30.76	99% Chebyshev(Mean, Sd) UCL					35.91	
311													
312	Suggested UCL to Use												
313	95% Student's-t UCL					24.58							
314													
315	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL												
316	Recommendations are based upon data size, data distribution, and skewness.												
317	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).												
318	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.												
319													
320	Note: For highly negatively-skewed data, confidence limits (e.g., Chen, Johnson, Lognormal, and Gamma) may not be												
321	reliable. Chen's and Johnson's methods provide adjustments for positively skewed data sets.												
322													
323													
324	LEAD												
325													
326	General Statistics												
327	Total Number of Observations					12	Number of Distinct Observations					10	
328							Number of Missing Observations					0	
329	Minimum					10	Mean					17.42	
330	Maximum					28	Median					18	

	A	B	C	D	E	F	G	H	I	J	K	L
331	SD					5.435	Std. Error of Mean					1.569
332	Coefficient of Variation					0.312	Skewness					0.444
333												
334	Normal GOF Test											
335	Shapiro Wilk Test Statistic					0.956	Shapiro Wilk GOF Test					
336	5% Shapiro Wilk Critical Value					0.859	Data appear Normal at 5% Significance Level					
337	Lilliefors Test Statistic					0.152	Lilliefors GOF Test					
338	5% Lilliefors Critical Value					0.243	Data appear Normal at 5% Significance Level					
339	Data appear Normal at 5% Significance Level											
340												
341	Assuming Normal Distribution											
342	95% Normal UCL						95% UCLs (Adjusted for Skewness)					
343	95% Student's-t UCL					20.23	95% Adjusted-CLT UCL (Chen-1995)					20.21
344							95% Modified-t UCL (Johnson-1978)					20.27
345												
346	Gamma GOF Test											
347	A-D Test Statistic					0.255	Anderson-Darling Gamma GOF Test					
348	5% A-D Critical Value					0.73	ected data appear Gamma Distributed at 5% Significance Lev					
349	K-S Test Statistic					0.167	Kolmogorov-Smirnov Gamma GOF Test					
350	5% K-S Critical Value					0.245	ected data appear Gamma Distributed at 5% Significance Lev					
351	Detected data appear Gamma Distributed at 5% Significance Level											
352												
353	Gamma Statistics											
354	k hat (MLE)					11.19	k star (bias corrected MLE)					8.451
355	Theta hat (MLE)					1.556	Theta star (bias corrected MLE)					2.061
356	nu hat (MLE)					268.6	nu star (bias corrected)					202.8
357	MLE Mean (bias corrected)					17.42	MLE Sd (bias corrected)					5.991
358							Approximate Chi Square Value (0.05)					170.9
359	Adjusted Level of Significance					0.029	Adjusted Chi Square Value					166.4
360												
361	Assuming Gamma Distribution											
362	95% Approximate Gamma UCL (use when n>=50))					20.67	95% Adjusted Gamma UCL (use when n<50)					21.23
363												
364	Lognormal GOF Test											
365	Shapiro Wilk Test Statistic					0.964	Shapiro Wilk Lognormal GOF Test					
366	5% Shapiro Wilk Critical Value					0.859	Data appear Lognormal at 5% Significance Level					
367	Lilliefors Test Statistic					0.181	Lilliefors Lognormal GOF Test					
368	5% Lilliefors Critical Value					0.243	Data appear Lognormal at 5% Significance Level					
369	Data appear Lognormal at 5% Significance Level											
370												
371	Lognormal Statistics											
372	Minimum of Logged Data					2.303	Mean of logged Data					2.812
373	Maximum of Logged Data					3.332	SD of logged Data					0.317
374												
375	Assuming Lognormal Distribution											
376	95% H-UCL					21.07	90% Chebyshev (MVUE) UCL					22.26
377	95% Chebyshev (MVUE) UCL					24.45	97.5% Chebyshev (MVUE) UCL					27.49
378	99% Chebyshev (MVUE) UCL					33.45						
379												
380	Nonparametric Distribution Free UCL Statistics											
381	Data appear to follow a Discernible Distribution at 5% Significance Level											
382												
383	Nonparametric Distribution Free UCLs											
384	95% CLT UCL					20	95% Jackknife UCL					20.23
385	95% Standard Bootstrap UCL					19.81	95% Bootstrap-t UCL					20.63

	A	B	C	D	E	F	G	H	I	J	K	L
386	95% Hall's Bootstrap UCL					20.38	95% Percentile Bootstrap UCL					19.83
387	95% BCA Bootstrap UCL					20						
388	90% Chebyshev(Mean, Sd) UCL					22.12	95% Chebyshev(Mean, Sd) UCL					24.26
389	97.5% Chebyshev(Mean, Sd) UCL					27.21	99% Chebyshev(Mean, Sd) UCL					33.03
390												
391	Suggested UCL to Use											
392	95% Student's-t UCL					20.23						
393												
394	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL											
395	Recommendations are based upon data size, data distribution, and skewness.											
396	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
397	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician											
398												
399												
400	MANGANESE											
401												
402	General Statistics											
403	Total Number of Observations					12	Number of Distinct Observations					12
404							Number of Missing Observations					0
405	Minimum					140	Mean					1037
406	Maximum					2700	Median					785
407	SD					883.1	Std. Error of Mean					254.9
408	Coefficient of Variation					0.852	Skewness					0.676
409												
410	Normal GOF Test											
411	Shapiro Wilk Test Statistic					0.883	Shapiro Wilk GOF Test					
412	5% Shapiro Wilk Critical Value					0.859	Data appear Normal at 5% Significance Level					
413	Lilliefors Test Statistic					0.239	Lilliefors GOF Test					
414	5% Lilliefors Critical Value					0.243	Data appear Normal at 5% Significance Level					
415	Data appear Normal at 5% Significance Level											
416												
417	Assuming Normal Distribution											
418	95% Normal UCL						95% UCLs (Adjusted for Skewness)					
419	95% Student's-t UCL					1494	95% Adjusted-CLT UCL (Chen-1995)					1509
420							95% Modified-t UCL (Johnson-1978)					1503
421												
422	Gamma GOF Test											
423	A-D Test Statistic					0.45	Anderson-Darling Gamma GOF Test					
424	5% A-D Critical Value					0.75	Detected data appear Gamma Distributed at 5% Significance Level					
425	K-S Test Statistic					0.187	Kolmogorov-Smirnov Gamma GOF Test					
426	5% K-S Critical Value					0.251	Detected data appear Gamma Distributed at 5% Significance Level					
427	Detected data appear Gamma Distributed at 5% Significance Level											
428												
429	Gamma Statistics											
430	k hat (MLE)					1.301	k star (bias corrected MLE)					1.031
431	Theta hat (MLE)					796.9	Theta star (bias corrected MLE)					1005
432	nu hat (MLE)					31.22	nu star (bias corrected)					24.75
433	MLE Mean (bias corrected)					1037	MLE Sd (bias corrected)					1021
434							Approximate Chi Square Value (0.05)					14.42
435	Adjusted Level of Significance					0.029	Adjusted Chi Square Value					13.23
436												
437	Assuming Gamma Distribution											
438	95% Approximate Gamma UCL (use when n>=50))					1779	95% Adjusted Gamma UCL (use when n<50)					1939
439												
440	Lognormal GOF Test											

	A	B	C	D	E	F	G	H	I	J	K	L	
441	Shapiro Wilk Test Statistic					0.92	Shapiro Wilk Lognormal GOF Test						
442	5% Shapiro Wilk Critical Value					0.859	Data appear Lognormal at 5% Significance Level						
443	Lilliefors Test Statistic					0.181	Lilliefors Lognormal GOF Test						
444	5% Lilliefors Critical Value					0.243	Data appear Lognormal at 5% Significance Level						
445	Data appear Lognormal at 5% Significance Level												
446													
447	Lognormal Statistics												
448	Minimum of Logged Data					4.942	Mean of logged Data					6.513	
449	Maximum of Logged Data					7.901	SD of logged Data					1.04	
450													
451	Assuming Lognormal Distribution												
452	95% H-UCL					2955	90% Chebyshev (MVUE) UCL					2138	
453	95% Chebyshev (MVUE) UCL					2614	97.5% Chebyshev (MVUE) UCL					3274	
454	99% Chebyshev (MVUE) UCL					4572							
455													
456	Nonparametric Distribution Free UCL Statistics												
457	Data appear to follow a Discernible Distribution at 5% Significance Level												
458													
459	Nonparametric Distribution Free UCLs												
460	95% CLT UCL					1456	95% Jackknife UCL					1494	
461	95% Standard Bootstrap UCL					1434	95% Bootstrap-t UCL					1541	
462	95% Hall's Bootstrap UCL					1460	95% Percentile Bootstrap UCL					1447	
463	95% BCA Bootstrap UCL					1472							
464	90% Chebyshev(Mean, Sd) UCL					1801	95% Chebyshev(Mean, Sd) UCL					2148	
465	97.5% Chebyshev(Mean, Sd) UCL					2629	99% Chebyshev(Mean, Sd) UCL					3573	
466													
467	Suggested UCL to Use												
468	95% Student's-t UCL					1494							
469													
470	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL												
471	Recommendations are based upon data size, data distribution, and skewness.												
472	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).												
473	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.												
474													
475													
476	MERCURY												
477													
478	General Statistics												
479	Total Number of Observations					12	Number of Distinct Observations					1	
480							Number of Missing Observations					0	
481	Minimum					0.05	Mean					0.05	
482	Maximum					0.05	Median					0.05	
483													
484	Warning: There is only one distinct observation value in this data set - resulting in '0' variance!												
485	ProUCL (or any other software) should not be used on such a data set!												
486	The data set for variable MERCURY was not processed!												
487													
488	If possible, compute and collect Data Quality Objectives (DQOs) based sample size and analytical results.												
489	The Project Team may decide to use alternative site specific values to estimate environmental parameters (e.g., EPC, BTV).												
490													
491													
492													
493	NICKEL												
494													
495	General Statistics												

	A	B	C	D	E	F	G	H	I	J	K	L
496	Total Number of Observations					12	Number of Distinct Observations					9
497							Number of Missing Observations					0
498	Minimum					7.2	Mean					12.1
499	Maximum					18	Median					12
500	SD					2.999	Std. Error of Mean					0.866
501	Coefficient of Variation					0.248	Skewness					0.185
502												
503	Normal GOF Test											
504	Shapiro Wilk Test Statistic					0.979	Shapiro Wilk GOF Test					
505	5% Shapiro Wilk Critical Value					0.859	Data appear Normal at 5% Significance Level					
506	Lilliefors Test Statistic					0.107	Lilliefors GOF Test					
507	5% Lilliefors Critical Value					0.243	Data appear Normal at 5% Significance Level					
508	Data appear Normal at 5% Significance Level											
509												
510	Assuming Normal Distribution											
511	95% Normal UCL						95% UCLs (Adjusted for Skewness)					
512	95% Student's-t UCL					13.65	95% Adjusted-CLT UCL (Chen-1995)					13.57
513							95% Modified-t UCL (Johnson-1978)					13.66
514												
515	Gamma GOF Test											
516	A-D Test Statistic					0.211	Anderson-Darling Gamma GOF Test					
517	5% A-D Critical Value					0.731	ected data appear Gamma Distributed at 5% Significance Level					
518	K-S Test Statistic					0.13	Kolmogorov-Smirnov Gamma GOF Test					
519	5% K-S Critical Value					0.245	ected data appear Gamma Distributed at 5% Significance Level					
520	Detected data appear Gamma Distributed at 5% Significance Level											
521												
522	Gamma Statistics											
523	k hat (MLE)					17.05	k star (bias corrected MLE)					12.85
524	Theta hat (MLE)					0.71	Theta star (bias corrected MLE)					0.942
525	nu hat (MLE)					409.3	nu star (bias corrected)					308.3
526	MLE Mean (bias corrected)					12.1	MLE Sd (bias corrected)					3.376
527							Approximate Chi Square Value (0.05)					268.6
528	Adjusted Level of Significance					0.029	Adjusted Chi Square Value					263
529												
530	Assuming Gamma Distribution											
531	95% Approximate Gamma UCL (use when n>=50))					13.89	95% Adjusted Gamma UCL (use when n<50)					14.19
532												
533	Lognormal GOF Test											
534	Shapiro Wilk Test Statistic					0.966	Shapiro Wilk Lognormal GOF Test					
535	5% Shapiro Wilk Critical Value					0.859	Data appear Lognormal at 5% Significance Level					
536	Lilliefors Test Statistic					0.15	Lilliefors Lognormal GOF Test					
537	5% Lilliefors Critical Value					0.243	Data appear Lognormal at 5% Significance Level					
538	Data appear Lognormal at 5% Significance Level											
539												
540	Lognormal Statistics											
541	Minimum of Logged Data					1.974	Mean of logged Data					2.464
542	Maximum of Logged Data					2.89	SD of logged Data					0.259
543												
544	Assuming Lognormal Distribution											
545	95% H-UCL					14.08	90% Chebyshev (MVUE) UCL					14.84
546	95% Chebyshev (MVUE) UCL					16.08	97.5% Chebyshev (MVUE) UCL					17.8
547	99% Chebyshev (MVUE) UCL					21.18						
548												
549	Nonparametric Distribution Free UCL Statistics											
550	Data appear to follow a Discernible Distribution at 5% Significance Level											

	A	B	C	D	E	F	G	H	I	J	K	L
551												
552	Nonparametric Distribution Free UCLs											
553	95% CLT UCL					13.52	95% Jackknife UCL					13.65
554	95% Standard Bootstrap UCL					13.45	95% Bootstrap-t UCL					13.77
555	95% Hall's Bootstrap UCL					13.77	95% Percentile Bootstrap UCL					13.5
556	95% BCA Bootstrap UCL					13.5						
557	90% Chebyshev(Mean, Sd) UCL					14.7	95% Chebyshev(Mean, Sd) UCL					15.87
558	97.5% Chebyshev(Mean, Sd) UCL					17.51	99% Chebyshev(Mean, Sd) UCL					20.71
559												
560	Suggested UCL to Use											
561	95% Student's-t UCL					13.65						
562												
563	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL											
564	Recommendations are based upon data size, data distribution, and skewness.											
565	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
566	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
567												
568												
569	ZINC											
570												
571	General Statistics											
572	Total Number of Observations					12	Number of Distinct Observations					12
573							Number of Missing Observations					0
574	Minimum					38	Mean					97.08
575	Maximum					350	Median					61.5
576	SD					92.82	Std. Error of Mean					26.79
577	Coefficient of Variation					0.956	Skewness					2.364
578												
579	Normal GOF Test											
580	Shapiro Wilk Test Statistic					0.608	Shapiro Wilk GOF Test					
581	5% Shapiro Wilk Critical Value					0.859	Data Not Normal at 5% Significance Level					
582	Lilliefors Test Statistic					0.411	Lilliefors GOF Test					
583	5% Lilliefors Critical Value					0.243	Data Not Normal at 5% Significance Level					
584	Data Not Normal at 5% Significance Level											
585												
586	Assuming Normal Distribution											
587	95% Normal UCL						95% UCLs (Adjusted for Skewness)					
588	95% Student's-t UCL					145.2	95% Adjusted-CLT UCL (Chen-1995)					160.7
589							95% Modified-t UCL (Johnson-1978)					148.2
590												
591	Gamma GOF Test											
592	A-D Test Statistic					1.556	Anderson-Darling Gamma GOF Test					
593	5% A-D Critical Value					0.741	Data Not Gamma Distributed at 5% Significance Level					
594	K-S Test Statistic					0.356	Kolmogorov-Smirnov Gamma GOF Test					
595	5% K-S Critical Value					0.248	Data Not Gamma Distributed at 5% Significance Level					
596	Data Not Gamma Distributed at 5% Significance Level											
597												
598	Gamma Statistics											
599	k hat (MLE)					2.13	k star (bias corrected MLE)					1.653
600	Theta hat (MLE)					45.58	Theta star (bias corrected MLE)					58.73
601	nu hat (MLE)					51.12	nu star (bias corrected)					39.67
602	MLE Mean (bias corrected)					97.08	MLE Sd (bias corrected)					75.51
603							Approximate Chi Square Value (0.05)					26.24
604	Adjusted Level of Significance					0.029	Adjusted Chi Square Value					24.59
605												

	A	B	C	D	E	F	G	H	I	J	K	L
606	Assuming Gamma Distribution											
607	95% Approximate Gamma UCL (use when $n \geq 50$)					146.8	95% Adjusted Gamma UCL (use when $n < 50$)					156.7
608												
609	Lognormal GOF Test											
610	Shapiro Wilk Test Statistic					0.79	Shapiro Wilk Lognormal GOF Test					
611	5% Shapiro Wilk Critical Value					0.859	Data Not Lognormal at 5% Significance Level					
612	Lilliefors Test Statistic					0.305	Lilliefors Lognormal GOF Test					
613	5% Lilliefors Critical Value					0.243	Data Not Lognormal at 5% Significance Level					
614	Data Not Lognormal at 5% Significance Level											
615												
616	Lognormal Statistics											
617	Minimum of Logged Data					3.638	Mean of logged Data					4.323
618	Maximum of Logged Data					5.858	SD of logged Data					0.652
619												
620	Assuming Lognormal Distribution											
621	95% H-UCL					147.8	90% Chebyshev (MVUE) UCL					144.9
622	95% Chebyshev (MVUE) UCL					169.1	97.5% Chebyshev (MVUE) UCL					202.8
623	99% Chebyshev (MVUE) UCL					268.9						
624												
625	Nonparametric Distribution Free UCL Statistics											
626	Data do not follow a Discernible Distribution (0.05)											
627												
628	Nonparametric Distribution Free UCLs											
629	95% CLT UCL					141.2	95% Jackknife UCL					145.2
630	95% Standard Bootstrap UCL					139.8	95% Bootstrap-t UCL					391.4
631	95% Hall's Bootstrap UCL					441.8	95% Percentile Bootstrap UCL					142.6
632	95% BCA Bootstrap UCL					160.1						
633	90% Chebyshev(Mean, Sd) UCL					177.5	95% Chebyshev(Mean, Sd) UCL					213.9
634	97.5% Chebyshev(Mean, Sd) UCL					264.4	99% Chebyshev(Mean, Sd) UCL					363.7
635												
636	Suggested UCL to Use											
637	95% Chebyshev (Mean, Sd) UCL					213.9						
638												
639	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL											
640	Recommendations are based upon data size, data distribution, and skewness.											
641	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
642	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
643												

	A	B	C	D	E	F	G	H	I	J	K	L
1	UCL Statistics for Uncensored Full Data Sets											
2												
3	User Selected Options											
4	Date/Time of Computation			ProUCL 5.16/05/2021 12:47:24 PM								
5	From File			data sheet_b.xls								
6	Full Precision			OFF								
7	Confidence Coefficient			95%								
8	Number of Bootstrap Operations			2000								
9												
10												
11	ARSENIC											
12												
13	General Statistics											
14	Total Number of Observations				10		Number of Distinct Observations				7	
15							Number of Missing Observations				0	
16	Minimum				3		Mean				6.3	
17	Maximum				11		Median				6	
18	SD				2.359		Std. Error of Mean				0.746	
19	Coefficient of Variation				0.375		Skewness				0.758	
20												
21	Normal GOF Test											
22	Shapiro Wilk Test Statistic				0.953		Shapiro Wilk GOF Test					
23	5% Shapiro Wilk Critical Value				0.842		Data appear Normal at 5% Significance Level					
24	Lilliefors Test Statistic				0.183		Lilliefors GOF Test					
25	5% Lilliefors Critical Value				0.262		Data appear Normal at 5% Significance Level					
26	Data appear Normal at 5% Significance Level											
27												
28	Assuming Normal Distribution											
29	95% Normal UCL					95% UCLs (Adjusted for Skewness)						
30	95% Student's-t UCL				7.668		95% Adjusted-CLT UCL (Chen-1995)				7.718	
31							95% Modified-t UCL (Johnson-1978)				7.697	
32												
33	Gamma GOF Test											
34	A-D Test Statistic				0.18		Anderson-Darling Gamma GOF Test					
35	5% A-D Critical Value				0.727		Detected data appear Gamma Distributed at 5% Significance Level					
36	K-S Test Statistic				0.137		Kolmogorov-Smirnov Gamma GOF Test					
37	5% K-S Critical Value				0.267		Detected data appear Gamma Distributed at 5% Significance Level					
38	Detected data appear Gamma Distributed at 5% Significance Level											
39												
40	Gamma Statistics											
41	k hat (MLE)				8.084		k star (bias corrected MLE)				5.725	
42	Theta hat (MLE)				0.779		Theta star (bias corrected MLE)				1.1	
43	nu hat (MLE)				161.7		nu star (bias corrected)				114.5	
44	MLE Mean (bias corrected)				6.3		MLE Sd (bias corrected)				2.633	
45						Approximate Chi Square Value (0.05)				90.8		
46	Adjusted Level of Significance				0.0267		Adjusted Chi Square Value				87.14	
47												
48	Assuming Gamma Distribution											
49	95% Approximate Gamma UCL (use when n>=50))				7.945		95% Adjusted Gamma UCL (use when n<50)				8.279	
50												
51	Lognormal GOF Test											
52	Shapiro Wilk Test Statistic				0.983		Shapiro Wilk Lognormal GOF Test					
53	5% Shapiro Wilk Critical Value				0.842		Data appear Lognormal at 5% Significance Level					
54	Lilliefors Test Statistic				0.129		Lilliefors Lognormal GOF Test					
55	5% Lilliefors Critical Value				0.262		Data appear Lognormal at 5% Significance Level					

	A	B	C	D	E	F	G	H	I	J	K	L
56	Data appear Lognormal at 5% Significance Level											
57												
58	Lognormal Statistics											
59	Minimum of Logged Data				1.099	Mean of logged Data				1.777		
60	Maximum of Logged Data				2.398	SD of logged Data				0.378		
61												
62	Assuming Lognormal Distribution											
63	95% H-UCL				8.242	90% Chebyshev (MVUE) UCL				8.594		
64	95% Chebyshev (MVUE) UCL				9.631	97.5% Chebyshev (MVUE) UCL				11.07		
65	99% Chebyshev (MVUE) UCL				13.89							
66												
67	Nonparametric Distribution Free UCL Statistics											
68	Data appear to follow a Discernible Distribution at 5% Significance Level											
69												
70	Nonparametric Distribution Free UCLs											
71	95% CLT UCL				7.527	95% Jackknife UCL				7.668		
72	95% Standard Bootstrap UCL				7.476	95% Bootstrap-t UCL				7.98		
73	95% Hall's Bootstrap UCL				8.573	95% Percentile Bootstrap UCL				7.5		
74	95% BCA Bootstrap UCL				7.5							
75	90% Chebyshev(Mean, Sd) UCL				8.538	95% Chebyshev(Mean, Sd) UCL				9.552		
76	97.5% Chebyshev(Mean, Sd) UCL				10.96	99% Chebyshev(Mean, Sd) UCL				13.72		
77												
78	Suggested UCL to Use											
79	95% Student's-t UCL				7.668							
80												
81	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL											
82	Recommendations are based upon data size, data distribution, and skewness.											
83	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
84	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
85												
86												
87	CADMIUM											
88												
89	General Statistics											
90	Total Number of Observations				10	Number of Distinct Observations				1		
91						Number of Missing Observations				0		
92	Minimum				0.3	Mean				0.3		
93	Maximum				0.3	Median				0.3		
94												
95	Warning: There is only one distinct observation value in this data set - resulting in '0' variance!											
96	ProUCL (or any other software) should not be used on such a data set!											
97	The data set for variable CADMIUM was not processed!											
98												
99	If possible, compute and collect Data Quality Objectives (DQOs) based sample size and analytical results.											
100	The Project Team may decide to use alternative site specific values to estimate environmental parameters (e.g., EPC, BTV).											
101												
102												
103												
104	CHROMIUM (Total)											
105												
106	General Statistics											
107	Total Number of Observations				10	Number of Distinct Observations				5		
108						Number of Missing Observations				0		
109	Minimum				12	Mean				13.6		
110	Maximum				16	Median				13		

	A	B	C	D	E	F	G	H	I	J	K	L
111	SD					1.174	Std. Error of Mean					0.371
112	Coefficient of Variation					0.0863	Skewness					0.989
113												
114	Normal GOF Test											
115	Shapiro Wilk Test Statistic					0.873	Shapiro Wilk GOF Test					
116	5% Shapiro Wilk Critical Value					0.842	Data appear Normal at 5% Significance Level					
117	Lilliefors Test Statistic					0.295	Lilliefors GOF Test					
118	5% Lilliefors Critical Value					0.262	Data Not Normal at 5% Significance Level					
119	Data appear Approximate Normal at 5% Significance Level											
120												
121	Assuming Normal Distribution											
122	95% Normal UCL						95% UCLs (Adjusted for Skewness)					
123	95% Student's-t UCL					14.28	95% Adjusted-CLT UCL (Chen-1995)					14.33
124							95% Modified-t UCL (Johnson-1978)					14.3
125												
126	Gamma GOF Test											
127	A-D Test Statistic					0.709	Anderson-Darling Gamma GOF Test					
128	5% A-D Critical Value					0.724	ected data appear Gamma Distributed at 5% Significance Level					
129	K-S Test Statistic					0.302	Kolmogorov-Smirnov Gamma GOF Test					
130	5% K-S Critical Value					0.266	Data Not Gamma Distributed at 5% Significance Level					
131	Detected data follow Appr. Gamma Distribution at 5% Significance Level											
132												
133	Gamma Statistics											
134	k hat (MLE)					155	k star (bias corrected MLE)					108.6
135	Theta hat (MLE)					0.0877	Theta star (bias corrected MLE)					0.125
136	nu hat (MLE)					3100	nu star (bias corrected)					2171
137	MLE Mean (bias corrected)					13.6	MLE Sd (bias corrected)					1.305
138							Approximate Chi Square Value (0.05)					2064
139	Adjusted Level of Significance					0.0267	Adjusted Chi Square Value					2046
140												
141	Assuming Gamma Distribution											
142	95% Approximate Gamma UCL (use when n>=50))					14.31	95% Adjusted Gamma UCL (use when n<50)					14.43
143												
144	Lognormal GOF Test											
145	Shapiro Wilk Test Statistic					0.886	Shapiro Wilk Lognormal GOF Test					
146	5% Shapiro Wilk Critical Value					0.842	Data appear Lognormal at 5% Significance Level					
147	Lilliefors Test Statistic					0.291	Lilliefors Lognormal GOF Test					
148	5% Lilliefors Critical Value					0.262	Data Not Lognormal at 5% Significance Level					
149	Data appear Approximate Lognormal at 5% Significance Level											
150												
151	Lognormal Statistics											
152	Minimum of Logged Data					2.485	Mean of logged Data					2.607
153	Maximum of Logged Data					2.773	SD of logged Data					0.084
154												
155	Assuming Lognormal Distribution											
156	95% H-UCL					N/A	90% Chebyshev (MVUE) UCL					14.68
157	95% Chebyshev (MVUE) UCL					15.17	97.5% Chebyshev (MVUE) UCL					15.86
158	99% Chebyshev (MVUE) UCL					17.19						
159												
160	Nonparametric Distribution Free UCL Statistics											
161	Data appear to follow a Discernible Distribution at 5% Significance Level											
162												
163	Nonparametric Distribution Free UCLs											
164	95% CLT UCL					14.21	95% Jackknife UCL					14.28
165	95% Standard Bootstrap UCL					14.18	95% Bootstrap-t UCL					14.63

	A	B	C	D	E	F	G	H	I	J	K	L
166	95% Hall's Bootstrap UCL					14.82	95% Percentile Bootstrap UCL					14.2
167	95% BCA Bootstrap UCL					14.2						
168	90% Chebyshev(Mean, Sd) UCL					14.71	95% Chebyshev(Mean, Sd) UCL					15.22
169	97.5% Chebyshev(Mean, Sd) UCL					15.92	99% Chebyshev(Mean, Sd) UCL					17.29
170												
171	Suggested UCL to Use											
172	95% Student's-t UCL					14.28						
173												
174	When a data set follows an approximate (e.g., normal) distribution passing one of the GOF test											
175	When applicable, it is suggested to use a UCL based upon a distribution (e.g., gamma) passing both GOF tests in ProUCL											
176												
177	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL											
178	Recommendations are based upon data size, data distribution, and skewness.											
179	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
180	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician											
181												
182												
183	COPPER											
184												
185	General Statistics											
186	Total Number of Observations					10	Number of Distinct Observations					8
187							Number of Missing Observations					0
188	Minimum					12	Mean					18.6
189	Maximum					31	Median					17
190	SD					6.535	Std. Error of Mean					2.067
191	Coefficient of Variation					0.351	Skewness					0.738
192												
193	Normal GOF Test											
194	Shapiro Wilk Test Statistic					0.908	Shapiro Wilk GOF Test					
195	5% Shapiro Wilk Critical Value					0.842	Data appear Normal at 5% Significance Level					
196	Lilliefors Test Statistic					0.156	Lilliefors GOF Test					
197	5% Lilliefors Critical Value					0.262	Data appear Normal at 5% Significance Level					
198	Data appear Normal at 5% Significance Level											
199												
200	Assuming Normal Distribution											
201	95% Normal UCL						95% UCLs (Adjusted for Skewness)					
202	95% Student's-t UCL					22.39	95% Adjusted-CLT UCL (Chen-1995)					22.51
203							95% Modified-t UCL (Johnson-1978)					22.47
204												
205	Gamma GOF Test											
206	A-D Test Statistic					0.344	Anderson-Darling Gamma GOF Test					
207	5% A-D Critical Value					0.725	Detected data appear Gamma Distributed at 5% Significance Level					
208	K-S Test Statistic					0.175	Kolmogorov-Smirnov Gamma GOF Test					
209	5% K-S Critical Value					0.267	Detected data appear Gamma Distributed at 5% Significance Level					
210	Detected data appear Gamma Distributed at 5% Significance Level											
211												
212	Gamma Statistics											
213	k hat (MLE)					9.531	k star (bias corrected MLE)					6.738
214	Theta hat (MLE)					1.952	Theta star (bias corrected MLE)					2.76
215	nu hat (MLE)					190.6	nu star (bias corrected)					134.8
216	MLE Mean (bias corrected)					18.6	MLE Sd (bias corrected)					7.165
217							Approximate Chi Square Value (0.05)					108.9
218	Adjusted Level of Significance					0.0267	Adjusted Chi Square Value					104.9
219												
220	Assuming Gamma Distribution											

	A	B	C	D	E	F	G	H	I	J	K	L
221	95% Approximate Gamma UCL (use when n>=50))					23.01	95% Adjusted Gamma UCL (use when n<50)					23.89
222												
223	Lognormal GOF Test											
224	Shapiro Wilk Test Statistic					0.922	Shapiro Wilk Lognormal GOF Test					
225	5% Shapiro Wilk Critical Value					0.842	Data appear Lognormal at 5% Significance Level					
226	Lilliefors Test Statistic					0.17	Lilliefors Lognormal GOF Test					
227	5% Lilliefors Critical Value					0.262	Data appear Lognormal at 5% Significance Level					
228	Data appear Lognormal at 5% Significance Level											
229												
230	Lognormal Statistics											
231	Minimum of Logged Data					2.485	Mean of logged Data					2.87
232	Maximum of Logged Data					3.434	SD of logged Data					0.342
233												
234	Assuming Lognormal Distribution											
235	95% H-UCL					23.53	90% Chebyshev (MVUE) UCL					24.66
236	95% Chebyshev (MVUE) UCL					27.41	97.5% Chebyshev (MVUE) UCL					31.23
237	99% Chebyshev (MVUE) UCL					38.73						
238												
239	Nonparametric Distribution Free UCL Statistics											
240	Data appear to follow a Discernible Distribution at 5% Significance Level											
241												
242	Nonparametric Distribution Free UCLs											
243	95% CLT UCL					22	95% Jackknife UCL					22.39
244	95% Standard Bootstrap UCL					21.86	95% Bootstrap-t UCL					23.37
245	95% Hall's Bootstrap UCL					22.81	95% Percentile Bootstrap UCL					22.1
246	95% BCA Bootstrap UCL					22.1						
247	90% Chebyshev(Mean, Sd) UCL					24.8	95% Chebyshev(Mean, Sd) UCL					27.61
248	97.5% Chebyshev(Mean, Sd) UCL					31.51	99% Chebyshev(Mean, Sd) UCL					39.16
249												
250	Suggested UCL to Use											
251	95% Student's-t UCL					22.39						
252												
253	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL											
254	Recommendations are based upon data size, data distribution, and skewness.											
255	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
256	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
257												
258												
259	LEAD											
260												
261	General Statistics											
262	Total Number of Observations					10	Number of Distinct Observations					6
263							Number of Missing Observations					0
264	Minimum					11	Mean					18.8
265	Maximum					54	Median					15
266	SD					12.73	Std. Error of Mean					4.024
267	Coefficient of Variation					0.677	Skewness					2.858
268												
269	Normal GOF Test											
270	Shapiro Wilk Test Statistic					0.566	Shapiro Wilk GOF Test					
271	5% Shapiro Wilk Critical Value					0.842	Data Not Normal at 5% Significance Level					
272	Lilliefors Test Statistic					0.387	Lilliefors GOF Test					
273	5% Lilliefors Critical Value					0.262	Data Not Normal at 5% Significance Level					
274	Data Not Normal at 5% Significance Level											
275												

A	B	C	D	E	F	G	H	I	J	K	L
276	Assuming Normal Distribution										
277	95% Normal UCL					95% UCLs (Adjusted for Skewness)					
278	95% Student's-t UCL				26.18	95% Adjusted-CLT UCL (Chen-1995)					29.31
279						95% Modified-t UCL (Johnson-1978)					26.78
280											
281	Gamma GOF Test										
282	A-D Test Statistic				1.432	Anderson-Darling Gamma GOF Test					
283	5% A-D Critical Value				0.729	Data Not Gamma Distributed at 5% Significance Level					
284	K-S Test Statistic				0.364	Kolmogorov-Smirnov Gamma GOF Test					
285	5% K-S Critical Value				0.268	Data Not Gamma Distributed at 5% Significance Level					
286	Data Not Gamma Distributed at 5% Significance Level										
287											
288	Gamma Statistics										
289	k hat (MLE)				4.295	k star (bias corrected MLE)					3.073
290	Theta hat (MLE)				4.377	Theta star (bias corrected MLE)					6.117
291	nu hat (MLE)				85.91	nu star (bias corrected)					61.47
292	MLE Mean (bias corrected)				18.8	MLE Sd (bias corrected)					10.72
293						Approximate Chi Square Value (0.05)					44.44
294	Adjusted Level of Significance				0.0267	Adjusted Chi Square Value					41.93
295											
296	Assuming Gamma Distribution										
297	95% Approximate Gamma UCL (use when n>=50))				26.01	95% Adjusted Gamma UCL (use when n<50)					27.56
298											
299	Lognormal GOF Test										
300	Shapiro Wilk Test Statistic				0.728	Shapiro Wilk Lognormal GOF Test					
301	5% Shapiro Wilk Critical Value				0.842	Data Not Lognormal at 5% Significance Level					
302	Lilliefors Test Statistic				0.335	Lilliefors Lognormal GOF Test					
303	5% Lilliefors Critical Value				0.262	Data Not Lognormal at 5% Significance Level					
304	Data Not Lognormal at 5% Significance Level										
305											
306	Lognormal Statistics										
307	Minimum of Logged Data				2.398	Mean of logged Data					2.813
308	Maximum of Logged Data				3.989	SD of logged Data					0.454
309											
310	Assuming Lognormal Distribution										
311	95% H-UCL				25.59	90% Chebyshev (MVUE) UCL					26.24
312	95% Chebyshev (MVUE) UCL				29.85	97.5% Chebyshev (MVUE) UCL					34.87
313	99% Chebyshev (MVUE) UCL				44.72						
314											
315	Nonparametric Distribution Free UCL Statistics										
316	Data do not follow a Discernible Distribution (0.05)										
317											
318	Nonparametric Distribution Free UCLs										
319	95% CLT UCL				25.42	95% Jackknife UCL					26.18
320	95% Standard Bootstrap UCL				24.98	95% Bootstrap-t UCL					54.3
321	95% Hall's Bootstrap UCL				58.21	95% Percentile Bootstrap UCL					26.3
322	95% BCA Bootstrap UCL				30.5						
323	90% Chebyshev(Mean, Sd) UCL				30.87	95% Chebyshev(Mean, Sd) UCL					36.34
324	97.5% Chebyshev(Mean, Sd) UCL				43.93	99% Chebyshev(Mean, Sd) UCL					58.84
325											
326	Suggested UCL to Use										
327	95% Student's-t UCL				26.18	or 95% Modified-t UCL					26.78
328											
329	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL										
330	Recommendations are based upon data size, data distribution, and skewness.										

	A	B	C	D	E	F	G	H	I	J	K	L
331	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
332	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
333												
334												
335	MANGANESE											
336												
337	General Statistics											
338	Total Number of Observations				10		Number of Distinct Observations				10	
339							Number of Missing Observations				0	
340	Minimum				62		Mean				533.9	
341	Maximum				2300		Median				180	
342	SD				717.7		Std. Error of Mean				227	
343	Coefficient of Variation				1.344		Skewness				1.986	
344												
345	Normal GOF Test											
346	Shapiro Wilk Test Statistic				0.71		Shapiro Wilk GOF Test					
347	5% Shapiro Wilk Critical Value				0.842		Data Not Normal at 5% Significance Level					
348	Lilliefors Test Statistic				0.312		Lilliefors GOF Test					
349	5% Lilliefors Critical Value				0.262		Data Not Normal at 5% Significance Level					
350	Data Not Normal at 5% Significance Level											
351												
352	Assuming Normal Distribution											
353	95% Normal UCL					95% UCLs (Adjusted for Skewness)						
354	95% Student's-t UCL			949.9		95% Adjusted-CLT UCL (Chen-1995)					1059	
355						95% Modified-t UCL (Johnson-1978)					973.7	
356												
357	Gamma GOF Test											
358	A-D Test Statistic			0.65		Anderson-Darling Gamma GOF Test						
359	5% A-D Critical Value			0.754		Detected data appear Gamma Distributed at 5% Significance Level						
360	K-S Test Statistic			0.235		Kolmogorov-Smirnov Gamma GOF Test						
361	5% K-S Critical Value			0.275		Detected data appear Gamma Distributed at 5% Significance Level						
362	Detected data appear Gamma Distributed at 5% Significance Level											
363												
364	Gamma Statistics											
365	k hat (MLE)			0.825		k star (bias corrected MLE)					0.644	
366	Theta hat (MLE)			647		Theta star (bias corrected MLE)					828.6	
367	nu hat (MLE)			16.5		nu star (bias corrected)					12.89	
368	MLE Mean (bias corrected)			533.9		MLE Sd (bias corrected)					665.1	
369						Approximate Chi Square Value (0.05)					5.817	
370	Adjusted Level of Significance			0.0267		Adjusted Chi Square Value					5.015	
371												
372	Assuming Gamma Distribution											
373	95% Approximate Gamma UCL (use when n>=50)				1183		95% Adjusted Gamma UCL (use when n<50)				1372	
374												
375	Lognormal GOF Test											
376	Shapiro Wilk Test Statistic			0.917		Shapiro Wilk Lognormal GOF Test						
377	5% Shapiro Wilk Critical Value			0.842		Data appear Lognormal at 5% Significance Level						
378	Lilliefors Test Statistic			0.174		Lilliefors Lognormal GOF Test						
379	5% Lilliefors Critical Value			0.262		Data appear Lognormal at 5% Significance Level						
380	Data appear Lognormal at 5% Significance Level											
381												
382	Lognormal Statistics											
383	Minimum of Logged Data			4.127		Mean of logged Data					5.564	
384	Maximum of Logged Data			7.741		SD of logged Data					1.229	
385												

	A	B	C	D	E	F	G	H	I	J	K	L
386	Assuming Lognormal Distribution											
387	95% H-UCL					2420	90% Chebyshev (MVUE) UCL					1107
388	95% Chebyshev (MVUE) UCL					1384	97.5% Chebyshev (MVUE) UCL					1768
389	99% Chebyshev (MVUE) UCL					2523						
390												
391	Nonparametric Distribution Free UCL Statistics											
392	Data appear to follow a Discernible Distribution at 5% Significance Level											
393												
394	Nonparametric Distribution Free UCLs											
395	95% CLT UCL					907.2	95% Jackknife UCL					949.9
396	95% Standard Bootstrap UCL					891.2	95% Bootstrap-t UCL					1451
397	95% Hall's Bootstrap UCL					1122	95% Percentile Bootstrap UCL					908.4
398	95% BCA Bootstrap UCL					1080						
399	90% Chebyshev(Mean, Sd) UCL					1215	95% Chebyshev(Mean, Sd) UCL					1523
400	97.5% Chebyshev(Mean, Sd) UCL					1951	99% Chebyshev(Mean, Sd) UCL					2792
401												
402	Suggested UCL to Use											
403	95% Adjusted Gamma UCL					1372						
404												
405	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL											
406	Recommendations are based upon data size, data distribution, and skewness.											
407	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
408	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician											
409												
410												
411	MERCURY											
412												
413	General Statistics											
414	Total Number of Observations					10	Number of Distinct Observations					2
415							Number of Missing Observations					0
416	Minimum					0.05	Mean					0.056
417	Maximum					0.11	Median					0.05
418	SD					0.019	Std. Error of Mean					0.006
419	Coefficient of Variation					0.339	Skewness					3.162
420												
421	Normal GOF Test											
422	Shapiro Wilk Test Statistic					0.366	Shapiro Wilk GOF Test					
423	5% Shapiro Wilk Critical Value					0.842	Data Not Normal at 5% Significance Level					
424	Lilliefors Test Statistic					0.524	Lilliefors GOF Test					
425	5% Lilliefors Critical Value					0.262	Data Not Normal at 5% Significance Level					
426	Data Not Normal at 5% Significance Level											
427												
428	Assuming Normal Distribution											
429	95% Normal UCL						95% UCLs (Adjusted for Skewness)					
430	95% Student's-t UCL					0.067	95% Adjusted-CLT UCL (Chen-1995)					0.0723
431							95% Modified-t UCL (Johnson-1978)					0.068
432												
433	Gamma GOF Test											
434	A-D Test Statistic					3.303	Anderson-Darling Gamma GOF Test					
435	5% A-D Critical Value					0.725	Data Not Gamma Distributed at 5% Significance Level					
436	K-S Test Statistic					0.532	Kolmogorov-Smirnov Gamma GOF Test					
437	5% K-S Critical Value					0.266	Data Not Gamma Distributed at 5% Significance Level					
438	Data Not Gamma Distributed at 5% Significance Level											
439												
440	Gamma Statistics											

	A	B	C	D	E	F	G	H	I	J	K	L
441	k hat (MLE)					14.66	k star (bias corrected MLE)					10.33
442	Theta hat (MLE)					0.00382	Theta star (bias corrected MLE)					0.00542
443	nu hat (MLE)					293.3	nu star (bias corrected)					206.6
444	MLE Mean (bias corrected)					0.056	MLE Sd (bias corrected)					0.0174
445							Approximate Chi Square Value (0.05)					174.4
446	Adjusted Level of Significance					0.0267	Adjusted Chi Square Value					169.2
447												
448	Assuming Gamma Distribution											
449	95% Approximate Gamma UCL (use when n>=50))					0.0664	95% Adjusted Gamma UCL (use when n<50)					0.0684
450												
451	Lognormal GOF Test											
452	Shapiro Wilk Test Statistic					0.366	Shapiro Wilk Lognormal GOF Test					
453	5% Shapiro Wilk Critical Value					0.842	Data Not Lognormal at 5% Significance Level					
454	Lilliefors Test Statistic					0.524	Lilliefors Lognormal GOF Test					
455	5% Lilliefors Critical Value					0.262	Data Not Lognormal at 5% Significance Level					
456	Data Not Lognormal at 5% Significance Level											
457												
458	Lognormal Statistics											
459	Minimum of Logged Data					-2.996	Mean of logged Data					-2.917
460	Maximum of Logged Data					-2.207	SD of logged Data					0.249
461												
462	Assuming Lognormal Distribution											
463	95% H-UCL					0.0655	90% Chebyshev (MVUE) UCL					0.0689
464	95% Chebyshev (MVUE) UCL					0.0748	97.5% Chebyshev (MVUE) UCL					0.0832
465	99% Chebyshev (MVUE) UCL					0.0995						
466												
467	Nonparametric Distribution Free UCL Statistics											
468	Data do not follow a Discernible Distribution (0.05)											
469												
470	Nonparametric Distribution Free UCLs											
471	95% CLT UCL					0.0659	95% Jackknife UCL					N/A
472	95% Standard Bootstrap UCL					N/A	95% Bootstrap-t UCL					N/A
473	95% Hall's Bootstrap UCL					N/A	95% Percentile Bootstrap UCL					N/A
474	95% BCA Bootstrap UCL					N/A						
475	90% Chebyshev(Mean, Sd) UCL					0.074	95% Chebyshev(Mean, Sd) UCL					0.0822
476	97.5% Chebyshev(Mean, Sd) UCL					0.0935	99% Chebyshev(Mean, Sd) UCL					0.116
477												
478	Suggested UCL to Use											
479	95% Student's-t UCL					0.067	or 95% Modified-t UCL					0.068
480												
481	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL											
482	Recommendations are based upon data size, data distribution, and skewness.											
483	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
484	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
485												
486												
487	NICKEL											
488												
489	General Statistics											
490	Total Number of Observations					10	Number of Distinct Observations					8
491							Number of Missing Observations					0
492	Minimum					4.7	Mean					8.08
493	Maximum					15	Median					6.15
494	SD					3.545	Std. Error of Mean					1.121
495	Coefficient of Variation					0.439	Skewness					1.138

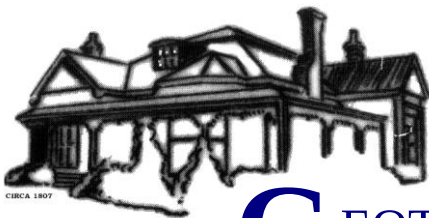
	A	B	C	D	E	F	G	H	I	J	K	L
496												
497	Normal GOF Test											
498	Shapiro Wilk Test Statistic					0.79	Shapiro Wilk GOF Test					
499	5% Shapiro Wilk Critical Value					0.842	Data Not Normal at 5% Significance Level					
500	Lilliefors Test Statistic					0.302	Lilliefors GOF Test					
501	5% Lilliefors Critical Value					0.262	Data Not Normal at 5% Significance Level					
502	Data Not Normal at 5% Significance Level											
503												
504	Assuming Normal Distribution											
505	95% Normal UCL						95% UCLs (Adjusted for Skewness)					
506	95% Student's-t UCL					10.13	95% Adjusted-CLT UCL (Chen-1995)					10.35
507							95% Modified-t UCL (Johnson-1978)					10.2
508												
509	Gamma GOF Test											
510	A-D Test Statistic					0.97	Anderson-Darling Gamma GOF Test					
511	5% A-D Critical Value					0.728	Data Not Gamma Distributed at 5% Significance Level					
512	K-S Test Statistic					0.302	Kolmogorov-Smirnov Gamma GOF Test					
513	5% K-S Critical Value					0.267	Data Not Gamma Distributed at 5% Significance Level					
514	Data Not Gamma Distributed at 5% Significance Level											
515												
516	Gamma Statistics											
517	k hat (MLE)					6.782	k star (bias corrected MLE)					4.814
518	Theta hat (MLE)					1.191	Theta star (bias corrected MLE)					1.678
519	nu hat (MLE)					135.6	nu star (bias corrected)					96.29
520	MLE Mean (bias corrected)					8.08	MLE Sd (bias corrected)					3.683
521							Approximate Chi Square Value (0.05)					74.65
522	Adjusted Level of Significance					0.0267	Adjusted Chi Square Value					71.35
523												
524	Assuming Gamma Distribution											
525	95% Approximate Gamma UCL (use when n>=50))					10.42	95% Adjusted Gamma UCL (use when n<50)					10.9
526												
527	Lognormal GOF Test											
528	Shapiro Wilk Test Statistic					0.842	Shapiro Wilk Lognormal GOF Test					
529	5% Shapiro Wilk Critical Value					0.842	Data appear Lognormal at 5% Significance Level					
530	Lilliefors Test Statistic					0.284	Lilliefors Lognormal GOF Test					
531	5% Lilliefors Critical Value					0.262	Data Not Lognormal at 5% Significance Level					
532	Data appear Approximate Lognormal at 5% Significance Level											
533												
534	Lognormal Statistics											
535	Minimum of Logged Data					1.548	Mean of logged Data					2.014
536	Maximum of Logged Data					2.708	SD of logged Data					0.395
537												
538	Assuming Lognormal Distribution											
539	95% H-UCL					10.66	90% Chebyshev (MVUE) UCL					11.08
540	95% Chebyshev (MVUE) UCL					12.46	97.5% Chebyshev (MVUE) UCL					14.38
541	99% Chebyshev (MVUE) UCL					18.14						
542												
543	Nonparametric Distribution Free UCL Statistics											
544	Data appear to follow a Discernible Distribution at 5% Significance Level											
545												
546	Nonparametric Distribution Free UCLs											
547	95% CLT UCL					9.924	95% Jackknife UCL					10.13
548	95% Standard Bootstrap UCL					9.868	95% Bootstrap-t UCL					10.84
549	95% Hall's Bootstrap UCL					9.589	95% Percentile Bootstrap UCL					9.89
550	95% BCA Bootstrap UCL					10.29						

	A	B	C	D	E	F	G	H	I	J	K	L
551	90% Chebyshev(Mean, Sd) UCL					11.44	95% Chebyshev(Mean, Sd) UCL					12.97
552	97.5% Chebyshev(Mean, Sd) UCL					15.08	99% Chebyshev(Mean, Sd) UCL					19.23
553												
554	Suggested UCL to Use											
555	95% Student's-t UCL					10.13	or 95% Modified-t UCL					10.2
556	or 95% H-UCL					10.66						
557												
558	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL											
559	Recommendations are based upon data size, data distribution, and skewness.											
560	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
561	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
562												
563	ProUCL computes and outputs H-statistic based UCLs for historical reasons only.											
564	H-statistic often results in unstable (both high and low) values of UCL95 as shown in examples in the Technical Guide.											
565	It is therefore recommended to avoid the use of H-statistic based 95% UCLs.											
566	Use of nonparametric methods are preferred to compute UCL95 for skewed data sets which do not follow a gamma distribution.											
567												
568												
569	ZINC											
570												
571	General Statistics											
572	Total Number of Observations					10	Number of Distinct Observations					10
573							Number of Missing Observations					0
574	Minimum					23	Mean					59.8
575	Maximum					300	Median					29.5
576	SD					85.47	Std. Error of Mean					27.03
577	Coefficient of Variation					1.429	Skewness					3.026
578												
579	Normal GOF Test											
580	Shapiro Wilk Test Statistic					0.473	Shapiro Wilk GOF Test					
581	5% Shapiro Wilk Critical Value					0.842	Data Not Normal at 5% Significance Level					
582	Lilliefors Test Statistic					0.41	Lilliefors GOF Test					
583	5% Lilliefors Critical Value					0.262	Data Not Normal at 5% Significance Level					
584	Data Not Normal at 5% Significance Level											
585												
586	Assuming Normal Distribution											
587	95% Normal UCL						95% UCLs (Adjusted for Skewness)					
588	95% Student's-t UCL					109.3	95% Adjusted-CLT UCL (Chen-1995)					131.9
589							95% Modified-t UCL (Johnson-1978)					113.7
590												
591	Gamma GOF Test											
592	A-D Test Statistic					1.939	Anderson-Darling Gamma GOF Test					
593	5% A-D Critical Value					0.742	Data Not Gamma Distributed at 5% Significance Level					
594	K-S Test Statistic					0.393	Kolmogorov-Smirnov Gamma GOF Test					
595	5% K-S Critical Value					0.272	Data Not Gamma Distributed at 5% Significance Level					
596	Data Not Gamma Distributed at 5% Significance Level											
597												
598	Gamma Statistics											
599	k hat (MLE)					1.325	k star (bias corrected MLE)					0.994
600	Theta hat (MLE)					45.14	Theta star (bias corrected MLE)					60.16
601	nu hat (MLE)					26.49	nu star (bias corrected)					19.88
602	MLE Mean (bias corrected)					59.8	MLE Sd (bias corrected)					59.98
603							Approximate Chi Square Value (0.05)					10.76
604	Adjusted Level of Significance					0.0267	Adjusted Chi Square Value					9.617
605												

	A	B	C	D	E	F	G	H	I	J	K	L
606	Assuming Gamma Distribution											
607	95% Approximate Gamma UCL (use when $n \geq 50$)					110.5	95% Adjusted Gamma UCL (use when $n < 50$)					123.6
608												
609	Lognormal GOF Test											
610	Shapiro Wilk Test Statistic					0.657	Shapiro Wilk Lognormal GOF Test					
611	5% Shapiro Wilk Critical Value					0.842	Data Not Lognormal at 5% Significance Level					
612	Lilliefors Test Statistic					0.343	Lilliefors Lognormal GOF Test					
613	5% Lilliefors Critical Value					0.262	Data Not Lognormal at 5% Significance Level					
614	Data Not Lognormal at 5% Significance Level											
615												
616	Lognormal Statistics											
617	Minimum of Logged Data					3.135	Mean of logged Data					3.668
618	Maximum of Logged Data					5.704	SD of logged Data					0.78
619												
620	Assuming Lognormal Distribution											
621	95% H-UCL					106.4	90% Chebyshev (MVUE) UCL					90.41
622	95% Chebyshev (MVUE) UCL					108.2	97.5% Chebyshev (MVUE) UCL					132.8
623	99% Chebyshev (MVUE) UCL					181.3						
624												
625	Nonparametric Distribution Free UCL Statistics											
626	Data do not follow a Discernible Distribution (0.05)											
627												
628	Nonparametric Distribution Free UCLs											
629	95% CLT UCL					104.3	95% Jackknife UCL					109.3
630	95% Standard Bootstrap UCL					103.2	95% Bootstrap-t UCL					787.3
631	95% Hall's Bootstrap UCL					349.7	95% Percentile Bootstrap UCL					111.2
632	95% BCA Bootstrap UCL					138.1						
633	90% Chebyshev(Mean, Sd) UCL					140.9	95% Chebyshev(Mean, Sd) UCL					177.6
634	97.5% Chebyshev(Mean, Sd) UCL					228.6	99% Chebyshev(Mean, Sd) UCL					328.7
635												
636	Suggested UCL to Use											
637	95% Chebyshev (Mean, Sd) UCL					177.6						
638												
639	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL											
640	Recommendations are based upon data size, data distribution, and skewness.											
641	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
642	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
643												

APPENDIX J

UNEXPECTED FINDS MANAGEMENT PROTOCOL



GEOTECHNIQUE[®]
PTY LTD

ARN 64 002 841 063



**Unexpected Finds Management Protocol
Lot 11 in DP833983 & Lot 12 in DP833784268
268-278 Catherine Fields Road, Catherine Field**

In the event that unexpected finds and / or suspect materials (identified by unusual staining, odour, discolouration or inclusions such as building rubble, asbestos sheets / pieces / pipes, ash material, imported fill materials [which are different to those encountered during the previous assessments], etc.) are encountered during future remediation works / earthworks, the following actions are to be undertaken.

Management of unexpected finds and / or suspect materials

If unexpected finds and / or suspect materials are encountered:

- Works are to be ceased.
- An Environmental Consultant is to be engaged to take appropriate action.
- If contamination is identified, the contaminated materials must be disposed of at an EPA licensed landfill facility with an appropriate waste classification.

Management of bonded asbestos containing material (ACM)

If bonded ACM is encountered, the following measures are implemented:

- Engage a NSW WorkCover accredited Class B asbestos contractor.
- Removal of the asbestos waste must be carried out in accordance with the requirements of the regulators, such as NSW WorkCover and NSW EPA.
- A WorkCover Licensed Asbestos Assessor should be engaged to provide a clearance certificate.

Management of friable asbestos within the soil

It is recommended that the following measures are implemented if friable asbestos is encountered:

- Engage a NSW WorkCover accredited Class A Asbestos contractor.
- Removal of the asbestos waste must be carried out in accordance with the requirements of the regulators, such as NSW WorkCover and NSW EPA
- A WorkCover Licensed Asbestos Assessor must be engaged to provide a clearance certificate.

APPENDIX K

ENVIRONMENTAL NOTES

IMPORTANT INFORMATION REGARDING YOUR ENVIRONMENTAL SITE ASSESSMENT

These notes have been prepared by Geotechnique Pty Ltd, using guidelines prepared by the ASFE (Associated Soil and Foundation Engineers). The notes are offered to assist in the interpretation of your environmental site assessment report.

REASONS FOR AN ENVIRONMENTAL ASSESSMENT

Environmental site assessments are typically, though not exclusively, performed in the following circumstances:

- As a pre-acquisition assessment on behalf of either a purchaser or a vendor, when a property is to be sold
- As a pre-development assessment, when a property or area of land is to be redeveloped, or the land use has changed e.g. from a factory to a residential subdivision
- As a pre-development assessment of greenfield sites, to establish baseline conditions and assess environmental, geological and hydrological constraints to the development of e.g. a landfill
- As an audit of the environmental effects of previous and present site usage

Each circumstance requires a specific approach to the assessment of soil and groundwater contamination. In all cases the objective is to identify and if possible quantify the risks that unrecognised contamination poses to the ongoing proposed activity. Such risks may be both financial (clean-up costs or limitations in site use) and physical (health risks to site users or the public).

ENVIRONMENTAL SITE ASSESSMENT LIMITATIONS

Although information provided by an environmental site assessment can reduce exposure to the risk of the presence of contamination, no environmental site assessment can eliminate the risk. Even a rigorous professional assessment may not detect all contamination within a site. Contaminants may be present in areas that were not surveyed or sampled, or may migrate to areas which did not show signs of contamination when sampled. Contaminant analysis cannot possibly cover every type of contaminant that may occur; only the most likely contaminants are screened.

AN ENVIRONMENTAL SITE ASSESSMENT REPORT IS BASED ON A UNIQUE SET OF PROJECT SPECIFIC FACTORS

In the following events and in order to avoid cost problems, you should ask your consultant to assess any changes in the conclusion and recommendations made in the assessment:

- When the nature of the proposed development is changed e.g. if a residential development is proposed, rather than a commercial development
- When the size or configuration of the proposed development is altered e.g. if a basement is added
- When the location or orientation of the proposed structure is modified
- When there is a change of land ownership, or
- For application to an adjacent site

ENVIRONMENTAL SITE ASSESSMENT FINDINGS ARE PROFESSIONAL ESTIMATES

Site assessment identifies actual sub-surface conditions only at those points where samples are taken, when they are taken. Data obtained from the sampling and subsequent laboratory analyses are interpreted by geologists, engineers or scientists and opinions are drawn about the overall sub-surface conditions, the nature and extent of contamination, the likely impact on any proposed development and appropriate remediation measures. Actual conditions may differ from those inferred, because no professional, no matter how qualified and no sub-surface exploration program, no matter how comprehensive, can reveal what is hidden by earth, rock and time. The actual interface between materials may be far more gradual or abrupt than an assessment indicates. Actual conditions in areas not sampled may differ from predictions. Nothing can be done to prevent the unanticipated, however, steps can be taken to help minimise the impact. For this reason site owners should retain the services of their consultants throughout the development stages of the project in order to identify variances, conduct additional tests that may be necessary and to recommend solutions to problems encountered on site.

Soil and groundwater contamination is a field in which legislation and interpretation of legislation by government departments is changing rapidly. Whilst every attempt is made by Geotechnique Pty Ltd to be familiar with current policy, our interpretation of the investigation findings should not be taken to be that of the relevant authority. When approval from a statutory authority is required for a project, approval should be directly sought.

STABILITY OF SUB-SURFACE CONDITIONS

Sub-surface conditions can change by natural processes and site activities. As an environmental site assessment is based on conditions existing at the time of the investigation, project decisions should not be based on environmental site assessment data that may have been affected by time. The consultant should be requested to advise if additional tests are required.

ENVIRONMENTAL SITE ASSESSMENTS ARE PERFORMED FOR SPECIFIC PURPOSES AND CLIENTS

Environmental site assessments are prepared in response to a specific scope of work required to meet the specific needs of specific individuals e.g. an assessment prepared for a consulting civil engineer may not be adequate to a construction contractor or another consulting civil engineer.

An assessment should not be used by other persons for any purpose or by the client for a different purpose. No individual, other than the client, should apply an assessment, even for its intended purpose, without first conferring with the consultant. No person should apply an assessment for any purpose other than that originally contemplated, without first conferring with the consultant.

MISINTERPRETATION OF ENVIRONMENTAL SITE ASSESSMENTS

Costly problems can occur when design professionals develop plans based on misinterpretation of an environmental site assessment. In order to minimise problems, the environmental consultant should be retained to work with appropriate design professionals, to explain relevant findings and to review the adequacy of plans and specifications relative to contamination issues.

LOGS SHOULD NOT BE SEPARATED FROM THE REPORT

Borehole and test pit logs are prepared by environmental scientists, engineers or geologists, based upon interpretation of field conditions and laboratory evaluation of field samples. Logs are normally provided in our reports and these would not be redrawn for inclusion in site remediation or other design drawings, as subtle but significant drafting errors or omissions may occur in the transfer process. Photographic reproduction can eliminate this problem, however, contractors can still misinterpret the logs during bid preparation if separated from the text of the assessment. Should this occur, delays and disputes, or unanticipated costs may result.

To reduce the likelihood of borehole and test pit log misinterpretation, the complete assessment should be available to persons or organisations involved in the project, such as contractors, for their use. Denial of such access and disclaiming responsibility for the accuracy of sub-surface information does not insulate an owner from the attendant liability. It is critical that the site owner provides all available site information to persons and organisations, such as contractors.

READ RESPONSIBILITY CLAUSES CLOSELY

An environmental site assessment is based extensively on judgement and opinion; therefore, it is necessarily less exact than other disciplines. This situation has resulted in wholly unwarranted claims being lodged against consultants. In order to aid in prevention of this problem, model clauses have been developed for use in written transmittals. These are definitive clauses, designed to indicate consultant responsibility. Their use helps all parties involved recognise individual responsibilities and formulate appropriate action. Some of these definitive clauses are likely to appear in the environmental site assessment and you are encouraged to read them closely. Your consultant will be happy to give full and frank answers to any questions you may have.