Alliance Geotechnical

Engineering | Environmental | Testing

Supplementary Asbestos Contamination Assessment
Lot 1 and 2 in DP1232692, Lot 810, portion of Lot 811, Lot 840, Lot 841, and Lot 842 in DP2475

135-165 Tenth Avenue and Portion of 140, 160 and 170 Eleventh Avenue, Austral, NSW

Prepared for: Sydney Catholic Schools

Report Number: 6930-ER-1-1
Report Date: 18 July 2018

We give you the right information to make the right decisions

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EXECUTIVE SUMMARY

Alliance Geotechnical Pty Ltd (AG) was engaged by Sydney Catholic School, to undertake a supplementary asbestos contamination assessment, preliminary salinity assessment and hazardous building materials survey for 135-165 Tenth Avenue, Austral, NSW and portion of 140, 160 and 170 Eleventh Avenue, Austral, NSW (refer **Figure 1** with the 'site' boundaries outlined in **Figure 2**).

AG has the following project appreciation:

- the site is proposed for redevelopment, comprising child care centre, primary school, secondary school, and associated infrastructure (including car parking, paved areas and playing fields);
- previous contamination assessments undertaken by EIS have recommended additional site investigation work to quantitatively assess asbestos in soil risks at the site. This recommendation appears to have been based on the previous asbestos in soil assessment not being undertaken in accordance with current NSW EPA endorsed guidance for assessing asbestos in soils; and
- a preliminary assessment of salinity risks at the site is required.

The objectives of this assessment were to:

- assess the potential nature and extent of asbestos in soils across the site;
- provide advice on whether the site would be suitable (in the context of land contamination) for the proposed commercial / industrial redevelopment;
- provide advice on salinity hazards for the site;
- provide advice on the presence of hazardous building materials on the site;
- provide recommendations for further investigation, management and/or remediation (if warranted).

The scope of works undertaken to address the assessment objectives, included:

- a desktop review;
- soil sampling;
- laboratory analysis; and
- data assessment and reporting.

Based on AG's assessment of the desktop review information, fieldwork data and laboratory analytical data, in the context of the proposed land use setting, AG makes the following conclusions:

- the concentrations of bonded asbestos containing materials detected in the soils at sampling points TP015, TP043, TP072, TP104, TP116, TP120, TP121, TP129, TP132, may present an unacceptable human health exposure risk;
- the concentrations of asbestos fines / friable asbestos detected in the soils at sampling points TP072, TP104, TP116, TP121, TP129, may present an unacceptable human health exposure risk;
- the detection of asbestos in soils at EIS (2016b) sampling points TP4, TP29, SS1, SS2, FJS1, TP57 and TP60, may present an unacceptable human health exposure risk;
- there is a potential for unacceptable asbestos-related human health exposure risks in soils to be present:
    - in the eastern, western and southern curtilage of the residential dwelling located on Lot 811;
    - in the soil stockpile located to the south of the residential dwelling in Lot 811; and
    - across the southern portion of Lot 811 in the vicinity of the sewage reticulation system and associated network of subsurface pipes; and
- the site could be made suitable for the proposed land use setting, subject to further assessment of the identified asbestos in soil data gaps, and the management and/or remediation of unacceptable asbestos-related human health exposure risks in soils on site.

Based on these conclusions, AG makes the following recommendations:

- A remedial action plan (RAP) should be prepared for the site, to address potentially unacceptable asbestos in soil related human health exposure risks at the site;
- the RAP should be prepared by a suitably experience environmental consultant with reference to NSW OEH (2011) and include (but not be limited to) the following:
    - a remedial goal for the site;
    - a strategy for addressing the identified data gaps in Lot 811;
    - an assessment of remedial options available to address the identified asbestos risks. These options may include removal offsite, in-situ containment, ex-situ containment, or a combination of these;
    - the proposed testing to validate the site after remediation;
    - a contingency plan to address unexpected finds or if the selected remedial strategy fails; and
    - a site management plan (for the remediation works).
- Consideration should be given to undertaking delineation assessment works around detected asbestos contamination, should there be a need to obtain further certainty around the nature and extent of remedial works required. The delineation work could be undertaken
    - prior to preparation of the RAP; or
    - following preparation of the RAP, with a RAP addendum issued incorporating the findings of the delineation assessment;
- Prior to demolition of the existing structures on the site, clearance certificates should be obtained from a suitably competent person, following removal of hazardous building materials (if any) from the structures; and
- Records of the lawful transport and disposal of asbestos containing materials and any other wastes removed from site, should be retained.

This report, including its conclusions and recommendations, must be read in conjunction with the limitations presented in **Section 12**.

1. INTRODUCTION

1.1. Background

Alliance Geotechnical Pty Ltd (AG) was engaged by Sydney Catholic School, to undertake a supplementary asbestos contamination assessment, preliminary salinity assessment and hazardous building materials survey for 135-165 Tenth Avenue, Austral, NSW and portion of 140, 160 and 170 Eleventh Avenue, Austral, NSW (refer **Figure 1** with the 'site' boundaries outlined in **Figure 2**).

AG has the following project appreciation:

- the site is proposed for redevelopment, comprising child care centre, primary school, secondary school, and associated infrastructure (including car parking, paved areas and playing fields);
- previous contamination assessments undertaken by EIS have recommended additional site investigation work to quantitatively assess asbestos in soil risks at the site. This recommendation appears to have been based on the previous asbestos in soil assessment not being undertaken in accordance with current NSW EPA endorsed guidance for assessing asbestos in soils; and
- a preliminary assessment of salinity risks at the site is required.

1.2. Objectives

The objectives of this assessment were to:

- assess the potential nature and extent of asbestos in soils across the site;
- provide advice on whether the site would be suitable (in the context of land contamination) for the proposed commercial / industrial redevelopment;
- provide advice on salinity hazards for the site;
- provide advice on the presence of hazardous building materials on the site;
- provide recommendations for further investigation, management and/or remediation (if warranted).

1.3. Scope of Work

The scope of works undertaken to address the assessment objectives, included:

- a desktop review;
- soil sampling;
- laboratory analysis; and
- data assessment and reporting.

2. SITE IDENTIFICATION

The site is registered as Lot 1 and 2 in DP1232692, Lot 810, portion of Lot 811, Lot 840, Lot 841, and Lot 842 in DP2475.

The approximate geographic coordinates of the middle of the site, inferred from Google Earth were 33°55'51.71"S and 150°48'28.44"E.

The locality of the site is set out in **Figure 1**.

The general layout of the site is set out in **Figure 2**.

The site covers an area of approximately 7.85 hectares.

A copy of a detail and level survey is presented in **Appendix A**.

3. GEOLOGY, TOPOGRAPHY HYDROGEOLOGY, SALINITY MAP AND SURFACE WATER FLOW

3.1. Geology

A review of the regional geological map of Penrith 1:100.000 (1991), indicates that the site is underlain by Bringelly Shale of the Wianamatta Group, which typically consists of shale, carbonaceous claystone, claystone, laminite, fine to medium grained lithic sandstone, rare coal and tuff.

3.2. Topography

The regional topography is characterised by a hill slope that generally falls to the south and south-west towards Kemps Creek. The natural site topography has been altered to accommodate the existing residential building. The overall topography of the site falls to the north at slopes between 3-4°.

3.3. Hydrogeology

A review of groundwater bores registered with the NSW DIP Water (DPIW website visited on 8th October 2014) was undertaken. The search was limited to registered bores located within approximately 5km of the site. The search did not reveal any registered bores within this radius.

The stratigraphy of the site is expected to consist of residual clayey soils overlying relatively shallow bedrock. Based on these conditions and the results of the groundwater bore search, groundwater is not considered to be a significant resource for abstraction purposes in the immediate vicinity of the site. A perched aquifer located in the shallow subsurface is not considered to be a resource due to high salinity, poor water quality and low yield.

4. PREVIOUS CONTAMINATION ASSESSMENTS

The following reports were considered during the undertaking of this project:

- Environmental Investigation Services (EIS) 2016a, 'Stage 1 Environmental Site Assessment, for Proposed School, 135, 135A, 145, 155, 165 Tenth and 140, 160, 170 Eleventh Avenue, Austral, NSW', dated 21 April 2016, ref: E27556KrptRev3.
- Environmental Investigation Services (EIS) 2016b, 'Remediation Action Plan, for Proposed School, 135, 135A, 145, 155, 165 Tenth and 140, 160, 170 Eleventh Avenue, Austral, NSW', dated 12 May 2016, ref: E27556KDrpt-RAP.

A summary of these reports is presented in **Section 4.1** and **4.2**.

4.1. Environmental Investigation Services (2016a)

The objectives of this project were to:

- Assess the potential risk for widespread soil contamination at the site;
- Assess the potential for dam water contamination at 140 Eleventh Avenue, Austral;
- Assess the potential risk to human health and the environment posed by the contaminants;
- Provide a preliminary waste classification for the off-site disposal of soil that may need to be excavated for the development; and
- Comment on the suitability of the site for the proposed land use.

The scope of works undertaken to address the project objectives, included:

- Preparation of site specific Data Quality Objectives (DQOs) and Data Quality Indicators (DQIs);
- A review of site information and site history documents;
- A site inspection to identify areas of environmental concern (AEC);
- Preparation of a Preliminary Conceptual Site Model (CSM) to outline the AEC, Potential Contaminants of Concern (PCC) and potential receptors;
- Design and implementation of a field sampling and laboratory analysis program;
- Interpretation of the analytical results against the adopted Site Assessment Criteria (SAC); and
- Preparation of a report presenting the results of the assessment.

Asbestos was detected during sampling and analysis, at eight[1] locations on the site, including in:

- A fill soil sample at EIS sampling point TP4/0.0-0.2;
- A fill soil sample at EIS sampling point TP29/0.1;
- A surface sample at EIS sampling point SS1;
- A building sample at EIS sampling point B1;
- A surface sample at EIS sampling point SS2;
- A surface sample at EIS sampling point FJS1;
- A fill soil sample at EIS sampling point TP57/0.15; and
- A fill soil sample at EIS sampling point TP60/0.2

Based on the scope of works undertaken, EIS were of the opinion that the contamination encountered at the site poses a risk to the receptors. EIS considered that the site can be made suitable for the proposed land use/development provided that the following recommendations are implemented to address the data gaps and to better characterise the risks:

[1] AG notes that EIS (2016a) reported that asbestos was detected in a sample collected from TP30/0.2, however, Table A in EIS (2016a) reported asbestos was not detected in that sample, and corresponding Envirolab certificate of analysis (batch E27556K) also reported asbestos was not detected at the reporting limit of 0.1g/kg.

- A Hazardous Materials Assessment (Hazmat) is undertaken for the existing buildings prior to the commencement of demolition works;
- The issue of asbestos cement fragments in the soil is resolved by either removing all of the topsoil/fill or identifying the extent of the problem and undertaking targeted remediation;
- A Remediation Action Plan (RAP) is prepared. The RAP will include remedial measures to be implemented to render the site suitable for the proposed land use;
- A Validation Assessment (VA) is prepared. The VA will document the success of the remediation works;
- An Asbestos Management Plan (AMP) is prepared for the site and the proposed construction works; and
- Inspections during demolition and excavation work are undertaken to assess any unexpected conditions or subsurface facilities that may be discovered between investigation locations. This should facilitate appropriate adjustment of the works programme and schedule in relation to the changed site conditions. Inspections should be undertaken by experienced environmental personnel.

4.2. Environmental Investigation Services (2016b)

The objectives of this investigation were to:

- Summarise the site contamination issue;
- Identify remediation and management measures to minimise potential risk to site receptors;
- Outline the remediation and management procedures for the site;
- Prepare a validation plan to be implemented in conjunction with the remediation work;
- Prepare a contingency plan for the remediation works; and
- Outline site management procedures to be implemented during remediation work.

The scope of works undertaken to address the project included:

- A review of background information;
- Identify potential remediation options;
- Outline the remediation procedures;
- Outline the validation sampling and analysis plan for the remediation work; and
- Preparation of the RAP report.

EIS concluded that the site could be made suitable for the proposed development provided the remediation in the RAP were successfully implemented, including a validation report.

5. CONCEPTUAL SITE MODEL

5.1. Areas of Environmental Concern and Contaminants of Potential Concern

The site history data collected was assessed within the objectives of this assessment and in the context of the proposed land use setting. That assessment identified areas of environmental concern (AEC) and contaminants of potential concern (COPC) which have the potential to be present on site. The AEC identified are presented in attached **Figure 3** and associated COPC are presented in **Table 5.1**.

Table 5.2: AEC and COPC

ID	AEC	Land Use Activity	Contaminants of Potential Concern
AEC01	Site footprint	Uncontrolled filling	Asbestos

5.2. Land Use Setting

AG understands that the proposed development works includes redevelopment of the site, comprising child care centre, primary school, secondary school, and associated infrastructure (including car parking, paved areas and playing fields).

Based on the proposed development works and guidance provided in Section 2.2 of NEPC (1999a), AG considers it reasonable to adopt the 'HIL A – residential with garden/accessible soil, including children's day care centres, preschools and primary schools' land use setting, for the purpose of assessing land contamination exposure risks.

5.3. Direct Contact – Human Health

The proposed land use setting is likely to include unsealed playground, garden/softscape and open space areas. It is considered that a direct contact exposure pathway (asbestos inhalation) may be complete.

5.4. Aesthetics – Human Health

Section 3.6.3 of NEPC (1999a) advises that there are no specific numeric aesthetic guidelines, however site assessment requires a balanced consideration of the quantity, type and distribution of foreign material or odours in relation to the specific land use and its sensitivity.

The historical evidence indicated potential land use activities being undertaken on the site which have the potential to result in unacceptable aesthetic impacts.

AG notes that the proposed development includes hardstand pavement across the majority of the site, which would act as a barrier between potential aesthetic impacts and onsite receptors. On that basis, it is considered that an aesthetics exposure pathway would likely be incomplete at the site.

6. DATA QUALITY OBJECTIVES

Appendix B of NEPC (1999b) provides guidance on the development of data quality objectives (DQO) using a seven-step process.

The DQO for this project are set out in Sections **6.1** to **6.7** of this report.

6.1. Step 1: State the problem

The first step involves summarising the contamination problem that requires new environmental data and identifying resources available to solve the problem.

The objectives of this assessment are to:

- assess the nature and likely extent of identified contaminants of potential concern (COPC) in the identified areas of environmental concern;
- provide advice on whether the identified COPC present an unacceptable human health exposure risk (in the context of land contamination) for the proposed land use setting; and
- provide recommendations for further assessment, management and/or remediation (if warranted).

The assessment is being undertaken because:

- the site is proposed for redevelopment comprising child care centre, primary school, secondary school, and associated infrastructure (including car parking, paved areas and playing fields); and
- supplementary contamination assessment is required to address potential asbestos in soil at the site.

The project team identified for this assessment is comprised primarily of suitably experienced environmental consultants from Alliance Geotechnical Pty Ltd.

The regulatory authorities identified for this assessment include NSW EPA and local Council.

6.2. Step 2: Identify the decision/goal of the study

The second step involves identifying decisions that need to be made about the contamination problem and the new environmental data required to make them.

The decisions that need to be made during this assessment include:

- Is the environmental data collected for the assessment, suitable for assessing relevant land contamination exposure risks?
- Do the concentrations of identified contaminants of potential concern (COPC) present an unacceptable exposure risk to identified receptors, for the proposed land use setting?
- Is the site suitable for the proposed land use setting, in the context of land contamination?

6.3. Step 3: Identify the information inputs

The third step involves identifying the information needed to support decisions and whether new environmental data will be needed.

The inputs required to make the decisions set out in Section **6.2** for this assessment, will include:

- data obtained during searches of the site's history;
- the nature and extent of sampling at the site, including both density and distribution;
- samples of relevant site media;
- the measured physical and/or chemical parameters of the site media samples (including field screening and laboratory analysis, where relevant); and
- assessment criteria adopted for each of the media sampled.

Taking into consideration the objectives of this assessment, and the conceptual site model and land use setting presented in **Section 5** of this assessment, the assessment criteria relevant to the proposed land use setting have been adopted for this assessment:

- Human health (asbestos) – HSLs[2] in Table 7 in NEPC (1999a)

6.4. Step 4: Define the boundaries of the study

The fourth step involves specifying the spatial and temporal aspects of the environmental media that the data must represent to support decisions.

The spatial extent of the assessment will be limited to the site as defined by the boundaries of the identified AEC.

The temporal boundaries of the assessment include

- the project timeframe presented in the AG proposal for this project,
- unacceptable weather conditions at the time of undertaking fieldwork, including rainfall, cold and/or heat;
- access availability of the site (to be defined by the site owner/representative); and
- availability of AG field staff (typically normal daylight working hours, Monday to Friday).

The lateral extent that contamination is expected to be distributed across, based on the conceptual site model, is defined by the inferred boundaries of the identified areas of environmental concern.

The vertical extent that contamination is expected to be distributed across, based on the conceptual site model and the project scope, is limited to fill material.

The scale of the decisions required will be based on the AEC.

Constraints which may affect the carrying out of this assessment may include access limitations, presence of above and below ground infrastructure, and hazards creating health and safety risks.

6.5. Step 5: Develop the analytical approach (or decision rule)

The fifth step involves defining the parameter of interest, specifying the action level, and integrating information from Steps 1 to 4 into a single statement that gives a logical basis for choosing between alternative actions.

6.5.1. Rinsate Blanks

One rinsate blank will be collected and scheduled for analysis, for each day of sampling undertaken, if non-disposable sampling equipment was used on that day. The rinsate blank will be analysed for at least one of the analytes the sample/s collected that day are being scheduled for analysis for (with the exception of asbestos).

6.5.2. Trip Spikes and Trip Blank Samples

One trip spike and trip blank sample will be used and scheduled for analysis, for each day of sampling undertaken, if site samples being collected that day are being analysed for volatile contaminants of concern (typically BTEX and/or TRH C_6-C_{10}).

[2] The HSLs include a qualitative criterion of 'no visible asbestos for surface soil' for all forms of asbestos. For the purposes of this assessment, surface soils are considered to be the top 10cm of soil at a sampling point.

6.5.3. Field Duplicates and Field Triplicates

Field duplicate and field triplicates will be collected at a rate of one per twenty (5%) site samples collected. The duplicates and triplicates collected will be analysed for at least one of the analytes that the parent sample of the duplicate/triplicate is being scheduled for analysis for (with the exception of asbestos).

The relevant percent difference (RPD) of concentrations of relevant analytes, between the parent sample and the duplicate/triplicate will be calculated.

6.5.4. Laboratory Analysis Quality Assurance / Quality Control

The analytical laboratory QA/QC program will typically include laboratory method blank samples, matrix spike samples, surrogate spike samples, laboratory control samples, and laboratory duplicate samples.

6.5.5. If/Then Decision Rules

AG has adopted the following 'if/then' decision rules for this assessment:

- If the result of the assessment of field data and laboratory analytical data is considered acceptable, then that field data and laboratory analytical data is suitable for interpretation within the scope of this assessment; and
- If the field data and laboratory analytical data is within the constraints of the assessment criteria adopted for this assessment (refer **Section 6.3**), then the contamination exposure risks to identified receptors, are considered acceptable.

In the event the assessment of field data and/or laboratory analytical data results in the data being not suitable for interpretation, then AG will determine if additional data is required to allow interpretation to be undertaken.

In the event that field data and/or laboratory analytical data exceeds the assessment criteria adopted for this assessment (refer **Section 6.3**), AG will undertake an assessment of the exceedance in the context of the project objectives to determine if additional data is required and whether management and/or remediation is required.

6.6. Step 6: Specify the performance or acceptance criteria

The sixth step involves specifying the decision maker's acceptable limits on decision errors, which are used to establish performance goals for limiting uncertainties in the data. When assessing contaminated land, there are generally two types of errors in decision making:

- Contamination exposure risks for a specific land use setting are acceptable, when they are not; and
- Contamination exposure risks for a specific land use setting are not acceptable, when they are.

AG will mitigate the risk of decision error by:

- Calculation of the 95% upper confidence limit (UCL) statistic to assess the mean concentration of relevant contaminants of potential concern;
- Assignment of fieldwork tasks to suitably experienced AG consulting staff, and suitably experienced contractors;
- Assignment of laboratory analytical tasks to reputable NATA accredited laboratories;
- Assignment of data interpretation tasks to suitably experienced AG consulting staff, and outsourcing to technical experts where required.

AG will also adopt a range of data quality indicators (DQI) to facilitate assessment of the completeness, comparability, representativeness, precision and accuracy (bias).

6.7. Step 7: Develop the plan for obtaining data

The seventh step involves identifying the most resource effective sampling and analysis design for generating the data that is required to satisfy the DQOs.

6.7.1. Sampling Point Density and Locations

Table A in NSW EPA (1995) provides guidance on minimum sampling point densities required for site characterisation, based on detecting circular hot spots by using a systematic sampling pattern. This guidance assumes the investigator has little knowledge about the probable locations of the contamination, the distribution of the contamination is expected to be random (e.g. land fill sites) or the distribution of the contamination is expected to be fairly homogenous (e.g. agricultural lands).

However, Section 3.1 of NSW EPA (1995) states that a judgemental sampling pattern can be used where there is enough information on the probable locations of contamination. Further to this, Section 6.2.1 of NEPC (1999b) states that the number and location or sampling points is based on knowledge of the site and professional judgement. Sampling should be localised to known or potentially contaminated areas identified from knowledge of the site either from site history or an earlier phase of site assessment. Judgemental sampling can be used to assessment sub-surface contamination issues in site assessment.

Table 1 in WA DOH (2009) indicates that where the 'likelihood of asbestos' is assessed as "suspect" or "likely", the assessment regimen should include a sampling density that is either judgemental and/or 1 or 2 times as that set out in Table A of NSW EPA (1995) for assessing asbestos in soil.

As this assessment has included gathering data which provides a reasonable understanding of site history (in the context of potential areas of environmental concern on the site) and taking into consideration Table 1 in WA DOH (2009), it is considered reasonable to adopt a combined judgemental/grid based sampling pattern, with up to 2 times the density set out in Table A of NSW EPA (1995).

The locations of the proposed sampling points are set out in **Figure 4a** and **Figure 4b**. The location of actual sampling points will be recorded by hand on a site plan.

6.7.2. Sampling Methodology

The sampling point methodology presented in **Table 6.7.2** will be used for this assessment. The methodology is based on a range of factors considered relevant to this assessment, including:

- the identified contaminants of potential concern;
- the suspected laydown mechanisms for those contaminants of concern;
- the suspected likely depth of contamination; and
- site specific constraints which affect the type of sampling techniques suited to the site.

Table 6.7.2 Proposed Sampling Methodology

AEC	Sampling Point ID	Method	Target Depth of Sampling Point (m bgs)
AEC01	TP001 – TP186	Test pit excavation	1.0m or 0.3m into inferred natural material

Reference will also be made to Table 5 in WA DOH (2009) for the sampling and screening of fill soils for the presence of asbestos, where practical.

6.7.3. Identification, Storage and Handling of Samples

Sample identifiers will be used for each sample collected, based on the sampling point number and the depth/interval the sample was collected from, e.g. a sample collected from BH03 at a depth of 0.2m to 0.4m below ground level, would be identified as BH03/0.2-0.4.

Project samples will be stored in laboratory prepared glass jars (and zip lock bags if collected for asbestos or acid sulfate soil assessment).

Soil samples in glass jars (and acid sulfate soil samples) will be placed in insulated container/s with ice.

Samples will be transported to the relevant analytical laboratory, with chain of custody (COC) documentation that includes the following information:

AG project identification number
- Each sample identifier
- Date each sample was collected
- Sample type (e.g. soil or water)
- Container type/s for each sample collected
- Preservation method used for each sample (e.g. ice)
- Analytical requirements for each sample and turnaround times
- Date and time of dispatch and receipt of samples (including signatures)

6.7.4. Headspace Screening

Where the contaminants of potential concern include volatiles (e.g. TRH, BTEX), project soil samples will be subjected to field screening for ionisable volatile organic compounds (VOC), using a photo-ionisation detector (PID). The results of field screening will be recorded on sampling point log.

6.7.5. Decontamination

In the event that non-disposable sampling equipment is used, that equipment will be decontaminated before and in between sampling events, to mitigate potential for cross contamination between samples collected. The decontamination methodology to be adopted for this project will include:
- Washing relevant sampling equipment using potable water with a phosphate free detergent (i.e. Decon 90 or similar) mixed into the water;
- Rinsing the washed non-disposable sampling equipment with distilled or de-ionised water; and
- Air drying as required.

6.7.6. Laboratory Selection

The analytical laboratories used for this project will be NATA accredited for the analysis undertaken, with the exception for asbestos quantification in soil to 0.001%. AG understands that NATA accreditation of environmental laboratories, does not include this analysis.

6.7.7. Laboratory Analytical Schedule

Project samples will be scheduled for NATA accredited laboratory analysis, using a combination of:
- Observations made in the field of the media sampled;
- Headspace screening results (where available);
- The contaminants of potential concern (COPC) identified for the area of environmental concern that the sample was collected from.

Based on site history, AG has adopted the laboratory analytical schedule (and associated upper limiting quantities) presented in **Table 6.7.7** for this project.

Table 6.7.7 Laboratory Analytical Schedule

AEC	Sampling Point ID	Asbestos (0.001%)	Asbestos (Building Material ID)
AEC01	TP001 – TP186	186	As required

6.7.8. Laboratory Holding Times, Analytical Methods and Limits of Reporting

The laboratory holding times, analytical methods and limits of reporting (LOR) being used for this project, are presented in **Table 6.7.8**.

Table 6.7.8 Laboratory Holding Times, Analytical Methods and Limits of Reporting

Analyte	Holding Time	Analytical Method	Limit of Reporting (mg/kg)
Asbestos	No limit	AS4964:2004	Absence / presence
Asbestos	No limit	Inhouse Method	0.001% w/w

7. FIELDWORK

7.1. Soil Sampling

An online dial before you dig search was done for the site. An underground service locating contractor (Geotrace) was engaged to undertake a survey of the site on 19 March 2018, for the presence of buried metallic services.

Soil sampling was undertaken by AG on 29 March and 3 April 2017. A total of 186 sampling points (TP001 to TP186) were marked out on site.

Each sampling point was excavated using a track mounted hydraulic excavator, with the exception of 16 sampling points including:

- TP168 – TP170 and TP178 – TP184, abandoned due to the presence of an active sewage reticulation system;
- TP171 – TP172, and TP176 – TP177, abandoned due to access constraints associated with construction work located to the west of the site.

AG also observed a soil stockpile in the southern portion of Lot 811, in the vicinity of proposed sampling points TP170 and TP178. This stockpile was not assessed, due to access constraints associated with construction work to the west of the site.

A 10L bulk soil sample was collected for every one metre of inferred fill material (or part thereof) encountered at each sampling point.

Each bulk soil sample was screened for the presence of potential asbestos containing materials (ACM) greater than 7mm in size. Potential ACM greater than 7mm was weighed and placed in separate laboratory supplied zip lock bags.

Sub samples (500mL) of the bulk samples were also collected and placed in separate laboratory supplied zip lock bags.

The bags were labelled with the project number, sample identifier and date samples were collected on.

Each test pit was backfilled with excavated soils at the completion of the sampling task on each sampling point.

Each sampling point established was marked on a site plan. The locations of these sampling points are presented in **Figure** 4 and **Figure 4b**.

7.2. Site Geology

Observations were made of soils encountered during sampling work. These observations were recorded on test pit logs, which are presented in **Appendix B**.

8. LABORATORY

The samples collected were transported to the analytical laboratory, using chain of custody (COC) protocols. A selection of these samples was scheduled for analysis, with reference to the relevant COPC identified for the AEC that the samples were collected from.

A copy of the analytical laboratory certificates of analysis, is presented in **Appendix C**.

The sample analytical results were tabulated and presented in the attached **Table LAR1**.

9. DATA QUALITY INDICATOR ASSESSMENT

9.1. Completeness

An assessment of the completeness of data collected was undertaken, and the results presented in **Table 9.1**.

Table 9.1 Completeness DQI

Field Considerations	Target	Actual	Comment
Critical locations sampled	186	170	TP168 – TP170 and TP178 – TP184, abandoned due to the presence of an active sewage reticulation system. TP171 – TP172, and TP176 – TP177, abandoned due to access constraints associated with construction work located to the west. Noted that fill material was reported in EIS (2016a), indicating a potential for asbestos containing materials to be present. This data gap should be considered when drawing conclusions regarding the nature and extent of asbestos contamination in soil at the site. Performance against DQI considered acceptable within project constraints.

Critical samples collected	170	172	Noted that critical sample target was reduced from 186 to 170, due to abandoned sampling points (refer previous DQI). Additional samples were collected where fill material encountered extended beyond a depth of 1m below ground surface. Missing critical samples from abandoned sampling points should be considered when drawing conclusions regarding the nature and extent of asbestos contamination in soil at the site. Performance against DQI considered acceptable within project constraints.
SOPs appropriate and complied with	Yes	Yes	Performance against indicator considered acceptable.
Field documentation complete	All sampling point logs, calibration logs and chain of custody forms	All sampling point logs, calibration logs and chain of custody forms	Performance against indicator considered acceptable.
Laboratory Considerations	**Target**	**Actual**	**Comment**
Critical samples analysed according to SAQP	Refer **Section 6.7.7**	100%	Performance against indicator considered acceptable.
Analytes analysed according to SAQP	Refer **Section 6.7.7**	100%	Performance against indicator considered acceptable.
Appropriate laboratory analytical methods and LORs	Refer **Section 6.7.8**	100%	Performance against indicator considered acceptable.
Sample documentation complete	All sample receipt advices, all certificates of analysis	100%	Performance against indicator considered acceptable.
Sample extraction and holding times complied with	Refer **Section 6.7.8**	100%	Performance against indicator considered acceptable.

The data collected is considered to be adequately complete.

9.2. Comparability

An assessment of the comparability of data collected was undertaken, and the results presented in **Table 9.2**.

Table 9.2 Comparability DQI

Field Considerations	Target	Actual	Comment
Same SOPs used on each occasion	100%	100%	Performance against indicator considered acceptable.
Climatic conditions	Not applicable for asbestos samples	-	-
Same types of samples collected, and handled/preserved in same manner	All soil samples same size	100%	Performance against indicator considered acceptable.
Laboratory Considerations	**Target**	**Actual**	**Comment**
Same analytical methods used by primary laboratory	Refer **Section 6.7.8**	100%	Performance against indicator considered acceptable.
Same LORs at primary laboratory	Refer **Section 6.7.8**	100%	Performance against indicator considered acceptable.
Same laboratory for primary sample analysis	All primary samples to SGS Environmental	100%	Noted that majority of samples were sent to SGS Alexandria, with some samples sent to SGS Perth, due to sample quantity and laboratory capacity. Performance against indicator considered acceptable.
Same analytical measurement units	Refer **Section 6.7.8**	100%	Performance against indicator considered acceptable.

The data collected is considered to be adequately comparable.

9.3. Representativeness

An assessment of the representativeness of data collected was undertaken, and the results presented in **Table 9.3**.

Table 9.3 Representativeness DQI

Field Considerations	Target	Actual	Comment
Appropriate media sampled according to SAQP	Refer **Section 6.7.2**	100%	Performance against indicator considered acceptable.

Media identified in SAQP sampled	Refer **Section 6.7.2**	100%	Performance against indicator considered acceptable.
Laboratory Considerations	**Target**	**Actual**	**Comment**
Samples analysed according to SAQP	Refer **Section 6.7.7**	100%	Performance against indicator considered acceptable.

The data collected is considered to be adequately representative.

9.4. Precision

An assessment of the precision of data collected was undertaken, and the results presented in **Table 9.4**.

Table 9.4 Precision DQI

Field Considerations	Target	Actual	Comment
Field duplicate / triplicate RPD	Not applicable for asbestos samples.	-	-
SOPs appropriate and complied with	100%	100%	Performance against indicator considered acceptable.
Laboratory Considerations	**Target**	**Actual**	**Comment**
Laboratory duplicates	Not applicable for asbestos samples.	-	-

The data collected is considered to be adequately precise.

9.5. Accuracy

An assessment of the precision of data collected was undertaken, and the results presented in **Table 9.5**.

Table 9.5 Accuracy DQI

Field Considerations	Target	Actual	Comment
Rinsate blanks	Not applicable for asbestos samples.	-	-
Field trip spikes	Not applicable for asbestos samples.	-	-
Field trip blanks	Not applicable for asbestos samples.	-	-
Laboratory Considerations	**Target**	**Actual**	**Comment**
Laboratory method blank	Not applicable for asbestos samples.	-	-
Matrix spike recovery	Not applicable for asbestos samples.	-	-
Surrogate spike recovery	Not applicable for asbestos samples.	-	-
Laboratory control sample recovery	Not applicable for asbestos samples.	-	-

The data collected is considered to be adequately accurate.

10. DISUSSION

10.1. Bonded Asbestos Containing Materials

Fragments of material suspected of containing asbestos, and greater than 7mm in size, were encountered during screening of bulk soil samples collected from AEC01. A total of 9 fragments were submitted for laboratory analysis for the presence of asbestos. Asbestos was identified in each of the samples analysed, with the exception of TP104-0.0-0.3 FCP, which reported no asbestos detected, using trace analysis techniques.

The gravimetric approach set out in Section 4.10 of NEPC (1999a) was used to bonded asbestos containing materials in soil concentrations, including the assumed 15% asbestos by weight in cement bonded asbestos, and an assumed soil density of 1.65kg/L. These assumed values are considered to be adequately conservative within the context of this project. The sample size was 10L, based on guidance in Section 4.10 of NEPC (1999a).

The estimation formula in Section 4.10 of NEPC (1999a) is:

$$\%\ \text{w/w asbestos in soil} = \frac{\%\ \text{asbestos content} \times \text{bonded ACM (kg)}}{\text{soil volume (L)} \times \text{soil density (kg/L)}}$$

The results of the calculations performed using this formula, are presented in **Table** Error! Reference source not found..

Table Error! Reference source not found. **Results of Gravimetric Estimation of Asbestos Concentrations in Soil**

Sample ID	Weight of Bonded ACM (kg)	% w/w Asbestos in Soil[3]
TP015-0.0-0.3 FCP	0.049	0.0445
TP043-0.0-0.5 FCP	0.177	0.1609
TP072-0.0-0.35 FCP	0.0114	0.0104
TP104-0.0-0.3 FCP	Asbestos not detected	Not Applicable
TP116-0.0-0.2 FCP	0.5249	0.4772
TP120-0.0-0.3 FCP	0.0062	0.0056
TP121-0.0-0.4 FCP	0.0827	0.0752
TP129-0.0-0.3 FCP	0.0261	0.0237
TP132-0.0-0.3 FCP	0.0125	0.0114

The estimated concentrations of bonded asbestos in soil were not less than the adopted health screening level of 0.01% w/w, in each of the samples reported on, with the exception of sample TP120-0.0-0.3 FCP. However, the ACM sample was collected from a fill sample that contained visual evidence of demolition waste, and it is possible the ACM sample collected, was originally located in the top 10cm of soil at the sampling point. It is considered reasonable to adopt a conservative approach in this instance and assume that the ACM sample collected exceeds the adopted 'no visible asbestos for surface soil' criterion.

The locations of these exceedances are presented in **Figure 5a** and **Figure 5b**.

10.2. Asbestos Fines and Friable Asbestos

The concentration of friable asbestos and asbestos fines (FA and AF) detected in the relevant soil samples analysed were less than the applicable adopted health screening level, with the following exceptions:

[3] AG notes that the methodology adopted for estimation of asbestos concentration in soil for SP03 to SP11 is sufficiently conservative for providing preliminary advice on the presence of asbestos in the soils assessed.

- TP072-0.0-0.35;
- TP104-0.0-0.3;
- TP116-0.0-0.2;
- TP121-0.0-0.4; and
- TP129-0.0-0.3.

10.3. Asbestos (General)

The asbestos in soil detections reported in EIS (2016a) did not include an assessment of asbestos concentrations against the quantitative HSLs adopted for this project. AG considers it reasonable and adequately conservative to assume that the concentrations of asbestos in soil at the locations where it was detected and reported in EIS (2016a) were at least greater than the adopted bonded ACM HSL.

For the purpose of clarity, the detection of asbestos at sampling point B1 in EIS (2016a), has not been included, as this sample appears to have been collected from a building, rather than from soil.

The locations of the assumed exceedances, reported in EIS (2016b), are presented in **Figure 5a** and **Figure 5b**.

11. CONCLUSIONS AND RECOMMENDATIONS

Based on AG's assessment of the desktop review information, fieldwork data and laboratory analytical data, in the context of the proposed land use setting, AG makes the following conclusions:

- the concentrations of bonded asbestos containing materials detected in the soils at sampling points TP015, TP043, TP072, TP104, TP116, TP120, TP121, TP129, TP132, may present an unacceptable human health exposure risk;
- the concentrations of asbestos fines / friable asbestos detected in the soils at sampling points TP072, TP104, TP116, TP121, TP129, may present an unacceptable human health exposure risk;
- the detection of asbestos in soils at EIS (2016b) sampling points TP4, TP29, SS1, SS2, FJS1, TP57 and TP60, may present an unacceptable human health exposure risk;
- there is a potential for unacceptable asbestos-related human health exposure risks in soils to be present:
    - in the eastern, western and southern curtilage of the residential dwelling located on Lot 811;
    - in the soil stockpile located to the south of the residential dwelling in Lot 811; and
    - across the southern portion of Lot 811 in the vicinity of the sewage reticulation system and associated network of subsurface pipes; and
- the site could be made suitable for the proposed land use setting, subject to further assessment of the identified asbestos in soil data gaps, and the management and/or remediation of unacceptable asbestos-related human health exposure risks in soils on site.

Based on these conclusions, AG makes the following recommendations:

- A remedial action plan (RAP) should be prepared for the site, to address potentially unacceptable asbestos in soil related human health exposure risks at the site;
- the RAP should be prepared by a suitably experience environmental consultant with reference to NSW OEH (2011) and include (but not be limited to) the following:
    - a remedial goal for the site;
    - a strategy for addressing the identified data gaps in Lot 811;
    - an assessment of remedial options available to address the identified asbestos risks. These options may include removal offsite, in-situ containment, ex-situ containment, or a combination of these;
    - the proposed testing to validate the site after remediation;
    - a contingency plan to address unexpected finds or if the selected remedial strategy fails; and
    - a site management plan (for the remediation works).
- Consideration should be given to undertaking delineation assessment works around detected asbestos contamination, should there be a need to obtain further certainty around the nature and extent of remedial works required. The delineation work could be undertaken
    - prior to preparation of the RAP; or
    - following preparation of the RAP, with a RAP addendum issued incorporating the findings of the delineation assessment;
- Prior to demolition of the existing structures on the site, clearance certificates should be obtained from a suitably competent person, following removal of hazardous building materials (if any) from the structures; and
- Records of the lawful transport and disposal of asbestos containing materials and any other wastes removed from site, should be retained.

This report, including its conclusions and recommendations, must be read in conjunction with the limitations presented in **Section 12**.

12. STATEMENT OF LIMITATIONS

The findings presented in this report are based on specific searches of relevant, government historical databases and anecdotal information that were made available during the course of this investigation. To the best of our knowledge, these observations represent a reasonable interpretation of the general condition of the site at the time of report completion.

This report has been prepared solely for the use of the client to whom it is addressed and no other party is entitled to rely on its findings.

No warranties are made as to the information provided in this report. All conclusions and recommendations made in this report are of the professional opinions of personnel involved with the project and while normal checking of the accuracy of data has been conducted, any circumstances outside the scope of this report or which are not made known to personnel and which may impact on those opinions is not the responsibility of Alliance Geotechnical Pty Ltd. Should information become available regarding conditions at the site including previously unknown sources of contamination, AG reserves the right to review the report in the context of the additional information.

This report must be reviewed in its entirety and in conjunction with the objectives, scope and terms applicable to AG's engagement. The report must not be used for any purpose other than the purpose specified at the time AG was engaged to prepare the report.

Logs, figures, and drawings are generated for this report based on individual AG consultant interpretations of nominated data, as well as observations made at the time site walkover/s were completed.

Data and/or information presented in this report must not be redrawn for its inclusion in other reports, plans or documents, nor should that data and/or information be separated from this report in any way.

Should additional information that may impact on the findings of this report be encountered or site conditions change, AG reserves the right to review and amend this report.

13. REFERENCES

Environmental Investigation Services (EIS) 2016a, 'Stage 1 Environmental Site Assessment, for Proposed School, 135, 135A, 145, 155, 165 Tenth and 140, 160, 170 Eleventh Avenue, Austral, NSW', dated 21 April 2016, ref: E27556KrptRev3.

Environmental Investigation Services (EIS) 2016b, 'Remediation Action Plan, for Proposed School, 135, 135A, 145, 155, 165 Tenth and 140, 160, 170 Eleventh Avenue, Austral, NSW', dated 12 May 2016, ref: E27556KDrpt-RAP.

National Environment Protection Council (NEPC) 1999a, 'Schedule B(1) Guideline on Investigation Levels for Soil and Groundwater, National Environment Protection (Assessment of Site Contamination) Measure (NEPM) as amended in May 2013'.

National Environment Protection Council (NEPC) 1999b, 'Schedule B(2) Guideline on Site Characterisation, National Environment Protection (Assessment of Site Contamination) Measure (NEPM) as amended in May 2013'.

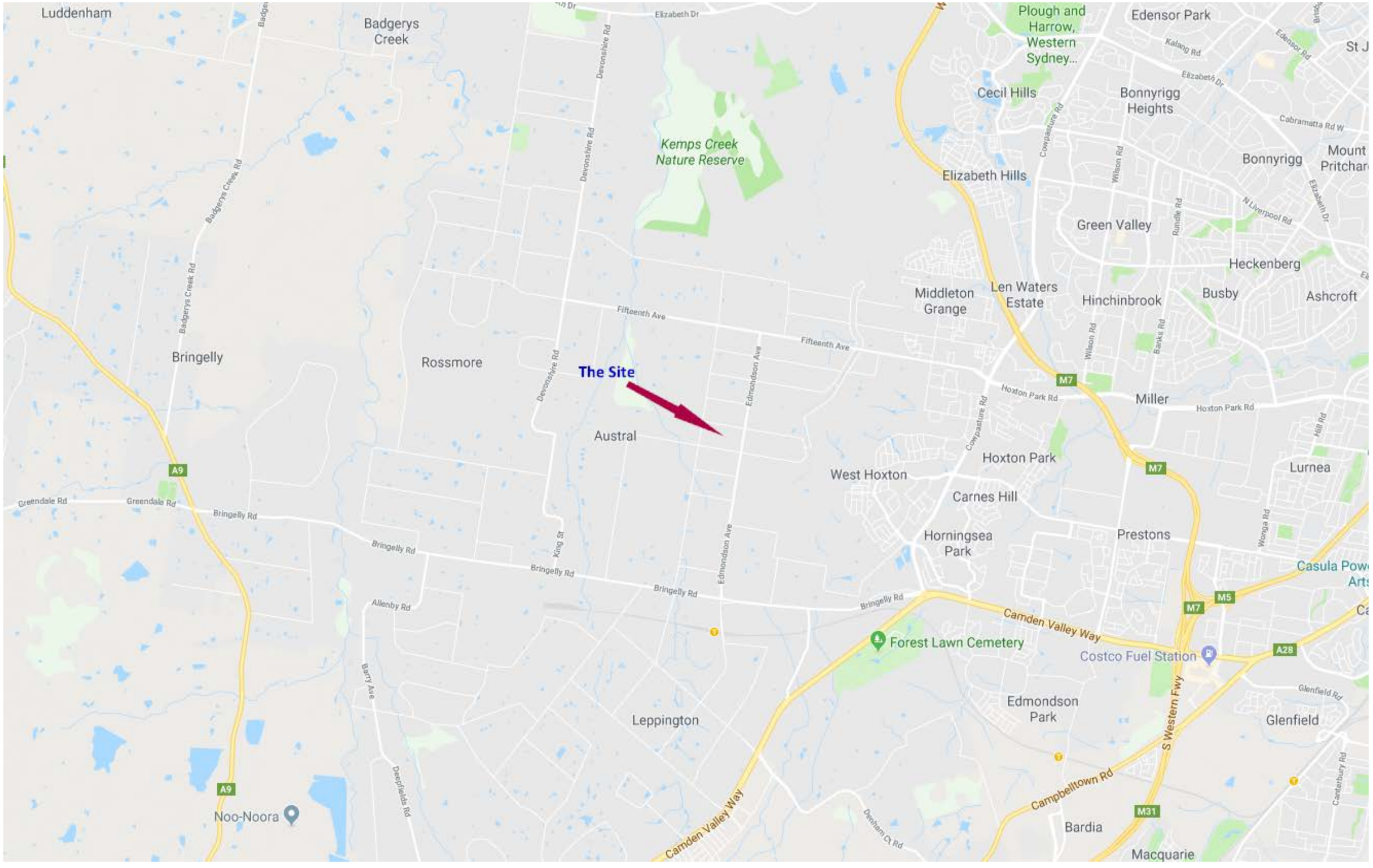
NSW DEC 2006, 'Contaminated Sites: Guidelines for the NSW Site Auditor Scheme (2nd edition)'.

NSW EPA 1995, 'Contaminated Sites: Sampling Design Guidelines'.

NSW OEH 2011, 'Contaminated Sites: Guidelines for Consultants Reporting on Contaminated Sites'.

WA DOH 2009, 'Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia' dated May 2009.

FIGURES



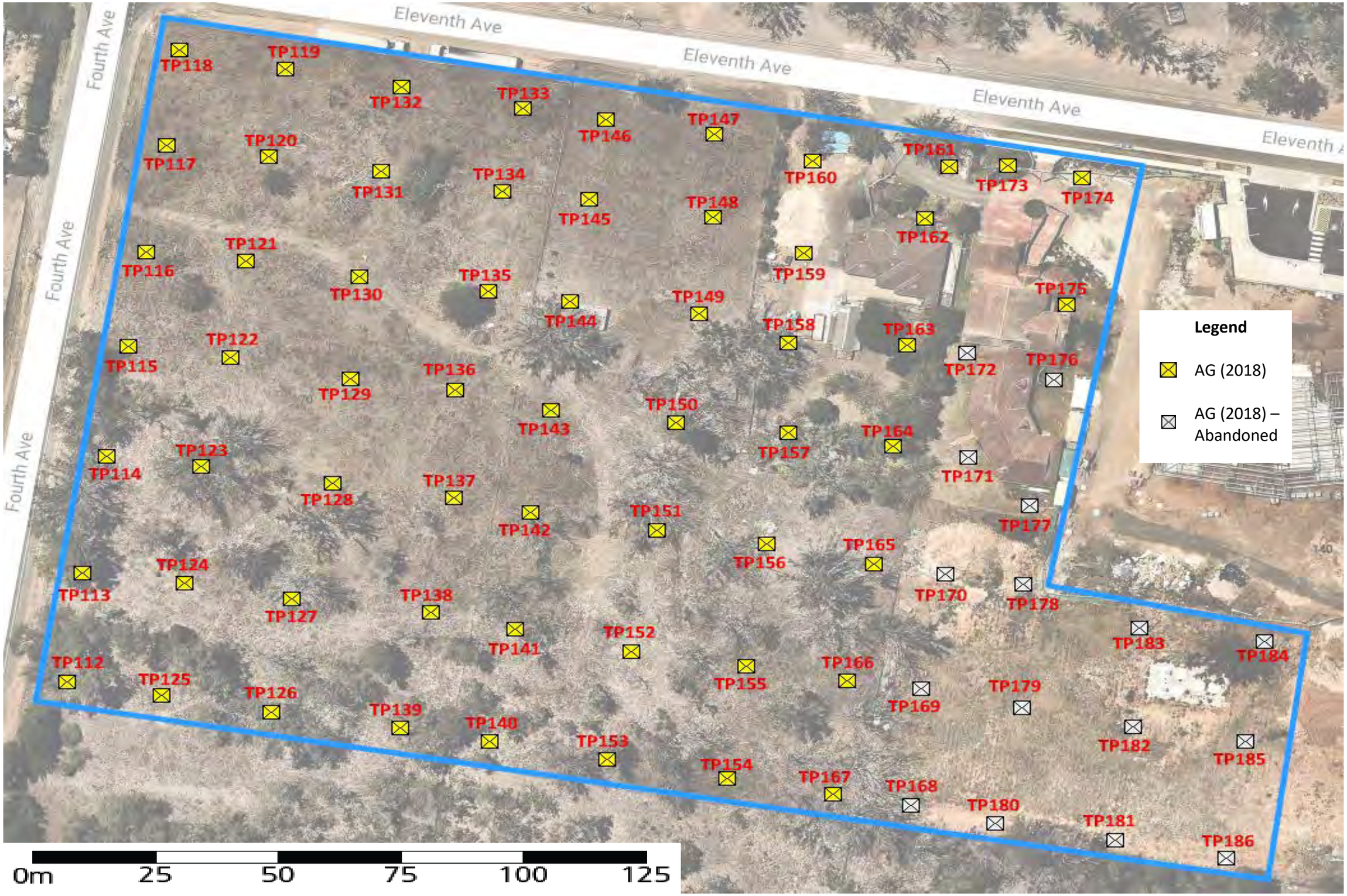
Alliance Geotechnical Pty Ltd ENGINEERING I ENVIRONMENTAL I TESTING **10 Welder Road, Seven Hills, NSW** **T: 1800 288 188 E: enviro@allgeo.com.au**	Project Address: Lot 1 and 2 in DP1232692, Lot 810, portion of Lot 811, Lot 840, Lot 841, and Lot 842 in DP2475 135-165 Tenth Avenue and Portion of 140, 160 and 170 Eleventh Avenue, Austral, NSW	Client: Sydney Catholic Schools	Project Name: Supplementary Asbestos Contamination Assessment	Report No: 6930-ER-1-1 Figure Date: 20 April 2018	N	Figure No: 1	Figure Title: Site Locality Plan



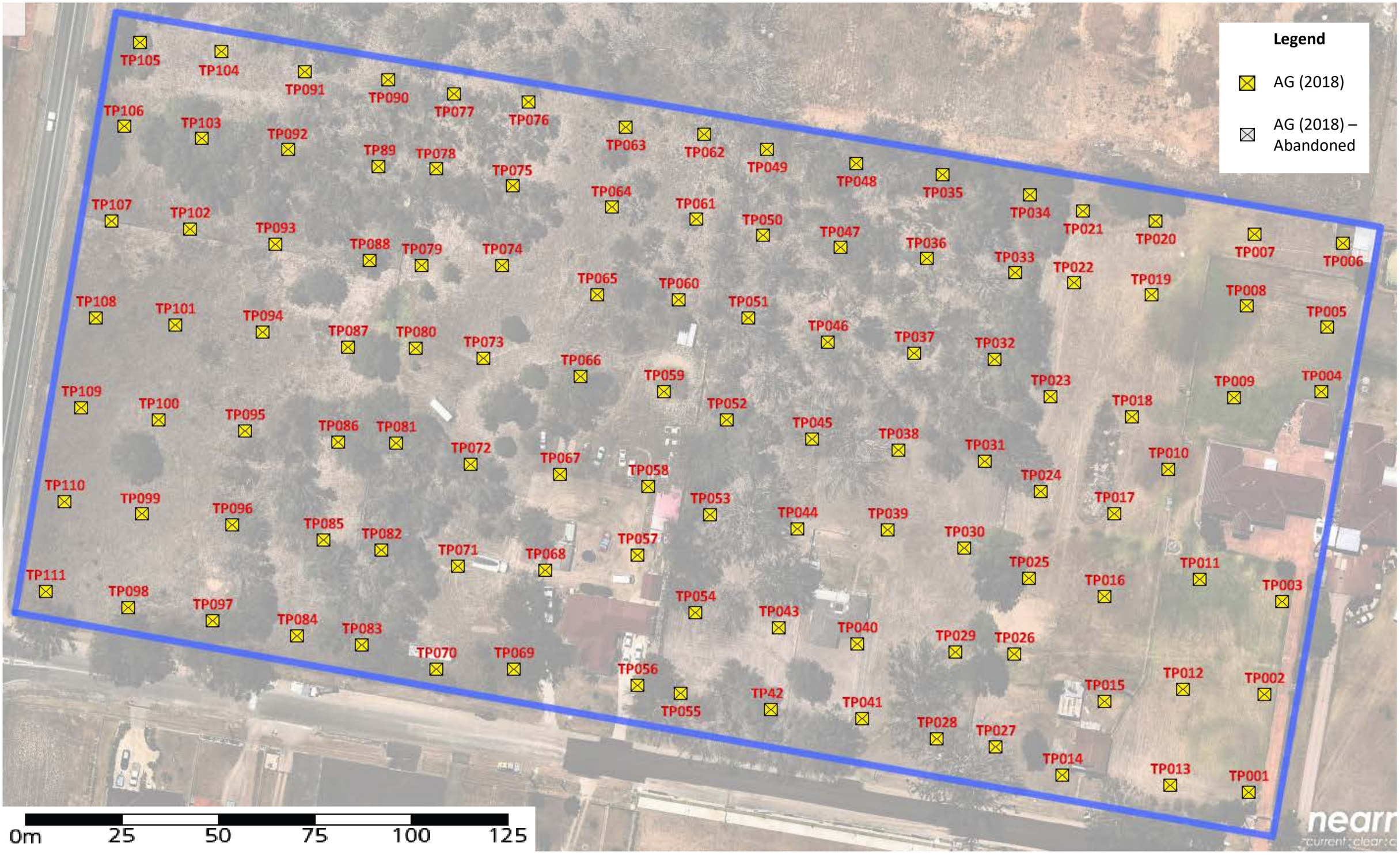
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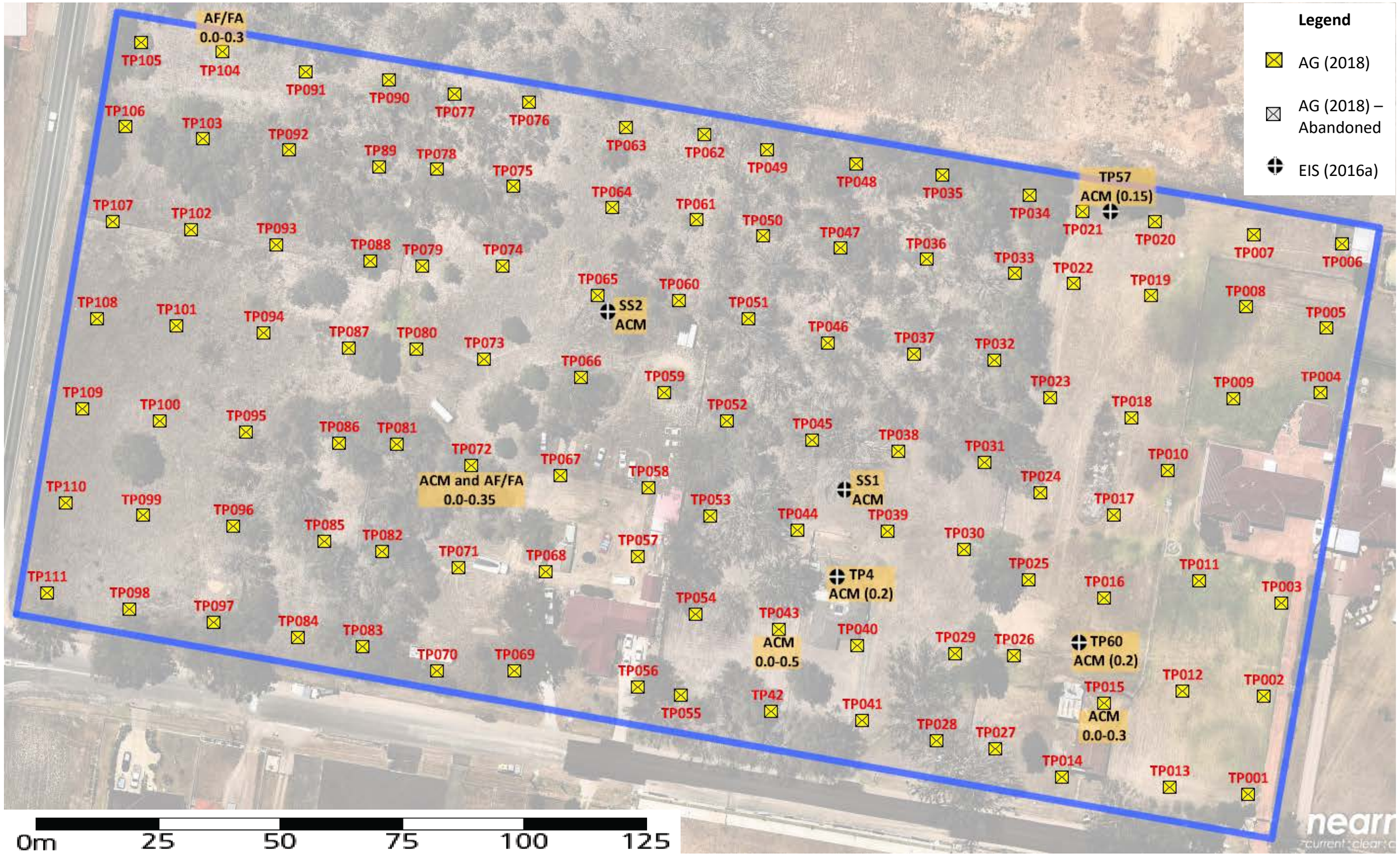
Alliance Geotechnical Pty Ltd ENGINEERING | ENVIRONMENTAL | TESTING 10 Welder Road, Seven Hills, NSW T: 1800 288 188 E: enviro@allgeo.com.au	Project Address: Lot 1 and 2 in DP1232692, Lot 810, portion of Lot 811, Lot 840, Lot 841, and Lot 842 in DP2475 135-165 Tenth Avenue and Portion of 140, 160 and 170 Eleventh Avenue, Austral, NSW	Client: Sydney Catholic Schools	Project Name: Supplementary Asbestos Contamination Assessment	Report No: 6930-ER-1-1 Figure Date: 20 April 2018	N	Figure No: 4a	Figure Title: Site Layout Plan



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TABLES

Alliance Geotechnical Pty Ltd **Report No. 6930-ER-1-1**

Table LAR1 - Laboratory Analytical Results - Soils

Supplementary Contamination Assessment

135-165 Tenth Avenue and Portion of 140, 160 and 170 Eleventh Avenue, Austral, NSW

Analyte Name	Units	Sample Name	SE177465.035	SE177465.066	SE177465.049	SE177465.020	SE177465.007	PE124687.016	SE177465.041
		Description	TP001-0.0-0.6	TP002-0-1.0	TP002-1.0-1.2	TP003-0.0-0.6	TP004-0.0-0.3	TP005-0.0-0.3	TP006-0.0-0.4
		Sample Date	29/3/2018	29/3/2018	29/3/2018	29/3/2018	29/3/2018	29/3/2018	29/3/2018
		Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		Reporting Limit	Result	Result	Result	Result	Result	Result	Result
Total Sample Weight	g	1	**798**	**744**	**714**	**800**	**919**	**453**	**701**
ACM in >7mm Sample	g	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
AF/FA in >2mm to <7mm Sample	g	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
AF/FA in <2mm Sample	g	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Asbestos in soil (>7mm ACM)	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Asbestos in soil (>2mm to <7mm AF/FA)	%w/w	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<2mm AF/FA)	%w/w	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<7mm AF/FA)	%w/w	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Fibre Type	No unit	0	NAD	NAD	NAD	NAD	NAD	NAD, ORG	NAD
Asbestos Detected	No unit	0	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

Alliance Geotechnical Pty Ltd **Report No. 6930-ER-1-1**

Table LAR1 - Laboratory Analytical Results - Soils

Supplementary Contamination Assessment

135-165 Tenth Avenue and Portion of 140, 160 and 170 Eleventh Avenue, Austral, NSW

Analyte Name	Units	SE177465.031	SE177465.067	SE177465.015	SE177465.027	SE177465.021	SE177465.054	SE177465.019	SE177465.024
		TP007-0.0-0.4	TP008-0-0.4	TP009-0.0-0.2	TP010-0.0-0.5	TP011-0.0-1.0	TP011-1.0-1.4	TP012-0.0-1.0	TP013-0.0-0.5
		29/3/2018	29/3/2018	29/3/2018	29/3/2018	29/3/2018	29/3/2018	29/3/2018	29/3/2018
		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		Result	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Total Sample Weight	g	**722**	**720**	**736**	**820**	**735**	**633**	**811**	**748**
ACM in >7mm Sample	g	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
AF/FA in >2mm to <7mm Sample	g	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	**0.0533**	<0.0001
AF/FA in <2mm Sample	g	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Asbestos in soil (>7mm ACM)	%w/w	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Asbestos in soil (>2mm to <7mm AF/FA)	%w/w	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	**0.007**	<0.001
Asbestos in soil (<2mm AF/FA)	%w/w	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<7mm AF/FA)	%w/w	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	**0.007**	<0.001
Fibre Type	No unit	NAD	NAD	NAD	NAD	NAD	NAD	AMO	NAD
Asbestos Detected	No unit	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

Alliance Geotechnical Pty Ltd **Report No. 6930-ER-1-1**

Table LAR1 - Laboratory Analytical Results - Soils

Supplementary Contamination Assessment

135-165 Tenth Avenue and Portion of 140, 160 and 170 Eleventh Avenue, Austral, NSW

Analyte Name	Units	SE177465.022	SE177465.058	SE177465.059	SE177465.056	PE124687.015	SE177465.037	SE177465.046	SE177465.040
		TP014-0.0-0.3	TP015-0.0-0.3	TP015-0.0-0.3 FCP	TP016-0.0-1.0	TP017-0.0-1.0	TP018-0.0-0.5	TP019-0.0-0.4	TP020-0.0-0.4
		29/3/2018	29/3/2018	29/3/2018	29/3/2018	29/3/2018	29/3/2018	29/3/2018	29/3/2018
		Soil	Soil	Material	Soil	Soil	Soil	Soil	Soil
		Result	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Total Sample Weight	g	**845**	**760**	N.A.	**702**	**500**	**748**	**696**	**811**
ACM in >7mm Sample	g	<0.01	<0.01	N.A.	<0.01	<0.01	<0.01	<0.01	<0.01
AF/FA in >2mm to <7mm Sample	g	<0.0001	<0.0001	N.A.	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
AF/FA in <2mm Sample	g	<0.0001	<0.0001	N.A.	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Asbestos in soil (>7mm ACM)	%w/w	<0.01	<0.01	N.A.	<0.01	<0.01	<0.01	<0.01	<0.01
Asbestos in soil (>2mm to <7mm AF/FA)	%w/w	<0.001	<0.001	N.A.	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<2mm AF/FA)	%w/w	<0.001	<0.001	N.A.	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<7mm AF/FA)	%w/w	<0.001	<0.001	N.A.	<0.001	<0.001	<0.001	<0.001	<0.001
Fibre Type	No unit	NAD	NAD	N.A.	NAD	NAD, ORG	NAD	NAD	NAD
Asbestos Detected	No unit	N.A.	N.A.	**Yes**	N.A.	N.A.	N.A.	N.A.	N.A.

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Table LAR1 - Laboratory Analytical Results - Soils

Supplementary Contamination Assessment

135-165 Tenth Avenue and Portion of 140, 160 and 170 Eleventh Avenue, Austral, NSW

Analyte Name	Units	SE177465.029	SE177465.017	SE177465.023	PE124687.001	SE177465.060	SE177465.025	PE124687.002	SE177465.014
		TP021-0.0-0.4	TP022-0.0-0.4	TP023-0.0-0.3	TP024-0.0-0.4	TP025-0.0-0.9	TP026-0.0-0.3	TP027-0.0-0.3	TP028-0.0-0.35
		29/3/2018	29/3/2018	29/3/2018	29/3/2018	29/3/2018	29/3/2018	29/3/2018	29/3/2018
		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		Result	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Total Sample Weight	g	**800**	**784**	**679**	**913**	**815**	**762**	**770**	**670**
ACM in >7mm Sample	g	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
AF/FA in >2mm to <7mm Sample	g	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
AF/FA in <2mm Sample	g	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Asbestos in soil (>7mm ACM)	%w/w	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Asbestos in soil (>2mm to <7mm AF/FA)	%w/w	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<2mm AF/FA)	%w/w	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<7mm AF/FA)	%w/w	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Fibre Type	No unit	NAD	NAD	NAD	NAD, ORG	NAD	NAD	NAD, ORG	NAD
Asbestos Detected	No unit	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

Alliance Geotechnical Pty Ltd **Report No. 6930-ER-1-1**

Table LAR1 - Laboratory Analytical Results - Soils

Supplementary Contamination Assessment

135-165 Tenth Avenue and Portion of 140, 160 and 170 Eleventh Avenue, Austral, NSW

Analyte Name	Units	SE177465.011	SE177465.064	SE177609.035	PE124687.027	PE124687.028	PE124687.033	PE124687.045	PE124687.021
		TP029-0.0-0.4	TP030-0.0-0.3	TP031-0.0-0.25	TP032-0.0-0.3	TP033-0.0-0.35	TP034-0.0-0.4	TP035-0.0-0.4	TP036-0.0-0.3
		29/3/2018	29/3/2018	3/4/2018	3/4/2018	3/4/2018	3/4/2018	3/4/2018	3/4/2018
		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		Result	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Total Sample Weight	g	**713**	**655**	**556**	**499**	**426**	**502**	**497**	**702**
ACM in >7mm Sample	g	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
AF/FA in >2mm to <7mm Sample	g	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
AF/FA in <2mm Sample	g	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Asbestos in soil (>7mm ACM)	%w/w	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Asbestos in soil (>2mm to <7mm AF/FA)	%w/w	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<2mm AF/FA)	%w/w	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<7mm AF/FA)	%w/w	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Fibre Type	No unit	NAD	NAD	NAD	NAD, ORG	NAD, ORG	NAD, ORG	NAD, ORG	NAD, ORG
Asbestos Detected	No unit	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

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Table LAR1 - Laboratory Analytical Results - Soils

Supplementary Contamination Assessment

135-165 Tenth Avenue and Portion of 140, 160 and 170 Eleventh Avenue, Austral, NSW

Analyte Name	Units	PE124687.029	SE177609.001	SE177465.048	SE177465.034	SE177465.005	SE177465.039	SE177465.052	SE177465.053
		TP037-0.0-0.3	TP038-0.0-0.25	TP039-0.0-0.2	TP040-0.0-0.4	TP041-0.0-0.7	TP042-0.0-0.3	TP043-0.0-0.5	TP043-0.0-0.5 FCP
		3/4/2018	3/4/2018	29/3/2018	29/3/2018	29/3/2018	29/3/2018	29/3/2018	29/3/2018
		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Material
		Result	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Total Sample Weight	g	**480**	**520**	**682**	**713**	**737**	**772**	**679**	N.A.
ACM in >7mm Sample	g	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	N.A.
AF/FA in >2mm to <7mm Sample	g	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	N.A.
AF/FA in <2mm Sample	g	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	N.A.
Asbestos in soil (>7mm ACM)	%w/w	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	N.A.
Asbestos in soil (>2mm to <7mm AF/FA)	%w/w	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	N.A.
Asbestos in soil (<2mm AF/FA)	%w/w	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	N.A.
Asbestos in soil (<7mm AF/FA)	%w/w	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	N.A.
Fibre Type	No unit	NAD, ORG	NAD	NAD	NAD	NAD	NAD	NAD	N.A.
Asbestos Detected	No unit	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	**Yes**

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Table LAR1 - Laboratory Analytical Results - Soils

Supplementary Contamination Assessment

135-165 Tenth Avenue and Portion of 140, 160 and 170 Eleventh Avenue, Austral, NSW

Analyte Name	Units	PE124687.051	PE124687.022	SE177609.036	SE177609.039	PE124687.043	PE124687.047	SE177609.037	SE177609.032
		TP044-0.0-0.3	TP045-0.0-0.3	TP046-0.0-0.35	TP047-0.0-0.35	TP048-0.0-0.35	TP049-0.0-0.4	TP050-0.0-0.3	TP051-0.0-0.35
		3/4/2018	3/4/2018	3/4/2018	3/4/2018	3/4/2018	3/4/2018	3/4/2018	3/4/2018
		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		Result	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Total Sample Weight	g	**530**	**655**	**463**	**756**	**459**	**536**	**585**	**485**
ACM in >7mm Sample	g	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
AF/FA in >2mm to <7mm Sample	g	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
AF/FA in <2mm Sample	g	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Asbestos in soil (>7mm ACM)	%w/w	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Asbestos in soil (>2mm to <7mm AF/FA)	%w/w	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<2mm AF/FA)	%w/w	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<7mm AF/FA)	%w/w	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Fibre Type	No unit	NAD, ORG	NAD, ORG	NAD	NAD	NAD, ORG	NAD, ORG	NAD	NAD
Asbestos Detected	No unit	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

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Table LAR1 - Laboratory Analytical Results - Soils

Supplementary Contamination Assessment

135-165 Tenth Avenue and Portion of 140, 160 and 170 Eleventh Avenue, Austral, NSW

Analyte Name	Units	PE124687.054	PE124687.050	SE177465.016	SE177465.036	PE124687.025	PE124687.052	SE177609.013	PE124687.020
		TP052-0.0-0.4	TP053-0.0-0.3	TP054-0.0-0.3	TP055-0.0-0.4	TP056-0.0-0.3	TP057-0.0-0.25	TP058-0.0-0.4	TP059-0.0-0.3
		3/4/2018	3/4/2018	29/3/2018	29/3/2018	3/4/2018	3/4/2018	3/4/2018	3/4/2018
		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		Result	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Total Sample Weight	g	**519**	**750**	**694**	**898**	**443**	**728**	**841**	**756**
ACM in >7mm Sample	g	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
AF/FA in >2mm to <7mm Sample	g	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
AF/FA in <2mm Sample	g	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Asbestos in soil (>7mm ACM)	%w/w	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Asbestos in soil (>2mm to <7mm AF/FA)	%w/w	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<2mm AF/FA)	%w/w	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<7mm AF/FA)	%w/w	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Fibre Type	No unit	NAD, ORG	NAD, ORG	NAD	NAD	NAD, ORG, SMF	NAD, ORG	NAD	NAD, ORG
Asbestos Detected	No unit	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

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Table LAR1 - Laboratory Analytical Results - Soils

Supplementary Contamination Assessment

135-165 Tenth Avenue and Portion of 140, 160 and 170 Eleventh Avenue, Austral, NSW

Analyte Name	Units	PE124687.046	PE124687.024	PE124687.037	PE124687.039	PE124687.019	PE124687.040	PE124687.038	PE124687.030
		TP060-0.0-0.3	TP061-0.0-0.3	TP062-0.0-0.25	TP063-0.0-0.3	TP064-0.0-0.2	TP065-0.0-0.3	TP066-0.0-0.35	TP067-0.0-0.25
		3/4/2018	3/4/2018	3/4/2018	3/4/2018	3/4/2018	3/4/2018	3/4/2018	3/4/2018
		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		Result	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Total Sample Weight	g	**497**	**737**	**766**	**666**	**601**	**654**	**700**	**486**
ACM in >7mm Sample	g	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
AF/FA in >2mm to <7mm Sample	g	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
AF/FA in <2mm Sample	g	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Asbestos in soil (>7mm ACM)	%w/w	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Asbestos in soil (>2mm to <7mm AF/FA)	%w/w	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<2mm AF/FA)	%w/w	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<7mm AF/FA)	%w/w	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Fibre Type	No unit	NAD, ORG	NAD, ORG	NAD, ORG	NAD, ORG	NAD, ORG	NAD, ORG	NAD, ORG	NAD, ORG
Asbestos Detected	No unit	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

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Table LAR1 - Laboratory Analytical Results - Soils

Supplementary Contamination Assessment

135-165 Tenth Avenue and Portion of 140, 160 and 170 Eleventh Avenue, Austral, NSW

Analyte Name	Units	SE177609.044	PE124687.053	SE177609.042	PE124687.049	PE124687.042	SE177522.055	PE124687.034	PE124687.031
		TP068-0.0-0.25	TP069-0.0-0.3	TP070-0.0-0.2	TP071-0.0-0.2	TP072-0.0-0.35	TP072-0.0-0.35 FCP	TP073-0.0-0.3	TP074-0.0-0.3
		3/4/2018	3/4/2018	3/4/2018	3/4/2018	3/4/2018	3/4/2018	3/4/2018	3/4/2018
		Soil	Soil	Soil	Soil	Soil	Material	Soil	Soil
		Result	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Total Sample Weight	g	**839**	**656**	**725**	**583**	**731**	N.A.	**698**	**500**
ACM in >7mm Sample	g	<0.01	<0.01	<0.01	<0.01	<0.01	N.A.	<0.01	<0.01
AF/FA in >2mm to <7mm Sample	g	<0.0001	<0.0001	<0.0001	<0.0001	**0.0257**	N.A.	<0.0001	<0.0001
AF/FA in <2mm Sample	g	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	N.A.	<0.0001	<0.0001
Asbestos in soil (>7mm ACM)	%w/w	<0.01	<0.01	<0.01	<0.01	<0.01	N.A.	<0.01	<0.01
Asbestos in soil (>2mm to <7mm AF/FA)	%w/w	<0.001	<0.001	<0.001	<0.001	**0.004**	N.A.	<0.001	<0.001
Asbestos in soil (<2mm AF/FA)	%w/w	<0.001	<0.001	<0.001	<0.001	<0.001	N.A.	<0.001	<0.001
Asbestos in soil (<7mm AF/FA)	%w/w	<0.001	<0.001	<0.001	<0.001	**0.004**	N.A.	<0.001	<0.001
Fibre Type	No unit	NAD	NAD, ORG	NAD	NAD, ORG	CRY, ORG	N.A.	NAD, ORG	NAD, ORG
Asbestos Detected	No unit	N.A.	N.A.	N.A.	N.A.	N.A.	**Yes**	N.A.	N.A.

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Table LAR1 - Laboratory Analytical Results - Soils

Supplementary Contamination Assessment

135-165 Tenth Avenue and Portion of 140, 160 and 170 Eleventh Avenue, Austral, NSW

Analyte Name	Units	SE177609.043	PE124687.023	PE124687.044	PE124687.055	PE124687.048	PE124687.032	PE124687.041	SE177609.016
		TP075-0.0-0.3	TP076-0.0-0.25	TP077-0.0-0.3	TP078-0.0-0.3	TP079-0.0-0.3	TP080-0.0-0.3	TP081-0.0-0.3	TP082-0.0-0.3
		3/4/2018	3/4/2018	3/4/2018	3/4/2018	3/4/2018	3/4/2018	3/4/2018	3/4/2018
		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		Result	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Total Sample Weight	g	**672**	**719**	**440**	**530**	**487**	**508**	**535**	**790**
ACM in >7mm Sample	g	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
AF/FA in >2mm to <7mm Sample	g	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
AF/FA in <2mm Sample	g	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Asbestos in soil (>7mm ACM)	%w/w	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Asbestos in soil (>2mm to <7mm AF/FA)	%w/w	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<2mm AF/FA)	%w/w	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<7mm AF/FA)	%w/w	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Fibre Type	No unit	NAD	NAD, ORG	NAD, ORG	NAD, ORG	NAD, ORG	NAD, ORG	NAD, ORG	NAD
Asbestos Detected	No unit	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

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Table LAR1 - Laboratory Analytical Results - Soils

Supplementary Contamination Assessment

135-165 Tenth Avenue and Portion of 140, 160 and 170 Eleventh Avenue, Austral, NSW

Analyte Name	Units	PE124687.036	SE177609.003	SE177609.033	SE177609.041	SE177609.040	SE177465.038	PE124687.007	SE177465.026
		TP083-0.0-0.35	TP084-0.0-0.3	TP085-0.0-0.2	TP086-0.0-0.2	TP087-0.0-0.2	TP088-0.0-0.3	TP089-0.0-0.3	TP090-0.0-0.3
		3/4/2018	3/4/2018	3/4/2018	3/4/2018	3/4/2018	29/3/2018	29/3/2018	29/3/2018
		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		Result	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Total Sample Weight	g	**615**	**452**	**503**	**800**	**692**	**792**	**763**	**693**
ACM in >7mm Sample	g	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
AF/FA in >2mm to <7mm Sample	g	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
AF/FA in <2mm Sample	g	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Asbestos in soil (>7mm ACM)	%w/w	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Asbestos in soil (>2mm to <7mm AF/FA)	%w/w	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<2mm AF/FA)	%w/w	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<7mm AF/FA)	%w/w	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Fibre Type	No unit	NAD, ORG	NAD	NAD	NAD	NAD	NAD	NAD, ORG	NAD
Asbestos Detected	No unit	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

Alliance Geotechnical Pty Ltd **Report No. 6930-ER-1-1**

Table LAR1 - Laboratory Analytical Results - Soils

Supplementary Contamination Assessment

135-165 Tenth Avenue and Portion of 140, 160 and 170 Eleventh Avenue, Austral, NSW

Analyte Name	Units	SE177465.012	SE177465.068	SE177465.001	SE177609.031	SE177609.026	SE177609.050	PE124687.026	PE124687.018
		TP091-0.0-0.4	TP092-0.0-0.5	TP093-0.0-0.4	TP094-0.0-0.3	TP095-0.0-0.3	TP096-0.0-0.4	TP097-0.0-0.2	TP098-0.0-0.3
		29/3/2018	29/3/2018	29/3/2018	3/4/2018	3/4/2018	3/4/2018	3/4/2018	3/4/2018
		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		Result	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Total Sample Weight	g	**864**	**720**	**824**	**493**	**484**	**508**	**510**	**675**
ACM in >7mm Sample	g	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
AF/FA in >2mm to <7mm Sample	g	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
AF/FA in <2mm Sample	g	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Asbestos in soil (>7mm ACM)	%w/w	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Asbestos in soil (>2mm to <7mm AF/FA)	%w/w	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<2mm AF/FA)	%w/w	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<7mm AF/FA)	%w/w	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Fibre Type	No unit	NAD	NAD	NAD	NAD	NAD	NAD	NAD, ORG	NAD, ORG
Asbestos Detected	No unit	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

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Table LAR1 - Laboratory Analytical Results - Soils

Supplementary Contamination Assessment

135-165 Tenth Avenue and Portion of 140, 160 and 170 Eleventh Avenue, Austral, NSW

Analyte Name	Units	SE177609.008	SE177609.010	SE177609.005	SE177465.055	SE177465.062	PE124687.017	SE177522.020	SE177465.010
		TP099-0.0-0.2	TP100-0.0-0.4	TP101-0.0-0.3	TP102-0.0-0.2	TP103-0.0-0.3	TP104-0.0-0.3	TP104-0.0-0.3 FCP	TP105-0.0-0.2
		3/4/2018	3/4/2018	3/4/2018	29/3/2018	29/3/2018	29/3/2018	29/3/2018	29/3/2018
		Soil	Soil	Soil	Soil	Soil	Soil	Material	Soil
		Result	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Total Sample Weight	g	**435**	**814**	**495**	**826**	**939**	**825**	N.A.	**761**
ACM in >7mm Sample	g	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	N.A.	<0.01
AF/FA in >2mm to <7mm Sample	g	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	**0.0379**	N.A.	<0.0001
AF/FA in <2mm Sample	g	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	N.A.	<0.0001
Asbestos in soil (>7mm ACM)	%w/w	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	N.A.	<0.01
Asbestos in soil (>2mm to <7mm AF/FA)	%w/w	<0.001	<0.001	<0.001	<0.001	<0.001	**0.005**	N.A.	<0.001
Asbestos in soil (<2mm AF/FA)	%w/w	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	N.A.	<0.001
Asbestos in soil (<7mm AF/FA)	%w/w	<0.001	<0.001	<0.001	<0.001	<0.001	**0.005**	N.A.	<0.001
Fibre Type	No unit	NAD	NAD	NAD	NAD	NAD	CRY, ORG	N.A.	NAD
Asbestos Detected	No unit	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	No	N.A.

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Table LAR1 - Laboratory Analytical Results - Soils

Supplementary Contamination Assessment

135-165 Tenth Avenue and Portion of 140, 160 and 170 Eleventh Avenue, Austral, NSW

Analyte Name	Units	SE177465.045	SE177465.003	PE124687.035	SE177609.045	SE177609.009	SE177609.046	SE177465.065	SE177465.057
		TP106-0.0-0.3	TP107-0.0-0.2	TP108-0.0-0.3	TP109-0.0-0.3	TP110-0.0-0.3	TP111-0.0-0.3	TP112-0-0.3	TP113-0.0-0.2
		29/3/2018	29/3/2018	3/4/2018	3/4/2018	3/4/2018	3/4/2018	29/3/2018	29/3/2018
		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		Result	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Total Sample Weight	g	**829**	**984**	**753**	**534**	**413**	**461**	**742**	**831**
ACM in >7mm Sample	g	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
AF/FA in >2mm to <7mm Sample	g	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
AF/FA in <2mm Sample	g	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Asbestos in soil (>7mm ACM)	%w/w	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Asbestos in soil (>2mm to <7mm AF/FA)	%w/w	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<2mm AF/FA)	%w/w	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<7mm AF/FA)	%w/w	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Fibre Type	No unit	NAD	NAD	NAD, ORG	NAD	NAD	NAD	NAD	NAD
Asbestos Detected	No unit	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

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Table LAR1 - Laboratory Analytical Results - Soils

Supplementary Contamination Assessment

135-165 Tenth Avenue and Portion of 140, 160 and 170 Eleventh Avenue, Austral, NSW

Analyte Name	Units	PE124687.005	SE177465.006	PE124687.011	SE177522.013	SE177465.009	PE124687.004	PE124687.012	SE177465.050
		TP114-0.0-0.3	TP115-0.0-0.3	TP116-0.0-0.2	TP116-0.0-0.2 FCP	TP117-0.0-0.2	TP118-0.0-0.15	TP119-0.0-0.2	TP120-0.0-0.3
		29/3/2018	29/3/2018	29/3/2018	29/3/2018	29/3/2018	29/3/2018	29/3/2018	29/3/2018
		Soil	Soil	Soil	Material	Soil	Soil	Soil	Soil
		Result	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Total Sample Weight	g	**656**	**847**	**438**	N.A.	**843**	**647**	**520**	**797**
ACM in >7mm Sample	g	<0.01	<0.01	<0.01	N.A.	<0.01	<0.01	<0.01	<0.01
AF/FA in >2mm to <7mm Sample	g	<0.0001	<0.0001	**0.336**	N.A.	<0.0001	<0.0001	<0.0001	<0.0001
AF/FA in <2mm Sample	g	<0.0001	<0.0001	**0.0160**	N.A.	<0.0001	<0.0001	<0.0001	<0.0001
Asbestos in soil (>7mm ACM)	%w/w	<0.01	<0.01	<0.01	N.A.	<0.01	<0.01	<0.01	<0.01
Asbestos in soil (>2mm to <7mm AF/FA)	%w/w	<0.001	<0.001	**0.077**	N.A.	<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<2mm AF/FA)	%w/w	<0.001	<0.001	**0.004**	N.A.	<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<7mm AF/FA)	%w/w	<0.001	<0.001	**0.080**	N.A.	<0.001	<0.001	<0.001	<0.001
Fibre Type	No unit	NAD, ORG	NAD	CRY, ORG	N.A.	NAD	NAD, ORG	NAD, ORG	NAD
Asbestos Detected	No unit	N.A.	N.A.	N.A.	**Yes**	N.A.	N.A.	N.A.	N.A.

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Table LAR1 - Laboratory Analytical Results - Soils

Supplementary Contamination Assessment

135-165 Tenth Avenue and Portion of 140, 160 and 170 Eleventh Avenue, Austral, NSW

Analyte Name	Units	SE177465.051	PE124687.006	SE177522.007	SE177465.002	SE177465.013	PE124687.003	SE177465.032	PE124687.013
		TP120-0.0-0.3 FCP	TP121-0.0-0.4	TP121-0.0-0.4 FCP	TP122-0.0-0.3	TP123-0.0-0.4	TP124-0.0-0.3	TP125-0.0-0.4	TP126-0.0-0.6
		29/3/2018	29/3/2018	29/3/2018	29/3/2018	29/3/2018	29/3/2018	29/3/2018	29/3/2018
		Material	Soil	Material	Soil	Soil	Soil	Soil	Soil
		Result	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Total Sample Weight	g	N.A.	**787**	N.A.	**767**	**778**	**832**	**785**	**444**
ACM in >7mm Sample	g	N.A.	<0.01	N.A.	<0.01	<0.01	<0.01	<0.01	<0.01
AF/FA in >2mm to <7mm Sample	g	N.A.	**0.107**	N.A.	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
AF/FA in <2mm Sample	g	N.A.	**0.0180**	N.A.	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Asbestos in soil (>7mm ACM)	%w/w	N.A.	<0.01	N.A.	<0.01	<0.01	<0.01	<0.01	<0.01
Asbestos in soil (>2mm to <7mm AF/FA)	%w/w	N.A.	**0.014**	N.A.	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<2mm AF/FA)	%w/w	N.A.	**0.002**	N.A.	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<7mm AF/FA)	%w/w	N.A.	**0.016**	N.A.	<0.001	<0.001	<0.001	<0.001	<0.001
Fibre Type	No unit	N.A.	CRY, ORG	N.A.	NAD	NAD	NAD, ORG	NAD	NAD, ORG
Asbestos Detected	No unit	**Yes**	N.A.	**Yes**	N.A.	N.A.	N.A.	N.A.	N.A.

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Table LAR1 - Laboratory Analytical Results - Soils

Supplementary Contamination Assessment

135-165 Tenth Avenue and Portion of 140, 160 and 170 Eleventh Avenue, Austral, NSW

Analyte Name	Units	SE177465.004	PE124687.009	SE177465.042	SE177465.043	SE177465.047	SE177465.030	SE177465.070	SE177465.069
		TP127-0.0-0.3	TP128-0.0-0.3	TP129-0.0-0.3	TP129-0.0-0.3 FCP	TP130-0.0-0.3	TP131-0.0-0.3	TP132-0.0-0.3 FCP	TP132-0-0.3
		29/3/2018	29/3/2018	29/3/2018	29/3/2018	29/3/2018	29/3/2018	29/3/2018	29/3/2018
		Soil	Soil	Soil	Material	Soil	Soil	Material	Soil
		Result	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Total Sample Weight	g	**748**	**463**	**783**	N.A.	**705**	**730**	N.A.	**704**
ACM in >7mm Sample	g	<0.01	<0.01	<0.01	N.A.	<0.01	<0.01	N.A.	<0.01
AF/FA in >2mm to <7mm Sample	g	<0.0001	<0.0001	**0.0242**	N.A.	<0.0001	<0.0001	N.A.	<0.0001
AF/FA in <2mm Sample	g	<0.0001	<0.0001	<0.0001	N.A.	<0.0001	<0.0001	N.A.	<0.0001
Asbestos in soil (>7mm ACM)	%w/w	<0.01	<0.01	<0.01	N.A.	<0.01	<0.01	N.A.	<0.01
Asbestos in soil (>2mm to <7mm AF/FA)	%w/w	<0.001	<0.001	**0.003**	N.A.	<0.001	<0.001	N.A.	<0.001
Asbestos in soil (<2mm AF/FA)	%w/w	<0.001	<0.001	<0.001	N.A.	<0.001	<0.001	N.A.	<0.001
Asbestos in soil (<7mm AF/FA)	%w/w	<0.001	<0.001	**0.003**	N.A.	<0.001	<0.001	N.A.	<0.001
Fibre Type	No unit	NAD	NAD, ORG	CRY	N.A.	NAD	NAD	N.A.	NAD
Asbestos Detected	No unit	N.A.	N.A.	N.A.	**Yes**	N.A.	N.A.	**Yes**	N.A.

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Table LAR1 - Laboratory Analytical Results - Soils

Supplementary Contamination Assessment

135-165 Tenth Avenue and Portion of 140, 160 and 170 Eleventh Avenue, Austral, NSW

Analyte Name	Units	SE177465.028	SE177465.044	PE124687.010	SE177465.063	SE177465.061	SE177465.033	SE177465.071	SE177609.020
		TP133-0.0-0.3	TP134-0.0-0.3	TP135-0.0-0.3	TP136-0.0-0.3	TP137-0.0-0.3	TP138-0.0-0.4	TP139-0.0-0.3	TP140-0.0-0.3
		29/3/2018	29/3/2018	29/3/2018	29/3/2018	29/3/2018	29/3/2018	29/3/2018	3/4/2018
		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		Result	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Total Sample Weight	g	**668**	**708**	**451**	**843**	**890**	**809**	**636**	**478**
ACM in >7mm Sample	g	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
AF/FA in >2mm to <7mm Sample	g	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
AF/FA in <2mm Sample	g	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Asbestos in soil (>7mm ACM)	%w/w	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Asbestos in soil (>2mm to <7mm AF/FA)	%w/w	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<2mm AF/FA)	%w/w	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<7mm AF/FA)	%w/w	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Fibre Type	No unit	NAD	NAD	NAD, ORG, SMF	NAD	NAD	NAD	NAD	NAD
Asbestos Detected	No unit	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

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Table LAR1 - Laboratory Analytical Results - Soils

Supplementary Contamination Assessment

135-165 Tenth Avenue and Portion of 140, 160 and 170 Eleventh Avenue, Austral, NSW

Analyte Name	Units	SE177609.021	SE177609.027	SE177609.015	SE177465.018	SE177465.072	PE124687.008	PE124687.014	SE177465.008
		TP141-0.0-0.3	TP142-0.0-0.3	TP143-0.0-0.3	TP144-0.0-0.3	TP145-0.0-0.3	TP146-0.0-0.2	TP147-0.0-0.3	TP148-0.0-0.3
		3/4/2018	3/4/2018	3/4/2018	29/3/2018	29/3/2018	29/3/2018	29/3/2018	29/3/2018
		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		Result	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Total Sample Weight	g	**471**	**497**	**673**	**815**	**776**	**790**	**477**	**820**
ACM in >7mm Sample	g	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
AF/FA in >2mm to <7mm Sample	g	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
AF/FA in <2mm Sample	g	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Asbestos in soil (>7mm ACM)	%w/w	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Asbestos in soil (>2mm to <7mm AF/FA)	%w/w	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<2mm AF/FA)	%w/w	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<7mm AF/FA)	%w/w	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Fibre Type	No unit	NAD	NAD	NAD	NAD	NAD	NAD, ORG	NAD, ORG	NAD
Asbestos Detected	No unit	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

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Table LAR1 - Laboratory Analytical Results - Soils

Supplementary Contamination Assessment

135-165 Tenth Avenue and Portion of 140, 160 and 170 Eleventh Avenue, Austral, NSW

Analyte Name	Units	SE177609.014	SE177609.038	SE177609.029	SE177609.034	SE177609.030	SE177609.012	SE177609.017	SE177609.048
		TP149-0.0-0.3	TP150-0.0-0.3	TP151-0.0-0.3	TP152-0.0-0.4	TP153-0.0-0.3	TP154-0.0-0.3	TP155-0.0-0.3	TP156-0.0-0.3
		3/4/2018	3/4/2018	3/4/2018	3/4/2018	3/4/2018	3/4/2018	3/4/2018	3/4/2018
		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		Result	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Total Sample Weight	g	**783**	**578**	**433**	**473**	**481**	**767**	**756**	**783**
ACM in >7mm Sample	g	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
AF/FA in >2mm to <7mm Sample	g	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
AF/FA in <2mm Sample	g	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Asbestos in soil (>7mm ACM)	%w/w	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Asbestos in soil (>2mm to <7mm AF/FA)	%w/w	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<2mm AF/FA)	%w/w	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<7mm AF/FA)	%w/w	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Fibre Type	No unit	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD
Asbestos Detected	No unit	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

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Table LAR1 - Laboratory Analytical Results - Soils

Supplementary Contamination Assessment

135-165 Tenth Avenue and Portion of 140, 160 and 170 Eleventh Avenue, Austral, NSW

Analyte Name	Units	SE177609.047	SE177609.049	SE177609.002	SE177609.004	SE177609.006	SE177609.018	SE177609.022	SE177609.019
		TP157-0.0-0.7	TP158-0.0-0.3	TP159-0.0-0.2	TP160-0.0-0.3	TP161-0.0-0.0-0.3	TP162-0.0-0.3	TP163-0.0-0.3	TP164-0.0-0.3
		3/4/2018	3/4/2018	3/4/2018	3/4/2018	3/4/2018	3/4/2018	3/4/2018	3/4/2018
		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		Result	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Total Sample Weight	g	**486**	**475**	**520**	**509**	**514**	**769**	**522**	**461**
ACM in >7mm Sample	g	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
AF/FA in >2mm to <7mm Sample	g	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
AF/FA in <2mm Sample	g	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Asbestos in soil (>7mm ACM)	%w/w	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Asbestos in soil (>2mm to <7mm AF/FA)	%w/w	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<2mm AF/FA)	%w/w	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<7mm AF/FA)	%w/w	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Fibre Type	No unit	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD
Asbestos Detected	No unit	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

Alliance Geotechnical Pty Ltd **Report No. 6930-ER-1-1**

Table LAR1 - Laboratory Analytical Results - Soils

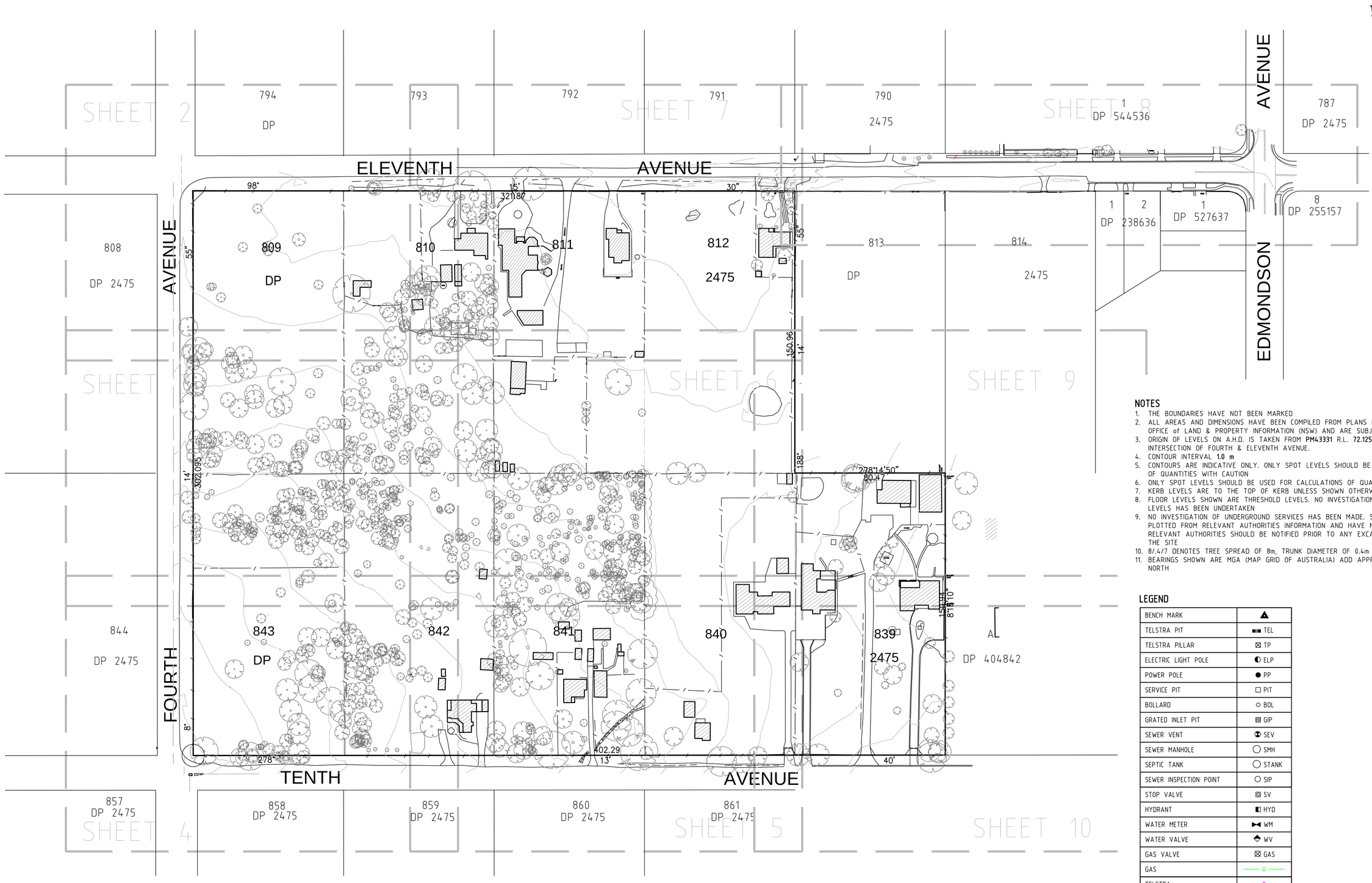
Supplementary Contamination Assessment

135-165 Tenth Avenue and Portion of 140, 160 and 170 Eleventh Avenue, Austral, NSW

Analyte Name	Units	SE177609.011	SE177609.024	SE177609.025	SE177609.007	SE177609.023	SE177609.028
		TP165-0.0-0.3	TP166-0.0-0.2	TP167-0.0-0.2	TP173-0.0-0.2	TP174-0.0-0.2	TP175-0.0-0.4
		3/4/2018	3/4/2018	3/4/2018	3/4/2018	3/4/2018	3/4/2018
		Soil	Soil	Soil	Soil	Soil	Soil
		Result	**Result**	**Result**	**Result**	**Result**	**Result**
Total Sample Weight	g	**810**	**443**	**467**	**483**	**475**	**553**
ACM in >7mm Sample	g	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
AF/FA in >2mm to <7mm Sample	g	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
AF/FA in <2mm Sample	g	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Asbestos in soil (>7mm ACM)	%w/w	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Asbestos in soil (>2mm to <7mm AF/FA)	%w/w	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<2mm AF/FA)	%w/w	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<7mm AF/FA)	%w/w	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Fibre Type	No unit	NAD	NAD	NAD	NAD	NAD	NAD
Asbestos Detected	No unit	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

APPENDIX A

SURVEY



NOTES

1. THE BOUNDARIES HAVE NOT BEEN MARKED
2. ALL AREAS AND DIMENSIONS HAVE BEEN COMPILED FROM PLANS MADE AVAILABLE BY THE OFFICE of LAND & PROPERTY INFORMATION (NSW) AND ARE SUBJECT TO FINAL SURVEY
3. ORIGIN OF LEVELS ON A.H.D. IS TAKEN FROM **PM43331** R.L. **72.125** (A.H.D.) AT THE INTERSECTION OF FOURTH & ELEVENTH AVENUE.
4. CONTOUR INTERVAL **1.0 m**
5. CONTOURS ARE INDICATIVE ONLY. ONLY SPOT LEVELS SHOULD BE USED FOR CALCULATIONS OF QUANTITIES WITH CAUTION
6. ONLY SPOT LEVELS SHOULD BE USED FOR CALCULATIONS OF QUANTITIES WITH CAUTION
7. KERB LEVELS ARE TO THE TOP OF KERB UNLESS SHOWN OTHERWISE
8. FLOOR LEVELS SHOWN ARE THRESHOLD LEVELS. NO INVESTIGATION OF INTERNAL FLOOR LEVELS HAS BEEN UNDERTAKEN
9. NO INVESTIGATION OF UNDERGROUND SERVICES HAS BEEN MADE. SERVICES HAVE BEEN PLOTTED FROM RELEVANT AUTHORITIES INFORMATION AND HAVE NOT BEEN SURVEYED. ALL RELEVANT AUTHORITIES SHOULD BE NOTIFIED PRIOR TO ANY EXCAVATION ON OR NEAR THE SITE
10. 8/4.4/7 DENOTES TREE SPREAD OF 8m, TRUNK DIAMETER OF 0.4m & APPROX HEIGHT OF 7m
11. BEARINGS SHOWN ARE MGA (MAP GRID OF AUSTRALIA) ADD APPROX. 1°00' FOR TRUE NORTH

LEGEND

BENCH MARK	▲
TELSTRA PIT	TEL
TELSTRA PILLAR	TP
ELECTRIC LIGHT POLE	ELP
POWER POLE	PP
SERVICE PIT	PIT
BOLLARD	BOL
GRATED INLET PIT	GIP
SEWER VENT	SEV
SEWER MANHOLE	SMH
SEPTIC TANK	STANK
SEWER INSPECTION POINT	SIP
STOP VALVE	SV
HYDRANT	HYD
WATER METER	WM
WATER VALVE	WV
GAS VALVE	GAS
GAS	G
TELSTRA	T
WATER	W
STORMWATER	SW
DRAIN	
SEWER	S
ELECTRICITY (U'GROUND)	E

DIAL BEFORE YOU DIG www.1100.com.au

REFER TO NOTES AND LEGEND

0 20 40 60 80 100

1:1000

Revision	Date	Description	Reference
-	-	-	-
-	-	-	-
-	-	-	-
E	21/06/17	ADDITIONAL DETAIL & LEVELS ADDED - TENTH AVENUE	41240-011

Revision	Date	Description	Reference
D	17/05/17	ADDITIONAL DETAIL & LEVELS ADDED - ELEVENTH AVENUE & EDMONDSON AVENUE	44694
C	07/07/16	ADDITIONAL DETAIL & LEVELS ADDED	43508
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A	08/12/15	PART OF LOT 812 ADDED TO DETAIL	42606

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Registered Surveyor NSW

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P 1300 587 000
F 02 9499 7760

Client CATHOLIC EDUCATION OFFICE SYDNEY

Drawing title

PLAN OF DETAIL AND LEVELS OVER LOTS 809, 812, 841-843 DP 2475 KNOWN AS No.145-165 TENTH AVENUE AND No.146-170 ELEVENTH AVENUE, AUSTRAL

datum	AHD	project number	41240DT
site Area	6.076ha	scale	1:1000 @A1
LGA	LIVERPOOL	date of survey	17/10/2014

SHEET 1 OF 11 SHEETS

794

793

DP

MGA

TN

APPROX

PM43331
RL72.125

ELEVENTH AVENUE

TENTH AVENUE

FOURTH AVENUE

BITUMEN ROAD

EDGE OF BITUMEN

GIVEWAY LINEMARKING

POST AND WIRE FENCE

98°

55°

GATE

EDGE BANK BASE OF GRASS TOP

808

DP 2475

809

No.170
GRASS
PADDOCK

DP

GRASS

810

GRASS
PADDOCK

METAL SHED

METAL GARAGE

TIMBER SHED

TANK

GRAVEL

VEGETABLE PATCH

IRREGULAR METAL FENCE

RIDGE RL76.24

0 5 10 15 20 25

1:250

SEE SHEET 1 FOR LEGEND AND NOTES

Revision	Date	Description	Reference
-	-	-	-
-	-	-	-
-	-	-	-
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datum	AHD	project number	-
		reference number	41240DT
site Area	6.076ha	scale	1:250 @A1
		date of survey	17/10/2014
LGA	LIVERPOOL	SHEET	2
		OF	11 SHEETS

MGA

TN

APPROX 10°

AVENUE

FOURTH

809
DP

810
2475

843
DP

842
2475

No.163

No.155
GRASS
PADDOCK

GRASS
PADDOCK

BITUMEN
EDGE OF BITUMEN
ROAD
DRAIN
SPOON
GRAVEL/GRASS
LINEMARKING
POST
WIRE
AND
MESH
FENCE
GATE
IRREGULAR
METAL
HIGH
GRASS
BAMBOO
SUMP - 2.00dia
SUMP - 1.0dia
RP
SSM

0 5 10 15 20 25

1:250

SEE SHEET 1 FOR LEGEND AND NOTES

Revision	Date	Description	Reference
-	-	-	-
-	-	-	-
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datum	AHD
site Area	6.076ha
LGA	LIVERPOOL
project number	-
scale	1:250 @A1
reference number	41240DT
date of survey	17/10/2014
SHEET OF SHEETS	3 OF 11

MGA

TN

150 APPROX

844

DP 2475

AVENUE

LINEMARKING

EDGE OF BITUMEN

ROAD

BITUMEN

FENCE

MESH

WIRE

POST

AND

843

DP

GRASS PADDOCK

842

GRASS PADDOCK

No.155

GRASS

2475

METAL SHED

FIBRO GARAGE

SEPTIC

GRASS

GRASS

GRASS

GARDEN

DRIVE

GRAVEL

FOURTH AVENUE

CRE

BDYS

CONC. HEADWALL

CONC.

SIGN

GAS METER

PM43330
RL64.446

278°

402.29

GATE

GRAVEL/GRASS

SPOON

DRAIN

TENTH AVENUE

857
DP 2475

858
DP 2475

859
DP 2475

0 5 10 15 20 25

1:250

SEE SHEET 1 FOR LEGEND AND NOTES

Revision	Date	Description	Reference
-	-	-	-
-	-	-	-
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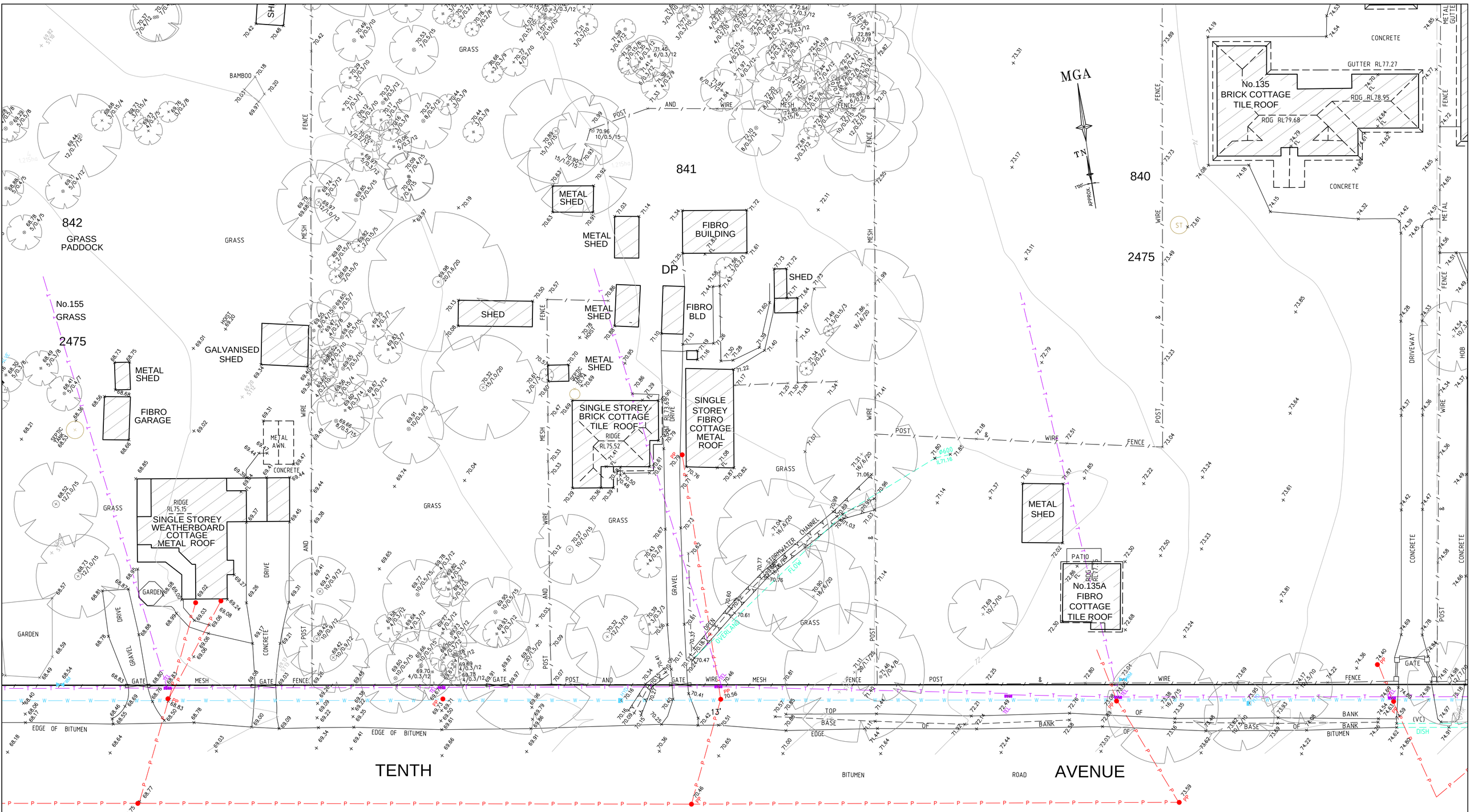
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datum	AHD
site Area	6.076ha
LGA	LIVERPOOL
project number	-
scale	1:250 @A1
reference number	41240DT
date of survey	17/10/2014
SHEET	4
OF	11 SHEETS



0 5 10 15 20 25

1:250

SEE SHEET 1 FOR LEGEND AND NOTES

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-	-	-	-
-	-	-	-
-	-	-	-
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Client CATHOLIC EDUCATION OFFICE SYDNEY

Drawing title

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datum	AHD
site Area	6.076ha
LGA	LIVERPOOL
project number	-
scale	1:250 @A1
reference number	41240DT
date of survey	17/10/2014
SHEET OF	5 OF 11 SHEETS

GRASS
METAL CAGE
VEGETABLE GARDEN
GATE
DOG KENNELS
DOG KENNEL
SHED
POST & WIRE FENCE
GATE
FENCE
RIDGE RL78.00
FLOOR LEVEL RL73.39
METAL GARAGE
GRAVEL
BIRD COOP
METAL SHED
GRASS PADDOCK
WIRE
GRASS
POST
3xSTORAGE CONTAINERS
MESH
FENCE
AND
TREE-DEAD
FOLIAGE
EDGE OF
BIRD COOP
SHED
BANK
BASE OF
MGA
TN
APPROX
DAM
WATER LEVEL
RL72.83
810
2475
811
DP
812
2475
840
2475
842
2475
No.155
GRASS
PADDOCK
841
DP
No.145
GRASS PADDOCK
BAMBOO
BK GARAGE
RL78.77
GUT. RL77.40
METAL GUTTER RL78.00
CONCRETE
GUTTER RL77.27
150.96 &
14'
188'

0 5 10 15 20 25
1:250

SEE SHEET 1 FOR LEGEND AND NOTES

Revision	Date	Description	Reference
-	-	-	-
-	-	-	-
-	-	-	-
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datum	project number	reference number
AHD	-	41240DT
site Area	scale	date of survey
6.076ha	1:250 @A1	17/10/2014
LGA	SHEET	
LIVERPOOL	OF 11 SHEETS	6



SEE SHEET 1 FOR LEGEND AND NOTES

Revision	Date	Description	Reference
-	-	-	-
-	-	-	-
-	-	-	-
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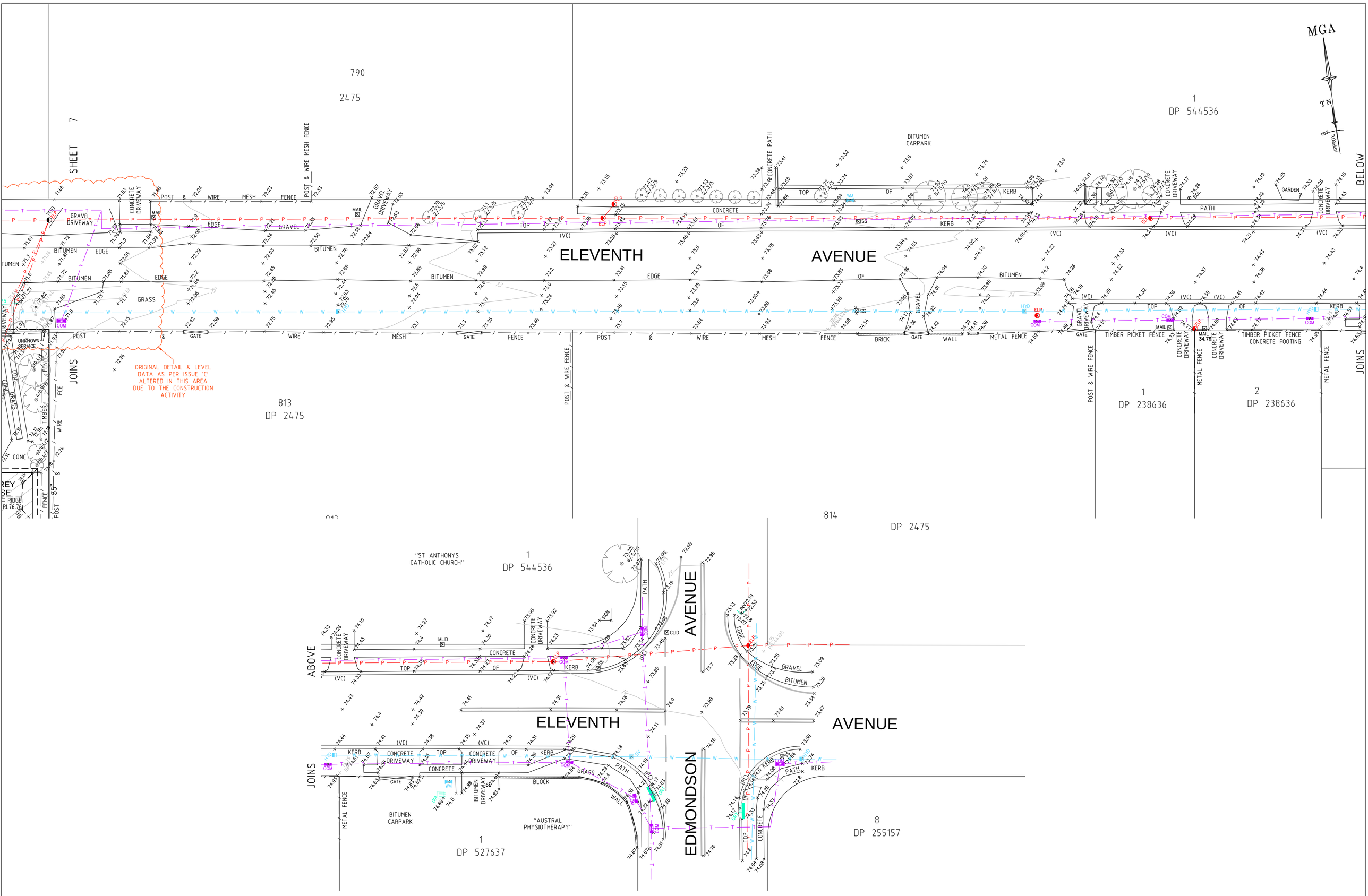
Drawing title
PLAN OF DETAIL AND LEVELS OVER LOTS 809, 812, 841-843 DP 2475 KNOWN AS No.145-165 TENTH AVENUE AND No.146-170 ELEVENTH AVENUE, AUSTRAL

datum AHD
site Area 6.076ha
LGA LIVERPOOL

project number -
scale 1:250 @A1

reference number 41240DT
date of survey 17/10/2014

SHEET 7 OF 11 SHEETS



0 5 10 15 20 25

1:250

SEE SHEET 1 FOR LEGEND AND NOTES

Revision	Date	Description	Reference
-	-	-	-
-	-	-	-
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Client CATHOLIC EDUCATION OFFICE SYDNEY

Drawing title

PLAN OF DETAIL AND LEVELS OVER LOTS 809, 812, 841-843 DP 2475 KNOWN AS No.145-165 TENTH AVENUE AND No.146-170 ELEVENTH AVENUE, AUSTRAL

datum	AHD	project number	-
site Area	6.076ha	scale	1:250 @A1
LGA	LIVERPOOL	reference number	41240DT
		date of survey	17/10/2014
		SHEET	8
		OF	11 SHEETS

MGA

TN

10dec

APPROX.

DAM
WATER LEVEL
RL72.83

BIRD COOP

SHED

BANK

DAM

BASE OF TOP

METAL SHED

RIDGE RL79.95

GUTTER RL79.20

GLASSHOUSE

GRASS

CONCRETE

PAVED

GARDEN

GRAVEL

CONC.

BK. GARAGE

GUT. RL77.40

RIDGE RL78.77

GUTTER RL78.00

RIDGE RL80.000

GUTTER RL77.27

AWNING OVER PAVED PATIO

No.125A
BRICK COTTAGE
TILE ROOF

No.125
BRICK COTTAGE

METAL SHED

RIDGE RL82.25

FENCE

METAL

WIRE

POST

GATE

BLD~BOY (1.99)

BLD~BOY (0.80)

BLD~BOY (3.08)

278°14'50"
60.47

188'

150.96 &

14'

0 5 10 15 20 25

1:250

SEE SHEET 1 FOR LEGEND AND NOTES

Revision	Date	Description	Reference
-	-	-	-
-	-	-	-
-	-	-	-
E	21/06/17	ADDITIONAL DETAIL & LEVELS ADDED - TENTH AVENUE	41240-011

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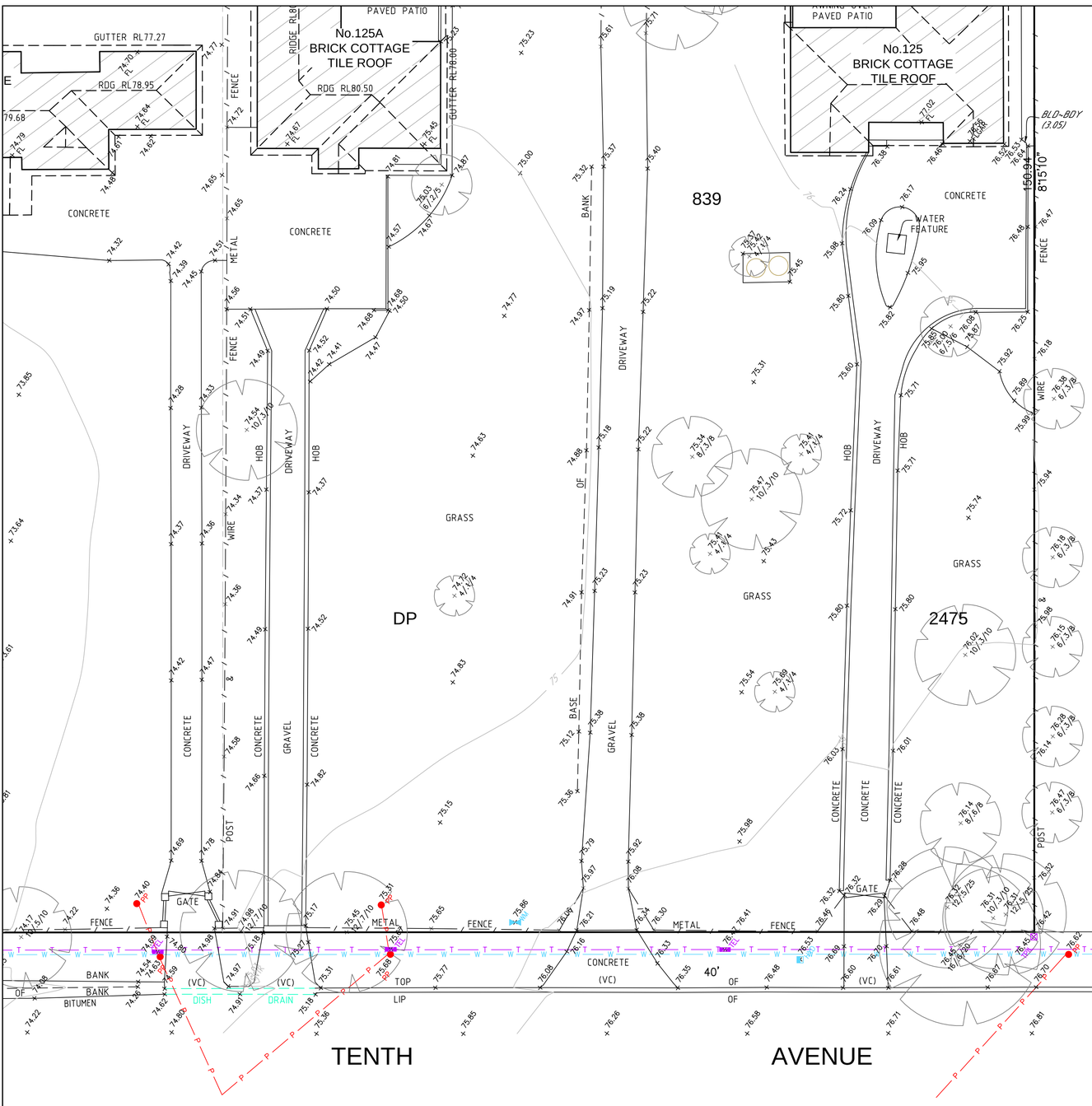
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Registered Surveyors NSW
www.ltsl.com.au

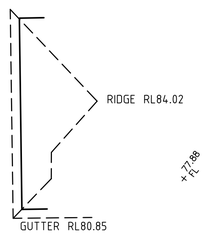
Suite 1, Level 1
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Locked Bag 5
Gordon NSW 2072
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F 02 9499 7760

Client CATHOLIC EDUCATION OFFICE SYDNEY

Drawing title
PLAN OF DETAIL AND LEVELS OVER LOTS 809, 812, 841-843 DP 2475 KNOWN AS No.145-165 TENTH AVENUE AND No.146-170 ELEVENTH AVENUE, AUSTRAL

datum	AHD
site Area	6.076ha
LGA	LIVERPOOL
project number	-
scale	1:250 @A1
reference number	41240DT
date of survey	17/10/2014
SHEET OF SHEETS	11 OF 9





A

DP 404842



0 5 10 15 20 25

1:250

SEE SHEET 1 FOR LEGEND AND NOTES

Revision	Date	Description	Reference
-	-	-	-
-	-	-	-
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E	21/06/17	ADDITIONAL DETAIL & LEVELS ADDED - TENTH AVENUE	41240-011

Revision	Date	Description	Reference
D	17/05/17	ADDITIONAL DETAIL & LEVELS ADDED - ELEVENTH AVENUE & EDMONDSON AVENUE	44694
C	07/07/16	ADDITIONAL DETAIL & LEVELS ADDED	43508
B	16/02/16	ADDITIONAL DETAIL & LEVELS ADDED	42607
A	08/12/15	PART OF LOT 812 ADDED TO DETAIL	42606

THIS IS THE PLAN REFERRED TO IN MY LETTER DATED:

.....

Registered Surveyor NSW

LOCKLEY
Registered Surveyors NSW
www.ltsl.com.au

Suite 1, Level 1
810 Pacific Highway
Gordon NSW 2072
Locked Bag 5
Gordon NSW 2072
P 1300 587 000
F 02 9499 7760

Client CATHOLIC EDUCATION OFFICE SYDNEY

Drawing title

PLAN OF DETAIL AND LEVELS OVER LOTS 809, 812, 841-843 DP 2475 KNOWN AS No.145-165 TENTH AVENUE AND No.146-170 ELEVENTH AVENUE, AUSTRAL

datum	project number	reference number
AHD	-	41240DT
site Area	scale	date of survey
6.076ha	1:250 @A1	17/10/2014
LGA	SHEET	
LIVERPOOL	OF 11 SHEETS	10

APPENDIX B

LOGS

Alliance Geotechnical
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Alliance Geotechnical Pty Ltd
T: 02 9675 1777
F: 02 9675 1888
E: office@allgeo.com.au
W: www.allgeo.com.au

TEST PIT No: TP001
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 29/3/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 29/3/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 2.5T Excavator
Driller:
Northing:
Logged: SS
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR						FILL: Silty CLAY, brown, soft, dry with bricks, terracotta tile and sandstone boulders observed.	0.0-0.6	D	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red, very stiff, dry.		D	No suspected ACM, hydrocarbon odours or staining were observed
						End of Hole at 0.9 m - Target Depth			
			1.0						
			1.5						

BOREHOLE / TEST PIT 6930-ER-1-1-LOGS.GPJ GINT STD AUSTRALIA.GDT 20/4/18

Alliance Geotechnical
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TEST PIT No: TP002
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 29/3/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 29/3/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 2.5T Excavator
Driller:
Northing:
Logged: SS
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR			0.5			FILL: Silty CLAY, dark brown, soft, dry with glass, wood, sandstone boulders, concrete, terracotta tiles, bricks and bitumen boulders observed.	0.0-1.0	D	No suspected ACM, hydrocarbon odours or staining were observed
			1.0				1.0-1.2		
					CL	CLAY, red-brown, stiff, dry.		D	No suspected ACM, hydrocarbon odours or staining were observed
			1.5			End of Hole at 1.5 m - Target Depth			

BOREHOLE / TEST PIT 6930-ER-1-1-LOGS.GPJ GINT STD AUSTRALIA.GDT 20/4/18

Alliance Geotechnical
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TEST PIT No: TP003
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 29/3/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 29/3/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 2.5T Excavator
Driller:
Northing:
Logged: SS
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR			0.5			FILL: Silty CLAY, brown, soft, dry with sandstone boulders, plastics and bricks observed.	0.0-0.6	D	No suspected ACM, hydrocarbon odours or staining were observed
			1.0		CL	CLAY, red-grey, stiff, dry.		D	No suspected ACM, hydrocarbon odours or staining were observed
			1.5			End of Hole at 1.0 m - Refusal			

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TEST PIT No: TP004
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 29/3/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 29/3/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 2.5T Excavator
Driller:
Northing:
Logged: SS
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR						FILL: Silty CLAY, dark brown, soft, moist with ironstone gravels observed.	0.0-0.3	M	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red-grey, stiff, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
						End of Hole at 0.6 m - Target Depth			
			1.0						
			1.5						

BOREHOLE / TEST PIT 6930-ER-1-1-LOGS.GPJ GINT STD AUSTRALIA.GDT 20/4/18

Alliance Geotechnical
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Alliance Geotechnical Pty Ltd
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TEST PIT No: TP005
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 29/3/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 29/3/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 2.5T Excavator
Driller:
Northing:
Logged: SS
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR						FILL: Silty CLAY, brown, soft, moist with sandstone boulders, plastics and bricks observed.	0.0-0.3	M	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red-grey, stiff, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
						End of Hole at 0.6 m - Target Depth			
			1.0						
			1.5						

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TEST PIT No: TP006
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 29/3/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 29/3/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 2.5T Excavator
Driller:
Northing:
Logged: SS
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, dark brown, soft, moist.	0.0-0.4	M	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red-grey, stiff, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
			1.0			End of Hole at 0.7 m - Target Depth			
			1.5						

BOREHOLE / TEST PIT 6930-ER-1-1-LOGS.GPJ GINT STD AUSTRALIA.GDT 20/4/18

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TEST PIT No: TP007
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 29/3/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 29/3/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 2.5T Excavator
Driller:
Northing:
Logged: SS
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR						FILL: Silty CLAY, dark brown, soft, moist with ironstone gravels observed.	0.0-0.4	M	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red-grey, stiff, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
			1.0			End of Hole at 0.7 m - Target Depth			
			1.5						

BOREHOLE / TEST PIT 6930-ER-1-1-LOGS.GPJ GINT STD AUSTRALIA.GDT 20/4/18

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TEST PIT No: TP008
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 29/3/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 29/3/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 2.5T Excavator
Driller:
Northing:
Logged: SS
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR						FILL: Silty CLAY, dark brown-red, soft, moist with ironstone gravels observed.	0.0-0.4	M	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red-grey, stiff, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
			1.0			End of Hole at 0.7 m - Target Depth			
			1.5						

BOREHOLE / TEST PIT 6930-ER-1-1-LOGS.GPJ GINT STD AUSTRALIA.GDT 20/4/18

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TEST PIT No: TP009
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 29/3/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 29/3/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 2.5T Excavator
Driller:
Northing:
Logged: SS
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR						FILL: Silty CLAY, brown-red, firm, moist.	0.0-0.2	M	No suspected ACM, hydrocarbon odours or staining were observed
					CL	CLAY, red-grey, stiff, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
			0.5			End of Hole at 0.5 m - Target Depth			
			1.0						
			1.5						

BOREHOLE / TEST PIT 6930-ER-1-1-LOGS.GPJ GINT STD AUSTRALIA.GDT 20/4/18

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TEST PIT No: TP010
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 29/3/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 29/3/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 2.5T Excavator
Driller:
Northing:
Logged: SS
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR			0.5			FILL: Silty CLAY, brown, soft, dry with shale and sandstone cobbled observed.	0.0-0.5	D	No suspected ACM, hydrocarbon odours or staining were observed
					CL	CLAY, red-grey, stiff, dry.		D	No suspected ACM, hydrocarbon odours or staining were observed
			1.0			End of Hole at 0.8 m - Target Depth			
			1.5						

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TEST PIT No: TP011
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 29/3/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 29/3/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 2.5T Excavator
Driller:
Northing:
Logged: SS
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR			0.5			FILL: Silty CLAY, brown, soft, dry with sandstone boulders, terracotta tiles, bricks, plastics, concrete and glass observed.	0.0-0.1	D	No suspected ACM, hydrocarbon odours or staining were observed Sandy clay layer at 0.8 - 0.9m.
			1.0			FILL: Silty CLAY, dark brown-black, firm, moist with charcoal and wood observed.	1.0-1.4	M	Sulphidic odour observed.
			1.5		CL	CLAY, orange, stiff, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
						End of Hole at 1.6 m - Target Depth			

BOREHOLE / TEST PIT 6930-ER-1-1-LOGS.GPJ GINT STD AUSTRALIA.GDT 20/4/18

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TEST PIT No: TP012
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 29/3/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 29/3/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 2.5T Excavator
Driller:
Northing:
Logged: SS
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR			0.5			FILL: Silty CLAY, brown, soft, dry with bricks, terracotta tile and sandstone boulders observed.	0.0-1.0	D	No suspected ACM, hydrocarbon odours or staining were observed
			1.0		CL	CLAY, red-brown, very stiff, dry.		D	No suspected ACM, hydrocarbon odours or staining were observed
			1.5			End of Hole at 1.3 m - Target Depth			

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TEST PIT No: TP013
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 29/3/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 29/3/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 2.5T Excavator
Driller:
Northing:
Logged: SS
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR						FILL: Silty CLAY, brown, soft, dry with glass, string and plastic observed.	0.0-0.5	D	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red, stiff, dry.		D	Wires observed. No suspected ACM, hydrocarbon odours or staining were observed
						End of Hole at 0.6 m - Target Depth			
			1.0						
			1.5						

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TEST PIT No: TP014
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 29/3/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 29/3/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 2.5T Excavator
Driller:
Northing:
Logged: SS
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR						FILL: Silty CLAY, brown, soft, dry.	0.0-0.3	D	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red, very stiff, dry.		D	No suspected ACM, hydrocarbon odours or staining were observed
						End of Hole at 0.6 m - Target Depth			
			1.0						
			1.5						

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TEST PIT No: TP015
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 29/3/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 29/3/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 2.5T Excavator
Driller:
Northing:
Logged: SS
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR						FILL: Silty CLAY, brown, soft, dry with bricks, terracotta tile and sandstone boulders observed.	0.0-0.3	D	Suspected ACM fragments observed (49g)
			0.5		CL	CLAY, red, very stiff, dry.		D	No suspected ACM, hydrocarbon odours or staining were observed
						End of Hole at 0.6 m - Target Depth			
			1.0						
			1.5						

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Alliance Geotechnical Pty Ltd
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TEST PIT No: TP016
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 29/3/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 29/3/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 2.5T Excavator
Driller:
Northing:
Logged: SS
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR			0.5			FILL: Silty CLAY, brown, soft, dry with shale cobbles observed.	0.0-1.0	D	No suspected ACM, hydrocarbon odours or staining were observed
			1.0				1.0-1.2		
					CL	CLAY, brown-red, very stiff, dry.		D	No suspected ACM, hydrocarbon odours or staining were observed
			1.5			End of Hole at 1.5 m - Target Depth			

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F: 02 9675 1888
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W: www.allgeo.com.au

TEST PIT No: TP017
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 29/3/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 29/3/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 2.5T Excavator
Driller:
Northing:
Logged: SS
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR			0.5			FILL: Silty CLAY, dark brown, soft, dry with plastic observed.	0.0-1.0	D	No suspected ACM, hydrocarbon odours or staining were observed
			1.0		CL	CLAY, brown-red, very stiff, dry.		D	No suspected ACM, hydrocarbon odours or staining were observed
			1.5			End of Hole at 1.3 m - Target Depth			

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Alliance Geotechnical Pty Ltd
T: 02 9675 1777
F: 02 9675 1888
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W: www.allgeo.com.au

TEST PIT No: TP018
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 29/3/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 29/3/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 2.5T Excavator
Driller:
Northing:
Logged: SS
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR			0.5			FILL: Silty CLAY, dark brown, soft, dry with sandstone boulders, terracotta tile, brick and black shale observed.	0.0-0.5	D	No suspected ACM, hydrocarbon odours or staining were observed
					CL	CLAY, red-grey mottle, very stiff, dry.		D	No suspected ACM, hydrocarbon odours or staining were observed
			1.0			End of Hole at 0.8 m - Target Depth			
			1.5						

BOREHOLE / TEST PIT 6930-ER-1-1-LOGS.GPJ GINT STD AUSTRALIA.GDT 20/4/18

Alliance Geotechnical
Manage the earth, eliminate the risk

Alliance Geotechnical Pty Ltd
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F: 02 9675 1888
E: office@allgeo.com.au
W: www.allgeo.com.au

TEST PIT No: TP019
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 29/3/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 29/3/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 2.5T Excavator
Driller:
Northing:
Logged: SS
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR						FILL: Silty CLAY, dark brown, soft, moist with ironstone gravels observed.	0.0-0.4	M	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red-grey mottle, very stiff, dry.		D	No suspected ACM, hydrocarbon odours or staining were observed
			1.0			End of Hole at 0.7 m - Target Depth			
			1.5						

BOREHOLE / TEST PIT 6930-ER-1-1-LOGS.GPJ GINT STD AUSTRALIA.GDT 20/4/18

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TEST PIT No: TP020
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 29/3/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 29/3/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 2.5T Excavator
Driller:
Northing:
Logged: SS
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR						FILL: Silty CLAY, dark brown, soft, moist with ironstone gravels and plastic sheeting observed.	0.0-0.4	D	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red-grey, stiff, moist.		D	No suspected ACM, hydrocarbon odours or staining were observed
			1.0			End of Hole at 0.7 m - Target Depth			
			1.5						

BOREHOLE / TEST PIT 6930-ER-1-1-LOGS.GPJ GINT STD AUSTRALIA.GDT 20/4/18

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TEST PIT No: TP021
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 29/3/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 29/3/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 2.5T Excavator
Driller:
Northing:
Logged: SS
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, brown, soft, dry with roots observed.	0.0-0.4	D	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red-grey, stiff, moist.		D	No suspected ACM, hydrocarbon odours or staining were observed
			1.0			End of Hole at 0.7 m - Target Depth			
			1.5						

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TEST PIT No: TP022
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 29/3/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 29/3/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 2.5T Excavator
Driller:
Northing:
Logged: SS
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR						FILL: Silty CLAY, dark brown, soft, dry with plastic observed.	0.0-0.4	D	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red-grey mottle, very stiff, dry.		D	No suspected ACM, hydrocarbon odours or staining were observed
			1.0			End of Hole at 0.7 m - Target Depth			
			1.5						

BOREHOLE / TEST PIT 6930-ER-1-1-LOGS.GPJ GINT STD AUSTRALIA.GDT 20/4/18

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TEST PIT No: TP023
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 29/3/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 29/3/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 2.5T Excavator
Driller:
Northing:
Logged: SS
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, brown, soft, dry.	0.0-0.3	D	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red-grey mottle, very stiff, dry.		D	No suspected ACM, hydrocarbon odours or staining were observed
			1.0			End of Hole at 0.7 m - Target Depth			
			1.5						

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TEST PIT No: TP024
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 29/3/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 29/3/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 2.5T Excavator
Driller:
Northing:
Logged: SS
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	CLAY, brown, soft, dry with some silt observed.	0.0-0.4	D	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red-brown, stiff, dry with tree root observed at 0.6m.		D	No suspected ACM, hydrocarbon odours or staining were observed
			1.0			End of Hole at 0.7 m - Target Depth			
			1.5						

BOREHOLE / TEST PIT 6930-ER-1-1-LOGS.GPJ GINT STD AUSTRALIA.GDT 20/4/18

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TEST PIT No: TP025
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 29/3/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 29/3/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 2.5T Excavator
Driller:
Northing:
Logged: SS
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR			0.5		CL-ML	Silty CLAY, brown, soft, dry.	0.0-0.9	D	No suspected ACM, hydrocarbon odours or staining were observed
			1.0		CL	CLAY, red-grey, very stiff, dry.		D	No suspected ACM, hydrocarbon odours or staining were observed
			1.5			End of Hole at 1.2 m - Target Depth			

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TEST PIT No: TP026
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 29/3/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 29/3/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 2.5T Excavator
Driller:
Northing:
Logged: SS
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR						FILL: Silty CLAY, dark brown, soft, dry.	0.0-0.3	D	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red-brown, very stiff, dry.		D	No suspected ACM, hydrocarbon odours or staining were observed
						End of Hole at 0.6 m - Target Depth			
			1.0						
			1.5						

BOREHOLE / TEST PIT 6930-ER-1-1-LOGS.GPJ GINT STD AUSTRALIA.GDT 20/4/18

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TEST PIT No: TP027
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 29/3/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 29/3/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 2.5T Excavator
Driller:
Northing:
Logged: SS
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR						FILL: Silty CLAY, brown, soft, dry.	0.0-0.3	D	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red, stiff, dry.		D	No suspected ACM, hydrocarbon odours or staining were observed
						End of Hole at 0.6 m - Target Depth			
			1.0						
			1.5						

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TEST PIT No: TP028
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 29/3/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 29/3/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 2.5T Excavator
Driller:
Northing:
Logged: SS
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR						FILL: Silty CLAY, brown, soft-firm, dry.	0.0-0.35	D	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red, very stiff, dry with tree root observed at 0.5m.		D	No suspected ACM, hydrocarbon odours or staining were observed
			1.0			End of Hole at 0.6 m - Target Depth			
			1.5						

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TEST PIT No: TP029
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 29/3/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 29/3/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 2.5T Excavator
Driller:
Northing:
Logged: SS
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR						FILL: Silty CLAY, dark brown, firm, moist.	0.0-0.4	M	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, orange-grey, stiff, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
						End of Hole at 0.7 m - Target Depth			
			1.0						
			1.5						

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TEST PIT No: TP030
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 29/3/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 29/3/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 2.5T Excavator
Driller:
Northing:
Logged: SS
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR						FILL: Silty CLAY, brown, soft, dry with tree root observed at 0.15m.	0.0-0.3	D	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red, very stiff, dry.		D	No suspected ACM, hydrocarbon odours or staining were observed
						End of Hole at 0.6 m - Target Depth			
			1.0						
			1.5						

BOREHOLE / TEST PIT 6930-ER-1-1-LOGS.GPJ GINT STD AUSTRALIA.GDT 20/4/18

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TEST PIT No: TP031
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 2.5T Excavator
Driller:
Northing:
Logged: SS
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, brown, soft, dry.	0.0-0.25	D	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	Shaley CLAY, grey-orange, stiff, dry.		D	No suspected ACM, hydrocarbon odours or staining were observed
						End of Hole at 0.6 m - Target Depth			
			1.0						
			1.5						

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TEST PIT No: TP032
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 2.5T Excavator
Driller:
Northing:
Logged: SS
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, brown, soft, dry.	0.0-0.3	D	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red-grey mottle, stiff, dry.		D	No suspected ACM, hydrocarbon odours or staining were observed
						End of Hole at 0.6 m - Target Depth			
			1.0						
			1.5						

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TEST PIT No: TP033
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 2.5T Excavator
Driller:
Northing:
Logged: SS
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, dark brown, soft, dry with tree roots observed.	0.0-0.35	D	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red-brown, very stiff, dry with tree roots observed.		D	No suspected ACM, hydrocarbon odours or staining were observed
			1.0			End of Hole at 0.7 m - Target Depth			
			1.5						

BOREHOLE / TEST PIT 6930-ER-1-1-LOGS.GPJ GINT STD AUSTRALIA.GDT 20/4/18

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TEST PIT No: TP034
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 2.5T Excavator
Driller:
Northing:
Logged: SS
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, brown, soft, dry with tree roots observed.	0.0-0.4	D	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red-grey, very stiff, dry with tree roots and charcoal observed.		D	No suspected ACM, hydrocarbon odours or staining were observed
			1.0			End of Hole at 0.7 m - Target Depth			
			1.5						

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TEST PIT No: TP035
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 2.5T Excavator
Driller:
Northing:
Logged: SS
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, brown, soft, dry.	0.0-0.4	D	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red-grey, stiff, dry with orange shale observed.		D	No suspected ACM, hydrocarbon odours or staining were observed
			1.0			End of Hole at 0.7 m - Target Depth			
			1.5						

BOREHOLE / TEST PIT 6930-ER-1-1-LOGS.GPJ GINT STD AUSTRALIA.GDT 20/4/18

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TEST PIT No: TP036
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 2.5T Excavator
Driller:
Northing:
Logged: SS
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, brown, soft, dry.	0.0-0.3	D	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	Shaley CLAY, grey-orange, stiff, dry.		D	No suspected ACM, hydrocarbon odours or staining were observed
						End of Hole at 0.6 m - Target Depth			
			1.0						
			1.5						

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TEST PIT No: TP037
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 2.5T Excavator
Driller:
Northing:
Logged: SS
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, brown, soft, dry.	0.0-0.3	D	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red-grey mottle, stiff, dry.		D	No suspected ACM, hydrocarbon odours or staining were observed
						End of Hole at 0.6 m - Target Depth			
			1.0						
			1.5						

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TEST PIT No: TP038
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 2.5T Excavator
Driller:
Northing:
Logged: SS
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, brown, soft, dry.	0.0-0.3	D	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red-grey mottle, stiff, dry.		D	No suspected ACM, hydrocarbon odours or staining were observed
						End of Hole at 0.6 m - Target Depth			
			1.0						
			1.5						

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TEST PIT No: TP039
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 29/3/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 29/3/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 2.5T Excavator
Driller:
Northing:
Logged: SS
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR						FILL: Silty CLAY, dark brown, soft, moist.	0.0-0.2	M	No suspected ACM, hydrocarbon odours or staining were observed
					CL	CLAY, red, stiff, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
			0.5			End of Hole at 0.5 m - Target Depth			
			1.0						
			1.5						

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TEST PIT No: TP040
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 29/3/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 29/3/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 2.5T Excavator
Driller:
Northing:
Logged: SS
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR						FILL: Silty CLAY, brown, soft-firm, dry.	0.0-0.4	D	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, orange, very stiff, dry.		D	No suspected ACM, hydrocarbon odours or staining were observed
			1.0			End of Hole at 0.7 m - Target Depth			
			1.5						

BOREHOLE / TEST PIT 6930-ER-1-1-LOGS.GPJ GINT STD AUSTRALIA.GDT 20/4/18

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TEST PIT No: TP041
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 29/3/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 29/3/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 2.5T Excavator
Driller:
Northing:
Logged: SS
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR			0.5			FILL: Silty CLAY, brown, soft, dry with tree root observed at 0.3m.	0.0-0.7	D	No suspected ACM, hydrocarbon odours or staining were observed
			1.0		CL	CLAY, red-brown, stiff, dry.		D	No suspected ACM, hydrocarbon odours or staining were observed
			1.5			End of Hole at 1.0 m - Target Depth			

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TEST PIT No: TP042
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 29/3/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 29/3/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 2.5T Excavator
Driller:
Northing:
Logged: SS
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR						FILL: Silty CLAY, brown, soft, dry.	0.0-0.3	D	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, brown-orange, very stiff, dry.		D	No suspected ACM, hydrocarbon odours or staining were observed
						End of Hole at 0.6 m - Target Depth			
			1.0						
			1.5						

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TEST PIT No: TP043
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 29/3/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 29/3/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 2.5T Excavator
Driller:
Northing:
Logged: SS
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR						FILL: Silty CLAY, brown, soft, dry with steel fragments observed.	0.0-0.5	D	Suspected ACM fragments observed (177g)
			0.5		CL	CLAY, red, stiff, dry.		D	No suspected ACM, hydrocarbon odours or staining were observed
						End of Hole at 0.7 m - Target Depth			
			1.0						
			1.5						

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TEST PIT No: TP044
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 2.5T Excavator
Driller:
Northing:
Logged: SS
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR						FILL: Silty CLAY, brown, soft, dry.	0.0-0.3	D	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red-grey mottle, stiff, dry.		D	No suspected ACM, hydrocarbon odours or staining were observed
						End of Hole at 0.6 m - Target Depth			
			1.0						
			1.5						

BOREHOLE / TEST PIT 6930-ER-1-1-LOGS.GPJ GINT STD AUSTRALIA.GDT 20/4/18

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TEST PIT No: TP045
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 2.5T Excavator
Driller:
Northing:
Logged: SS
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, brown, soft, dry.	0.0-0.3	D	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red-grey mottle, stiff, dry.		D	No suspected ACM, hydrocarbon odours or staining were observed
						End of Hole at 0.6 m - Target Depth			
			1.0						
			1.5						

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TEST PIT No: TP046
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 2.5T Excavator
Driller:
Northing:
Logged: SS
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, brown, soft, dry with tree roots observed at 0.1-0.2m.	0.0-0.35	D	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red-grey mottle, stiff, dry with tree roots observed at 0.5m.		D	No suspected ACM, hydrocarbon odours or staining were observed
			1.0			End of Hole at 0.7 m - Target Depth			
			1.5						

BOREHOLE / TEST PIT 6930-ER-1-1-LOGS.GPJ GINT STD AUSTRALIA.GDT 20/4/18

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TEST PIT No: TP047
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 2.5T Excavator
Driller:
Northing:
Logged: SS
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, brown, soft, dry.	0.0-0.35	D	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red-grey mottle, stiff, dry.		D	No suspected ACM, hydrocarbon odours or staining were observed
						End of Hole at 0.6 m - Target Depth			
			1.0						
			1.5						

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TEST PIT No: TP048
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 2.5T Excavator
Driller:
Northing:
Logged: SS
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, brown, soft, dry.	0.0-0.35	D	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red-brown, stiff, dry.		D	No suspected ACM, hydrocarbon odours or staining were observed
					CL	Grey-orange.		D	
			1.0			End of Hole at 0.7 m - Target Depth			
			1.5						

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Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 2.5T Excavator
Driller:
Northing:
Logged: SS
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, brown, soft, dry.	0.0-0.4	D	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red-grey mottle, stiff, dry.		D	No suspected ACM, hydrocarbon odours or staining were observed
					CL	Grey-orange.		D	No suspected ACM, hydrocarbon odours or staining were observed
			1.0			End of Hole at 0.7 m - Target Depth			
			1.5						

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TEST PIT No: TP050
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Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 2.5T Excavator
Driller:
Northing:
Logged: SS
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, brown, soft, dry.	0.0-0.3	D	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red-grey mottle, stiff, dry.		D	No suspected ACM, hydrocarbon odours or staining were observed
						End of Hole at 0.6 m - Target Depth			
			1.0						
			1.5						

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TEST PIT No: TP051
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 2.5T Excavator
Driller:
Northing:
Logged: SS
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, brown, soft, dry.	0.0-0.35	D	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red-grey mottle, stiff, dry.		D	No suspected ACM, hydrocarbon odours or staining were observed
			1.0			End of Hole at 0.7 m - Target Depth			
			1.5						

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TEST PIT No: TP052
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 2.5T Excavator
Driller:
Northing:
Logged: SS
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, brown, soft, dry with tree root observed at 0.2m.	0.0-0.4	D	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red, stiff, dry.		D	No suspected ACM, hydrocarbon odours or staining were observed
			1.0			End of Hole at 0.7 m - Target Depth			
			1.5						

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TEST PIT No: TP053
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 2.5T Excavator
Driller:
Northing:
Logged: SS
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, brown, soft, dry.	0.0-0.3	D	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red-grey mottle, stiff, dry.		D	No suspected ACM, hydrocarbon odours or staining were observed
						End of Hole at 0.6 m - Target Depth			
			1.0						
			1.5						

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TEST PIT No: TP054
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 2.5T Excavator
Driller:
Northing:
Logged: SS
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, brown, soft, dry.	0.0-0.3	D	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red-brown, stiff, dry with shale observed.		D	No suspected ACM, hydrocarbon odours or staining were observed
			1.0			End of Hole at 1.0 m - Target Depth			
			1.5						

BOREHOLE / TEST PIT 6930-ER-1-1-LOGS.GPJ GINT STD AUSTRALIA.GDT 20/4/18

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TEST PIT No: TP055
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 2.5T Excavator
Driller:
Northing:
Logged: SS
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR						FILL: Silty CLAY, brown, soft, dry.	0.0-0.4	D	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, brown-orange, stiff, dry.		D	No suspected ACM, hydrocarbon odours or staining were observed
			1.0			End of Hole at 0.7 m - Target Depth			
			1.5						

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TEST PIT No: TP056
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 2.5T Excavator
Driller:
Northing:
Logged: SS
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR						FILL: Silty CLAY, brown, soft, dry.	0.0-0.3	D	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red-grey, stiff, dry.		D	No suspected ACM, hydrocarbon odours or staining were observed
						End of Hole at 0.6 m - Target Depth			
			1.0						
			1.5						

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TEST PIT No: TP057
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 2.5T Excavator
Driller:
Northing:
Logged: SS
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR						FILL: Silty CLAY, brown, soft, dry.	0.0-0.3	D	No suspected ACM, hydrocarbon odours or staining were observed
					CL	CLAY, red-grey mottle, stiff, dry.		D	No suspected ACM, hydrocarbon odours or staining were observed
			0.5			End of Hole at 0.5 m - Target Depth			
			1.0						
			1.5						

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TEST PIT No: TP058
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 2.5T Excavator
Driller:
Northing:
Logged: SS
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR						FILL: Silty CLAY, brown, soft, dry.	0.0-0.4	D	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red-grey mottle, stiff, dry.		D	No suspected ACM, hydrocarbon odours or staining were observed
			1.0			End of Hole at 0.7 m - Target Depth			
			1.5						

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TEST PIT No: TP059
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 2.5T Excavator
Driller:
Northing:
Logged: SS
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR						FILL: Silty CLAY, brown, soft, dry with tree roots observed at 0.3m.	0.0-0.3	D	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red, stiff, dry.		D	No suspected ACM, hydrocarbon odours or staining were observed
						End of Hole at 0.6 m - Target Depth			
			1.0						
			1.5						

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TEST PIT No: TP060
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 2.5T Excavator
Driller:
Northing:
Logged: SS
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR						FILL: Silty CLAY, brown, soft, dry.	0.0-0.3	D	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red-grey mottle, stiff, dry.		D	No suspected ACM, hydrocarbon odours or staining were observed
			1.0			End of Hole at 0.6 m - Target Depth			
			1.5						

BOREHOLE / TEST PIT 6930-ER-1-1-LOGS.GPJ GINT STD AUSTRALIA.GDT 20/4/18

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TEST PIT No: TP061
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 2.5T Excavator
Driller:
Northing:
Logged: SS
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, brown, soft, dry.	0.0-0.3	D	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red-brown, stiff, dry.		D	No suspected ACM, hydrocarbon odours or staining were observed
						End of Hole at 0.6 m - Target Depth			
			1.0						
			1.5						

BOREHOLE / TEST PIT 6930-ER-1-1-LOGS.GPJ GINT STD AUSTRALIA.GDT 20/4/18

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TEST PIT No: TP062
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 2.5T Excavator
Driller:
Northing:
Logged: SS
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, brown, soft, dry.	0.0-0.3	D	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red-grey mottle, stiff, dry.		D	No suspected ACM, hydrocarbon odours or staining were observed
						End of Hole at 0.6 m - Target Depth			
			1.0						
			1.5						

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TEST PIT No: TP063
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 2.5T Excavator
Driller:
Northing:
Logged: SS
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, brown, soft, dry.	0.0-0.3	D	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red-grey mottle, stiff, dry.		D	No suspected ACM, hydrocarbon odours or staining were observed
						End of Hole at 0.6 m - Target Depth			
			1.0						
			1.5						

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TEST PIT No: TP064
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 2.5T Excavator
Driller:
Northing:
Logged: SS
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, brown, soft, dry with tree roots observed at 0.2m.	0.0-0.2	D	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red-brown, stiff, dry.		D	No suspected ACM, hydrocarbon odours or staining were observed
			1.0			End of Hole at 0.5 m - Target Depth			
			1.5						

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TEST PIT No: TP065
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 2.5T Excavator
Driller:
Northing:
Logged: SS
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, brown, soft, dry.	0.0-0.3	D	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red, very stiff, dry.		D	No suspected ACM, hydrocarbon odours or staining were observed
						End of Hole at 0.6 m - Target Depth			
			1.0						
			1.5						

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TEST PIT No: TP066
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 2.5T Excavator
Driller:
Northing:
Logged: SS
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR						FILL: Silty CLAY, brown, soft, dry with tree toos, bricks and sandstone boulders observed.	0.0-0.4	D	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red-grey mottle, very stiff, dry.		D	No suspected ACM, hydrocarbon odours or staining were observed
			1.0			End of Hole at 0.7 m - Target Depth			
			1.5						

BOREHOLE / TEST PIT 6930-ER-1-1-LOGS.GPJ GINT STD AUSTRALIA.GDT 20/4/18

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TEST PIT No: TP067
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 2.5T Excavator
Driller:
Northing:
Logged: SS
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR						FILL: Silty CLAY, brown, soft, dry with tree roots observed at 0.2m.	0.0-0.3	D	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red-grey mottle, stiff, dry.		D	No suspected ACM, hydrocarbon odours or staining were observed
						End of Hole at 0.5 m - Target Depth			
			1.0						
			1.5						

BOREHOLE / TEST PIT 6930-ER-1-1-LOGS.GPJ GINT STD AUSTRALIA.GDT 20/4/18

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TEST PIT No: TP068
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 2.5T Excavator
Driller:
Northing:
Logged: SS
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR						FILL: Silty CLAY, dark brown, firm, dry.	0.0-0.3	D	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red-grey mottle, very stiff, dry.		D	No suspected ACM, hydrocarbon odours or staining were observed
						End of Hole at 0.6 m - Target Depth			
			1.0						
			1.5						

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TEST PIT No: TP069
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 2.5T Excavator
Driller:
Northing:
Logged: SS
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR						FILL: Silty CLAY, brown, soft, dry with glass, sandstone cobbles and gravels observed.	0.0-0.3	D	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red, very stiff, dry.		D	No suspected ACM, hydrocarbon odours or staining were observed
			1.0			End of Hole at 0.6 m - Target Depth			
			1.5						

BOREHOLE / TEST PIT 6930-ER-1-1-LOGS.GPJ GINT STD AUSTRALIA.GDT 20/4/18

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TEST PIT No: TP070
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 2.5T Excavator
Driller:
Northing:
Logged: SS
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, brown, soft, dry.	0.2	D	No suspected ACM, hydrocarbon odours or staining were observed
					CL	CLAY, orange-red-grey, very stiff, dry.		D	No suspected ACM, hydrocarbon odours or staining were observed
			0.5			End of Hole at 0.5 m - Target Depth			
			1.0						
			1.5						

BOREHOLE / TEST PIT 6930-ER-1-1-LOGS.GPJ GINT STD AUSTRALIA.GDT 20/4/18

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TEST PIT No: TP071
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 2.5T Excavator
Driller:
Northing:
Logged: SS
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, brown, soft, dry.	0.0-0.2	D	No suspected ACM, hydrocarbon odours or staining were observed
					CL	CLAY, red-brown, very stiff, dry.		D	No suspected ACM, hydrocarbon odours or staining were observed
			0.5			End of Hole at 0.5 m - Target Depth			
			1.0						
			1.5						

BOREHOLE / TEST PIT 6930-ER-1-1-LOGS.GPJ GINT STD AUSTRALIA.GDT 20/4/18

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TEST PIT No: TP072
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 2.5T Excavator
Driller:
Northing:
Logged: SS
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, brown, soft, dry.	0.0-0.4	D	Suspected ACM fragments observed (11.4g)
			0.5		CL	CLAY, red-grey mottle, stiff, dry with tree roots observed.		D	No suspected ACM, hydrocarbon odours or staining were observed
			1.0			End of Hole at 0.6 m - Target Depth			
			1.5						

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TEST PIT No: TP073
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 2.5T Excavator
Driller:
Northing:
Logged: SS
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, brown, soft, dry with tree roots observed at 0.2m.	0.0-0.3	D	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red, very stiff, dry.		D	No suspected ACM, hydrocarbon odours or staining were observed
						End of Hole at 0.6 m - Target Depth			
			1.0						
			1.5						

BOREHOLE / TEST PIT 6930-ER-1-1-LOGS.GPJ GINT STD AUSTRALIA.GDT 20/4/18

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TEST PIT No: TP074
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 2.5T Excavator
Driller:
Northing:
Logged: SS
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, brown, soft, dry.	0.0-0.3	D	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red-grey mottle, very stiff, dry.		D	No suspected ACM, hydrocarbon odours or staining were observed
						End of Hole at 0.6 m - Target Depth			
			1.0						
			1.5						

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TEST PIT No: TP075
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 2.5T Excavator
Driller:
Northing:
Logged: SS
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, brown, soft, dry with tree roots observed.	0.0-0.3	D	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red, very stiff, dry.		D	No suspected ACM, hydrocarbon odours or staining were observed
						End of Hole at 0.6 m - Target Depth			
			1.0						
			1.5						

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TEST PIT No: TP076
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 2.5T Excavator
Driller:
Northing:
Logged: SS
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, brown, soft, dry with tree roots observed.	0.0-0.3	D	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red-grey mottle, very stiff, dry.		D	No suspected ACM, hydrocarbon odours or staining were observed
						End of Hole at 0.5 m - Target Depth			
			1.0						
			1.5						

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TEST PIT No: TP077
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 2.5T Excavator
Driller:
Northing:
Logged: SS
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, brown, soft, dry with tree roots observed.	0.0-0.3	D	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red-grey mottle, very stiff, dry.		D	No suspected ACM, hydrocarbon odours or staining were observed
						End of Hole at 0.6 m - Target Depth			
			1.0						
			1.5						

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TEST PIT No: TP078
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 2.5T Excavator
Driller:
Northing:
Logged: SS
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, brown, soft, dry with tree roots observed.	0.0-0.3	D	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red-grey mottle, very stiff, dry.		D	No suspected ACM, hydrocarbon odours or staining were observed
						End of Hole at 0.6 m - Target Depth			
			1.0						
			1.5						

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TEST PIT No: TP079
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 2.5T Excavator
Driller:
Northing:
Logged: SS
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, brown, soft, dry with tree roots observed.	0.0-0.3	D	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red-grey mottle, very stiff, dry.		D	No suspected ACM, hydrocarbon odours or staining were observed
						End of Hole at 0.6 m - Target Depth			
			1.0						
			1.5						

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TEST PIT No: TP080
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 2.5T Excavator
Driller:
Northing:
Logged: SS
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, brown, soft, dry with tree roots observed.	0.0-0.3	D	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red, very stiff, dry.		D	No suspected ACM, hydrocarbon odours or staining were observed
						End of Hole at 0.6 m - Target Depth			
			1.0						
			1.5						

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TEST PIT No: TP081
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 2.5T Excavator
Driller:
Northing:
Logged: SS
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR						FILL: Silty CLAY, dark brown, soft, dry with tile, glass, steel and tree roots observed.	0.0-0.3	D	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, brown-red, stiff, dry with tree roots observed.		D	No suspected ACM, hydrocarbon odours or staining were observed
			1.0			End of Hole at 0.6 m - Target Depth			
			1.5						

BOREHOLE / TEST PIT 6930-ER-1-1-LOGS.GPJ GINT STD AUSTRALIA.GDT 20/4/18

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TEST PIT No: TP082
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 2.5T Excavator
Driller:
Northing:
Logged: SS
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, brown, soft, dry with large tree roots observed.	0.0-0.3	D	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red-grey mottle, very stiff, dry.		D	No suspected ACM, hydrocarbon odours or staining were observed
						End of Hole at 0.6 m - Target Depth			
			1.0						
			1.5						

BOREHOLE / TEST PIT 6930-ER-1-1-LOGS.GPJ GINT STD AUSTRALIA.GDT 20/4/18

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TEST PIT No: TP083
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 2.5T Excavator
Driller:
Northing:
Logged: SS
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, brown, soft, dry with tree roots observed.	0.0-0.4	D	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red-grey, stiff, dry.		D	No suspected ACM, hydrocarbon odours or staining were observed
			1.0			End of Hole at 0.7 m - Target Depth			
			1.5						

BOREHOLE / TEST PIT 6930-ER-1-1-LOGS.GPJ GINT STD AUSTRALIA.GDT 20/4/18

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TEST PIT No: TP084
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 3.5T Excavator
Driller:
Northing:
Logged: JW
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, brown, soft, moist.	0.0-0.3	M	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, orange, firm, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
			1.0			End of Hole at 0.7 m - Target Depth			
			1.5						

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TEST PIT No: TP085
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 3.5T Excavator
Driller:
Northing:
Logged: JW
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, brown, soft, moist with gravels and tree roots observed.	0.0-0.2	M	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, orange-brown, firm, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
						End of Hole at 0.6 m - Target Depth			
			1.0						
			1.5						

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TEST PIT No: TP086
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Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 3.5T Excavator
Driller:
Northing:
Logged: JW
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, pale brown, soft, moist.	0.0-0.2	M	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, orange-red, firm, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
			1.0			End of Hole at 0.7 m - Target Depth			
			1.5						

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TEST PIT No: TP087
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 3.5T Excavator
Driller:
Northing:
Logged: JW
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, brown, soft, moist.	0.0-0.2	M	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, orange-grey mottle, firm, dry.		M	No suspected ACM, hydrocarbon odours or staining were observed
			1.0			End of Hole at 0.6 m - Target Depth			
			1.5						

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TEST PIT No: TP088
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 29/3/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 29/3/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 3.5T Excavator
Driller:
Northing:
Logged: JW
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, pale brown, soft, moist with gravels observed.	0.0-0.3	M	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red-grey mottle, stiff, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
			1.0			End of Hole at 0.7 m - Target Depth			
			1.5						

BOREHOLE / TEST PIT 6930-ER-1-1-LOGS.GPJ GINT STD AUSTRALIA.GDT 20/4/18

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TEST PIT No: TP089
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 29/3/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 29/3/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 3.5T Excavator
Driller:
Northing:
Logged: JW
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, dark brown, soft, moist.	0.0-0.3	M	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, pale red-grey mottle, stiff, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
			1.0			End of Hole at 0.7 m - Target Depth			
			1.5						

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Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 29/3/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 29/3/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 3.5T Excavator
Driller:
Northing:
Logged: JW
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, red-brown, soft, dry.	0.0-0.3	D	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red-grey mottle, stiff, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
			1.0			End of Hole at 0.7 m - Target Depth			
			1.5						

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TEST PIT No: TP091
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 29/3/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 29/3/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 3.5T Excavator
Driller:
Northing:
Logged: JW
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, pale brown, soft, dry with half brick observed on surface.	0.0-0.4	D	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, orange-red mottle, stiff, moist with some gravels observed.		M	No suspected ACM, hydrocarbon odours or staining were observed
			1.0			End of Hole at 0.7 m - Target Depth			
			1.5						

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TEST PIT No: TP092
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Project: Supplementary Asbestos Contamination Assessment
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW

Started: 29/3/18
Finished: 29/3/18
Borehole Size:

Rig Type: 3.5T Excavator
Driller:
Northing:
Logged: JW

RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, pale brown, soft, dry.	0.0-0.5	D	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red-orange mottle, stiff, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
						End of Hole at 0.8 m - Target Depth			
			1.0						
			1.5						

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TEST PIT No: TP093
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 29/3/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 29/3/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 3.5T Excavator
Driller:
Northing:
Logged: JW
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, brown, soft, moist.	0.0-0.4	M	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, pale orange, stiff-hard, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
			1.0			End of Hole at 0.7 m - Target Depth			
			1.5						

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TEST PIT No: TP094
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 3.5T Excavator
Driller:
Northing:
Logged: JW
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, pale brown, soft, moist.	0.0-0.3	M	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, pale orange, firm, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
			1.0			End of Hole at 0.7 m - Target Depth			
			1.5						

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TEST PIT No: TP095
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 3.5T Excavator
Driller:
Northing:
Logged: JW
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, brown, soft, moist.	0.0-0.3	M	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, orange-grey, firm, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
						End of Hole at 0.7 m - Target Depth			
			1.0						
			1.5						

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TEST PIT No: TP096
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 3.5T Excavator
Driller:
Northing:
Logged: JW
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, pale brown, soft, dry.	0.0-0.3	D	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red-orange, firm, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
			1.0			End of Hole at 0.7 m - Target Depth			
			1.5						

BOREHOLE / TEST PIT 6930-ER-1-1-LOGS.GPJ GINT STD AUSTRALIA.GDT 20/4/18

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TEST PIT No: TP097
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 3.5T Excavator
Driller:
Northing:
Logged: JW
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, brown, soft, moist.	0.0-0.2	M	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red-orange, firm, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
						End of Hole at 0.6 m - Target Depth			
			1.0						
			1.5						

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TEST PIT No: TP098
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 3.5T Excavator
Driller:
Northing:
Logged: JW
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, brown, soft, moist.	0.0-0.3	M	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, orange, firm, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
						End of Hole at 0.6 m - Target Depth			
			1.0						
			1.5						

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TEST PIT No: TP099
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 3.5T Excavator
Driller:
Northing:
Logged: JW
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, brown, soft, moist.	0.0-0.3	M	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, orange-grey, firm-stiff, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
						End of Hole at 0.8 m - Target Depth			
			1.0						
			1.5						

BOREHOLE / TEST PIT 6930-ER-1-1-LOGS.GPJ GINT STD AUSTRALIA.GDT 20/4/18

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TEST PIT No: TP100
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 3.5T Excavator
Driller:
Northing:
Logged: JW
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, brown, soft, moist with gravels observed.	0.0-0.4	M	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, orange-brown, firm, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
						End of Hole at 0.8 m - Target Depth			
			1.0						
			1.5						

BOREHOLE / TEST PIT 6930-ER-1-1-LOGS.GPJ GINT STD AUSTRALIA.GDT 20/4/18

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TEST PIT No: TP101
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 3.5T Excavator
Driller:
Northing:
Logged: JW
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, brown, soft, dry.	0.0-0.3	D	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, orange-red, firm, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
			1.0			End of Hole at 0.7 m - Target Depth			
			1.5						

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TEST PIT No: TP102
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 29/3/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 29/3/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 3.5T Excavator
Driller:
Northing:
Logged: JW
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR						FILL: Silty CLAY, brown, soft, dry.		D	No suspected ACM, hydrocarbon odours or staining were observed
						FILL: Pale grey, with gravels observed.	0.0-0.5	D	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red, stiff, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
						End of Hole at 0.7 m - Target Depth			
			1.0						
			1.5						

BOREHOLE / TEST PIT 6930-ER-1-1-LOGS.GPJ GINT STD AUSTRALIA.GDT 20/4/18

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TEST PIT No: TP103
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 29/3/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 29/3/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 3.5T Excavator
Driller:
Northing:
Logged: JW
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR						FILL: Silty CLAY, pale brown, soft, moist with PVC piping observed at 0.0-0.2m.	0.0-0.3	M	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red-brown, stiff, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
						End of Hole at 0.8 m - Target Depth			
			1.0						
			1.5						

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TEST PIT No: TP104
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 29/3/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 29/3/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 3.5T Excavator
Driller:
Northing:
Logged: JW
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR						FILL: Silty CLAY, brown, soft, moist with PVC piping observed at 0.1m.	0.0-0.3	M	Suspected ACM fragements observed (7.4g)
			0.5		CL	CLAY, red-grey mottle, firm, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
			1.0			End of Hole at 0.7 m - Target Depth			
			1.5						

BOREHOLE / TEST PIT 6930-ER-1-1-LOGS.GPJ GINT STD AUSTRALIA.GDT 20/4/18

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TEST PIT No: TP105
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 29/3/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 29/3/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 3.5T Excavator
Driller:
Northing:
Logged: JW
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, brown, soft, dry with half bricks on surface.	0.0-0.2	D	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red-pale brown mottle, stiff, moist with tree roots observed.		M	No suspected ACM, hydrocarbon odours or staining were observed
			1.0			End of Hole at 0.6 m - Target Depth			
			1.5						

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TEST PIT No: TP106
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 29/3/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 29/3/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 3.5T Excavator
Driller:
Northing:
Logged: JW
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, brown, soft, dry.	0.0-0.3	D	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, brown-red, firm, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
			1.0			End of Hole at 0.7 m - Target Depth			
			1.5						

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TEST PIT No: TP107
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 29/3/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 29/3/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 3.5T Excavator
Driller:
Northing:
Logged: JW
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, brown, soft, dry.	0.0-0.2	D	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, orange-brown, stiff, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
			1.0			End of Hole at 0.8 m - Target Depth			
			1.5						

BOREHOLE / TEST PIT 6930-ER-1-1-LOGS.GPJ GINT STD AUSTRALIA.GDT 20/4/18

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TEST PIT No: TP108
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 3.5T Excavator
Driller:
Northing:
Logged: JW
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, brown, soft, moist.	0.0-0.3	M	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, pale orange, firm, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
						End of Hole at 0.7 m - Target Depth			
			1.0						
			1.5						

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TEST PIT No: TP109
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 3.5T Excavator
Driller:
Northing:
Logged: JW
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, brown, soft, moist.	0.0-0.3	M	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, orange-red, firm, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
						End of Hole at 0.7 m - Target Depth			
			1.0						
			1.5						

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TEST PIT No: TP110
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 3.5T Excavator
Driller:
Northing:
Logged: JW
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, brown, soft, moist.	0.0-0.3	M	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red-grey mottle, firm-stiff, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
						End of Hole at 0.7 m - Target Depth			
			1.0						
			1.5						

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TEST PIT No: TP111
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 3.5T Excavator
Driller:
Northing:
Logged: JW
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, brown, soft, moist.	0.0-0.3	M	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, orange-red, firm, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
						End of Hole at 0.7 m - Target Depth			
			1.0						
			1.5						

BOREHOLE / TEST PIT 6930-ER-1-1-LOGS.GPJ GINT STD AUSTRALIA.GDT 20/4/18

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TEST PIT No: TP112
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 29/3/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 29/3/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 3.5T Excavator
Driller:
Northing:
Logged: JW
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR						FILL: Silty CLAY, brown, soft, moist.	0.0-0.3	M	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red, firm, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
			1.0			End of Hole at 0.7 m - Target Depth			
			1.5						

BOREHOLE / TEST PIT 6930-ER-1-1-LOGS.GPJ GINT STD AUSTRALIA.GDT 20/4/18

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TEST PIT No: TP113
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 29/3/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 29/3/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 3.5T Excavator
Driller:
Northing:
Logged: JW
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, brown, soft, moist.	0.0-0.2	M	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red, firm, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
						End of Hole at 0.6 m - Target Depth			
			1.0						
			1.5						

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TEST PIT No: TP114
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 29/3/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 29/3/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 3.5T Excavator
Driller:
Northing:
Logged: JW
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, red-brown, soft, moist.	0.0-0.3	M	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red-brown, firm, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
						End of Hole at 0.6 m - Target Depth			
			1.0						
			1.5						

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TEST PIT No: TP115
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 29/3/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 29/3/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 3.5T Excavator
Driller:
Northing:
Logged: JW
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, brown, soft, moist.	0.0-0.3	M	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red-brown, hard, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
						End of Hole at 0.6 m - Target Depth			
			1.0						
			1.5						

BOREHOLE / TEST PIT 6930-ER-1-1-LOGS.GPJ GINT STD AUSTRALIA.GDT 20/4/18

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TEST PIT No: TP116
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 29/3/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 29/3/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 3.5T Excavator
Driller:
Northing:
Logged: JW
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR						FILL: Silty CLAY, brown, soft, moist with concrete cobbles observed.	0.0-0.2	M	Suspected ACM fragments observed (524.9g)
			0.5		CL	CLAY, grey-red mottle, firm, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
			1.0			End of Hole at 0.6 m - Target Depth			
			1.5						

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TEST PIT No: TP117
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 29/3/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 29/3/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 3.5T Excavator
Driller:
Northing:
Logged: JW
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, brown, soft, moist.	0.0-0.2	M	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, brown-grey mottle, firm, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
			1.0			End of Hole at 0.6 m - Target Depth			
			1.5						

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TEST PIT No: TP118
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 29/3/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 29/3/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 3.5T Excavator
Driller:
Northing:
Logged: JW
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR						FILL: Silty CLAY, brown, soft, moist with trace gravels observed.	0.0-0.2	M	No suspected ACM, hydrocarbon odours or staining were observed
					CL	CLAY, brown, stiff, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
			0.5			End of Hole at 0.5 m - Target Depth			
			1.0						
			1.5						

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TEST PIT No: TP119
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 29/3/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 29/3/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 3.5T Excavator
Driller:
Northing:
Logged: JW
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR						FILL: Silty CLAY, brown, soft, moist with bricks observed at 0.0-0.2m.	0.0-0.2	M	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, orange-grey mottle, stiff, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
			1.0			End of Hole at 0.6 m - Target Depth			
			1.5						

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TEST PIT No: TP120
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 29/3/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 29/3/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 3.5T Excavator
Driller:
Northing:
Logged: JW
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR						FILL: Silty CLAY, brown, soft, moist with trace gravels, bricks, wood and concrete observed.	0.0-0.3	M	Suspected ACM fragments observed (6.2g)
			0.5		CL	CLAY, red-grey mottle, firm-stiff, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
			1.0			End of Hole at 0.7 m - Target Depth			
			1.5						

BOREHOLE / TEST PIT 6930-ER-1-1-LOGS.GPJ GINT STD AUSTRALIA.GDT 20/4/18

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TEST PIT No: TP121
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 29/3/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 29/3/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 3.5T Excavator
Driller:
Northing:
Logged: JW
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR						FILL: Silty CLAY, dark brown, soft, moist.	0.0-0.4	M	Suspected ACM fragments observed (82.7g)
			0.5		CL	CLAY, red, firm, moist with shale gravels.		M	No suspected ACM, hydrocarbon odours or staining were observed
			1.0			End of Hole at 0.7 m - Target Depth			
			1.5						

BOREHOLE / TEST PIT 6930-ER-1-1-LOGS.GPJ GINT STD AUSTRALIA.GDT 20/4/18

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TEST PIT No: TP122
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 29/3/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 29/3/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 3.5T Excavator
Driller:
Northing:
Logged: JW
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR						FILL: Silty CLAY, brown, soft, moist with angular gravels observed.	0.0-0.3	M	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, orange-grey mottle, firm, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
			1.0			End of Hole at 0.7 m - Target Depth			
			1.5						

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TEST PIT No: TP123
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Project: Supplementary Asbestos Contamination Assessment
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW

Started: 29/3/18
Finished: 29/3/18
Borehole Size:

Rig Type: 3.5T Excavator
Driller:
Northing:
Logged: JW

RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, brown, soft, moist.	0.0-0.4	M	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, dark red-grey mottle, stiff, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
						End of Hole at 0.8 m - Target Depth			
			1.0						
			1.5						

BOREHOLE / TEST PIT 6930-ER-1-1-LOGS.GPJ GINT STD AUSTRALIA.GDT 20/4/18

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TEST PIT No: TP124
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 29/3/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 29/3/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 3.5T Excavator
Driller:
Northing:
Logged: JW
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, pale brown-red, soft, moist.	0.0-0.3	M	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red, stiff, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
						End of Hole at 0.7 m - Target Depth			
			1.0						
			1.5						

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TEST PIT No: TP125
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 29/3/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 29/3/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 3.5T Excavator
Driller:
Northing:
Logged: JW
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, pale brown, soft, moist.	0.0-0.4	M	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, pale orange-grey mottle, firm, moist with trace shale at 0.8m.		M	No suspected ACM, hydrocarbon odours or staining were observed
						End of Hole at 0.8 m - Target Depth			
			1.0						
			1.5						

BOREHOLE / TEST PIT 6930-ER-1-1-LOGS.GPJ GINT STD AUSTRALIA.GDT 20/4/18

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TEST PIT No: TP126
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 29/3/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 29/3/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 3.5T Excavator
Driller:
Northing:
Logged: JW
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR						FILL: SILT, brown, soft, moist with brick, stone gravels and plastic rubbish observed.	0.0-0.6	M	No suspected ACM, hydrocarbon odours or staining were observed
			0.5			FILL: Grey with concrete cobbles observed.		M	
					CL	CLAY, orange, firm, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
			1.0			End of Hole at 0.9 m - Target Depth			
			1.5						

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TEST PIT No: TP127
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 29/3/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 29/3/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 3.5T Excavator
Driller:
Northing:
Logged: JW
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, brown, soft, moist.	0.0-0.3	M	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red-orange mottle, firm, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
			1.0			End of Hole at 0.7 m - Target Depth			
			1.5						

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TEST PIT No: TP128
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 29/3/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 29/3/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 3.5T Excavator
Driller:
Northing:
Logged: JW
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, brown, soft, moist.	0.0-0.3	M	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red-orange mottle, firm, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
						End of Hole at 0.8 m - Target Depth			
			1.0						
			1.5						

BOREHOLE / TEST PIT 6930-ER-1-1-LOGS.GPJ GINT STD AUSTRALIA.GDT 20/4/18

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TEST PIT No: TP129
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 29/3/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 29/3/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 3.5T Excavator
Driller:
Northing:
Logged: JW
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, brown, soft, moist.	0.0-0.3	M	Suspected ACM fragments observed (26.1g)
			0.5		CL	CLAY, red-grey, firm, moist.		M	No ACM, hydroocarbon odour or staining observed.
			1.0			End of Hole at 0.8 m - Target Depth			
			1.5						

BOREHOLE / TEST PIT 6930-ER-1-1-LOGS.GPJ GINT STD AUSTRALIA.GDT 20/4/18

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TEST PIT No: TP130
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 29/3/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 29/3/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 3.5T Excavator
Driller:
Northing:
Logged: JW
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, brown-red, soft, moist with some shale cobbles observed.	0.0-0.3	M	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, orange-grey mottle, stiff, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
			1.0			End of Hole at 0.7 m - Target Depth			
			1.5						

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TEST PIT No: TP131
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 29/3/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 29/3/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 3.5T Excavator
Driller:
Northing:
Logged: JW
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR						FILL: SILT, brown, soft, moist with PVC piping fragments observed.	0.0-0.3	M	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red-orange mottle, stiff, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
			1.0			End of Hole at 0.7 m - Target Depth			
			1.5						

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TEST PIT No: TP132
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 29/3/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 29/3/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 3.5T Excavator
Driller:
Northing:
Logged: JW
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR						FILL: SILT, brown, soft, moist with PVC piping fragments, plastics and bricks observed.	0.0-0.3	M	Suspected ACM fragments observed (12.5g)
			0.5		CL	CLAY, orange-grey mottle, stiff, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
			1.0			End of Hole at 0.7 m - Target Depth			
			1.5						

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TEST PIT No: TP133
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 29/3/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 29/3/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 3.5T Excavator
Driller:
Northing:
Logged: JW
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, brown, soft, moist.	0.0-0.3	M	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, orange-grey mottle, firm, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
						End of Hole at 0.8 m - Target Depth			
			1.0						
			1.5						

BOREHOLE / TEST PIT 6930-ER-1-1-LOGS.GPJ GINT STD AUSTRALIA.GDT 20/4/18

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TEST PIT No: TP134
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 29/3/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 29/3/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 3.5T Excavator
Driller:
Northing:
Logged: JW
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, brown, soft, moist.	0.0-0.3	M	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red-grey, firm, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
						End of Hole at 0.6 m - Target Depth			
			1.0						
			1.5						

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TEST PIT No: TP135
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 29/3/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 29/3/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 3.5T Excavator
Driller:
Northing:
Logged: JW
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, brown, soft, moist.	0.0-0.3	M	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, orange-grey mottle, firm, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
			1.0			End of Hole at 0.7 m - Target Depth			
			1.5						

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TEST PIT No: TP136
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 29/3/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 29/3/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 3.5T Excavator
Driller:
Northing:
Logged: JW
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, brown, soft, moist.	0.0-0.3	M	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red-brown, firm, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
			1.0			End of Hole at 0.7 m - Target Depth			
			1.5						

BOREHOLE / TEST PIT 6930-ER-1-1-LOGS.GPJ GINT STD AUSTRALIA.GDT 20/4/18

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TEST PIT No: TP137
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 29/3/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 29/3/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 3.5T Excavator
Driller:
Northing:
Logged: JW
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, brown, soft, moist.	0.0-0.3	M	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red-brown mottle, firm, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
			1.0			End of Hole at 0.7 m - Target Depth			
			1.5						

BOREHOLE / TEST PIT 6930-ER-1-1-LOGS.GPJ GINT STD AUSTRALIA.GDT 20/4/18

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TEST PIT No: TP138
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 29/3/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 29/3/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 3.5T Excavator
Driller:
Northing:
Logged: JW
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR						FILL: SILT, pale brown, soft, moist with large cobbles to boulders and steel rio observed.	0.0-0.4	M	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red-orange-dark red streaks, firm, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
						End of Hole at 0.8 m - Target Depth			
			1.0						
			1.5						

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TEST PIT No: TP139
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 29/3/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 29/3/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 3.5T Excavator
Driller:
Northing:
Logged: JW
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, brown, soft, moist.	0.0-0.3	M	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red-orange, firm, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
			1.0			End of Hole at 0.8 m - Target Depth			
			1.5						

BOREHOLE / TEST PIT 6930-ER-1-1-LOGS.GPJ GINT STD AUSTRALIA.GDT 20/4/18

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TEST PIT No: TP140
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 3.5T Excavator
Driller:
Northing:
Logged: JW
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, pale brown, soft, moist.	0.0-0.3	M	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, orange-red, firm, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
						End of Hole at 0.7 m - Target Depth			
			1.0						
			1.5						

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TEST PIT No: TP141
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 3.5T Excavator
Driller:
Northing:
Logged: JW
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, red-brown, soft, moist.	0.0-0.3	M	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, orange, firm, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
						End of Hole at 0.7 m - Target Depth			
			1.0						
			1.5						

BOREHOLE / TEST PIT 6930-ER-1-1-LOGS.GPJ GINT STD AUSTRALIA.GDT 20/4/18

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TEST PIT No: TP142
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 3.5T Excavator
Driller:
Northing:
Logged: JW
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, pale brown, soft, moist.	0.0-0.3	M	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red-grey mottle, firm, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
			1.0			End of Hole at 0.7 m - Target Depth			
			1.5						

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TEST PIT No: TP143
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 3.5T Excavator
Driller:
Northing:
Logged: JW
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, pale brown, soft, moist.	0.0-0.3	M	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red-orange, firm, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
						End of Hole at 0.7 m - Target Depth			
			1.0						
			1.5						

BOREHOLE / TEST PIT 6930-ER-1-1-LOGS.GPJ GINT STD AUSTRALIA.GDT 20/4/18

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TEST PIT No: TP144
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 29/3/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 29/3/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 3.5T Excavator
Driller:
Northing:
Logged: JW
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR						FILL: Silty CLAY, brown, soft, moist with glass, bricks and plastics observed.	0.0-0.3	M	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red, firm, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
			1.0			End of Hole at 0.7 m - Target Depth			
			1.5						

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TEST PIT No: TP145
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 29/3/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 29/3/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 3.5T Excavator
Driller:
Northing:
Logged: JW
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, brown, soft, moist.	0.0-0.3	M	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red-orange, firm, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
			1.0			End of Hole at 0.7 m - Target Depth			
			1.5						

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TEST PIT No: TP146
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 29/3/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 29/3/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 3.5T Excavator
Driller:
Northing:
Logged: JW
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, brown, soft, moist.	0.0-0.2	M	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red-orange-grey mottle, firm, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
			1.0			End of Hole at 0.7 m - Target Depth			
			1.5						

BOREHOLE / TEST PIT 6930-ER-1-1-LOGS.GPJ GINT STD AUSTRALIA.GDT 20/4/18

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TEST PIT No: TP147
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 29/3/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 29/3/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 3.5T Excavator
Driller:
Northing:
Logged: JW
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, brown, soft, moist.	0.0-0.3	M	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, orange, firm, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
						End of Hole at 0.7 m - Target Depth			
			1.0						
			1.5						

BOREHOLE / TEST PIT 6930-ER-1-1-LOGS.GPJ GINT STD AUSTRALIA.GDT 20/4/18

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TEST PIT No: TP148
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 29/3/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 29/3/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 3.5T Excavator
Driller:
Northing:
Logged: JW
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, brown, soft, moist.	0.0-0.3	M	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red-orange, firm, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
						End of Hole at 0.8 m - Target Depth			
			1.0						
			1.5						

BOREHOLE / TEST PIT 6930-ER-1-1-LOGS.GPJ GINT STD AUSTRALIA.GDT 20/4/18

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TEST PIT No: TP149
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 3.5T Excavator
Driller:
Northing:
Logged: JW
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, pale brown-red, soft, moist.	0.0-0.3	M	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, pale red-grey mottle, firm, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
			1.0			End of Hole at 0.7 m - Target Depth			
			1.5						

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TEST PIT No: TP150
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 3.5T Excavator
Driller:
Northing:
Logged: JW
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, brown, soft, moist.	0.0-0.3	M	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, orange-grey mottle, firm, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
			1.0			End of Hole at 0.7 m - Target Depth			
			1.5						

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TEST PIT No: TP151
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 3.5T Excavator
Driller:
Northing:
Logged: JW
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, pale brown, soft, moist.	0.0-0.3	M	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, orange-grey mottle, firm, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
						End of Hole at 0.6 m - Target Depth			
			1.0						
			1.5						

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TEST PIT No: TP152
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 3.5T Excavator
Driller:
Northing:
Logged: JW
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, brown-red, soft, moist.	0.0-0.4	M	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, orange-grey mottle, firm, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
						End of Hole at 0.8 m - Target Depth			
			1.0						
			1.5						

BOREHOLE / TEST PIT 6930-ER-1-1-LOGS.GPJ GINT STD AUSTRALIA.GDT 20/4/18

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TEST PIT No: TP153
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 3.5T Excavator
Driller:
Northing:
Logged: JW
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, pale brown, soft, moist.	0.0-0.3	M	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red-orange, firm, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
						End of Hole at 0.7 m - Target Depth			
			1.0						
			1.5						

BOREHOLE / TEST PIT 6930-ER-1-1-LOGS.GPJ GINT STD AUSTRALIA.GDT 20/4/18

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TEST PIT No: TP154
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 3.5T Excavator
Driller:
Northing:
Logged: JW
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, brown, soft, moist.	0.0-0.3	M	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, orange-grey mottle, firm, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
			1.0			End of Hole at 0.7 m - Target Depth			
			1.5						

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TEST PIT No: TP155
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 3.5T Excavator
Driller:
Northing:
Logged: JW
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, brown, soft, moist.	0.0-0.3	M	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red-orange, firm, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
						End of Hole at 0.6 m - Target Depth			
			1.0						
			1.5						

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TEST PIT No: TP156
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 3.5T Excavator
Driller:
Northing:
Logged: JW
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, brown, soft, moist.	0.0-0.3	M	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, orange-red, firm, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
						End of Hole at 0.7 m - Target Depth			
			1.0						
			1.5						

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TEST PIT No: TP157
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 3.5T Excavator
Driller:
Northing:
Logged: JW
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR			0.5		CL-ML	FILL: Silty CLAY, pale brown, soft, moist with plastics, bricks, terracotta tiles and drainage ag pipe observed at 0.0-0.7m.	0.0-0.7	M	No suspected ACM, hydrocarbon odours or staining were observed
			1.0		CL	CLAY, dark brown, firm, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
			1.5			End of Hole at 1.0 m - Target Depth			

BOREHOLE / TEST PIT 6930-ER-1-1-LOGS.GPJ GINT STD AUSTRALIA.GDT 20/4/18

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TEST PIT No: TP158
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 3.5T Excavator
Driller:
Northing:
Logged: JW
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR						FILL: Silty CLAY, dark brown, soft, moist with bricks, wood and plastics observed at 0.0-0.3m.	0.0-0.3	M	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, pale orange-grey mottle, stiff, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
			1.0			End of Hole at 0.7 m - Target Depth			
			1.5						

BOREHOLE / TEST PIT 6930-ER-1-1-LOGS.GPJ GINT STD AUSTRALIA.GDT 20/4/18

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TEST PIT No: TP159
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 3.5T Excavator
Driller:
Northing:
Logged: JW
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR						FILL: SILT, black, moist.	0.0-0.2	M	No suspected ACM, hydrocarbon odours or staining were observed
					CL-ML	Silty CLAY, pale grey, stiff, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, orange, firm, moist.		M	
						End of Hole at 0.8 m - Target Depth			
			1.0						
			1.5						

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TEST PIT No: TP160
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 3.5T Excavator
Driller:
Northing:
Logged: JW
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, brown, soft, moist.	0.0-0.3	M	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red-grey mottle, stiff, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
			1.0			End of Hole at 0.7 m - Target Depth			
			1.5						

BOREHOLE / TEST PIT 6930-ER-1-1-LOGS.GPJ GINT STD AUSTRALIA.GDT 20/4/18

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TEST PIT No: TP161
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 3.5T Excavator
Driller:
Northing:
Logged: JW
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, brown, soft, moist.	0.0-0.3	M	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red-grey mottle, firm, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
			1.0			End of Hole at 0.7 m - Target Depth			
			1.5						

BOREHOLE / TEST PIT 6930-ER-1-1-LOGS.GPJ GINT STD AUSTRALIA.GDT 20/4/18

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TEST PIT No: TP162
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 3.5T Excavator
Driller:
Northing:
Logged: JW
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, brown, soft, moist.	0.0-0.3	M	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, orange-brown, firm, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
						End of Hole at 0.7 m - Target Depth			
			1.0						
			1.5						

BOREHOLE / TEST PIT 6930-ER-1-1-LOGS.GPJ GINT STD AUSTRALIA.GDT 20/4/18

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TEST PIT No: TP163
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 3.5T Excavator
Driller:
Northing:
Logged: JW
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, brown, soft, moist.	0.0-0.3	M	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, orange-grey mottle, stiff, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
			1.0			End of Hole at 0.7 m - Target Depth			
			1.5						

BOREHOLE / TEST PIT 6930-ER-1-1-LOGS.GPJ GINT STD AUSTRALIA.GDT 20/4/18

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TEST PIT No: TP164
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 3.5T Excavator
Driller:
Northing:
Logged: JW
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, brown-red, soft, moist.	0.0-0.3	M	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, orange-brown-grey mottle, stiff, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
			1.0			End of Hole at 0.7 m - Target Depth			
			1.5						

BOREHOLE / TEST PIT 6930-ER-1-1-LOGS.GPJ GINT STD AUSTRALIA.GDT 20/4/18

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TEST PIT No: TP165
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 3.5T Excavator
Driller:
Northing:
Logged: JW
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, pale brown, soft, moist.	0.0-0.3	M	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, orange-grey mottle, firm, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
			1.0			End of Hole at 0.7 m - Target Depth			
			1.5						

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TEST PIT No: TP166
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 3.5T Excavator
Driller:
Northing:
Logged: JW
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, brown, soft, moist.	0.0-0.2	M	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red-orange, firm, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
						End of Hole at 0.6 m - Target Depth			
			1.0						
			1.5						

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TEST PIT No: TP167
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 3.5T Excavator
Driller:
Northing:
Logged: JW
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR					CL-ML	Silty CLAY, brown, soft, moist.	0.0-0.2	M	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, orange-red, firm, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
						End of Hole at 0.6 m - Target Depth			
			1.0						
			1.5						

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TEST PIT No: TP168
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools — **Started:**
Project: Supplementary Asbestos Contamination Assessment — **Finished:**
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW — **Borehole Size:**

Rig Type: — **Driller:** — **Northing:** — **Logged:**
RL Surface: — **Contractor:** — **Easting:** — **Checked:**

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
			0.5			Sampling point abandoned due to the presence of an active sewage reticulation system.			
			1.0						
			1.5						

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TEST PIT No: TP169
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools — **Started:**
Project: Supplementary Asbestos Contamination Assessment — **Finished:**
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW — **Borehole Size:**

Rig Type: — **Driller:** — **Northing:** — **Logged:**
RL Surface: — **Contractor:** — **Easting:** — **Checked:**

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
						Sampling point abandoned due to the presence of an active sewage reticulation system.			
			0.5						
			1.0						
			1.5						

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TEST PIT No: TP170
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools — **Started:**
Project: Supplementary Asbestos Contamination Assessment — **Finished:**
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW — **Borehole Size:**

Rig Type: — **Driller:** — **Northing:** — **Logged:**
RL Surface: — **Contractor:** — **Easting:** — **Checked:**

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
			0.5			Sampling point abandoned due to the presence of an active sewage reticulation system.			
			1.0						
			1.5						

BOREHOLE / TEST PIT 6930-ER-1-1-LOGS.GPJ GINT STD AUSTRALIA.GDT 20/4/18

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TEST PIT No: TP171
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools — **Started:**
Project: Supplementary Asbestos Contamination Assessment — **Finished:**
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW — **Borehole Size:**

Rig Type: — **Driller:** — **Northing:** — **Logged:**
RL Surface: — **Contractor:** — **Easting:** — **Checked:**

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
			0.5			Sampling point abandoned due to access constraints associated with construction work located to the west.			
			1.0						
			1.5						

BOREHOLE / TEST PIT 6930-ER-1-1-LOGS.GPJ GINT STD AUSTRALIA.GDT 20/4/18

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TEST PIT No: TP172
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools — **Started:**
Project: Supplementary Asbestos Contamination Assessment — **Finished:**
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW — **Borehole Size:**

Rig Type: — **Driller:** — **Northing:** — **Logged:**
RL Surface: — **Contractor:** — **Easting:** — **Checked:**

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
			0.5			Sampling point abandoned due to access constraints associated with construction work located to the west.			
			1.0						
			1.5						

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TEST PIT No: TP173
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 3.5T Excavator
Driller:
Northing:
Logged: JW
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR						FILL: Silty CLAY, dark brown, soft, moist.	0.0-0.2	M	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, orange-red, stiff, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
			1.0			End of Hole at 0.7 m - Target Depth			
			1.5						

BOREHOLE / TEST PIT 6930-ER-1-1-LOGS.GPJ GINT STD AUSTRALIA.GDT 20/4/18

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TEST PIT No: TP174
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 3.5T Excavator
Driller:
Northing:
Logged: JW
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR						FILL: Silty CLAY, dark brown, soft, moist with blue metal dust gravels observed.	0.0-0.2	M	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red-orange, firm, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
			1.0			End of Hole at 0.7 m - Target Depth			
			1.5						

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TEST PIT No: TP175
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools
Started: 3/4/18
Project: Supplementary Asbestos Contamination Assessment
Finished: 3/4/18
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW
Borehole Size:
Rig Type: 3.5T Excavator
Driller:
Northing:
Logged: JW
RL Surface:
Contractor: Ken Coles
Easting:
Checked: CC

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
EXCAVATOR						FILL: Silty CLAY, brown-grey, soft, moist with gravels and tree roots observed.	0.0-0.4	M	No suspected ACM, hydrocarbon odours or staining were observed
			0.5		CL	CLAY, red-brown, firm, moist.		M	No suspected ACM, hydrocarbon odours or staining were observed
			1.0			End of Hole at 0.7 m - Target Depth			
			1.5						

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TEST PIT No: TP176
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools — **Started:**
Project: Supplementary Asbestos Contamination Assessment — **Finished:**
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW — **Borehole Size:**

Rig Type: — **Driller:** — **Northing:** — **Logged:**
RL Surface: — **Contractor:** — **Easting:** — **Checked:**

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
			0.5			Sampling point abandoned due to access constraints associated with construction work located to the west.			
			1.0						
			1.5						

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TEST PIT No: TP177
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools — **Started:**
Project: Supplementary Asbestos Contamination Assessment — **Finished:**
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW — **Borehole Size:**

Rig Type: — **Driller:** — **Northing:** — **Logged:**
RL Surface: — **Contractor:** — **Easting:** — **Checked:**

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
			0.5			Sampling point abandoned due to access constraints associated with construction work located to the west.			
			1.0						
			1.5						

BOREHOLE / TEST PIT 6930-ER-1-1-LOGS.GPJ GINT STD AUSTRALIA.GDT 20/4/18

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TEST PIT No: TP178
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools — **Started:**
Project: Supplementary Asbestos Contamination Assessment — **Finished:**
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW — **Borehole Size:**

Rig Type: — **Driller:** — **Northing:** — **Logged:**
RL Surface: — **Contractor:** — **Easting:** — **Checked:**

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
						Sampling point abandoned due to the presence of an active sewage reticulation system.			
			0.5						
			1.0						
			1.5						

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TEST PIT No: TP179
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools — **Started:**
Project: Supplementary Asbestos Contamination Assessment — **Finished:**
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW — **Borehole Size:**

Rig Type: — **Driller:** — **Northing:** — **Logged:**
RL Surface: — **Contractor:** — **Easting:** — **Checked:**

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
			0.5			Sampling point abandoned due to the presence of an active sewage reticulation system.			
			1.0						
			1.5						

BOREHOLE / TEST PIT 6930-ER-1-1-LOGS.GPJ GINT STD AUSTRALIA.GDT 20/4/18

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TEST PIT No: TP180
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools — **Started:**
Project: Supplementary Asbestos Contamination Assessment — **Finished:**
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW — **Borehole Size:**

Rig Type: — **Driller:** — **Northing:** — **Logged:**
RL Surface: — **Contractor:** — **Easting:** — **Checked:**

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
						Sampling point abandoned due to the presence of an active sewage reticulation system.			
			0.5						
			1.0						
			1.5						

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TEST PIT No: TP181
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools — **Started:**
Project: Supplementary Asbestos Contamination Assessment — **Finished:**
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW — **Borehole Size:**

Rig Type: — **Driller:** — **Northing:** — **Logged:**
RL Surface: — **Contractor:** — **Easting:** — **Checked:**

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
						Sampling point abandoned due to the presence of an active sewage reticulation system.			
			0.5						
			1.0						
			1.5						

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TEST PIT No: TP182
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools — **Started:**
Project: Supplementary Asbestos Contamination Assessment — **Finished:**
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW — **Borehole Size:**

Rig Type: — **Driller:** — **Northing:** — **Logged:**
RL Surface: — **Contractor:** — **Easting:** — **Checked:**

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
			0.5			Sampling point abandoned due to the presence of an active sewage reticulation system.			
			1.0						
			1.5						

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TEST PIT No: TP183
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools — **Started:**
Project: Supplementary Asbestos Contamination Assessment — **Finished:**
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW — **Borehole Size:**

Rig Type: — **Driller:** — **Northing:** — **Logged:**
RL Surface: — **Contractor:** — **Easting:** — **Checked:**

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
						Sampling point abandoned due to the presence of an active sewage reticulation system.			
			0.5						
			1.0						
			1.5						

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TEST PIT No: TP184
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools — **Started:**
Project: Supplementary Asbestos Contamination Assessment — **Finished:**
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW — **Borehole Size:**

Rig Type: — **Driller:** — **Northing:** — **Logged:**
RL Surface: — **Contractor:** — **Easting:** — **Checked:**

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
						Sampling point abandoned due to the presence of an active sewage reticulation system.			
			0.5						
			1.0						
			1.5						

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TEST PIT No: TP185
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools — **Started:**
Project: Supplementary Asbestos Contamination Assessment — **Finished:**
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW — **Borehole Size:**

Rig Type: — **Driller:** — **Northing:** — **Logged:**
RL Surface: — **Contractor:** — **Easting:** — **Checked:**

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
						Sampling point abandoned due to the presence of an active sewage reticulation system.			
			0.5						
			1.0						
			1.5						

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TEST PIT No: TP186
Sheet: 1 of 1
Job No: 6930

Borehole Log

Client: Sydney Catholic Schools — **Started:**
Project: Supplementary Asbestos Contamination Assessment — **Finished:**
Location: 135-165 Tenth Avenue & Portion of 140, 160 & 170 Eleventh Avenue, Austral, NSW — **Borehole Size:**

Rig Type: — **Driller:** — **Northing:** — **Logged:**
RL Surface: — **Contractor:** — **Easting:** — **Checked:**

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Additional Observations
						Sampling point abandoned due to the presence of an active sewage reticulation system.			
			0.5						
			1.0						
			1.5						

APPENDIX C

LABORATORY

ANALYTICAL REPORT

Accreditation No. 2562

CLIENT DETAILS		LABORATORY DETAILS	
Contact	Generic ENVIRO	Manager	Ros Ma
Client	ALLIANCE GEOTECHNICAL PTY LTD	Laboratory	SGS Perth Environmental
Address	10 Welder Road Seven Hills NSW 2147	Address	28 Reid Rd Perth Airport WA 6105
Telephone	0449 177 589	Telephone	(08) 9373 3500
Facsimile	02 9675 1888	Facsimile	(08) 9373 3556
Email	enviro@allgeo.com.au	Email	au.environmental.perth@sgs.com
Project	**6930-Austral**	SGS Reference	**PE124687 R0**
Order Number	(Not specified)	Date Received	10 Apr 2018
Samples	55	Date Reported	13 Apr 2018

COMMENTS

Accredited for compliance with ISO/IEC 17025 - Testing. NATA accredited laboratory 2562(898/20210).

No respirable fibres detected in soil samples using trace analysis technique as per AS 4964-2004.

Fibre Identification performed by Approved Identifier Tim Chao.

Samples # 6, 11: Asbestos detected in cement sheet fragments, fibrous masses and loose bundles, in >2 to <7mm and <2mm fractions.
Samples # 17, 42 : Asbestos detected in fibrous mass, in >2 to <7mm fraction.

SIGNATORIES



Tim Chao
Asbestos Analyst

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	PE124687.001 Soil 29 Mar 2018 TP024-0.0-0.4	PE124687.002 Soil 29 Mar 2018 TP027-0.0-0.3	PE124687.003 Soil 29 Mar 2018 TP124-0.0-0.3	PE124687.004 Soil 29 Mar 2018 TP118-0.0-0.15
Gravimetric Determination of Asbestos in Soil **Method: AN605** **Tested: 12/4/2018**							
Total Sample Weight*	g	1		**913**	**770**	**832**	**647**
ACM in >7mm Sample*	g	0.01		<0.01	<0.01	<0.01	<0.01
AF/FA in >2mm to <7mm Sample*	g	0.0001		<0.0001	<0.0001	<0.0001	<0.0001
AF/FA in <2mm Sample*	g	0.0001		<0.0001	<0.0001	<0.0001	<0.0001
Asbestos in soil (>7mm ACM)*	%w/w	0.01		<0.01	<0.01	<0.01	<0.01
Asbestos in soil (>2mm to <7mm AF/FA)*	%w/w	0.001		<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<2mm AF/FA)*	%w/w	0.001		<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<7mm AF/FA)*	%w/w	0.001		<0.001	<0.001	<0.001	<0.001
Fibre Type*	No unit	-		NAD, ORG	NAD, ORG	NAD, ORG	NAD, ORG

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	PE124687.005 Soil 29 Mar 2018 TP114-0.0-0.3	PE124687.006 Soil 29 Mar 2018 TP121-0.0-0.4	PE124687.007 Soil 29 Mar 2018 TP089-0.0-0.3	PE124687.008 Soil 29 Mar 2018 TP146-0.0-0.2
Gravimetric Determination of Asbestos in Soil	**Method: AN605**	**Tested: 12/4/2018**					
Total Sample Weight*	g	1		**656**	**787**	**763**	**790**
ACM in >7mm Sample*	g	0.01		<0.01	<0.01	<0.01	<0.01
AF/FA in >2mm to <7mm Sample*	g	0.0001		<0.0001	**0.107**	<0.0001	<0.0001
AF/FA in <2mm Sample*	g	0.0001		<0.0001	**0.0180**	<0.0001	<0.0001
Asbestos in soil (>7mm ACM)*	%w/w	0.01		<0.01	<0.01	<0.01	<0.01
Asbestos in soil (>2mm to <7mm AF/FA)*	%w/w	0.001		<0.001	**0.014**	<0.001	<0.001
Asbestos in soil (<2mm AF/FA)*	%w/w	0.001		<0.001	**0.002**	<0.001	<0.001
Asbestos in soil (<7mm AF/FA)*	%w/w	0.001		<0.001	**0.016**	<0.001	<0.001
Fibre Type*	No unit	-		NAD, ORG	CRY, ORG	NAD, ORG	NAD, ORG

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	PE124687.009 Soil 29 Mar 2018 TP128-0.0-0.3	PE124687.010 Soil 29 Mar 2018 TP135-0.0-0.3	PE124687.011 Soil 29 Mar 2018 TP116-0.0-0.2	PE124687.012 Soil 29 Mar 2018 TP119-0.0-0.2
Gravimetric Determination of Asbestos in Soil **Method: AN605** **Tested: 12/4/2018**							
Total Sample Weight*	g	1		**463**	**451**	**438**	**520**
ACM in >7mm Sample*	g	0.01		<0.01	<0.01	<0.01	<0.01
AF/FA in >2mm to <7mm Sample*	g	0.0001		<0.0001	<0.0001	**0.336**	<0.0001
AF/FA in <2mm Sample*	g	0.0001		<0.0001	<0.0001	**0.0160**	<0.0001
Asbestos in soil (>7mm ACM)*	%w/w	0.01		<0.01	<0.01	<0.01	<0.01
Asbestos in soil (>2mm to <7mm AF/FA)*	%w/w	0.001		<0.001	<0.001	**0.077**	<0.001
Asbestos in soil (<2mm AF/FA)*	%w/w	0.001		<0.001	<0.001	**0.004**	<0.001
Asbestos in soil (<7mm AF/FA)*	%w/w	0.001		<0.001	<0.001	**0.080**	<0.001
Fibre Type*	No unit	-		NAD, ORG	NAD, ORG, SMF	CRY, ORG	NAD, ORG

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	PE124687.013 Soil 29 Mar 2018 TP126-0.0-0.6	PE124687.014 Soil 29 Mar 2018 TP147-0.0-0.3	PE124687.015 Soil 29 Mar 2018 TP017-0.0-1.0	PE124687.016 Soil 29 Mar 2018 TP005-0.0-0.3
Gravimetric Determination of Asbestos in Soil **Method: AN605** **Tested: 12/4/2018**							
Total Sample Weight*	g	1		**444**	**477**	**500**	**453**
ACM in >7mm Sample*	g	0.01		<0.01	<0.01	<0.01	<0.01
AF/FA in >2mm to <7mm Sample*	g	0.0001		<0.0001	<0.0001	<0.0001	<0.0001
AF/FA in <2mm Sample*	g	0.0001		<0.0001	<0.0001	<0.0001	<0.0001
Asbestos in soil (>7mm ACM)*	%w/w	0.01		<0.01	<0.01	<0.01	<0.01
Asbestos in soil (>2mm to <7mm AF/FA)*	%w/w	0.001		<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<2mm AF/FA)*	%w/w	0.001		<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<7mm AF/FA)*	%w/w	0.001		<0.001	<0.001	<0.001	<0.001
Fibre Type*	No unit	-		NAD, ORG	NAD, ORG	NAD, ORG	NAD, ORG

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	PE124687.017 Soil 29 Mar 2018 TP104-0.0-0.3	PE124687.018 Soil 03 Apr 2018 TP098-0.0-0.3	PE124687.019 Soil 03 Apr 2018 TP064-0.0-0.2	PE124687.020 Soil 03 Apr 2018 TP059-0.0-0.3
Gravimetric Determination of Asbestos in Soil **Method: AN605** **Tested: 12/4/2018**							
Total Sample Weight*	g	1		**825**	**675**	**601**	**756**
ACM in >7mm Sample*	g	0.01		<0.01	<0.01	<0.01	<0.01
AF/FA in >2mm to <7mm Sample*	g	0.0001		**0.0379**	<0.0001	<0.0001	<0.0001
AF/FA in <2mm Sample*	g	0.0001		<0.0001	<0.0001	<0.0001	<0.0001
Asbestos in soil (>7mm ACM)*	%w/w	0.01		<0.01	<0.01	<0.01	<0.01
Asbestos in soil (>2mm to <7mm AF/FA)*	%w/w	0.001		**0.005**	<0.001	<0.001	<0.001
Asbestos in soil (<2mm AF/FA)*	%w/w	0.001		<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<7mm AF/FA)*	%w/w	0.001		**0.005**	<0.001	<0.001	<0.001
Fibre Type*	No unit	-		CRY, ORG	NAD, ORG	NAD, ORG	NAD, ORG

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	PE124687.021 Soil 03 Apr 2018 TP036-0.0-0.3	PE124687.022 Soil 03 Apr 2018 TP045-0.0-0.3	PE124687.023 Soil 03 Apr 2018 TP076-0.0-0.25	PE124687.024 Soil 03 Apr 2018 TP061-0.0-0.3
Gravimetric Determination of Asbestos in Soil **Method: AN605** **Tested: 12/4/2018**							
Total Sample Weight*	g	1		**702**	**655**	**719**	**737**
ACM in >7mm Sample*	g	0.01		<0.01	<0.01	<0.01	<0.01
AF/FA in >2mm to <7mm Sample*	g	0.0001		<0.0001	<0.0001	<0.0001	<0.0001
AF/FA in <2mm Sample*	g	0.0001		<0.0001	<0.0001	<0.0001	<0.0001
Asbestos in soil (>7mm ACM)*	%w/w	0.01		<0.01	<0.01	<0.01	<0.01
Asbestos in soil (>2mm to <7mm AF/FA)*	%w/w	0.001		<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<2mm AF/FA)*	%w/w	0.001		<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<7mm AF/FA)*	%w/w	0.001		<0.001	<0.001	<0.001	<0.001
Fibre Type*	No unit	-		NAD, ORG	NAD, ORG	NAD, ORG	NAD, ORG

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	PE124687.025 Soil 03 Apr 2018 TP056-0.0-0.3	PE124687.026 Soil 03 Apr 2018 TP097-0.0-0.2	PE124687.027 Soil 03 Apr 2018 TP032-0.0-0.3	PE124687.028 Soil 03 Apr 2018 TP033-0.0-0.35
Gravimetric Determination of Asbestos in Soil **Method: AN605** **Tested: 12/4/2018**							
Total Sample Weight*	g	1		**443**	**510**	**499**	**426**
ACM in >7mm Sample*	g	0.01		<0.01	<0.01	<0.01	<0.01
AF/FA in >2mm to <7mm Sample*	g	0.0001		<0.0001	<0.0001	<0.0001	<0.0001
AF/FA in <2mm Sample*	g	0.0001		<0.0001	<0.0001	<0.0001	<0.0001
Asbestos in soil (>7mm ACM)*	%w/w	0.01		<0.01	<0.01	<0.01	<0.01
Asbestos in soil (>2mm to <7mm AF/FA)*	%w/w	0.001		<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<2mm AF/FA)*	%w/w	0.001		<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<7mm AF/FA)*	%w/w	0.001		<0.001	<0.001	<0.001	<0.001
Fibre Type*	No unit	-		NAD, ORG, SMF	NAD, ORG	NAD, ORG	NAD, ORG

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	PE124687.029 Soil 03 Apr 2018 TP037-0.0-0.3	PE124687.030 Soil 03 Apr 2018 TP067-0.0-0.25	PE124687.031 Soil 03 Apr 2018 TP074-0.0-0.3	PE124687.032 Soil 03 Apr 2018 TP080-0.0-0.3
Gravimetric Determination of Asbestos in Soil **Method: AN605** **Tested: 12/4/2018**							
Total Sample Weight*	g	1		**480**	**486**	**500**	**508**
ACM in >7mm Sample*	g	0.01		<0.01	<0.01	<0.01	<0.01
AF/FA in >2mm to <7mm Sample*	g	0.0001		<0.0001	<0.0001	<0.0001	<0.0001
AF/FA in <2mm Sample*	g	0.0001		<0.0001	<0.0001	<0.0001	<0.0001
Asbestos in soil (>7mm ACM)*	%w/w	0.01		<0.01	<0.01	<0.01	<0.01
Asbestos in soil (>2mm to <7mm AF/FA)*	%w/w	0.001		<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<2mm AF/FA)*	%w/w	0.001		<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<7mm AF/FA)*	%w/w	0.001		<0.001	<0.001	<0.001	<0.001
Fibre Type*	No unit	-		NAD, ORG	NAD, ORG	NAD, ORG	NAD, ORG

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	PE124687.033 Soil 03 Apr 2018 TP034-0.0-0.4	PE124687.034 Soil 03 Apr 2018 TP073-0.0-0.3	PE124687.035 Soil 03 Apr 2018 TP108-0.0-0.3	PE124687.036 Soil 03 Apr 2018 TP083-0.0-0.35
Gravimetric Determination of Asbestos in Soil **Method: AN605** **Tested: 12/4/2018**							
Total Sample Weight*	g	1		**502**	**698**	**753**	**615**
ACM in >7mm Sample*	g	0.01		<0.01	<0.01	<0.01	<0.01
AF/FA in >2mm to <7mm Sample*	g	0.0001		<0.0001	<0.0001	<0.0001	<0.0001
AF/FA in <2mm Sample*	g	0.0001		<0.0001	<0.0001	<0.0001	<0.0001
Asbestos in soil (>7mm ACM)*	%w/w	0.01		<0.01	<0.01	<0.01	<0.01
Asbestos in soil (>2mm to <7mm AF/FA)*	%w/w	0.001		<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<2mm AF/FA)*	%w/w	0.001		<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<7mm AF/FA)*	%w/w	0.001		<0.001	<0.001	<0.001	<0.001
Fibre Type*	No unit	-		NAD, ORG	NAD, ORG	NAD, ORG	NAD, ORG

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	PE124687.037 Soil 03 Apr 2018 TP062-0.0-0.25	PE124687.038 Soil 03 Apr 2018 TP066-0.0-0.35	PE124687.039 Soil 03 Apr 2018 TP063-0.0-0.3	PE124687.040 Soil 03 Apr 2018 TP065-0.0-0.3
Gravimetric Determination of Asbestos in Soil **Method: AN605** **Tested: 12/4/2018**							
Total Sample Weight*	g	1		**766**	**700**	**666**	**654**
ACM in >7mm Sample*	g	0.01		<0.01	<0.01	<0.01	<0.01
AF/FA in >2mm to <7mm Sample*	g	0.0001		<0.0001	<0.0001	<0.0001	<0.0001
AF/FA in <2mm Sample*	g	0.0001		<0.0001	<0.0001	<0.0001	<0.0001
Asbestos in soil (>7mm ACM)*	%w/w	0.01		<0.01	<0.01	<0.01	<0.01
Asbestos in soil (>2mm to <7mm AF/FA)*	%w/w	0.001		<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<2mm AF/FA)*	%w/w	0.001		<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<7mm AF/FA)*	%w/w	0.001		<0.001	<0.001	<0.001	<0.001
Fibre Type*	No unit	-		NAD, ORG	NAD, ORG	NAD, ORG	NAD, ORG

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	PE124687.041 Soil 03 Apr 2018 TP081-0.0-0.3	PE124687.042 Soil 03 Apr 2018 TP072-0.0-0.35	PE124687.043 Soil 03 Apr 2018 TP048-0.0-0.35	PE124687.044 Soil 03 Apr 2018 TP077-0.0-0.3
Gravimetric Determination of Asbestos in Soil **Method: AN605** **Tested: 12/4/2018**							
Total Sample Weight*	g	1		**535**	**731**	**459**	**440**
ACM in >7mm Sample*	g	0.01		<0.01	<0.01	<0.01	<0.01
AF/FA in >2mm to <7mm Sample*	g	0.0001		<0.0001	**0.0257**	<0.0001	<0.0001
AF/FA in <2mm Sample*	g	0.0001		<0.0001	<0.0001	<0.0001	<0.0001
Asbestos in soil (>7mm ACM)*	%w/w	0.01		<0.01	<0.01	<0.01	<0.01
Asbestos in soil (>2mm to <7mm AF/FA)*	%w/w	0.001		<0.001	**0.004**	<0.001	<0.001
Asbestos in soil (<2mm AF/FA)*	%w/w	0.001		<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<7mm AF/FA)*	%w/w	0.001		<0.001	**0.004**	<0.001	<0.001
Fibre Type*	No unit	-		NAD, ORG	CRY, ORG	NAD, ORG	NAD, ORG

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	PE124687.045 Soil 03 Apr 2018 TP035-0.0-0.4	PE124687.046 Soil 03 Apr 2018 TP060-0.0-0.3	PE124687.047 Soil 03 Apr 2018 TP049-0.0-0.4	PE124687.048 Soil 03 Apr 2018 TP079-0.0-0.3
Gravimetric Determination of Asbestos in Soil **Method: AN605** **Tested: 12/4/2018**							
Total Sample Weight*	g	1		**497**	**497**	**536**	**487**
ACM in >7mm Sample*	g	0.01		<0.01	<0.01	<0.01	<0.01
AF/FA in >2mm to <7mm Sample*	g	0.0001		<0.0001	<0.0001	<0.0001	<0.0001
AF/FA in <2mm Sample*	g	0.0001		<0.0001	<0.0001	<0.0001	<0.0001
Asbestos in soil (>7mm ACM)*	%w/w	0.01		<0.01	<0.01	<0.01	<0.01
Asbestos in soil (>2mm to <7mm AF/FA)*	%w/w	0.001		<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<2mm AF/FA)*	%w/w	0.001		<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<7mm AF/FA)*	%w/w	0.001		<0.001	<0.001	<0.001	<0.001
Fibre Type*	No unit	-		NAD, ORG	NAD, ORG	NAD, ORG	NAD, ORG

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	PE124687.049 Soil 03 Apr 2018 TP071-0.0-0.2	PE124687.050 Soil 03 Apr 2018 TP053-0.0-0.3	PE124687.051 Soil 03 Apr 2018 TP044-0.0-0.3	PE124687.052 Soil 03 Apr 2018 TP057-0.0-0.25
Gravimetric Determination of Asbestos in Soil **Method: AN605** **Tested: 12/4/2018**							
Total Sample Weight*	g	1		**583**	**750**	**530**	**728**
ACM in >7mm Sample*	g	0.01		<0.01	<0.01	<0.01	<0.01
AF/FA in >2mm to <7mm Sample*	g	0.0001		<0.0001	<0.0001	<0.0001	<0.0001
AF/FA in <2mm Sample*	g	0.0001		<0.0001	<0.0001	<0.0001	<0.0001
Asbestos in soil (>7mm ACM)*	%w/w	0.01		<0.01	<0.01	<0.01	<0.01
Asbestos in soil (>2mm to <7mm AF/FA)*	%w/w	0.001		<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<2mm AF/FA)*	%w/w	0.001		<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<7mm AF/FA)*	%w/w	0.001		<0.001	<0.001	<0.001	<0.001
Fibre Type*	No unit	-		NAD, ORG	NAD, ORG	NAD, ORG	NAD, ORG

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	PE124687.053 Soil 03 Apr 2018 TP069-0.0-0.3	PE124687.054 Soil 03 Apr 2018 TP052-0.0-0.4	PE124687.055 Soil 03 Apr 2018 TP078-0.0-0.3
Gravimetric Determination of Asbestos in Soil **Method: AN605** **Tested: 12/4/2018**						
Total Sample Weight*	g	1		**656**	**519**	**530**
ACM in >7mm Sample*	g	0.01		<0.01	<0.01	<0.01
AF/FA in >2mm to <7mm Sample*	g	0.0001		<0.0001	<0.0001	<0.0001
AF/FA in <2mm Sample*	g	0.0001		<0.0001	<0.0001	<0.0001
Asbestos in soil (>7mm ACM)*	%w/w	0.01		<0.01	<0.01	<0.01
Asbestos in soil (>2mm to <7mm AF/FA)*	%w/w	0.001		<0.001	<0.001	<0.001
Asbestos in soil (<2mm AF/FA)*	%w/w	0.001		<0.001	<0.001	<0.001
Asbestos in soil (<7mm AF/FA)*	%w/w	0.001		<0.001	<0.001	<0.001
Fibre Type*	No unit	-		NAD, ORG	NAD, ORG	NAD, ORG

QC SUMMARY

MB blank results are compared to the Limit of Reporting
LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.
DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula : *the absolute difference of the two results divided by the average of the two results as a percentage.* Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

No QC samples were reported for this job.

METHOD SUMMARY

METHOD	METHODOLOGY SUMMARY
AN605	This technique gravimetrically determines the mass of Asbestos Containing Material retained on a 7mm Sieve and assumes that 15% of this ACM is asbestos. This calculated asbestos weight is then calculated as a percentage of the total sample weight.
AN605	This technique also gravimetrically determines the mass of Fibrous Asbestos (FA) and Asbestos Fines (AF) Containing Material retained on and passing a 2mm sieve post 7mm sieving. Assumes that FA and AF are 100% asbestos containing. This calculated asbestos weight is then calculated as a percentage of the total sample weight. This does not include free fibres which are only observed by standard trace analysis as per AN 602.
AN605	AMO = Amosite Detected CRY = Chrysotile Detected CRO = Crocidolite Detected ORG = Organic Fibres Detected SMF = Synthetic Mineral Fibres Detected UMF = Unknown Mineral Fibres Detected NAD = No Asbestos Detected
AN605	Insofar as is technically feasible, this report is consistent with the analytical reporting recommendations in the Western Australian Department of Health Guidelines for the Assessment Remediation and Management of Asbestos - Contaminated Sites in Western Australia - May 2009.

FOOTNOTES

IS	Insufficient sample for analysis.	LOR	Limit of Reporting
LNR	Sample listed, but not received.	↑↓	Raised or Lowered Limit of Reporting
*	NATA accreditation does not cover the performance of this service.	QFH	QC result is above the upper tolerance
		QFL	QC result is below the lower tolerance
**	Indicative data, theoretical holding time exceeded.	-	The sample was not analysed for this analyte
		NVL	Not Validated

Samples analysed as received.
Solid samples expressed on a dry weight basis.

Where "Total" analyte groups are reported (for example, Total PAHs, Total OC Pesticides) the total will be calculated as the sum of the individual analytes, with those analytes that are reported as <LOR being assumed to be zero. The summed (Total) limit of reporting is calcuated by summing the individual analyte LORs and dividing by two. For example, where 16 individual analytes are being summed and each has an LOR of 0.1 mg/kg, the "Totals" LOR will be 1.6 / 2 (0.8 mg/kg). Where only 2 analytes are being summed, the " Total" LOR will be the sum of those two LORs.

Some totals may not appear to add up because the total is rounded after adding up the raw values.

If reported, measurement uncertainty follow the ± sign after the analytical result and is expressed as the expanded uncertainty calculated using a coverage factor of 2, providing a level of confidence of approximately 95%, unless stated otherwise in the comments section of this report.

Results reported for samples tested under test methods with codes starting with ARS-SOP, radionuclide or gross radioactivity concentrations are expressed in becquerel (Bq) per unit of mass or volume or per wipe as stated on the report. Becquerel is the SI unit for activity and equals one nuclear transformation per second.
Note that in terms of units of radioactivity:

a. 1 Bq is equivalent to 27 pCi
b. 37 MBq is equivalent to 1 mCi

For results reported for samples tested under test methods with codes starting with ARS-SOP, less than (<) values indicate the detection limit for each radionuclide or parameter for the measurement system used. The respective detection limits have been calculated in accordance with ISO 11929.

The QC criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here : http://www.sgs.com.au/~/media/Local/Australia/Documents/Technical%20Documents/MP-AU-ENV-QU-022%20QA%20QC%20Plan.pdf

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SAMPLE RECEIPT ADVICE

PE124687

CLIENT DETAILS

Contact	Generic ENVIRO
Client	ALLIANCE GEOTECHNICAL PTY LTD
Address	10 Welder Road Seven Hills NSW 2147
Telephone	0449 177 589
Facsimile	02 9675 1888
Email	enviro@allgeo.com.au
Project	**6930-Austral**
Order Number	**P1025**
Samples	55

LABORATORY DETAILS

Manager	Ros Ma
Laboratory	SGS Perth Environmental
Address	28 Reid Rd Perth Airport WA 6105
Telephone	(08) 9373 3500
Facsimile	(08) 9373 3556
Email	au.environmental.perth@sgs.com
Samples Received	Tue 10/4/2018
Report Due	Mon 16/4/2018
SGS Reference	**PE124687**

SUBMISSION DETAILS

This is to confirm that 55 samples were received on Tuesday 10/4/2018. Results are expected to be ready by COB Monday 16/4/2018. Please quote SGS reference PE124687 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	None
Samples received in correct containers	Yes	Sample counts by matrix	55 Soil
Date documentation received	10/4/2018	Type of documentation received	COC
Number of eskies/boxes received	6 Satchel bags	Samples received in good order	Yes
Samples received without headspace	Yes	Sample temperature upon receipt	21.5°C
Sufficient sample for analysis	Yes	Turnaround time requested	4 days

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.

SAMPLE RECEIPT ADVICE

PE124687

CLIENT DETAILS

Client ALLIANCE GEOTECHNICAL PTY LTD

Project 6930-Austral

SUMMARY OF ANALYSIS

No.	Sample ID	Gravimetric Determination of Asbestos in Soil
001	TP024-0.0-0.4	9
002	TP027-0.0-0.3	9
003	TP124-0.0-0.3	9
004	TP118-0.0-0.15	9
005	TP114-0.0-0.3	9
006	TP121-0.0-0.4	9
007	TP089-0.0-0.3	9
008	TP146-0.0-0.2	9
009	TP128-0.0-0.3	9
010	TP135-0.0-0.3	9
011	TP116-0.0-0.2	9
012	TP119-0.0-0.2	9
013	TP126-0.0-0.6	9
014	TP147-0.0-0.3	9
015	TP017-0.0-1.0	9
016	TP005-0.0-0.3	9
017	TP104-0.0-0.3	9
018	TP098-0.0-0.3	9
019	TP064-0.0-0.2	9
020	TP059-0.0-0.3	9
021	TP036-0.0-0.3	9
022	TP045-0.0-0.3	9
023	TP076-0.0-0.25	9
024	TP061-0.0-0.3	9

CONTINUED OVERLEAF

The above table represents SGS' interpretation of the client-supplied Chain Of Custody document.
The numbers shown in the table indicate the number of results requested in each package.
Please indicate as soon as possible should your request differ from these details .
Testing as per this table shall commence immediately unless the client intervenes with a correction .

SAMPLE RECEIPT ADVICE

PE124687

CLIENT DETAILS

Client ALLIANCE GEOTECHNICAL PTY LTD

Project 6930-Austral

SUMMARY OF ANALYSIS

No.	Sample ID	Gravimetric Determination of Asbestos in Soil
025	TP056-0.0-0.3	9
026	TP097-0.0-0.2	9
027	TP032-0.0-0.3	9
028	TP033-0.0-0.35	9
029	TP037-0.0-0.3	9
030	TP067-0.0-0.25	9
031	TP074-0.0-0.3	9
032	TP080-0.0-0.3	9
033	TP034-0.0-0.4	9
034	TP073-0.0-0.3	9
035	TP108-0.0-0.3	9
036	TP083-0.0-0.35	9
037	TP062-0.0-0.25	9
038	TP066-0.0-0.35	9
039	TP063-0.0-0.3	9
040	TP065-0.0-0.3	9
041	TP081-0.0-0.3	9
042	TP072-0.0-0.35	9
043	TP048-0.0-0.35	9
044	TP077-0.0-0.3	9
045	TP035-0.0-0.4	9
046	TP060-0.0-0.3	9
047	TP049-0.0-0.4	9
048	TP079-0.0-0.3	9

CONTINUED OVERLEAF

The above table represents SGS' interpretation of the client-supplied Chain Of Custody document.
The numbers shown in the table indicate the number of results requested in each package.
Please indicate as soon as possible should your request differ from these details .
Testing as per this table shall commence immediately unless the client intervenes with a correction .

SAMPLE RECEIPT ADVICE

PE124687

CLIENT DETAILS

Client ALLIANCE GEOTECHNICAL PTY LTD

Project 6930-Austral

SUMMARY OF ANALYSIS

No.	Sample ID	Gravimetric Determination of Asbestos in Soil
049	TP071-0.0-0.2	9
050	TP053-0.0-0.3	9
051	TP044-0.0-0.3	9
052	TP057-0.0-0.25	9
053	TP069-0.0-0.3	9
054	TP052-0.0-0.4	9
055	TP078-0.0-0.3	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 .

source ALX_EHS_OFFICE_X585_20180405100150.pdf page 18 SGS Ref SE177522_COC

PE124687

CHAIN OF CUSTODY & ANALYSIS REQUEST

SGS Environmental Services
Unit 16, 33 Maddox Street
Alexandria NSW 2015
Telephone No: (02) 85940400
Facsimile No: (02) 85940499
Email: au.samplereceipt.sydney@sgs.com

Company Name:	Alliance Geotechnical	Project Name/No:	613 - Rozelle
Address:	10 Welder Road,	Purchase Order No:	~~WIP~~ 9025
	Seven Hills NSW	Results Required By:	3 day TAT
Contact Name:	Corey Cowper	Telephone:	1800 288 188
		Facsimile:	N/A
		Email Results:	enviro@allgeo.com.au

	Client Sample ID	Date Sampled	Lab Sample ID	WATER	SOIL	PRESERVATIVE	NO OF CONTAINERS	ENM Suite (no FM)	Asbestos I.D (bulk material)	Field Screen – pHf / pHfox	Chromium Suite	Metals	PAH	OCP/OPP	Asbestos 500					
TP24																				
1	[redacted]-00-0.4	27-3-18	1		X		1								X					
2	TP27-00-0.5	27-3-18	2		X		1								X					
3	TP24-00-0.3	27-3-18	3		X		1								X					
4	TP118-00-0.15	27-3-18	4		X		1								X					
5	TP14-00-0.3	"	5		X										X					
6	TP21-0.0-0.4	"	6		X										X					
7	TP21-00-0.4	"	7	FRAGMENTS					X											
8	TP39-00-0.3	"	8		X										X					
9	TP46-00-0.2	"	9		X										X					

SGS EHS Alexandria Laboratory

SE177522 COC
Received: 04 – Apr – 2018

Relinquished By:	Date/Time: 04/04/18 @ 1200	Received By:	Date/Time 04/04/18 @ 11:45
Relinquished By:	Date/Time:	Received By:	Date/Time 10/4/18 @ 11:100m
Samples Intact: Yes/ No	Temperature: Ambient / Chilled	Sample Cooler Sealed: Yes/ No	Laboratory Quotation No:
	Comments:		$50 per sample Emailed/dated 15/03/2018

CHAIN OF CUSTODY & ANALYSIS REQUEST

2 7

SGS Environmental Services
Unit 16, 33 Maddox Street
Alexandria NSW 2015
Telephone No: (02) 85940400
Facsimile No: (02) 85940499
Email: au.samplereceipt.sydney@sgs.com

Company Name: Alliance Geotechnical
Address: 10 Welder Road,
Seven Hills NSW
Contact Name:

Project Name/No:
Purchase Order No:
Results Required By:
Telephone: 1800 288 188
Facsimile: N/A
Email Results: enviro@allgeo.com.au

	Client Sample ID	Date Sampled	Lab Sample ID	WATER	SOIL	PRESERVATIVE	NO OF CONTAINERS	ENM Suite (no FM)	Asbestos I.D Bulk Materials	Field Screen – pHf / oHfox	Chromium Suite	Metals	PAH	OCP/OPP	
9	TP12a-0.0-0.2	2/4/18	10				1								X
10	TP13-0.0-0.2	2/4/18	11				1								X
11	TP14-0.0-0.2	2/4/18	12				1								X
—	TP14-0.3-0.4	2/4/18	13 — FILTER PAPER						X						
12	TP19-0.0-0.2	2/4/18	14				1								X
13	TP1-0.0-0.2	2/4/18	15				1								X
14	TP-0.0-0.2	2/4/18	16				1								X
15	TP-0.0-0.2	2/4/18	17				1								X
16	TP05-0.0-0.2	2/4/18	18				1								X

Relinquished By:	Date/Time: 04/04/18 @ 1200	Received By:	Date/Time 04/04/18 @ 11 45
Relinquished By:	Date/Time:	Received By:	Date/Time
Samples Intact: Yes/ No	Temperature: Ambient / Chilled	Sample Cooler Sealed: Yes/ No	Laboratory Quotation No:
	Comments:		

CHAIN OF CUSTODY & ANALYSIS REQUEST

Page 3 of 7

SGS Environmental Services
Unit 16, 33 Maddox Street
Alexandria NSW 2015
Telephone No: (02) 85940400
Facsimile No: (02) 85940499
Email: au.samplereceipt.sydney@sgs.com

Company Name:	Alliance Geotechnical	Project Name/No:	
Address:	10 Welder Road,	Purchase Order No:	
	Seven Hills NSW	Results Required By:	
		Telephone:	1800 288 188
Contact Name:		Facsimile:	N/A
		Email Results:	enviro@aligeo.com.au

	Client Sample ID	Date Sampled	Lab Sample ID	WATER	SOIL	PRESERVATIVE	NO OF CONTAINERS	ENM Suite (no FM)	Asbestos I.D Bulk material	Field Screen – pH / oHnx	Chromium Suite	Metals	PAH	OCP/OPP	
17	TP104-00-0.3	29-3-18	19		✓		1								X
	TP104-00-0.3	29-3-18	20 – FRAGMENTS						X						
18	TP098-00-0.3	3-4-18	21		✓		1								X
19	TP064-00-0.2	3-4-18	22		✓		1								X
20	TP059-00-0.3	3-4-18	23		✓		1								X
21	TP036-00-0.3	3-4-18	24		✓		1								X
22	TP045-00-0.3	3-4-18	25		✓		1								X
23	TP076-00-0.25	3-4-18	26		✓		1								X
24	TP061-00-0.3	3-4-18	27		✓		1								X

Relinquished By:	Date/Time: 04/04/18 @ 1200	Received By:	Date/Time 04/04/18 @ 11:45
Relinquished By:	Date/Time:	Received By:	Date/Time
Samples Intact: Yes/ No	Temperature: Ambient / Chilled	Sample Cooler Sealed: Yes/ No	Laboratory Quotation No:
	Comments:		

CHAIN OF CUSTODY & ANALYSIS REQUEST

SGS Environmental Services
Unit 16, 33 Maddox Street
Alexandria NSW 2015
Telephone No: (02) 85940400
Facsimile No: (02) 85940499
Email: au.samplereceipt.sydney@sgs.com

Company Name: Alliance Geotechnical
Address: 10 Welder Road,
Seven Hills NSW
Contact Name:

Project Name/No:
Purchase Order No:
Results Required By:
Telephone: 1300 288 188
Facsimile: N/A
Email Results: enviro@allgeo.com.au

	Client Sample ID	Date Sampled	Lab Sample ID	WATER	SOIL	PRESERVATIVE	NO OF CONTAINERS	ENM Suite (no FM)	Asbestos I.D Build Material	Field Screen – pH / cHex	Chromium Suite	Metals	PAH	OCP/OPP	
25	TP36-0.1-0.2	3/4/18	28		x		1								X
26	TP37-0.1-0.2	3/4/18	29		x		1								X
27	TP32-0.0-0.3	3/4/18	30		x		1								X
28	TP33-0.1-0.3	3/4/18	31		x		1								X
29	TP33-0.3-0.5	3/4/18	32		x		1								X
30	TP32-0.2-0.5	3/4/18	33		x		1								X
31	TP34-0.0-0.3	3/4/18	34		x		1								X
32	TP35-0.2-0.3	3/4/18	35		x		1								X
33	TP32-0.3-0.4	3/4/18	36		x		1								X

Relinquished By:	Date/Time: 04/04/18 @ 1200	Received By:	Date/Time 04/04/18 @ 11.45
Relinquished By:	Date/Time:	Received By:	Date/Time
Samples Intact: Yes/ No	Temperature: Ambient / Chilled	Sample Cooler Sealed: Yes/ No	Laboratory Quotation No:
	Comments:		

CHAIN OF CUSTODY & ANALYSIS REQUEST

SGS Environmental Services
Unit 16, 33 Maddox Street
Alexandria NSW 2015
Telephone No: (02) 85940400
Facsimile No: (02) 85940499
Email: au.samplereceipt.sydney@sgs.com

Company Name: Alliance Geotechnical
Address: 10 Welder Road,
Seven Hills NSW
Contact Name:

Project Name/No.:
Purchase Order No:
Results Required By:
Telephone: 1800 288 188
Facsimile: N/A
Email Results: enviro@allgeo.com.au

	Client Sample ID	Date Sampled	Lab Sample ID	WATER	SOIL	PRESERVATIVE	NO OF CONTAINERS	ENM Suite (no FM)	Asbestos I.D Build Material	Field Screen – pH / other	Chromium Suite	Metals	PAH	OCP/OPP									
34	TP073-00-0.5	3-4-18	37		X		1								X								
35	TP108-00-0.3	3-4-18	38		X		1								X								
36	TP083-00-0.35	3-4-18	39		X		1								X								
37	TP062-0.0-0.25	3-4-18	40		X		1								X								
38	TP066-00-0.35	3-4-18	41		X		1								X								
39	TP063-00-0.3	3-4-18	42		X		1								X								
40	TP065-00-0.3	3-4-18	43		X		1								X								
41	TP081-0.0-0.3	3-4-18	44		X		1								X								
42	TP072-0.0-0.35	3-4-18	45		X		1								X								

Relinquished By:	Date/Time: 04/04/18 @ 1200	Received By:	Date/Time 04/04/18 @ 11 45
Relinquished By:	Date/Time:	Received By:	Date/Time
Samples Intact: Yes/ No	Temperature: Ambient / Chilled	Sample Cooler Sealed: Yes/ No	Laboratory Quotation No:
	Comments:		

CHAIN OF CUSTODY & ANALYSIS REQUEST

6 7

SGS Environmental Services
Unit 16, 33 Maddox Street
Alexandria NSW 2015
Telephone No: (02) 85940400
Facsimile No: (02) 85940499
Email: au.samplereceipt.sydney@sgs.com

Company Name:	Alliance Geotechnical	Project Name/No:	
Address:	10 Welder Road,	Purchase Order No:	[illegible]
	Seven Hills NSW	Results Required By:	
Contact Name:		Telephone:	1800 288 188
		Facsimile:	N/A
		Email Results:	enviro@allgeo.com.au

	Client Sample ID	Date Sampled	Lab Sample ID	WATER	SOIL	PRESERVATIVE	NO OF CONTAINERS	ENM Suite (no FM)	Asbestos I.D Bulk Material	Field Screen – pHf / oHfox	Chromium Suite	Metals	PAH	OCP/OPP	[illegible]								
43	TP[illegible]		46		X										X								
44	TP[illegible]		47		X										X								
45	TP[illegible]		48		X										X								
46	TP[illegible]		49		X										X								
47	TP[illegible]		50		X										X								
48	TP[illegible]		51		X										X								
49	TP[illegible]		52		X										X								
50	TP[illegible]		53		X										X								
51	TP[illegible]		54		X										X								

Relinquished By:	Date/Time: 04/04/18 @ 1200	Received By:	Date/Time: 04/04/18 @ 11:45
Relinquished By:	Date/Time:	Received By:	Date/Time
Samples Intact: Yes/ No	Temperature: Ambient / Chilled	Sample Cooler Sealed: Yes/ No	Laboratory Quotation No:
	Comments:		

CHAIN OF CUSTODY & ANALYSIS REQUEST

Page 7 of 7

SGS Environmental Services
Unit 16, 33 Maddox Street
Alexandria NSW 2015
Telephone No: (02) 85940400
Facsimile No: (02) 85940499
Email: au.samplereceipt.sydney@sgs.com

Company Name: Alliance Geotechnical
Address: 10 Welder Road,
Seven Hills NSW
Contact Name:

Project Name/No:
Purchase Order No:
Results Required By:
Telephone: 1800 288 186
Facsimile: N/A
Email Results: enviro@allgeo.com.au

Client Sample ID	Date Sampled	Lab Sample ID	WATER	SOIL	PRESERVATIVE	NO OF CONTAINERS	ENM Suite (no FM)	Asbestos I.D Build Materials	Field Screen – pH / oHfix	Chromium Suite	Metals	PAH	OCP/OPP	
TP072-00-0.35	3-4-18	55	FRAGMENTS					X						
TP057-00-0.35	3-4-18	56				1								X
TP069-00-0.3	3-4-18	57												X
TP052-00-0.4	3-4-18	58												X
TP078-00-0.3	3-4-18	59												X
				X										

Relinquished By:	Date/Time: 04/04/18 @ 1200	Received By:	Date/Time 04/04/18 @ 11:45
Relinquished By:	Date/Time:	Received By:	Date/Time
Samples Intact: Yes/ No	Temperature: Ambient / Chilled	Sample Cooler Sealed: Yes/ No	Laboratory Quotation No:
	Comments:		

SGS

AUSTRALIA-ENVIRONMENTAL-PERTH AIRPORT- PROFORMA -QU101

REGISTRATION DETAILS

APPROVED BY: R. MA

Bottle Map Sample Numbers:	1L Plastic Green	500mL Plastic Green	250mL Plastic Purple	500mL Amber Green	250mL Plastic Green	125mL Plastic Green	125mL UF/F Plastic Red	1L Amber Green	500mL Amber Orange	100mL Amber Green	40mL Glass Vial VOC	40mL Glass Vial HAA	500mL Plastic Blue	250mL Plastic Orange	125mL Plastic Brown	1L Plastic Yellow	250mL Glass Jar	125ml Glass Jar	Bottles Supplied By	Ziplock Bag/ Other
1-8855																				

Job Number: PE 124687

of Eskies: 7 Sachets

Esky Numbers:

IB / ICE / None

Temp: 21.5 °C

Tray Numbers: HYC

Registration comments:

Action Taken:

Registered By: 10/4/18

ANALYTICAL REPORT

Accreditation No. 2562

CLIENT DETAILS		LABORATORY DETAILS	
Contact	Craig Cowper	Manager	Huong Crawford
Client	ALLIANCE GEOTECHNICAL PTY LTD	Laboratory	SGS Alexandria Environmental
Address	10 Welder Road Seven Hills NSW 2147	Address	Unit 16, 33 Maddox St Alexandria NSW 2015
Telephone	0407 989 885	Telephone	+61 2 8594 0400
Facsimile	02 9675 1888	Facsimile	+61 2 8594 0499
Email	c.cowper@allgeo.com.au	Email	au.environmental.sydney@sgs.com
Project	**6930 Austral**	SGS Reference	**SE177465 R0**
Order Number	**P1025**	Date Received	03 Apr 2018
Samples	72	Date Reported	13 Apr 2018

COMMENTS

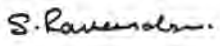
Accredited for compliance with ISO/IEC 17025 - Testing. NATA accredited laboratory 2562(4354).

No respirable fibres detected in soil samples using trace analysis technique as per AS 4964-2004.

Sample # 19 : Asbestos found in spongy fibrous material in >2 to <7mm fraction.
Sample # 42 : Asbestos found in cement sheet fragment in >2 to <7mm fraction.

Asbestos analysed by approved identifiers Ravee Sivasubramaniam.

SIGNATORIES



Ravee Sivasubramaniam
Hygiene Team Leader

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	SE177465.001 Soil 29 Mar 2018 TP093-0.0-0.4	SE177465.002 Soil 29 Mar 2018 TP122-0.0-0.3	SE177465.003 Soil 29 Mar 2018 TP107-0.0-0.2	SE177465.004 Soil 29 Mar 2018 TP127-0.0-0.3
Gravimetric Determination of Asbestos in Soil Method: AN605 Tested: 9/4/2018							
Total Sample Weight*	g	1		**824**	**767**	**984**	**748**
ACM in >7mm Sample*	g	0.01		<0.01	<0.01	<0.01	<0.01
AF/FA in >2mm to <7mm Sample*	g	0.0001		<0.0001	<0.0001	<0.0001	<0.0001
AF/FA in <2mm Sample*	g	0.0001		<0.0001	<0.0001	<0.0001	<0.0001
Asbestos in soil (>7mm ACM)*	%w/w	0.01		<0.01	<0.01	<0.01	<0.01
Asbestos in soil (>2mm to <7mm AF/FA)*	%w/w	0.001		<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<2mm AF/FA)*	%w/w	0.001		<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<7mm AF/FA)*	%w/w	0.001		<0.001	<0.001	<0.001	<0.001
Fibre Type*	No unit	-		NAD	NAD	NAD	NAD
Fibre ID in bulk materials Method: AN602 Tested: 13/4/2018							
FibreID							
Asbestos Detected	No unit	-		-	-	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	SE177465.005 Soil 29 Mar 2018 TP041-0.0-0.7	SE177465.006 Soil 29 Mar 2018 TP115-0.0-0.3	SE177465.007 Soil 29 Mar 2018 TP004-0.0-0.3	SE177465.008 Soil 29 Mar 2018 TP148-0.0-0.3
Gravimetric Determination of Asbestos in Soil Method: AN605 Tested: 9/4/2018							
Total Sample Weight*	g	1		**737**	**847**	**919**	**820**
ACM in >7mm Sample*	g	0.01		<0.01	<0.01	<0.01	<0.01
AF/FA in >2mm to <7mm Sample*	g	0.0001		<0.0001	<0.0001	<0.0001	<0.0001
AF/FA in <2mm Sample*	g	0.0001		<0.0001	<0.0001	<0.0001	<0.0001
Asbestos in soil (>7mm ACM)*	%w/w	0.01		<0.01	<0.01	<0.01	<0.01
Asbestos in soil (>2mm to <7mm AF/FA)*	%w/w	0.001		<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<2mm AF/FA)*	%w/w	0.001		<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<7mm AF/FA)*	%w/w	0.001		<0.001	<0.001	<0.001	<0.001
Fibre Type*	No unit	-		NAD	NAD	NAD	NAD
Fibre ID in bulk materials Method: AN602 Tested: 13/4/2018							
FibreID							
Asbestos Detected	No unit	-		-	-	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	SE177465.009 Soil 29 Mar 2018 TP117-0.0-0.2	SE177465.010 Soil 29 Mar 2018 TP105-0.0-0.2	SE177465.011 Soil 29 Mar 2018 TP029-0.0-0.4	SE177465.012 Soil 29 Mar 2018 TP091-0.0-0.4
Gravimetric Determination of Asbestos in Soil Method: AN605 Tested: 9/4/2018							
Total Sample Weight*	g	1		**843**	**761**	**713**	**864**
ACM in >7mm Sample*	g	0.01		<0.01	<0.01	<0.01	<0.01
AF/FA in >2mm to <7mm Sample*	g	0.0001		<0.0001	<0.0001	<0.0001	<0.0001
AF/FA in <2mm Sample*	g	0.0001		<0.0001	<0.0001	<0.0001	<0.0001
Asbestos in soil (>7mm ACM)*	%w/w	0.01		<0.01	<0.01	<0.01	<0.01
Asbestos in soil (>2mm to <7mm AF/FA)*	%w/w	0.001		<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<2mm AF/FA)*	%w/w	0.001		<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<7mm AF/FA)*	%w/w	0.001		<0.001	<0.001	<0.001	<0.001
Fibre Type*	No unit	-		NAD	NAD	NAD	NAD
Fibre ID in bulk materials Method: AN602 Tested: 13/4/2018							
FibreID							
Asbestos Detected	No unit	-		-	-	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	SE177465.013 Soil 29 Mar 2018 TP123-0.0-0.4	SE177465.014 Soil 29 Mar 2018 TP028-0.0-0.35	SE177465.015 Soil 29 Mar 2018 TP009-0.0-0.2	SE177465.016 Soil 29 Mar 2018 TP054-0.0-0.3
Gravimetric Determination of Asbestos in Soil Method: AN605 Tested: 9/4/2018							
Total Sample Weight*	g	1		**778**	**670**	**736**	**694**
ACM in >7mm Sample*	g	0.01		<0.01	<0.01	<0.01	<0.01
AF/FA in >2mm to <7mm Sample*	g	0.0001		<0.0001	<0.0001	<0.0001	<0.0001
AF/FA in <2mm Sample*	g	0.0001		<0.0001	<0.0001	<0.0001	<0.0001
Asbestos in soil (>7mm ACM)*	%w/w	0.01		<0.01	<0.01	<0.01	<0.01
Asbestos in soil (>2mm to <7mm AF/FA)*	%w/w	0.001		<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<2mm AF/FA)*	%w/w	0.001		<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<7mm AF/FA)*	%w/w	0.001		<0.001	<0.001	<0.001	<0.001
Fibre Type*	No unit	-		NAD	NAD	NAD	NAD
Fibre ID in bulk materials Method: AN602 Tested: 13/4/2018							
FibreID							
Asbestos Detected	No unit	-		-	-	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	SE177465.017 Soil 29 Mar 2018 TP022-0.0-0.4	SE177465.018 Soil 29 Mar 2018 TP144-0.0-0.3	SE177465.019 Soil 29 Mar 2018 TP012-0.0-1.0	SE177465.020 Soil 29 Mar 2018 TP003-0.0-0.6
Gravimetric Determination of Asbestos in Soil Method: AN605 Tested: 9/4/2018							
Total Sample Weight*	g	1		**784**	**815**	**811**	**800**
ACM in >7mm Sample*	g	0.01		<0.01	<0.01	<0.01	<0.01
AF/FA in >2mm to <7mm Sample*	g	0.0001		<0.0001	<0.0001	**0.0533**	<0.0001
AF/FA in <2mm Sample*	g	0.0001		<0.0001	<0.0001	<0.0001	<0.0001
Asbestos in soil (>7mm ACM)*	%w/w	0.01		<0.01	<0.01	<0.01	<0.01
Asbestos in soil (>2mm to <7mm AF/FA)*	%w/w	0.001		<0.001	<0.001	**0.007**	<0.001
Asbestos in soil (<2mm AF/FA)*	%w/w	0.001		<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<7mm AF/FA)*	%w/w	0.001		<0.001	<0.001	**0.007**	<0.001
Fibre Type*	No unit	-		NAD	NAD	AMO	NAD
Fibre ID in bulk materials Method: AN602 Tested: 13/4/2018							
FibreID							
Asbestos Detected	No unit	-		-	-	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	SE177465.021 Soil 29 Mar 2018 TP011-0.0-1.0	SE177465.022 Soil 29 Mar 2018 TP014-0.0-0.3	SE177465.023 Soil 29 Mar 2018 TP023-0.0-0.3	SE177465.024 Soil 29 Mar 2018 TP013-0.0-0.5
Gravimetric Determination of Asbestos in Soil Method: AN605 Tested: 9/4/2018							
Total Sample Weight*	g	1		**735**	**845**	**679**	**748**
ACM in >7mm Sample*	g	0.01		<0.01	<0.01	<0.01	<0.01
AF/FA in >2mm to <7mm Sample*	g	0.0001		<0.0001	<0.0001	<0.0001	<0.0001
AF/FA in <2mm Sample*	g	0.0001		<0.0001	<0.0001	<0.0001	<0.0001
Asbestos in soil (>7mm ACM)*	%w/w	0.01		<0.01	<0.01	<0.01	<0.01
Asbestos in soil (>2mm to <7mm AF/FA)*	%w/w	0.001		<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<2mm AF/FA)*	%w/w	0.001		<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<7mm AF/FA)*	%w/w	0.001		<0.001	<0.001	<0.001	<0.001
Fibre Type*	No unit	-		NAD	NAD	NAD	NAD
Fibre ID in bulk materials Method: AN602 Tested: 13/4/2018							
FibreID							
Asbestos Detected	No unit	-		-	-	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	SE177465.025 Soil 29 Mar 2018 TP026-0.0-0.3	SE177465.026 Soil 29 Mar 2018 TP090-0.0-0.3	SE177465.027 Soil 29 Mar 2018 TP010-0.0-0.5	SE177465.028 Soil 29 Mar 2018 TP133-0.0-0.3
Gravimetric Determination of Asbestos in Soil Method: AN605 Tested: 9/4/2018							
Total Sample Weight*	g	1		**762**	**693**	**820**	**668**
ACM in >7mm Sample*	g	0.01		<0.01	<0.01	<0.01	<0.01
AF/FA in >2mm to <7mm Sample*	g	0.0001		<0.0001	<0.0001	<0.0001	<0.0001
AF/FA in <2mm Sample*	g	0.0001		<0.0001	<0.0001	<0.0001	<0.0001
Asbestos in soil (>7mm ACM)*	%w/w	0.01		<0.01	<0.01	<0.01	<0.01
Asbestos in soil (>2mm to <7mm AF/FA)*	%w/w	0.001		<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<2mm AF/FA)*	%w/w	0.001		<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<7mm AF/FA)*	%w/w	0.001		<0.001	<0.001	<0.001	<0.001
Fibre Type*	No unit	-		NAD	NAD	NAD	NAD
Fibre ID in bulk materials Method: AN602 Tested: 13/4/2018							
FibreID							
Asbestos Detected	No unit	-		-	-	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	SE177465.029 Soil 29 Mar 2018 TP021-0.0-0.4	SE177465.030 Soil 29 Mar 2018 TP131-0.0-0.3	SE177465.031 Soil 29 Mar 2018 TP007-0.0-0.4	SE177465.032 Soil 29 Mar 2018 TP125-0.0-0.4
Gravimetric Determination of Asbestos in Soil Method: AN605 Tested: 9/4/2018							
Total Sample Weight*	g	1		**800**	**730**	**722**	**785**
ACM in >7mm Sample*	g	0.01		<0.01	<0.01	<0.01	<0.01
AF/FA in >2mm to <7mm Sample*	g	0.0001		<0.0001	<0.0001	<0.0001	<0.0001
AF/FA in <2mm Sample*	g	0.0001		<0.0001	<0.0001	<0.0001	<0.0001
Asbestos in soil (>7mm ACM)*	%w/w	0.01		<0.01	<0.01	<0.01	<0.01
Asbestos in soil (>2mm to <7mm AF/FA)*	%w/w	0.001		<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<2mm AF/FA)*	%w/w	0.001		<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<7mm AF/FA)*	%w/w	0.001		<0.001	<0.001	<0.001	<0.001
Fibre Type*	No unit	-		NAD	NAD	NAD	NAD
Fibre ID in bulk materials Method: AN602 Tested: 13/4/2018							
FibreID							
Asbestos Detected	No unit	-		-	-	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	SE177465.033 Soil 29 Mar 2018 TP138-0.0-0.4	SE177465.034 Soil 29 Mar 2018 TP040-0.0-0.4	SE177465.035 Soil 29 Mar 2018 TP001-0.0-0.6	SE177465.036 Soil 29 Mar 2018 TP055-0.0-0.4
Gravimetric Determination of Asbestos in Soil Method: AN605 Tested: 9/4/2018							
Total Sample Weight*	g	1		**809**	**713**	**798**	**898**
ACM in >7mm Sample*	g	0.01		<0.01	<0.01	<0.01	<0.01
AF/FA in >2mm to <7mm Sample*	g	0.0001		<0.0001	<0.0001	<0.0001	<0.0001
AF/FA in <2mm Sample*	g	0.0001		<0.0001	<0.0001	<0.0001	<0.0001
Asbestos in soil (>7mm ACM)*	%w/w	0.01		<0.01	<0.01	<0.01	<0.01
Asbestos in soil (>2mm to <7mm AF/FA)*	%w/w	0.001		<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<2mm AF/FA)*	%w/w	0.001		<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<7mm AF/FA)*	%w/w	0.001		<0.001	<0.001	<0.001	<0.001
Fibre Type*	No unit	-		NAD	NAD	NAD	NAD
Fibre ID in bulk materials Method: AN602 Tested: 13/4/2018							
FibreID							
Asbestos Detected	No unit	-		-	-	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	SE177465.037 Soil 29 Mar 2018 TP018-0.0-0.5	SE177465.038 Soil 29 Mar 2018 TP088-0.0-0.3	SE177465.039 Soil 29 Mar 2018 TP042-0.0-0.3	SE177465.040 Soil 29 Mar 2018 TP020-0.0-0.4
Gravimetric Determination of Asbestos in Soil Method: AN605 Tested: 9/4/2018							
Total Sample Weight*	g	1		**748**	**792**	**772**	**811**
ACM in >7mm Sample*	g	0.01		<0.01	<0.01	<0.01	<0.01
AF/FA in >2mm to <7mm Sample*	g	0.0001		<0.0001	<0.0001	<0.0001	<0.0001
AF/FA in <2mm Sample*	g	0.0001		<0.0001	<0.0001	<0.0001	<0.0001
Asbestos in soil (>7mm ACM)*	%w/w	0.01		<0.01	<0.01	<0.01	<0.01
Asbestos in soil (>2mm to <7mm AF/FA)*	%w/w	0.001		<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<2mm AF/FA)*	%w/w	0.001		<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<7mm AF/FA)*	%w/w	0.001		<0.001	<0.001	<0.001	<0.001
Fibre Type*	No unit	-		NAD	NAD	NAD	NAD
Fibre ID in bulk materials Method: AN602 Tested: 13/4/2018							
FibreID							
Asbestos Detected	No unit	-		-	-	-	-

Parameter	Units	LOR	Sample Number: SE177465.041 Sample Matrix: Soil Sample Date: 29 Mar 2018 Sample Name: TP006-0.0-0.4	SE177465.042 Material 29 Mar 2018 TP129-0.0-0.3	SE177465.043 Soil 29 Mar 2018 TP129-0.0-0.3 FCP	SE177465.044 Soil 29 Mar 2018 TP134-0.0-0.3
Gravimetric Determination of Asbestos in Soil Method: AN605 Tested: 9/4/2018						
Total Sample Weight*	g	1	**701**	**783**	-	**708**
ACM in >7mm Sample*	g	0.01	<0.01	<0.01	-	<0.01
AF/FA in >2mm to <7mm Sample*	g	0.0001	<0.0001	**0.0242**	-	<0.0001
AF/FA in <2mm Sample*	g	0.0001	<0.0001	<0.0001	-	<0.0001
Asbestos in soil (>7mm ACM)*	%w/w	0.01	<0.01	<0.01	-	<0.01
Asbestos in soil (>2mm to <7mm AF/FA)*	%w/w	0.001	<0.001	**0.003**	-	<0.001
Asbestos in soil (<2mm AF/FA)*	%w/w	0.001	<0.001	<0.001	-	<0.001
Asbestos in soil (<7mm AF/FA)*	%w/w	0.001	<0.001	**0.003**	-	<0.001
Fibre Type*	No unit	-	NAD	CRY	-	NAD
Fibre ID in bulk materials Method: AN602 Tested: 13/4/2018						
FibreID						
Asbestos Detected	No unit	-	-	-	Yes	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	SE177465.045 Soil 29 Mar 2018 TP106-0.0-0.3	SE177465.046 Soil 29 Mar 2018 TP019-0.0-0.4	SE177465.047 Soil 29 Mar 2018 TP130-0.0-0.3	SE177465.048 Soil 29 Mar 2018 TP039-0.0-0.2
Gravimetric Determination of Asbestos in Soil Method: AN605 Tested: 9/4/2018							
Total Sample Weight*	g	1		**829**	**696**	**705**	**682**
ACM in >7mm Sample*	g	0.01		<0.01	<0.01	<0.01	<0.01
AF/FA in >2mm to <7mm Sample*	g	0.0001		<0.0001	<0.0001	<0.0001	<0.0001
AF/FA in <2mm Sample*	g	0.0001		<0.0001	<0.0001	<0.0001	<0.0001
Asbestos in soil (>7mm ACM)*	%w/w	0.01		<0.01	<0.01	<0.01	<0.01
Asbestos in soil (>2mm to <7mm AF/FA)*	%w/w	0.001		<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<2mm AF/FA)*	%w/w	0.001		<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<7mm AF/FA)*	%w/w	0.001		<0.001	<0.001	<0.001	<0.001
Fibre Type*	No unit	-		NAD	NAD	NAD	NAD
Fibre ID in bulk materials Method: AN602 Tested: 13/4/2018							
FibreID							
Asbestos Detected	No unit	-		-	-	-	-

Parameter	Units	LOR	Sample Number: SE177465.049 Sample Matrix: Soil Sample Date: 29 Mar 2018 Sample Name: TP002-1.0-1.2	SE177465.050 Soil 29 Mar 2018 TP120-0.0-0.3	SE177465.051 Material 29 Mar 2018 TP120-0.0-0.3 FCP	SE177465.052 Soil 29 Mar 2018 TP043-0.0-0.5
Gravimetric Determination of Asbestos in Soil Method: AN605 Tested: 9/4/2018						
Total Sample Weight*	g	1	**714**	**797**	-	**679**
ACM in >7mm Sample*	g	0.01	<0.01	<0.01	-	<0.01
AF/FA in >2mm to <7mm Sample*	g	0.0001	<0.0001	<0.0001	-	<0.0001
AF/FA in <2mm Sample*	g	0.0001	<0.0001	<0.0001	-	<0.0001
Asbestos in soil (>7mm ACM)*	%w/w	0.01	<0.01	<0.01	-	<0.01
Asbestos in soil (>2mm to <7mm AF/FA)*	%w/w	0.001	<0.001	<0.001	-	<0.001
Asbestos in soil (<2mm AF/FA)*	%w/w	0.001	<0.001	<0.001	-	<0.001
Asbestos in soil (<7mm AF/FA)*	%w/w	0.001	<0.001	<0.001	-	<0.001
Fibre Type*	No unit	-	NAD	NAD	-	NAD
Fibre ID in bulk materials Method: AN602 Tested: 13/4/2018						
FibreID						
Asbestos Detected	No unit	-	-	-	Yes	-

Parameter	Units	LOR	Sample Number: SE177465.053 Sample Matrix: Material Sample Date: 29 Mar 2018 Sample Name: TP043-0.0-0.5 FCP	SE177465.054 Soil 29 Mar 2018 TP011-1.0-1.4	SE177465.055 Soil 29 Mar 2018 TP102-0.0-0.2	SE177465.056 Soil 29 Mar 2018 TP016-0.0-1.0
Gravimetric Determination of Asbestos in Soil Method: AN605 Tested: 13/4/2018						
Total Sample Weight*	g	1	-	**633**	**826**	**702**
ACM in >7mm Sample*	g	0.01	-	<0.01	<0.01	<0.01
AF/FA in >2mm to <7mm Sample*	g	0.0001	-	<0.0001	<0.0001	<0.0001
AF/FA in <2mm Sample*	g	0.0001	-	<0.0001	<0.0001	<0.0001
Asbestos in soil (>7mm ACM)*	%w/w	0.01	-	<0.01	<0.01	<0.01
Asbestos in soil (>2mm to <7mm AF/FA)*	%w/w	0.001	-	<0.001	<0.001	<0.001
Asbestos in soil (<2mm AF/FA)*	%w/w	0.001	-	<0.001	<0.001	<0.001
Asbestos in soil (<7mm AF/FA)*	%w/w	0.001	-	<0.001	<0.001	<0.001
Fibre Type*	No unit	-	-	NAD	NAD	NAD
Fibre ID in bulk materials Method: AN602 Tested: 13/4/2018						
FibreID						
Asbestos Detected	No unit	-	Yes	-	-	-

Parameter	Units	LOR	Sample Number: SE177465.057 Sample Matrix: Soil Sample Date: 29 Mar 2018 Sample Name: TP113-0.0-0.2	SE177465.058 Soil 29 Mar 2018 TP015-0.0-0.3	SE177465.059 Material 29 Mar 2018 TP015-0.0-0.3 FCP	SE177465.060 Soil 29 Mar 2018 TP025-0.0-0.9
Gravimetric Determination of Asbestos in Soil Method: AN605 Tested: 9/4/2018						
Total Sample Weight*	g	1	**831**	**760**	-	**815**
ACM in >7mm Sample*	g	0.01	<0.01	<0.01	-	<0.01
AF/FA in >2mm to <7mm Sample*	g	0.0001	<0.0001	<0.0001	-	<0.0001
AF/FA in <2mm Sample*	g	0.0001	<0.0001	<0.0001	-	<0.0001
Asbestos in soil (>7mm ACM)*	%w/w	0.01	<0.01	<0.01	-	<0.01
Asbestos in soil (>2mm to <7mm AF/FA)*	%w/w	0.001	<0.001	<0.001	-	<0.001
Asbestos in soil (<2mm AF/FA)*	%w/w	0.001	<0.001	<0.001	-	<0.001
Asbestos in soil (<7mm AF/FA)*	%w/w	0.001	<0.001	<0.001	-	<0.001
Fibre Type*	No unit	-	NAD	NAD	-	NAD
Fibre ID in bulk materials Method: AN602 Tested: 13/4/2018						
FibreID						
Asbestos Detected	No unit	-	-	-	Yes	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	SE177465.061 Soil 29 Mar 2018 TP137-0.0-0.3	SE177465.062 Soil 29 Mar 2018 TP103-0.0-0.3	SE177465.063 Soil 29 Mar 2018 TP136-0.0-0.3	SE177465.064 Soil 29 Mar 2018 TP030-0.0-0.3
Gravimetric Determination of Asbestos in Soil Method: AN605 Tested: 9/4/2018							
Total Sample Weight*	g	1		**890**	**939**	**843**	**655**
ACM in >7mm Sample*	g	0.01		<0.01	<0.01	<0.01	<0.01
AF/FA in >2mm to <7mm Sample*	g	0.0001		<0.0001	<0.0001	<0.0001	<0.0001
AF/FA in <2mm Sample*	g	0.0001		<0.0001	<0.0001	<0.0001	<0.0001
Asbestos in soil (>7mm ACM)*	%w/w	0.01		<0.01	<0.01	<0.01	<0.01
Asbestos in soil (>2mm to <7mm AF/FA)*	%w/w	0.001		<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<2mm AF/FA)*	%w/w	0.001		<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<7mm AF/FA)*	%w/w	0.001		<0.001	<0.001	<0.001	<0.001
Fibre Type*	No unit	-		NAD	NAD	NAD	NAD
Fibre ID in bulk materials Method: AN602 Tested: 13/4/2018							
FibreID							
Asbestos Detected	No unit	-		-	-	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	SE177465.065 Soil 29 Mar 2018 TP112-0-0.3	SE177465.066 Soil 29 Mar 2018 TP002-0-1.0	SE177465.067 Soil 29 Mar 2018 TP008-0-0.4	SE177465.068 Soil 29 Mar 2018 TP092-0.0-0.5
Gravimetric Determination of Asbestos in Soil Method: AN605 Tested: 9/4/2018							
Total Sample Weight*	g	1		**742**	**744**	**720**	**720**
ACM in >7mm Sample*	g	0.01		<0.01	<0.01	<0.01	<0.01
AF/FA in >2mm to <7mm Sample*	g	0.0001		<0.0001	<0.0001	<0.0001	<0.0001
AF/FA in <2mm Sample*	g	0.0001		<0.0001	<0.0001	<0.0001	<0.0001
Asbestos in soil (>7mm ACM)*	%w/w	0.01		<0.01	<0.01	<0.01	<0.01
Asbestos in soil (>2mm to <7mm AF/FA)*	%w/w	0.001		<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<2mm AF/FA)*	%w/w	0.001		<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<7mm AF/FA)*	%w/w	0.001		<0.001	<0.001	<0.001	<0.001
Fibre Type*	No unit	-		NAD	NAD	NAD	NAD
Fibre ID in bulk materials Method: AN602 Tested: 13/4/2018							
FibreID							
Asbestos Detected	No unit	-		-	-	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	SE177465.069 Soil 29 Mar 2018 TP132-0-0.3	SE177465.070 Material 29 Mar 2018 TP132-0.0-0.3 FCP	SE177465.071 Soil 29 Mar 2018 TP139-0.0-0.3	SE177465.072 Soil 29 Mar 2018 TP145-0.0-0.3
Gravimetric Determination of Asbestos in Soil Method: AN605 Tested: 9/4/2018							
Total Sample Weight*	g	1		**704**	-	**636**	**776**
ACM in >7mm Sample*	g	0.01		<0.01	-	<0.01	<0.01
AF/FA in >2mm to <7mm Sample*	g	0.0001		<0.0001	-	<0.0001	<0.0001
AF/FA in <2mm Sample*	g	0.0001		<0.0001	-	<0.0001	<0.0001
Asbestos in soil (>7mm ACM)*	%w/w	0.01		<0.01	-	<0.01	<0.01
Asbestos in soil (>2mm to <7mm AF/FA)*	%w/w	0.001		<0.001	-	<0.001	<0.001
Asbestos in soil (<2mm AF/FA)*	%w/w	0.001		<0.001	-	<0.001	<0.001
Asbestos in soil (<7mm AF/FA)*	%w/w	0.001		<0.001	-	<0.001	<0.001
Fibre Type*	No unit	-		NAD	-	NAD	NAD
Fibre ID in bulk materials Method: AN602 Tested: 13/4/2018							
FibreID							
Asbestos Detected	No unit	-		-	Yes	-	-

QC SUMMARY

MB blank results are compared to the Limit of Reporting
LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.
DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula : *the absolute difference of the two results divided by the average of the two results as a percentage*. Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

No QC samples were reported for this job.

METHOD SUMMARY

METHOD	METHODOLOGY SUMMARY
AN602	Qualitative identification of chrysotile, amosite and crocidolite in bulk samples by polarised light microscopy (PLM) in conjunction with dispersion staining (DS). AS4964 provides the basis for this document. Unequivocal identification of the asbestos minerals present is made by obtaining sufficient diagnostic `clues`, which provide a reasonable degree of certainty, dispersion staining is a mandatory `clue` for positive identification. If sufficient `clues` are absent, then positive identification of asbestos is not possible. This procedure requires removal of suspect fibres/bundles from the sample which cannot be returned.
AN602	Fibres/material that cannot be unequivocably identified as one of the three asbestos forms, will be reported as unknown mineral fibres (umf). The fibres detected may or may not be asbestos fibres.
AN605	This technique gravimetrically determines the mass of Asbestos Containing Material retained on a 7mm Sieve and assumes that 15% of this ACM is asbestos. This calculated asbestos weight is then calculated as a percentage of the total sample weight.
AN605	This technique also gravimetrically determines the mass of Fibrous Asbestos (FA) and Asbestos Fines (AF) Containing Material retained on and passing a 2mm sieve post 7mm sieving. Assumes that FA and AF are 100% asbestos containing. This calculated asbestos weight is then calculated as a percentage of the total sample weight. This does not include free fibres which are only observed by standard trace analysis as per AN 602.
AN605	AMO = Amosite Detected CRY = Chrysotile Detected CRO = Crocidolite Detected ORG = Organic Fibres Detected SMF = Synthetic Mineral Fibres Detected UMF = Unknown Mineral Fibres Detected NAD = No Asbestos Detected
AN605	Insofar as is technically feasible, this report is consistent with the analytical reporting recommendations in the Western Australian Department of Health Guidelines for the Assessment Remediation and Management of Asbestos - Contaminated Sites in Western Australia - May 2009.

FOOTNOTES

IS	Insufficient sample for analysis.	LOR	Limit of Reporting
LNR	Sample listed, but not received.	↑↓	Raised or Lowered Limit of Reporting
*	NATA accreditation does not cover the performance of this service.	QFH	QC result is above the upper tolerance
		QFL	QC result is below the lower tolerance
**	Indicative data, theoretical holding time exceeded.	-	The sample was not analysed for this analyte
		NVL	Not Validated

Samples analysed as received.
Solid samples expressed on a dry weight basis.

Where "Total" analyte groups are reported (for example, Total PAHs, Total OC Pesticides) the total will be calculated as the sum of the individual analytes, with those analytes that are reported as <LOR being assumed to be zero. The summed (Total) limit of reporting is calcuated by summing the individual analyte LORs and dividing by two. For example, where 16 individual analytes are being summed and each has an LOR of 0.1 mg/kg, the "Totals" LOR will be 1.6 / 2 (0.8 mg/kg). Where only 2 analytes are being summed, the " Total" LOR will be the sum of those two LORs.

Some totals may not appear to add up because the total is rounded after adding up the raw values.

If reported, measurement uncertainty follow the ± sign after the analytical result and is expressed as the expanded uncertainty calculated using a coverage factor of 2, providing a level of confidence of approximately 95%, unless stated otherwise in the comments section of this report.

Results reported for samples tested under test methods with codes starting with ARS-SOP, radionuclide or gross radioactivity concentrations are expressed in becquerel (Bq) per unit of mass or volume or per wipe as stated on the report. Becquerel is the SI unit for activity and equals one nuclear transformation per second.
Note that in terms of units of radioactivity:

a. 1 Bq is equivalent to 27 pCi
b. 37 MBq is equivalent to 1 mCi

For results reported for samples tested under test methods with codes starting with ARS-SOP, less than (<) values indicate the detection limit for each radionuclide or parameter for the measurement system used. The respective detection limits have been calculated in accordance with ISO 11929.

The QC criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here : http://www.sgs.com.au/~/media/Local/Australia/Documents/ Technical%20Documents/MP-AU-ENV-QU-022%20QA%20QC%20Plan.pdf

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.

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ANALYTICAL REPORT

Accreditation No. 2562

CLIENT DETAILS

Contact	Craig Cowper
Client	ALLIANCE GEOTECHNICAL PTY LTD
Address	10 Welder Road Seven Hills NSW 2147
Telephone	0407 989 885
Facsimile	02 9675 1888
Email	c.cowper@allgeo.com.au
Project	**6930 Austral**
Order Number	**P1025**
Samples	5

LABORATORY DETAILS

Manager	Huong Crawford
Laboratory	SGS Alexandria Environmental
Address	Unit 16, 33 Maddox St Alexandria NSW 2015
Telephone	+61 2 8594 0400
Facsimile	+61 2 8594 0499
Email	au.environmental.sydney@sgs.com
SGS Reference	**SE177465 R0**
Date Received	03 Apr 2018
Date Reported	13 Apr 2018

COMMENTS

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

No respirable fibres detected in soil samples using trace analysis technique as per AS 4964-2004.

Sample # 19 : Asbestos found in spongy fibrous material in >2 to <7mm fraction.
Sample # 42 : Asbestos found in cement sheet fragment in >2 to <7mm fraction.

Asbestos analysed by approved identifiers Ravee Sivasubramaniam.

SIGNATORIES

Ravee Sivasubramaniam
Hygiene Team Leader

ANALYTICAL REPORT

SE177465 R0

RESULTS

Fibre ID in bulk materials — Method AN602

Laboratory Reference	Client Reference	Matrix	Sample Description	Date Sampled	Fibre Identification	Est.%w/w*
SE177465.043	TP129-0.0-0.3 FCP	Soil	Clay,Sand,Soil	29 Mar 2018	Amosite & Chrysotile Asbestos Detected	
SE177465.051	TP120-0.0-0.3 FCP	Other	40x20x4mm cement sheet fragment	29 Mar 2018	Chrysotile Asbestos Detected	
SE177465.053	TP043-0.0-0.5 FCP	Other	170g cement sheet fragments	29 Mar 2018	Chrysotile Asbestos Detected	
SE177465.059	TP015-0.0-0.3 FCP	Other	60x60x5mm cement sheet fragments	29 Mar 2018	Chrysotile Asbestos Detected	
SE177465.070	TP132-0.0-0.3 FCP	Other	40x35x4mm cement sheet fragment	29 Mar 2018	Amosite & Chrysotile Asbestos Detected	

METHOD SUMMARY

METHOD	METHODOLOGY SUMMARY
AN602	Qualitative identification of chrysotile, amosite and crocidolite in bulk samples by polarised light microscopy (PLM) in conjunction with dispersion staining (DS). AS4964 provides the basis for this document. Unequivocal identification of the asbestos minerals present is made by obtaining sufficient diagnostic `clues`, which provide a reasonable degree of certainty, dispersion staining is a mandatory `clue` for positive identification. If sufficient `clues` are absent, then positive identification of asbestos is not possible. This procedure requires removal of suspect fibres/bundles from the sample which cannot be returned.
AN602	Fibres/material that cannot be unequivocably identified as one of the three asbestos forms, will be reported as unknown mineral fibres (umf). The fibres detected may or may not be asbestos fibres.

FOOTNOTES

Amosite	-	Brown Asbestos	NA	-	Not Analysed
Chrysotile	-	White Asbestos	LNR	-	Listed, Not Required
Crocidolite	-	Blue Asbestos	*	-	NATA accreditation does not cover the performance of this service.
Amphiboles	-	Amosite and/or Crocidolite	**	-	Indicative data, theoretical holding time exceeded.

(In reference to soil samples only) This report does not comply with the analytical reporting recommendations in the Western Australian Department of Health Guidelines for the Assessment and Remediation and Management of Asbestos Contaminated sites in Western Australia - May 2009.

Sampled by the client.

Where reported: 'Asbestos Detected': Asbestos detected by polarised light microscopy, including dispersion staining.
Where reported: 'No Asbestos Found': No Asbestos Found by polarised light microscopy, including dispersion staining.
Where reported: 'UMF Detected': Mineral fibres of unknown type detected by polarised light microscopy, including dispersion staining. Confirmation by another independent analytical technique may be necessary.

Even after disintegration it can be very difficult, or impossible, to detect the presence of asbestos in some asbestos-containing bulk materials using polarised light microscopy. This is due to the low grade or small length or diameter of asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials.

The QC criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: http://www.sgs.com.au/~/media/Local/Australia/Documents/Technical%20Documents/MP-AU-ENV-QU-022%20QA%20QC%20Plan.pdf

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SAMPLE RECEIPT ADVICE

SE177465

CLIENT DETAILS

Contact	Craig Cowper
Client	ALLIANCE GEOTECHNICAL PTY LTD
Address	10 Welder Road Seven Hills NSW 2147
Telephone	0407 989 885
Facsimile	02 9675 1888
Email	c.cowper@allgeo.com.au
Project	**6930 Austral**
Order Number	**P1025**
Samples	72

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	Tue 3/4/2018
Report Due	Thu 12/4/2018
SGS Reference	**SE177465**

SUBMISSION DETAILS

This is to confirm that 72 samples were received on Tuesday 3/4/2018. Results are expected to be ready by COB Thursday 12/4/2018. Please quote SGS reference SE177465 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	None
Samples received in correct containers	Yes	Sample counts by matrix	67 Soils, 5 materials
Date documentation received	3/4/2018	Type of documentation received	COC
Samples received in good order	Yes	Samples received without headspace	Yes
Sample temperature upon receipt	22°C	Sufficient sample for analysis	Yes
Turnaround time requested	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

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SAMPLE RECEIPT ADVICE

SE177465

CLIENT DETAILS

Client ALLIANCE GEOTECHNICAL PTY LTD

Project 6930 Austral

SUMMARY OF ANALYSIS

No.	Sample ID	Gravimetric Determination of Asbestos in Soil
001	TP093-0.0-0.4	9
002	TP122-0.0-0.3	9
003	TP107-0.0-0.2	9
004	TP127-0.0-0.3	9
005	TP041-0.0-0.7	9
006	TP115-0.0-0.3	9
007	TP004-0.0-0.3	9
008	TP148-0.0-0.3	9
009	TP117-0.0-0.2	9
010	TP105-0.0-0.2	9
011	TP029-0.0-0.4	9
012	TP091-0.0-0.4	9
013	TP123-0.0-0.4	9
014	TP028-0.0-0.35	9
015	TP009-0.0-0.2	9
016	TP054-0.0-0.3	9
017	TP022-0.0-0.4	9
018	TP144-0.0-0.3	9
019	TP012-0.0-1.0	9
020	TP003-0.0-0.6	9
021	TP011-0.0-1.0	9
022	TP014-0.0-0.3	9
023	TP023-0.0-0.3	9
024	TP013-0.0-0.5	9

CONTINUED OVERLEAF

The above table represents SGS' interpretation of the client-supplied Chain Of Custody document.
The numbers shown in the table indicate the number of results requested in each package.
Please indicate as soon as possible should your request differ from these details .
Testing as per this table shall commence immediately unless the client intervenes with a correction .

SAMPLE RECEIPT ADVICE

SE177465

CLIENT DETAILS

Client ALLIANCE GEOTECHNICAL PTY LTD

Project 6930 Austral

SUMMARY OF ANALYSIS

No.	Sample ID	Fibre ID in bulk materials	Gravimetric Determination of Asbestos in Soil
025	TP026-0.0-0.3	-	9
026	TP090-0.0-0.3	-	9
027	TP010-0.0-0.5	-	9
028	TP133-0.0-0.3	-	9
029	TP021-0.0-0.4	-	9
030	TP131-0.0-0.3	-	9
031	TP007-0.0-0.4	-	9
032	TP125-0.0-0.4	-	9
033	TP138-0.0-0.4	-	9
034	TP040-0.0-0.4	-	9
035	TP001-0.0-0.6	-	9
036	TP055-0.0-0.4	-	9
037	TP018-0.0-0.5	-	9
038	TP088-0.0-0.3	-	9
039	TP042-0.0-0.3	-	9
040	TP020-0.0-0.4	-	9
041	TP006-0.0-0.4	-	9
042	TP129-0.0-0.3	-	9
043	TP129-0.0-0.3 FCP	1	-
044	TP134-0.0-0.3	-	9
045	TP106-0.0-0.3	-	9
046	TP019-0.0-0.4	-	9
047	TP130-0.0-0.3	-	9
048	TP039-0.0-0.2	-	9

CONTINUED OVERLEAF

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SAMPLE RECEIPT ADVICE

SE177465

CLIENT DETAILS

Client ALLIANCE GEOTECHNICAL PTY LTD

Project 6930 Austral

SUMMARY OF ANALYSIS

No.	Sample ID	Fibre ID in bulk materials	Gravimetric Determination of Asbestos in Soil
049	TP002-1.0-1.2	-	9
050	TP120-0.0-0.3	-	9
051	TP120-0.0-0.3 FCP	1	-
052	TP043-0.0-0.5	-	9
053	TP043-0.0-0.5 FCP	1	-
054	TP011-1.0-1.4	-	9
055	TP102-0.0-0.2	-	9
056	TP016-0.0-1.0	-	9
057	TP113-0.0-0.2	-	9
058	TP015-0.0-0.3	-	9
059	TP015-0.0-0.3 FCP	1	-
060	TP025-0.0-0.9	-	9
061	TP137-0.0-0.3	-	9
062	TP103-0.0-0.3	-	9
063	TP136-0.0-0.3	-	9
064	TP030-0.0-0.3	-	9
065	TP112-0-0.3	-	9
066	TP002-0-1.0	-	9
067	TP008-0-0.4	-	9
068	TP092-0.0-0.5	-	9
069	TP132-0-0.3	-	9
070	TP132-0.0-0.3 FCP	1	-
071	TP139-0.0-0.3	-	9
072	TP145-0.0-0.3	-	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 .

source: ALX_EHS_OFFICE_X585_20180404105801.pdf page: 1 SGS Ref: SE177465_COC

CHAIN OF CUSTODY & ANALYSIS REQUEST

Page 1 of 8

SGS Environmental Services
Unit 16, 33 Maddox Street
Alexandria NSW 2015
Telephone No: (02) 85940400
Facsimile No: (02) 85940499
Email: au.samplereceipt.sydney@sgs.com

Company Name: Alliance Geotechnical
Address: 10 Welder Road,
Seven Hills NSW
Contact Name: Craig Cowper

Project Name/No: 6930 AUSTRAL
Purchase Order No: ~~N/A~~ P1025
Results Required By: 5 day
Telephone: 1800 288 188
Facsimile: N/A
Email Results: enviro@allgeo.com.au

Client Sample ID	Date Sampled	Lab Sample ID	WATER	SOIL	PRESERVATIVE	NO OF CONTAINERS	ENM Suite (no FM)	Asbestos I.D	Field Screen – pHf / nHfnx	Chromium Suite	Metals	PAH	OCP/OPP	Asbestos 0.001%								
TP093-0.0-0.4	29-3-18	1		X		1								X								
TP122-00-0.3		2		X		1								X								
TP107-0.0-0.1		3		X		1								X								
TP127-00-0.3		4		X		1								X								
TP041-0.0-0.1		5		X		1								X								
TP115-00-0.3		6		X		1								X								
TP004-00-0.3		7		X		1								X								
TP148-0.0-0.3		8		X		1								X								
TP117-0.0-0.2		9		X		1								X								

SGS EHS Alexandria Laboratory
SE177465 COC
Received: 03 – Apr – 2018

Relinquished By:	Date/Time: 03/04/18 @ 0830	Received By: EA	Date/Time 3-4-18 4.30
Relinquished By:	Date/Time:	Received By:	Date/Time
Samples Intact: Yes/No	Temperature: Ambient / Chilled	Sample Cooler Sealed: Yes/ No	Laboratory Quotation No:
	Comments:		$50 / sample Quote 16/03/18

CHAIN OF CUSTODY & ANALYSIS REQUEST

SGS Environmental Services
Unit 16, 33 Maddox Street
Alexandria NSW 2015
Telephone No: (02) 85940400
Facsimile No: (02) 85940499
Email: au.samplereceipt.sydney@sgs.com

Company Name:	Alliance Geotechnical	Project Name/No:	6930 AUSTRAL
Address:	10 Welder Road,	Purchase Order No:	~~STA~~ P1025
	Seven Hills NSW	Results Required By:	5 day
		Telephone:	1800 288 188
Contact Name:	Craig Cowper	Facsimile:	N/A
		Email Results:	enviro@allgeo.com.au

Client Sample ID	Date Sampled	Lab Sample ID	WATER	SOIL	PRESERVATIVE	NO OF CONTAINERS	ENM Suite (no FM)	Asbestos I.D	Field Screen – pHf / pHfox	Chromium Suite	Metals	PAH	OCP/OPP	Asbestos 0.001%								
TP105-0.0-0.2	29-3-18	10		X		1								X								
TP029-0.0-0.4		11		X		1								X								
TP091-0.0-0.4		12		X		1								X								
TP123-0.0-0.4		13		X		1								X								
TP028 0.0-0.35		14		X		1								X								
TP009-0.0-0.2		15		X		1								X								
TP054-0.0-0.3		16		X		1								X								
TP022-0.0-0.4		17		X		1								X								
TP144-0.0-0.3		18		X		1								X								

Relinquished By:		Date/Time: 03/04/18 @ 0830	Received By: EA	Date/Time 3-4-18 @ 430
Relinquished By:		Date/Time:	Received By:	Date/Time
Samples Intact: (Yes/ No)		Temperature: (Ambient / Chilled)	Sample Cooler Sealed: Yes/ No	Laboratory Quotation No:
		Comments:		

CHAIN OF CUSTODY & ANALYSIS REQUEST

SGS Environmental Services
Unit 16, 33 Maddox Street
Alexandria NSW 2015
Telephone No: (02) 85940400
Facsimile No: (02) 85940499
Email: au.samplereceipt.sydney@sgs.com

Company Name:	Alliance Geotechnical	Project Name/No:	6930 AUSTRAL
Address:	10 Welder Road,	Purchase Order No:	~~N/A~~ P1025
	Seven Hills NSW	Results Required By:	5 day
		Telephone:	1800 288 188
Contact Name:	Craig Cowper	Facsimile:	N/A
		Email Results:	enviro@allgeo.com.au

Client Sample ID	Date Sampled	Lab Sample ID	WATER	SOIL	PRESERVATIVE	NO OF CONTAINERS	ENM Suite (no FM)	Asbestos I.D	Field Screen – pHf / pHfox	Chromium Suite	Metals	PAH	OCP/OPP	Asbestos 0.001%								
TP012-0.0-1.0	29-3-18	19		X		1								X								
TP003-0.0-0.6		20		X		1								X								
TP011-0.0-1.0		21		X		1								X								
TP014-0.0-0.3		22		X		1								XX								
TP023-0.0-0.3		23		X		1								X								
TP013-0.0-0.5		24		X		1								X								
TP026-0.0-0.3		25		X		1								X								
TP010-0.0-0.3		26		X		1								XX								
TP010-0.0-0.5	✓	27		X		1								X								

Relinquished By:	Date/Time: 03/04/18 @ 0830	Received By: EA	Date/Time 3-4-18 @ 4:30
Relinquished By:	Date/Time:	Received By:	Date/Time
Samples Intact: (Yes/ No)	Temperature: (Ambient / Chilled)	Sample Cooler Sealed: Yes/ No	Laboratory Quotation No:
	Comments:		

CHAIN OF CUSTODY & ANALYSIS REQUEST

Page 4 of 8

SGS Environmental Services
Unit 16, 33 Maddox Street
Alexandria NSW 2015
Telephone No: (02) 85940400
Facsimile No: (02) 85940499
Email: au.samplereceipt.sydney@sgs.com

Company Name:	Alliance Geotechnical	Project Name/No:	6930 AUSTRAL
Address:	10 Welder Road,	Purchase Order No:	~~N/A~~ P1025
	Seven Hills NSW	Results Required By:	5 day
		Telephone:	1800 288 188
Contact Name:	Craig Cowper	Facsimile:	N/A
		Email Results:	enviro@allgeo.com.au

Client Sample ID	Date Sampled	Lab Sample ID	WATER	SOIL	PRESERVATIVE	NO OF CONTAINERS	ENM Suite (no FM)	Asbestos I.D	Field Screen – pHf / nHfox	Chromium Suite	Metals	PAH	OCP/OPP	Asbestos 0.001%								
TP133-0.0-0.3	29-3-18	28		X		1								X								
TP021-0.0-0.4		29		X		1								X								
TP131-0.0-0.3		30		X		1								X								
TP007-0.0-0.4		31		X		1								X								
TP125-0.0-0.4		32		X		1								X								
TP138-0.0-0.4		33		X		1								X								
TP040-0.0-0.4		34		X		1								X								
TP001-0.0-0.6		35		X		1								X								
TP055-0.0-0.4		36		X		1								X								

Relinquished By:	Date/Time: 03/04/18 @ 0830	Received By: EA	Date/Time 3-4-18 @ 4:30
Relinquished By:	Date/Time:	Received By:	Date/Time
Samples Intact: (Yes/ No	Temperature: (Ambient / Chilled	Sample Cooler Sealed: Yes/ No	Laboratory Quotation No:
	Comments:		

CHAIN OF CUSTODY & ANALYSIS REQUEST

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Alexandria NSW 2015
Telephone No: (02) 85940400
Facsimile No: (02) 85940499
Email: au.samplereceipt.sydney@sgs.com

Company Name:	Alliance Geotechnical	Project Name/No:	6930 AUSTRAL
Address:	10 Welder Road,	Purchase Order No:	~~N/A~~ P1025
	Seven Hills NSW	Results Required By:	5 day
		Telephone:	1800 288 188
Contact Name:	Craig Cowper	Facsimile:	N/A
		Email Results:	enviro@allgeo.com.au

Client Sample ID	Date Sampled	Lab Sample ID	WATER	SOIL	PRESERVATIVE	NO OF CONTAINERS	ENM Suite (no FM)	Asbestos I.D	Field Screen – pHf / pHfox	Chromium Suite	Metals	PAH	OCP/OPP	Asbestos @ 0.001%								
TP018-0.0-0.5	29-3-18	37		X		1								X								
TP088-0.0-0.3		38		X		1								X								
TP042-0.0-0.3		39		X		1								X								
TP020-0.0-0.4		40		X		1								X								
TP006-0.0-0.4		41		X		1								X								
TP129-0.0-0.3		42		X		1								X								
TP129-0.0-0.3		43	FRAGMENTS					X														
TP134-0.0-0.3		44		X		1								X								
TP106-0.0-0.3		45		X		1								X								

Relinquished By:	Date/Time: 03/04/18 @ 0850	Received By: EA	Date/Time 3-4-18 @ 4:30
Relinquished By:	Date/Time:	Received By:	Date/Time
Samples Intact: (Yes)/ No	Temperature: ~~Ambient~~ / Chilled	Sample Cooler Sealed: Yes/ No	Laboratory Quotation No:
	Comments:		

CHAIN OF CUSTODY & ANALYSIS REQUEST

SGS Environmental Services
Unit 16, 33 Maddox Street
Alexandria NSW 2015
Telephone No: (02) 85940400
Facsimile No: (02) 85940499
Email: au.samplereceipt.sydney@sgs.com

Company Name:	Alliance Geotechnical	Project Name/No:	6930 AUSTRAL
Address:	10 Welder Road,	Purchase Order No:	~~N/A~~ P1025
	Seven Hills NSW	Results Required By:	5 day
		Telephone:	1800 288 188
Contact Name:	Craig Cowper	Facsimile:	N/A
		Email Results:	enviro@allgeo.com.au

Client Sample ID	Date Sampled	Lab Sample ID	WATER	SOIL	PRESERVATIVE	NO OF CONTAINERS	ENM Suite (no FM)	Asbestos I.D	Field Screen – pHf / pHfox	Chromium Suite	Metals	PAH	OCP/OPP	Asbestos 0.001g								
TP019-0.0-0.4	29-3-18	46		X		1								X								
TP130-0.0-0.3		47		X		1								X								
TP039-0.0-0.2		48		X		1								X								
TP002-0.0-1.2		49		X		1								X								
TP120-0.0-0.3		50		X		1								X								
TP120-00-0.3		51	FRAGMENT					X														
TP043-00-0.5		52		X		1								X								
TP043-0.0-0.5		53	FRAGMENTS					X														
TP011-1.0-1.4		54		X		1								X								

Relinquished By:	Date/Time: 03/04/18 @0830	Received By: EA	Date/Time 3-4-18 @ 4:30
Relinquished By:	Date/Time:	Received By:	Date/Time
Samples Intact: Yes/ No	Temperature: Ambient / Chilled	Sample Cooler Sealed: Yes/ No	Laboratory Quotation No:
	Comments:		

CHAIN OF CUSTODY & ANALYSIS REQUEST

SGS Environmental Services
Unit 16, 33 Maddox Street
Alexandria NSW 2015
Telephone No: (02) 85940400
Facsimile No: (02) 85940499
Email: au.samplereceipt.sydney@sgs.com

Company Name:	Alliance Geotechnical	Project Name/No:	6930 AUSTRAL
Address:	10 Welder Road,	Purchase Order No:	~~N/A~~ P1025
	Seven Hills NSW	Results Required By:	5 day
		Telephone:	1800 288 188
Contact Name:	Craig Cowper	Facsimile:	N/A
		Email Results:	enviro@allgeo.com.au

Client Sample ID	Date Sampled	Lab Sample ID	WATER	SOIL	PRESERVATIVE	NO OF CONTAINERS	ENM Suite (no FM)	Asbestos I.D	Field Screen – pHf / pHfox	Chromium Suite	Metals	PAH	OCP/OPP	Asbestos 0.001%								
TP102-0.0-0.2	29-3-18	~~56~~ 55		X		1								X								
TP016-0.0-1.0		~~57~~ 56		X		1								X								
TP113-0.0-0.2		~~58~~ 57		X		1								X								
TP015-0.0-0.3		~~59~~ 58		X		1								X								
TP015-00-0.3		~~60~~ 59	FRAGMENT					X														
TP025-0.0-0.9		~~61~~ 60		X		1								X								
TP137-0.0-0.3		~~62~~ 61		X		1								X								
TP103-00-0.3		~~63~~ 62		X		1								X								
TP136-0.0-0.3		~~64~~ 63		X		1								X								

Relinquished By: SC	Date/Time: 03/04/18 @ 0830	Received By: EA	Date/Time 3-4-18 @ 4:30
Relinquished By:	Date/Time:	Received By:	Date/Time
Samples Intact: (Yes/ No)	Temperature: (Ambient / Chilled)	Sample Cooler Sealed: Yes/ No	Laboratory Quotation No:
	Comments:		

CHAIN OF CUSTODY & ANALYSIS REQUEST

SGS Environmental Services
Unit 16, 33 Maddox Street
Alexandria NSW 2015
Telephone No: (02) 85940400
Facsimile No: (02) 85940499
Email: au.samplereceipt.sydney@sgs.com

Company Name:	Alliance Geotechnical	Project Name/No:	6930 AUSTRAL
Address:	10 Welder Road,	Purchase Order No:	~~N/A~~ P1025
	Seven Hills NSW	Results Required By:	5 day
		Telephone:	1800 288 188
Contact Name:	Craig Cowper	Facsimile:	N/A
		Email Results:	enviro@allgeo.com.au

Client Sample ID	Date Sampled	Lab Sample ID	WATER	SOIL	PRESERVATIVE	NO OF CONTAINERS	ENM Suite (no FM)	Asbestos I.D	Field Screen – pHf / nHfox	Chromium Suite	Metals	PAH	OCP/OPP	Asbestos 0.001%								
TP030-0.0-0.3	29-3-18	64		X		1								X								
TP112-0-0.3		65		X		1								X								
TP002-0-1.0		66		X		1								X								
TP008-0-0.4		67		X		1								X								
TP092-0.0-0.5		68		X		1								X								
TP132-0-0.3		69		X		1								X								
TP132-0.0-0.3		70	FRAGMENT					X														
TP139-0.0.0.3		71		X		1								X								
TP145-0.0-0.3		72		X		1								X								

Relinquished By:	Date/Time: 03/04/18 @ 0830	Received By: EA	Date/Time 3-4-18 @ 4.30
Relinquished By:	Date/Time:	Received By:	Date/Time
Samples Intact: Yes/ No	Temperature: Ambient / Chilled	Sample Cooler Sealed: Yes/ No	Laboratory Quotation No:
	Comments:		

ANALYTICAL REPORT

Accreditation No. 2562

CLIENT DETAILS

Contact	Craig Cowper
Client	ALLIANCE GEOTECHNICAL PTY LTD
Address	10 Welder Road Seven Hills NSW 2147
Telephone	0407 989 885
Facsimile	02 9675 1888
Email	c.cowper@allgeo.com.au
Project	**6930 Austral**
Order Number	**P1025**
Samples	59

LABORATORY DETAILS

Manager	Huong Crawford
Laboratory	SGS Alexandria Environmental
Address	Unit 16, 33 Maddox St Alexandria NSW 2015
Telephone	+61 2 8594 0400
Facsimile	+61 2 8594 0499
Email	au.environmental.sydney@sgs.com
SGS Reference	**SE177522 R0**
Date Received	4/4/2018
Date Reported	17/4/2018

COMMENTS

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

Sample 20: No trace asbestos fibres detected using trace analysis technique.

Asbestos analysed by Approved Identifier Ravee Sivasubramaniam .

SIGNATORIES

Ravee Sivasubramaniam
Hygiene Team Leader

Fibre ID in bulk materials [AN602] Tested: 13/4/2018

PARAMETER	UOM	LOR	TP121-0.0-0.4 FCP MATERIAL - 29/3/2018 SE177522.007	TP116-0.0-0.2 FCP MATERIAL - 29/3/2018 SE177522.013	TP104-0.0-0.3 FCP MATERIAL - 29/3/2018 SE177522.020	TP072-0.0-0.35 FCP MATERIAL - 3/4/2018 SE177522.055
Asbestos Detected	No unit	-	Yes	Yes	No	Yes

METHOD SUMMARY

SE177522 R0

METHOD	METHODOLOGY SUMMARY
AN602	Qualitative identification of chrysotile, amosite and crocidolite in bulk samples by polarised light microscopy (PLM) in conjunction with dispersion staining (DS). AS4964 provides the basis for this document. Unequivocal identification of the asbestos minerals present is made by obtaining sufficient diagnostic `clues`, which provide a reasonable degree of certainty, dispersion staining is a mandatory `clue` for positive identification. If sufficient `clues` are absent, then positive identification of asbestos is not possible. This procedure requires removal of suspect fibres/bundles from the sample which cannot be returned.
AN602	Fibres/material that cannot be unequivocably identified as one of the three asbestos forms, will be reported as unknown mineral fibres (umf). The fibres detected may or may not be asbestos fibres.

FOOTNOTES

*	NATA accreditation does not cover the performance of this service.	-	Not analysed.	UOM	Unit of Measure.
		NVL	Not validated.	LOR	Limit of Reporting.
**	Indicative data, theoretical holding time exceeded.	IS	Insufficient sample for analysis.	↑↓	Raised/lowered Limit of Reporting.
		LNR	Sample listed, but not received.		

Samples analysed as received.
Solid samples expressed on a dry weight basis.

Where "Total" analyte groups are reported (for example, Total PAHs, Total OC Pesticides) the total will be calculated as the sum of the individual analytes, with those analytes that are reported as <LOR being assumed to be zero. The summed (Total) limit of reporting is calculated by summing the individual analyte LORs and dividing by two. For example, where 16 individual analytes are being summed and each has an LOR of 0.1 mg/kg, the "Totals" LOR will be 1.6 / 2 (0.8 mg/kg). Where only 2 analytes are being summed, the " Total" LOR will be the sum of those two LORs.

Some totals may not appear to add up because the total is rounded after adding up the raw values.

If reported, measurement uncertainty follow the ± sign after the analytical result and is expressed as the expanded uncertainty calculated using a coverage factor of 2, providing a level of confidence of approximately 95%, unless stated otherwise in the comments section of this report.

Results reported for samples tested under test methods with codes starting with ARS-SOP, radionuclide or gross radioactivity concentrations are expressed in becquerel (Bq) per unit of mass or volume or per wipe as stated on the report. Becquerel is the SI unit for activity and equals one nuclear transformation per second.
Note that in terms of units of radioactivity:

a. 1 Bq is equivalent to 27 pCi
b. 37 MBq is equivalent to 1 mCi

For results reported for samples tested under test methods with codes starting with ARS-SOP, less than (<) values indicate the detection limit for each radionuclide or parameter for the measurement system used. The respective detection limits have been calculated in accordance with ISO 11929.

The QC criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here : http://www.sgs.com.au/~/media/Local/Australia/Documents/ Technical%20Documents/MP-AU-ENV-QU-022%20QA%20QC%20Plan.pdf

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Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client only. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law .

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ANALYTICAL REPORT

Accreditation No. 2562

CLIENT DETAILS

Contact	Craig Cowper
Client	ALLIANCE GEOTECHNICAL PTY LTD
Address	10 Welder Road Seven Hills NSW 2147
Telephone	0407 989 885
Facsimile	02 9675 1888
Email	c.cowper@allgeo.com.au
Project	**6930 Austral**
Order Number	**P1025**
Samples	4

LABORATORY DETAILS

Manager	Huong Crawford
Laboratory	SGS Alexandria Environmental
Address	Unit 16, 33 Maddox St Alexandria NSW 2015
Telephone	+61 2 8594 0400
Facsimile	+61 2 8594 0499
Email	au.environmental.sydney@sgs.com
SGS Reference	**SE177522 R0**
Date Received	04 Apr 2018
Date Reported	17 Apr 2018

COMMENTS

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

Sample 20: No trace asbestos fibres detected using trace analysis technique.

Asbestos analysed by Approved Identifier Ravee Sivasubramaniam .

SIGNATORIES

S. Ravee Sivasubramaniam
Hygiene Team Leader

ANALYTICAL REPORT

RESULTS

Fibre ID in bulk materials — Method AN602

Laboratory Reference	Client Reference	Matrix	Sample Description	Date Sampled	Fibre Identification	Est.%w/w*
SE177522.007	TP121-0.0-0.4 FCP	Other	83g Cement Sheet Fragments	29 Mar 2018	Chrysotile Asbestos Detected	
SE177522.013	TP116-0.0-0.2 FCP	Other	520g Cement Sheet Fragments	29 Mar 2018	Amosite & Chrysotile Asbestos Detected	
SE177522.020	TP104-0.0-0.3 FCP	Other	20x15x44mm Cement Sheet Fragments	29 Mar 2018	No Asbestos Detected	
SE177522.055	TP072-0.0-0.35 FCP	Other	50x35x4mm Cement Sheet Fragment	03 Apr 2018	Chrysotile Asbestos Detected	

METHOD SUMMARY

SE177522 R0

METHOD	METHODOLOGY SUMMARY
AN602	Qualitative identification of chrysotile, amosite and crocidolite in bulk samples by polarised light microscopy (PLM) in conjunction with dispersion staining (DS). AS4964 provides the basis for this document. Unequivocal identification of the asbestos minerals present is made by obtaining sufficient diagnostic `clues`, which provide a reasonable degree of certainty, dispersion staining is a mandatory `clue` for positive identification. If sufficient `clues` are absent, then positive identification of asbestos is not possible. This procedure requires removal of suspect fibres/bundles from the sample which cannot be returned.
AN602	Fibres/material that cannot be unequivocably identified as one of the three asbestos forms, will be reported as unknown mineral fibres (umf). The fibres detected may or may not be asbestos fibres.

FOOTNOTES

Amosite	-	Brown Asbestos	NA	-	Not Analysed
Chrysotile	-	White Asbestos	LNR	-	Listed, Not Required
Crocidolite	-	Blue Asbestos	*	-	NATA accreditation does not cover the performance of this service.
Amphiboles	-	Amosite and/or Crocidolite	**	-	Indicative data, theoretical holding time exceeded.

(In reference to soil samples only) This report does not comply with the analytical reporting recommendations in the Western Australian Department of Health Guidelines for the Assessment and Remediation and Management of Asbestos Contaminated sites in Western Australia - May 2009.

Sampled by the client.

Where reported: 'Asbestos Detected': Asbestos detected by polarised light microscopy, including dispersion staining.
Where reported: 'No Asbestos Found': No Asbestos Found by polarised light microscopy, including dispersion staining.
Where reported: 'UMF Detected': Mineral fibres of unknown type detected by polarised light microscopy, including dispersion staining. Confirmation by another independent analytical technique may be necessary.

Even after disintegration it can be very difficult, or impossible, to detect the presence of asbestos in some asbestos-containing bulk materials using polarised light microscopy. This is due to the low grade or small length or diameter of asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials.

The QC criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: http://www.sgs.com.au/~/media/Local/Australia/Documents/Technical%20Documents/MP-AU-ENV-QU-022%20QA%20QC%20Plan.pdf

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SAMPLE RECEIPT ADVICE

SE177522

CLIENT DETAILS

Contact	Craig Cowper
Client	ALLIANCE GEOTECHNICAL PTY LTD
Address	10 Welder Road Seven Hills NSW 2147
Telephone	0407 989 885
Facsimile	02 9675 1888
Email	c.cowper@allgeo.com.au
Project	**6930 Austral**
Order Number	**P1025**
Samples	59

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 4/4/2018
Report Due	Fri 13/4/2018
SGS Reference	**SE177522**

SUBMISSION DETAILS

This is to confirm that 59 samples were received on Wednesday 4/4/2018. Results are expected to be ready by COB Friday 13/4/2018. Please quote SGS reference SE177522 when making enquiries. Refer below for details relating to sample integrity upon receipt.

Samples clearly labelled	Yes	Complete documentation received	Yes
Sample container provider	Client	Sample cooling method	Ice Bricks
Samples received in correct containers	Yes	Sample counts by matrix	55 Soil, 4 Material
Date documentation received	4/4/2018	Type of documentation received	COC
Samples received in good order	Yes	Samples received without headspace	N/A
Sample temperature upon receipt	9.3°C	Sufficient sample for analysis	Yes
Turnaround time requested	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

Asbestos 0.001% subcontracted to SGS Perth Environmental, 28 Reid Rd Perth Airport WA, NATA Accreditation Number 2562, Site Number 898.

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.

SAMPLE RECEIPT ADVICE

SE177522

CLIENT DETAILS

Client ALLIANCE GEOTECHNICAL PTY LTD

Project 6930 Austral

SUMMARY OF ANALYSIS

No.	Sample ID	Fibre ID in bulk materials	Gravimetric Determination of Asbestos in Soil
001	TP024-0.0-0.4	-	9
002	TP027-0.0-0.3	-	9
003	TP124-0.0-0.3	-	9
004	TP118-0.0-0.15	-	9
005	TP114-0.0-0.3	-	9
006	TP121-0.0-0.4	-	9
007	TP121-0.0-0.4 FCP	1	-
008	TP089-0.0-0.3	-	9
009	TP146-0.0-0.2	-	9
010	TP128-0.0-0.3	-	9
011	TP135-0.0-0.3	-	9
012	TP116-0.0-0.2	-	9
013	TP116-0.0-0.2 FCP	1	-
014	TP119-0.0-0.2	-	9
015	TP126-0.0-0.6	-	9
016	TP147-0.0-0.3	-	9
017	TP017-0.0-1.0	-	9
018	TP005-0.0-0.3	-	9
019	TP104-0.0-0.3	-	9
020	TP104-0.0-0.3 FCP	1	-
021	TP098-0.0-0.3	-	9
022	TP064-0.0-0.2	-	9
023	TP059-0.0-0.3	-	9
024	TP036-0.0-0.3	-	9

CONTINUED OVERLEAF

The above table represents SGS' interpretation of the client-supplied Chain Of Custody document.
The numbers shown in the table indicate the number of results requested in each package.
Please indicate as soon as possible should your request differ from these details .
Testing as per this table shall commence immediately unless the client intervenes with a correction .

SAMPLE RECEIPT ADVICE

SE177522

CLIENT DETAILS

Client ALLIANCE GEOTECHNICAL PTY LTD

Project 6930 Austral

SUMMARY OF ANALYSIS

No.	Sample ID	Gravimetric Determination of Asbestos in Soil
025	TP045-0.0-0.3	9
026	TP076-0.0-0.25	9
027	TP061-0.0-0.3	9
028	TP056-0.0-0.3	9
029	TP097-0.0-0.2	9
030	TP032-0.0-0.3	9
031	TP033-0.0-0.35	9
032	TP037-0.0-0.3	9
033	TP067-0.0-0.25	9
034	TP074-0.0-0.3	9
035	TP080-0.0-0.3	9
036	TP034-0.0-0.4	9
037	TP073-0.0-0.3	9
038	TP108-0.0-0.3	9
039	TP083-0.0-0.35	9
040	TP062-0.0-0.25	9
041	TP066-0.0-0.35	9
042	TP063-0.0-0.3	9
043	TP065-0.0-0.3	9
044	TP081-0.0-0.3	9
045	TP072-0.0-0.35	9
046	TP048-0.0-0.35	9
047	TP077-0.0-0.3	9
048	TP035-0.0-0.4	9

CONTINUED OVERLEAF

The above table represents SGS' interpretation of the client-supplied Chain Of Custody document.
The numbers shown in the table indicate the number of results requested in each package.
Please indicate as soon as possible should your request differ from these details .
Testing as per this table shall commence immediately unless the client intervenes with a correction .

SAMPLE RECEIPT ADVICE

SE177522

CLIENT DETAILS

Client ALLIANCE GEOTECHNICAL PTY LTD

Project 6930 Austral

SUMMARY OF ANALYSIS

No.	Sample ID	Fibre ID in bulk materials	Gravimetric Determination of Asbestos in Soil
049	TP060-0.0-0.3	-	9
050	TP049-0.0-0.4	-	9
051	TP079-0.0-0.3	-	9
052	TP071-0.0-0.2	-	9
053	TP053-0.0-0.3	-	9
054	TP044-0.0-0.3	-	9
055	TP072-0.0-0.35 FCP	1	-
056	TP057-0.0-0.25	-	9
057	TP069-0.0-0.3	-	9
058	TP052-0.0-0.4	-	9
059	TP078-0.0-0.3	-	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 .

source: ALX_EHS_OFFICE_X585_20180405100150.pdf page: 18 SGS Ref: SE177522_COC

SGS

CHAIN OF CUSTODY & ANALYSIS REQUEST

SGS Environmental Services
Unit 16, 33 Maddox Street
Alexandria NSW 2015
Telephone No: (02) 85940400
Facsimile No: (02) 85940499
Email: au.samplereceipt.sydney@sgs.com

Company Name:	Alliance Geotechnical	Project Name/No:	6930 - Austral
Address:	10 Welder Road,	Purchase Order No:	~~N/A~~ P1025
	Seven Hills NSW	Results Required By:	5 day TAT
		Telephone:	1800 288 188
Contact Name:	Craig Cowper	Facsimile:	N/A
		Email Results:	enviro@allgeo.com.au

Client Sample ID	Date Sampled	Lab Sample ID	WATER	SOIL	PRESERVATIVE	NO OF CONTAINERS	ENM Suite (no FM)	Asbestos I.D (Bulk Material)	Field Screen – pHf / nHfox	Chromium Suite	Metals	PAH	OCP/OPP	Asbestos 0.001%
TP024														
[redacted]-0.0-0.4	29-3-18	1		X		1								X
TP027-0.0-0.5	29-3-18	2		X		1								X
TP124-0.0-0.3	29-3-18	3		X		1								X
TP118-0.0-0.15	29-3-18	4		X		1								X
TP114-0.0-0.3		5		X										X
TP121-0.0-0.4		6		X										X
TP121-0.0-0.4		7	FRAGMENTS					X						
TP089-0.0-0.3		8		X										X
TP146-0.0-0.2		9		X										X

SGS EHS Alexandria Laboratory

SE177522 COC
Received: 04 – Apr – 2018

Relinquished By:	Date/Time: 04/04/18 @ 1200	Received By:	Date/Time 04/04/18 @ 11:45
Relinquished By:	Date/Time:	Received By:	Date/Time
Samples Intact: Yes/ No	Temperature: Ambient / Chilled	Sample Cooler Sealed: Yes/ No	Laboratory Quotation No:
	Comments:		$50 per sample Email dated 15/03/2018

CHAIN OF CUSTODY & ANALYSIS REQUEST

SGS Environmental Services
Unit 16, 33 Maddox Street
Alexandria NSW 2015
Telephone No: (02) 85940400
Facsimile No: (02) 85940499
Email: au.samplereceipt.sydney@sgs.com

Company Name:	Alliance Geotechnical	Project Name/No:	6930 - Austral
Address:	10 Welder Road,	Purchase Order No:	~~NMT~~ P1025
	Seven Hills NSW	Results Required By:	5 day TAT
		Telephone:	1800 288 188
Contact Name:	Craig Cowper	Facsimile:	N/A
		Email Results:	enviro@allgeo.com.au

Client Sample ID	Date Sampled	Lab Sample ID	WATER	SOIL	PRESERVATIVE	NO OF CONTAINERS	ENM Suite (no FM)	Asbestos I.D Bulk material	Field Screen – pHf / nHfox	Chromium Suite	Metals	PAH	OCP/OPP	Asbestos 0.001%								
TP128-0.0-0.3	29/3/18	10		X		1								X								
TP135-0.0-0.3	29/3/18	11		X		1								X								
TP116-0.0-0.2	29/3/18	12		X		1								X								
TP116-0.0-0.2	29/3/18	13	FRAGMENTS					X														
TP119-0.0-0.2	29/3/18	14		X		1								X								
TP126-0.0-0.6	29/3/18	15		X		1								X								
TP147-0.0-0.3	29/3/18	16		X		1								X								
TP017-0.0-0.1	29/3/18	17		X		1								X								
TP005-0.0-0.3	29/3/18	18		X		1								X								

Relinquished By:	Date/Time: 04/04/18 @1200	Received By:	Date/Time 04/04/18 @ 11.45
Relinquished By:	Date/Time:	Received By:	Date/Time
Samples Intact: ~~Yes~~/ No	Temperature: Ambient / Chilled	Sample Cooler Sealed: Yes/ No	Laboratory Quotation No:
	Comments:		

CHAIN OF CUSTODY & ANALYSIS REQUEST

SGS Environmental Services
Unit 16, 33 Maddox Street
Alexandria NSW 2015
Telephone No: (02) 85940400
Facsimile No: (02) 85940499
Email: au.samplereceipt.sydney@sgs.com

Company Name:	Alliance Geotechnical	Project Name/No:	6930 - Rustral
Address:	10 Welder Road,	Purchase Order No:	~~WIP~~ P1025
	Seven Hills NSW	Results Required By:	5 day TAT
		Telephone:	1800 288 188
Contact Name:	Craig Cowper	Facsimile:	N/A
		Email Results:	enviro@allgeo.com.au

Client Sample ID	Date Sampled	Lab Sample ID	WATER	SOIL	PRESERVATIVE	NO OF CONTAINERS	ENM Suite (no FM)	Asbestos I.D Bulk material	Field Screen – pHf / pHfox	Chromium Suite	Metals	PAH	OCP/OPP	%Asbestos 0.001
TP104-0.0-0.3	29-3-18	19		X		1								X
TP104-0.0-0.3	29-3-18	20	FRAGMENTS					X						
TP098-0.0-0.3	3-4-18	21		X		1								X
TP064-0.0-0.2	3-4-18	22		X		1								X
TP059-0.0-0.3	3-4-18	23		X		1								X
TP036-0.0-0.3	3-4-18	24		X		1								X
TP045-0.0-0.3	3-4-18	25		X		1								X
TP076-0.0-0.25	3-4-18	26		X		1								X
TP061-0.0-0.3	3-4-18	27		X		1								X

Relinquished By:	Date/Time: 04/04/18 @ 1200	Received By:	Date/Time 04/04/18 @ 11:45
Relinquished By:	Date/Time:	Received By:	Date/Time
Samples Intact: Yes/ No	Temperature: Ambient / Chilled	Sample Cooler Sealed: Yes/ No	Laboratory Quotation No:
	Comments:		

CHAIN OF CUSTODY & ANALYSIS REQUEST

SGS Environmental Services
Unit 16, 33 Maddox Street
Alexandria NSW 2015
Telephone No: (02) 85940400
Facsimile No: (02) 85940499
Email: au.samplereceipt.sydney@sgs.com

Company Name: Alliance Geotechnical
Address: 10 Welder Road, Seven Hills NSW
Contact Name: Craig Cowper

Project Name/No: 6930 - Rustral
Purchase Order No: ~~N/A~~ P1025
Results Required By: 5 day TAT
Telephone: 1800 288 188
Facsimile: N/A
Email Results: enviro@allgeo.com.au

Client Sample ID	Date Sampled	Lab Sample ID	WATER	SOIL	PRESERVATIVE	NO OF CONTAINERS	ENM Suite (no FM)	Asbestos I.D Bulk Material	Field Screen – pHf / nHfox	Chromium Suite	Metals	PAH	OCP/OPP	% Asbestos 0.001
TP056-0.0-0.3	3/4/18	28		X		1								X
TP097-0.0-0.2	3/4/18	29		X		1								X
TP032-0.0-0.3	3/4/18	30		X		1								X
TP033-0.0-0.35	3/4/18	31		X		1								X
TP037-0.0-0.3	3/4/18	32		X		1								X
TP067-0.0-0.25	3/4/18	33		X		1								X
TP074-0.0-0.3	3/4/18	34		X		1								X
TP080-0.0-0.3	3/4/18	35		X		1								X
TP034-0.0-0.4	3/4/18	36		X		1								X

Relinquished By:	Date/Time: 04/04/18 @ 1200	Received By:	Date/Time 04/04/18 @ 11.45
Relinquished By:	Date/Time:	Received By:	Date/Time
Samples Intact: Yes/ No	Temperature: Ambient / Chilled	Sample Cooler Sealed: Yes/ No	Laboratory Quotation No:
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Project Name/No: 6930 - Austeal
Purchase Order No: ~~N/A~~ P1025
Results Required By: 5 day TAT
Telephone: 1800 288 188
Facsimile: N/A
Email Results: enviro@allgeo.com.au

Client Sample ID	Date Sampled	Lab Sample ID	WATER	SOIL	PRESERVATIVE	NO OF CONTAINERS	ENM Suite (no FM)	Asbestos I.D Build Materials	Field Screen – pHf / pHfox	Chromium Suite	Metals	PAH	OCP/OPP	% Asbestos 0.001								
TP073-0.0-0.3	3-4-18	37		X		1								X								
TP108-0.0-0.3	3-4-18	38		X		1								X								
TP083-0.0-0.35	3-4-18	39		X		1								X								
TP062-0.0-0.25	3-4-18	40		X		1								X								
TP066-0.0-0.35	3-4-18	41		X		1								X								
TP063-0.0-0.3	3-4-18	42		X		1								X								
TP065-0.0-0.3	3-4-18	43		X		1								X								
TP081-0.0-0.3	3-4-18	44		X		1								X								
TP072-0.0-0.35	3-4-18	45		X		1								X								

Relinquished By: [signature] Date/Time: 04/04/18 @ 1200 Received By: [signature] Date/Time 04/04/18 @ 11:45
Relinquished By: Date/Time: Received By: Date/Time
Samples Intact: (Yes)/ No Temperature: Ambient / (Chilled) Sample Cooler Sealed: Yes/ No Laboratory Quotation No:
Comments:

CHAIN OF CUSTODY & ANALYSIS REQUEST

SGS Environmental Services
Unit 16, 33 Maddox Street
Alexandria NSW 2015
Telephone No: (02) 85940400
Facsimile No: (02) 85940499
Email: au.samplereceipt.sydney@sgs.com

Company Name:	Alliance Geotechnical	Project Name/No:	6930 - Austral
Address:	10 Welder Road,	Purchase Order No:	~~N/A~~ P1025
	Seven Hills NSW	Results Required By:	5 day TAT
		Telephone:	1800 288 188
Contact Name:	Craig Cowper	Facsimile:	N/A
		Email Results:	enviro@allgeo.com.au

Client Sample ID	Date Sampled	Lab Sample ID	WATER	SOIL	PRESERVATIVE	NO OF CONTAINERS	ENM Suite (no FM)	Asbestos I.D 8u of material	Field Screen – pHf / pHfox	Chromium Suite	Metals	PAH	OCP/OPP	Asbestos 0.001%								
TP049-0.0-0.3	3/4/18	46		X		1								X								
TP077-0.0-0.3	3/4/18	47		X		1								X								
TP035-0.0-0.4	3/4/18	48		X		1								X								
TP060-0.0-0.3	3/4/18	49		X		1								X								
TP049-0.0-0.4	3/4/18	50		X		1								X								
TP079-0.2-0.3	3/4/18	51		X		1								X								
TP071-0.0-0.2	3/4/18	52		X		1								X								
TP053-0.0-0.3	3/4/18	53		X		1								X								
TP44-0.0-0.3	3/4/18	54		X		1								X								

Relinquished By:	Date/Time: 04/04/18 @ 1200	Received By:	Date/Time 04/04/18 @ 11.45
Relinquished By:	Date/Time:	Received By:	Date/Time
Samples Intact: Yes/ No	Temperature: Ambient / Chilled	Sample Cooler Sealed: Yes/ No	Laboratory Quotation No:
	Comments:		

CHAIN OF CUSTODY & ANALYSIS REQUEST

SGS Environmental Services
Unit 16, 33 Maddox Street
Alexandria NSW 2015
Telephone No: (02) 85940400
Facsimile No: (02) 85940499
Email: au.samplereceipt.sydney@sgs.com

Company Name:	Alliance Geotechnical	Project Name/No:	6930 - Austral
Address:	10 Welder Road,	Purchase Order No:	~~N/A~~ P1025
	Seven Hills NSW	Results Required By:	5 day TAT
Contact Name:	Craig Cowper	Telephone:	1800 288 188
		Facsimile:	N/A
		Email Results:	enviro@allgeo.com.au

Client Sample ID	Date Sampled	Lab Sample ID	WATER	SOIL	PRESERVATIVE	NO OF CONTAINERS	ENM Suite (no FM)	Asbestos I.D Bulk Materials	Field Screen – pHf / nHfox	Chromium Suite	Metals	PAH	OCP/OPP	Asbestos 0.001%								
TP072-00-0.35	3-4-18	55	FRAGMENTS					X														
TP057-00-0.25	3-4-18	56		X		1								X								
TP069-0.0-0.3	3-4-18	57		X		1								X								
TP052-00-0.4	3-4-18	58		X		1								X								
TP078-00-0.3	3-4-18	59		X		1								X								
				X																		
				X																		
				X																		
				X																		

Relinquished By:	Date/Time: 04/04/18 @ 1200	Received By:	Date/Time 04/04/18 @ 11:45
Relinquished By:	Date/Time:	Received By:	Date/Time
Samples Intact: Yes/ No	Temperature: Ambient / Chilled	Sample Cooler Sealed: Yes/ No	Laboratory Quotation No:
	Comments:		

ANALYTICAL REPORT

CLIENT DETAILS

Contact	Craig Cowper
Client	ALLIANCE GEOTECHNICAL PTY LTD
Address	10 Welder Road Seven Hills NSW 2147
Telephone	0407 989 885
Facsimile	02 9675 1888
Email	c.cowper@allgeo.com.au
Project	**6930 Austral**
Order Number	**P1025**
Samples	50

LABORATORY DETAILS

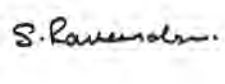
Manager	Huong Crawford
Laboratory	SGS Alexandria Environmental
Address	Unit 16, 33 Maddox St Alexandria NSW 2015
Telephone	+61 2 8594 0400
Facsimile	+61 2 8594 0499
Email	au.environmental.sydney@sgs.com
SGS Reference	**SE177609 R0**
Date Received	5/4/2018
Date Reported	16/4/2018

COMMENTS

Whilst SGS laboratories conform to ISO:17025 standards, results of analysis in this report fall outside of the current scope of NATA accreditation .

No respirable fibres detected in soil samples using trace analysis technique as per AS 4964-2004.
Asbestos analysed by Approved Identifiers Ravee Sivasubramaniam .

SIGNATORIES



Ravee Sivasubramaniam
Hygiene Team Leader

Gravimetric Determination of Asbestos in Soil [AN605] Tested: 13/4/2018

PARAMETER	UOM	LOR	TP038-0.0-0.25 SOIL - 3/4/2018 SE177609.001	TP159-0.0-0.2 SOIL - 3/4/2018 SE177609.002	TP084-0.0-0.3 SOIL - 3/4/2018 SE177609.003	TP160-0.0-0.3 SOIL - 3/4/2018 SE177609.004	TP101-0.0-0.3 SOIL - 3/4/2018 SE177609.005
Total Sample Weight*	g	1	**520**	**520**	**452**	**509**	**495**
ACM in >7mm Sample*	g	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
AF/FA in >2mm to <7mm Sample*	g	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
AF/FA in <2mm Sample*	g	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Asbestos in soil (>7mm ACM)*	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Asbestos in soil (>2mm to <7mm AF/FA)*	%w/w	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<2mm AF/FA)*	%w/w	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<7mm AF/FA)*	%w/w	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Fibre Type*	No unit	-	NAD	NAD	NAD	NAD	NAD

PARAMETER	UOM	LOR	TP161-0.0-0.0-0.3 SOIL - 3/4/2018 SE177609.006	TP173-0.0-0.2 SOIL - 3/4/2018 SE177609.007	TP099-0.0-0.2 SOIL - 3/4/2018 SE177609.008	TP110-0.0-0.3 SOIL - 3/4/2018 SE177609.009	TP100-0.0-0.4 SOIL - 3/4/2018 SE177609.010
Total Sample Weight*	g	1	**514**	**483**	**435**	**413**	**814**
ACM in >7mm Sample*	g	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
AF/FA in >2mm to <7mm Sample*	g	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
AF/FA in <2mm Sample*	g	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Asbestos in soil (>7mm ACM)*	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Asbestos in soil (>2mm to <7mm AF/FA)*	%w/w	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<2mm AF/FA)*	%w/w	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<7mm AF/FA)*	%w/w	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Fibre Type*	No unit	-	NAD	NAD	NAD	NAD	NAD

PARAMETER	UOM	LOR	TP165-0.0-0.3 SOIL - 3/4/2018 SE177609.011	TP154-0.0-0.3 SOIL - 3/4/2018 SE177609.012	TP058-0.0-0.4 SOIL - 3/4/2018 SE177609.013	TP149-0.0-0.3 SOIL - 3/4/2018 SE177609.014	TP143-0.0-0.3 SOIL - 3/4/2018 SE177609.015
Total Sample Weight*	g	1	**810**	**767**	**841**	**783**	**673**
ACM in >7mm Sample*	g	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
AF/FA in >2mm to <7mm Sample*	g	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
AF/FA in <2mm Sample*	g	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Asbestos in soil (>7mm ACM)*	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Asbestos in soil (>2mm to <7mm AF/FA)*	%w/w	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<2mm AF/FA)*	%w/w	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<7mm AF/FA)*	%w/w	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Fibre Type*	No unit	-	NAD	NAD	NAD	NAD	NAD

PARAMETER	UOM	LOR	TP082-0.0-0.3 SOIL - 3/4/2018 SE177609.016	TP155-0.0-0.3 SOIL - 3/4/2018 SE177609.017	TP162-0.0-0.3 SOIL - 3/4/2018 SE177609.018	TP164-0.0-0.3 SOIL - 3/4/2018 SE177609.019	TP140-0.0-0.3 SOIL - 3/4/2018 SE177609.020
Total Sample Weight*	g	1	**790**	**756**	**769**	**461**	**478**
ACM in >7mm Sample*	g	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
AF/FA in >2mm to <7mm Sample*	g	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
AF/FA in <2mm Sample*	g	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Asbestos in soil (>7mm ACM)*	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Asbestos in soil (>2mm to <7mm AF/FA)*	%w/w	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<2mm AF/FA)*	%w/w	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<7mm AF/FA)*	%w/w	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Fibre Type*	No unit	-	NAD	NAD	NAD	NAD	NAD

Gravimetric Determination of Asbestos in Soil [AN605] Tested: 13/4/2018 (continued)

PARAMETER	UOM	LOR	TP141-0.0-0.3 SOIL - 3/4/2018 SE177609.021	TP163-0.0-0.3 SOIL - 3/4/2018 SE177609.022	TP174-0.0-0.2 SOIL - 3/4/2018 SE177609.023	TP166-0.0-0.2 SOIL - 3/4/2018 SE177609.024	TP167-0.0-0.2 SOIL - 3/4/2018 SE177609.025
Total Sample Weight*	g	1	**471**	**522**	**475**	**443**	**467**
ACM in >7mm Sample*	g	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
AF/FA in >2mm to <7mm Sample*	g	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
AF/FA in <2mm Sample*	g	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Asbestos in soil (>7mm ACM)*	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Asbestos in soil (>2mm to <7mm AF/FA)*	%w/w	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<2mm AF/FA)*	%w/w	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<7mm AF/FA)*	%w/w	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Fibre Type*	No unit	-	NAD	NAD	NAD	NAD	NAD

PARAMETER	UOM	LOR	TP095-0.0-0.3 SOIL - 3/4/2018 SE177609.026	TP142-0.0-0.3 SOIL - 3/4/2018 SE177609.027	TP175-0.0-0.4 SOIL - 3/4/2018 SE177609.028	TP151-0.0-0.3 SOIL - 3/4/2018 SE177609.029	TP153-0.0-0.3 SOIL - 3/4/2018 SE177609.030
Total Sample Weight*	g	1	**484**	**497**	**553**	**433**	**481**
ACM in >7mm Sample*	g	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
AF/FA in >2mm to <7mm Sample*	g	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
AF/FA in <2mm Sample*	g	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Asbestos in soil (>7mm ACM)*	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Asbestos in soil (>2mm to <7mm AF/FA)*	%w/w	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<2mm AF/FA)*	%w/w	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<7mm AF/FA)*	%w/w	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Fibre Type*	No unit	-	NAD	NAD	NAD	NAD	NAD

PARAMETER	UOM	LOR	TP094-0.0-0.3 SOIL - 3/4/2018 SE177609.031	TP051-0.0-0.35 SOIL - 3/4/2018 SE177609.032	TP085-0.0-0.2 SOIL - 3/4/2018 SE177609.033	TP152-0.0-0.4 SOIL - 3/4/2018 SE177609.034	TP031-0.0-0.25 SOIL - 3/4/2018 SE177609.035
Total Sample Weight*	g	1	**493**	**485**	**503**	**473**	**556**
ACM in >7mm Sample*	g	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
AF/FA in >2mm to <7mm Sample*	g	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
AF/FA in <2mm Sample*	g	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Asbestos in soil (>7mm ACM)*	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Asbestos in soil (>2mm to <7mm AF/FA)*	%w/w	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<2mm AF/FA)*	%w/w	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<7mm AF/FA)*	%w/w	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Fibre Type*	No unit	-	NAD	NAD	NAD	NAD	NAD

PARAMETER	UOM	LOR	TP046-0.0-0.35 SOIL - 3/4/2018 SE177609.036	TP050-0.0-0.3 SOIL - 3/4/2018 SE177609.037	TP150-0.0-0.3 SOIL - 3/4/2018 SE177609.038	TP047-0.0-0.35 SOIL - 3/4/2018 SE177609.039	TP087-0.0-0.2 SOIL - 3/4/2018 SE177609.040
Total Sample Weight*	g	1	**463**	**585**	**578**	**756**	**692**
ACM in >7mm Sample*	g	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
AF/FA in >2mm to <7mm Sample*	g	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
AF/FA in <2mm Sample*	g	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Asbestos in soil (>7mm ACM)*	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Asbestos in soil (>2mm to <7mm AF/FA)*	%w/w	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<2mm AF/FA)*	%w/w	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<7mm AF/FA)*	%w/w	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Fibre Type*	No unit	-	NAD	NAD	NAD	NAD	NAD

Gravimetric Determination of Asbestos in Soil [AN605] Tested: 13/4/2018 (continued)

PARAMETER	UOM	LOR	TP086-0.0-0.2 SOIL - 3/4/2018 SE177609.041	TP070-0.0-0.2 SOIL - 3/4/2018 SE177609.042	TP075-0.0-0.3 SOIL - 3/4/2018 SE177609.043	TP068-0.0-0.25 SOIL - 3/4/2018 SE177609.044	TP109-0.0-0.3 SOIL - 3/4/2018 SE177609.045
Total Sample Weight*	g	1	**800**	**725**	**672**	**839**	**534**
ACM in >7mm Sample*	g	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
AF/FA in >2mm to <7mm Sample*	g	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
AF/FA in <2mm Sample*	g	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Asbestos in soil (>7mm ACM)*	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Asbestos in soil (>2mm to <7mm AF/FA)*	%w/w	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<2mm AF/FA)*	%w/w	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<7mm AF/FA)*	%w/w	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Fibre Type*	No unit	-	NAD	NAD	NAD	NAD	NAD

PARAMETER	UOM	LOR	TP111-0.0-0.3 SOIL - 3/4/2018 SE177609.046	TP157-0.0-0.7 SOIL - 3/4/2018 SE177609.047	TP156-0.0-0.3 SOIL - 3/4/2018 SE177609.048	TP158-0.0-0.3 SOIL - 3/4/2018 SE177609.049	TP096-0.0-0.4 SOIL - 3/4/2018 SE177609.050
Total Sample Weight*	g	1	**461**	**486**	**783**	**475**	**508**
ACM in >7mm Sample*	g	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
AF/FA in >2mm to <7mm Sample*	g	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
AF/FA in <2mm Sample*	g	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Asbestos in soil (>7mm ACM)*	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Asbestos in soil (>2mm to <7mm AF/FA)*	%w/w	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<2mm AF/FA)*	%w/w	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<7mm AF/FA)*	%w/w	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Fibre Type*	No unit	-	NAD	NAD	NAD	NAD	NAD

METHOD	METHODOLOGY SUMMARY
AN605	This technique gravimetrically determines the mass of Asbestos Containing Material retained on a 7mm Sieve and assumes that 15% of this ACM is asbestos. This calculated asbestos weight is then calculated as a percentage of the total sample weight.
AN605	This technique also gravimetrically determines the mass of Fibrous Asbestos (FA) and Asbestos Fines (AF) Containing Material retained on and passing a 2mm sieve post 7mm sieving. Assumes that FA and AF are 100% asbestos containing. This calculated asbestos weight is then calculated as a percentage of the total sample weight. This does not include free fibres which are only observed by standard trace analysis as per AN 602.
AN605	AMO = Amosite Detected CRY = Chrysotile Detected CRO = Crocidolite Detected ORG = Organic Fibres Detected SMF = Synthetic Mineral Fibres Detected UMF = Unknown Mineral Fibres Detected NAD = No Asbestos Detected
AN605	Insofar as is technically feasible, this report is consistent with the analytical reporting recommendations in the Western Australian Department of Health Guidelines for the Assessment Remediation and Management of Asbestos - Contaminated Sites in Western Australia - May 2009.

FOOTNOTES

*	NATA accreditation does not cover the performance of this service.	-	Not analysed.	UOM	Unit of Measure.
		NVL	Not validated.	LOR	Limit of Reporting.
**	Indicative data, theoretical holding time exceeded.	IS	Insufficient sample for analysis.	↑↓	Raised/lowered Limit of Reporting.
		LNR	Sample listed, but not received.		

Samples analysed as received.
Solid samples expressed on a dry weight basis.

Where "Total" analyte groups are reported (for example, Total PAHs, Total OC Pesticides) the total will be calculated as the sum of the individual analytes, with those analytes that are reported as <LOR being assumed to be zero. The summed (Total) limit of reporting is calculated by summing the individual analyte LORs and dividing by two. For example, where 16 individual analytes are being summed and each has an LOR of 0.1 mg/kg, the "Totals" LOR will be 1.6 / 2 (0.8 mg/kg). Where only 2 analytes are being summed, the " Total" LOR will be the sum of those two LORs.

Some totals may not appear to add up because the total is rounded after adding up the raw values.

If reported, measurement uncertainty follow the ± sign after the analytical result and is expressed as the expanded uncertainty calculated using a coverage factor of 2, providing a level of confidence of approximately 95%, unless stated otherwise in the comments section of this report.

Results reported for samples tested under test methods with codes starting with ARS-SOP, radionuclide or gross radioactivity concentrations are expressed in becquerel (Bq) per unit of mass or volume or per wipe as stated on the report. Becquerel is the SI unit for activity and equals one nuclear transformation per second.
Note that in terms of units of radioactivity:

a. 1 Bq is equivalent to 27 pCi
b. 37 MBq is equivalent to 1 mCi

For results reported for samples tested under test methods with codes starting with ARS-SOP, less than (<) values indicate the detection limit for each radionuclide or parameter for the measurement system used. The respective detection limits have been calculated in accordance with ISO 11929.

The QC criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here : http://www.sgs.com.au/~/media/Local/Australia/Documents/ Technical%20Documents/MP-AU-ENV-QU-022%20QA%20QC%20Plan.pdf

This document is issued by the Company under its General Conditions of Service accessible at www.sgs.com/en/Terms-and-Conditions.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client only. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law .

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SAMPLE RECEIPT ADVICE

SE177609

CLIENT DETAILS

Contact	Craig Cowper
Client	ALLIANCE GEOTECHNICAL PTY LTD
Address	10 Welder Road Seven Hills NSW 2147
Telephone	0407 989 885
Facsimile	02 9675 1888
Email	c.cowper@allgeo.com.au
Project	**6930 Austral**
Order Number	**P1025**
Samples	50

LABORATORY DETAILS

Manager	Huong Crawford
Laboratory	SGS Alexandria Environmental
Address	Unit 16, 33 Maddox St Alexandria NSW 2015
Telephone	+61 2 8594 0400
Facsimile	+61 2 8594 0499
Email	au.environmental.sydney@sgs.com
Samples Received	Thu 5/4/2018
Report Due	Tue 17/4/2018
SGS Reference	**SE177609**

SUBMISSION DETAILS

This is to confirm that 50 samples were received on Thursday 5/4/2018. Results are expected to be ready by COB Tuesday 17/4/2018. Please quote SGS reference SE177609 when making enquiries. Refer below for details relating to sample integrity upon receipt.

Samples clearly labelled	Yes	Complete documentation received	Yes
Sample container provider	Client	Sample cooling method	Ice Bricks
Samples received in correct containers	Yes	Sample counts by matrix	50 Soil
Date documentation received	5/4/2018	Type of documentation received	COC
Samples received in good order	Yes	Samples received without headspace	N/A
Sample temperature upon receipt	8.1°C	Sufficient sample for analysis	Yes
Turnaround time requested	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.

SAMPLE RECEIPT ADVICE

SE177609

CLIENT DETAILS

Client ALLIANCE GEOTECHNICAL PTY LTD

Project 6930 Austral

SUMMARY OF ANALYSIS

No.	Sample ID	Gravimetric Determination of Asbestos in Soil
001	TP038-0.0-0.25	9
002	TP159-0.0-0.2	9
003	TP084-0.0-0.3	9
004	TP160-0.0-0.3	9
005	TP101-0.0-0.3	9
006	TP161-0.0-0.0-0.3	9
007	TP173-0.0-0.2	9
008	TP099-0.0-0.2	9
009	TP110-0.0-0.3	9
010	TP100-0.0-0.4	9
011	TP165-0.0-0.3	9
012	TP154-0.0-0.3	9
013	TP058-0.0-0.4	9
014	TP149-0.0-0.3	9
015	TP143-0.0-0.3	9
016	TP082-0.0-0.3	9
017	TP155-0.0-0.3	9
018	TP162-0.0-0.3	9
019	TP164-0.0-0.3	9
020	TP140-0.0-0.3	9
021	TP141-0.0-0.3	9
022	TP163-0.0-0.3	9
023	TP174-0.0-0.2	9
024	TP166-0.0-0.2	9

CONTINUED OVERLEAF

The above table represents SGS' interpretation of the client-supplied Chain Of Custody document.
The numbers shown in the table indicate the number of results requested in each package.
Please indicate as soon as possible should your request differ from these details .
Testing as per this table shall commence immediately unless the client intervenes with a correction .

SAMPLE RECEIPT ADVICE

SE177609

CLIENT DETAILS

Client ALLIANCE GEOTECHNICAL PTY LTD

Project 6930 Austral

SUMMARY OF ANALYSIS

No.	Sample ID	Gravimetric Determination of Asbestos in Soil
025	TP167-0.0-0.2	9
026	TP095-0.0-0.3	9
027	TP142-0.0-0.3	9
028	TP175-0.0-0.4	9
029	TP151-0.0-0.3	9
030	TP153-0.0-0.3	9
031	TP094-0.0-0.3	9
032	TP051-0.0-0.35	9
033	TP085-0.0-0.2	9
034	TP152-0.0-0.4	9
035	TP031-0.0-0.25	9
036	TP046-0.0-0.35	9
037	TP050-0.0-0.3	9
038	TP150-0.0-0.3	9
039	TP047-0.0-0.35	9
040	TP087-0.0-0.2	9
041	TP086-0.0-0.2	9
042	TP070-0.0-0.2	9
043	TP075-0.0-0.3	9
044	TP068-0.0-0.25	9
045	TP109-0.0-0.3	9
046	TP111-0.0-0.3	9
047	TP157-0.0-0.7	9
048	TP156-0.0-0.3	9

CONTINUED OVERLEAF

The above table represents SGS' interpretation of the client-supplied Chain Of Custody document.
The numbers shown in the table indicate the number of results requested in each package.
Please indicate as soon as possible should your request differ from these details .
Testing as per this table shall commence immediately unless the client intervenes with a correction .

SAMPLE RECEIPT ADVICE

SE177609

CLIENT DETAILS

Client ALLIANCE GEOTECHNICAL PTY LTD

Project 6930 Austral

SUMMARY OF ANALYSIS

No.	Sample ID	Gravimetric Determination of Asbestos in Soil
049	TP158-0.0-0.3	9
050	TP096-0.0-0.4	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 .

source: ALX_EHS_OFFICE_X585_20180406135723.pdf page: 3 SGS Ref: SE177609_COC

CHAIN OF CUSTODY & ANALYSIS REQUEST

SGS Environmental Services
Unit 16, 33 Maddox Street
Alexandria NSW 2015
Telephone No: (02) 85940400
Facsimile No: (02) 85940499
Email: au.samplereceipt.sydney@sgs.com

Company Name:	Alliance Geotechnical	Project Name/No:	6930 - Austral
Address:	10 Welder Road,	Purchase Order No:	P1025
	Seven Hills NSW	Results Required By:	5 day TAT
		Telephone:	1800 288 188
Contact Name:	Craig Cowper	Facsimile:	N/A
		Email Results:	enviro@allgeo.com.au

Client Sample ID	Date Sampled	Lab Sample ID	WATER	SOIL	PRESERVATIVE	NO OF CONTAINERS	ENM Suite (no FM)	Asbestos I.D Soil Material	Field Screen – pHf / oHfox	Chromium Suite	Metals	PAH	OCP/OPP	Asbestos 0.001%
TP038-0.0-0.25	3/4/18	1		X		1								X
TP159-0.0-0.2	3/4/18	2		X		1								X
TP084-0.0-0.3	3/4/18	3		X		1								X
TP160-0.0-0.3	3/4/18	4		X		1								X
TP101-0.0-0.3	3/4/18	5		X		1								X
TP161-0.0-0.3	3/4/18	6		X		1								X
TP173-0.0-0.2	3/4/18	7		X		1								X
TP099-0.0-0.2	3/4/18	8		X		1								X
TP110-0.0-0.3	3/4/18	9		X		1								X

SGS EHS Alexandria Laboratory

SE177609 COC

Received: 05 – Apr – 2018

Relinquished By:	Date/Time: 05/04/2018 @1200	Received By:	Date/Time 5/4/18 @400
Relinquished By:	Date/Time:	Received By:	Date/Time
Samples Intact: (Yes) No	Temperature: (Ambient) / Chilled	Sample Cooler Sealed: (Yes) No	Laboratory Quotation No:
	Comments:		$50 / sample Email dated 15/03/18

CHAIN OF CUSTODY & ANALYSIS REQUEST

SGS Environmental Services
Unit 16, 33 Maddox Street
Alexandria NSW 2015
Telephone No: (02) 85940400
Facsimile No: (02) 85940499
Email: au.samplereceipt.sydney@sgs.com

Company Name:	Alliance Geotechnical	Project Name/No:	6930 - Austral
Address:	10 Welder Road,	Purchase Order No:	P1025
	Seven Hills NSW	Results Required By:	5 day TAT
		Telephone:	1800 288 188
Contact Name:	Craig Cowper	Facsimile:	N/A
		Email Results:	enviro@allgeo.com.au

Client Sample ID	Date Sampled	Lab Sample ID	WATER	SOIL	PRESERVATIVE	NO OF CONTAINERS	ENM Suite (no FM)	Asbestos I.D Bulk Material	Field Screen – pHf / oHfox	Chromium Suite	Metals	PAH	OCP/OPP	Asbestos 0001							
TP100-0.0-0.4	3-4-18	10		X		1								X							
TP165-0.0-0.3		11		X		1								X							
TP154-0.0-0.3		12		X		1								X							
TP053-0.0-0.4		13		X		1								X							
TP149-00-0.3		14		X		1								X							
TP143-00-0.3		15		X		1								X							
TP081-0.0-0.3		16		X		1								X							
TP155-0.0-0.3		17		X		1								X							
TP162-0.0-0.3		18		X		1								X							

Relinquished By:	Date/Time: 05/04/18 @ 1200	Received By: EA	Date/Time 5/4/18 @ 4.00
Relinquished By:	Date/Time:	Received By:	Date/Time
Samples Intact: Yes/ No	Temperature: Ambient / Chilled	Sample Cooler Sealed: Yes/ No	Laboratory Quotation No:
	Comments:		

CHAIN OF CUSTODY & ANALYSIS REQUEST

SGS Environmental Services
Unit 16, 33 Maddox Street
Alexandria NSW 2015
Telephone No: (02) 85940400
Facsimile No: (02) 85940499
Email: au.samplereceipt.sydney@sgs.com

Company Name:	Alliance Geotechnical	Project Name/No:	6930 - Austral
Address:	10 Welder Road,	Purchase Order No:	~~NIF~~ P1025
	Seven Hills NSW	Results Required By:	5 day TAT
		Telephone:	1800 288 188
Contact Name:	Craig Cowper	Facsimile:	N/A
		Email Results:	enviro@allgeo.com.au

Client Sample ID	Date Sampled	Lab Sample ID	WATER	SOIL	PRESERVATIVE	NO OF CONTAINERS	ENM Suite (no FM)	Asbestos I.D Build Natural	Field Screen – pHf / oHfox	Chromium Suite	Metals	PAH	OCP/OPP	Asbestos 001								
TP164-0.0-0.3	3/4/18	19		X		1								X								
TP145-0.0-0.3	3/4/18	20		X		1								X								
TP141-0.0-0.3	3/4/18	21		X		1								X								
TP163-0.0-0.3	3/4/18	22		X		1								X								
TP174-0.0-0.2	3/4/18	23		X		1								X								
TP146-0.0-0.2	3/4/18	24		X		1								X								
TP167-0.0-0.2	3/4/18	25		X		1								X								
TP095-0.0-0.3	3/4/18	26		X		1								X								
TP142-0.0-0.3	3/4/18	27		X		1								X								

Relinquished By:	Date/Time: 05/04/18 @1200	Received By: EA	Date/Time 5/4/18 @4:00
Relinquished By:	Date/Time:	Received By:	Date/Time
Samples Intact: Yes/ No	Temperature: Ambient / Chilled	Sample Cooler Sealed: Yes/ No	Laboratory Quotation No:
	Comments:		

CHAIN OF CUSTODY & ANALYSIS REQUEST

SGS Environmental Services
Unit 16, 33 Maddox Street
Alexandria NSW 2015
Telephone No: (02) 85940400
Facsimile No: (02) 85940499
Email: au.samplereceipt.sydney@sgs.com

Company Name: Alliance Geotechnical
Address: 10 Welder Road,
Seven Hills NSW
Contact Name: Craig Cowper

Project Name/No: 6930 - Austral
Purchase Order No: P1025
Results Required By: 5 day TAT
Telephone: 1800 288 188
Facsimile: N/A
Email Results: enviro@allgeo.com.au

Client Sample ID	Date Sampled	Lab Sample ID	WATER	SOIL	PRESERVATIVE	NO OF CONTAINERS	ENM Suite (no FM)	Asbestos I.D Bonded material	Field Screen – pHf / nHfox	Chromium Suite	Metals	PAH	OCP/OPP	Asbestos 0001							
TP175-0.0-0.4	3/4/18	28		X		1								X							
TP151-0.0-0.3	3/4/18	29		X		1								X							
TP153-0.0-0.3	3/4/18	30		X		1								X							
TP094-0.0-0.3	3/4/18	31		X		1								X							
TP051-0.0-0.35	3/4/18	32		X		1								X							
TP085-0.0-0.2	3/4/18	33		X		1								X							
TP152-0.0-0.4	3/4/18	34		X		1								X							
TP031-0.0-0.35	3/4/18	35		X		1								X							
TP046-0.0-0.35	3/4/18	36		X		1								X							

Relinquished By:	Date/Time: 05/04/18 @ 1200	Received By: EK	Date/Time 5/4/18 @ 4.00
Relinquished By:	Date/Time:	Received By:	Date/Time
Samples Intact: Yes/ No	Temperature: Ambient / Chilled	Sample Cooler Sealed: Yes/ No	Laboratory Quotation No:
	Comments:		

CHAIN OF CUSTODY & ANALYSIS REQUEST

SGS Environmental Services
Unit 16, 33 Maddox Street
Alexandria NSW 2015
Telephone No: (02) 85940400
Facsimile No: (02) 85940499
Email: au.samplereceipt.sydney@sgs.com

Company Name: Alliance Geotechnical
Address: 10 Welder Road,
Seven Hills NSW
Contact Name: Craig Cowper

Project Name/No: 6930 - Rustral
Purchase Order No: ~~AWF~~ P1025
Results Required By: 5 day TAT
Telephone: 1800 288 188
Facsimile: N/A
Email Results: enviro@allgeo.com.au

Client Sample ID	Date Sampled	Lab Sample ID	WATER	SOIL	PRESERVATIVE	NO OF CONTAINERS	ENM Suite (no FM)	Asbestos I.D Bulk Material	Field Screen – pHf / pHfox	Chromium Suite	Metals	PAH	OCP/OPP	Asbestos 0.001%							
TP050-0.0-0.3	3-4-18	37		X		1								X							
TP150-00-0.3	3-4-18	38		X		1								X							
TP047-0.0-0.35	3-4-18	39		X		1								X							
TP087-00-0.2	3-4-18	40		X		1								X							
TP086-0.0-0.2	3-4-18	41		X		1								X							
TP070-0.0-0.2	3-4-18	42		X		1								X							
TP075-0.0-0.3	3-4-18	43		X		1								X							
TP068-00-0.25	3-4-18	44		X		1								X							
TP109-0.0-0.3	3-4-18	45		X		1								X							

Relinquished By: ~~esta~~ [signature]
Date/Time: 05/09/18 @ 1200
Received By: EA
Date/Time: 5/4/18 @ 4.00

Relinquished By:
Date/Time:
Received By:
Date/Time

Samples Intact: Yes/ No
Temperature: Ambient / Chilled
Sample Cooler Sealed: Yes/ No
Laboratory Quotation No:

Comments:

CHAIN OF CUSTODY & ANALYSIS REQUEST

SGS Environmental Services
Unit 16, 33 Maddox Street
Alexandria NSW 2015
Telephone No: (02) 85940400
Facsimile No: (02) 85940499
Email: au.samplereceipt.sydney@sgs.com

Company Name: Alliance Geotechnical
Address: 10 Welder Road,
Seven Hills NSW
Contact Name: Craig Cowper

Project Name/No: 6930 - Austral
Purchase Order No: ~~6947~~ P1025
Results Required By: 5 day TAT
Telephone: 1800 288 188
Facsimile: N/A
Email Results: enviro@allgeo.com.au

Client Sample ID	Date Sampled	Lab Sample ID	WATER	SOIL	PRESERVATIVE	NO OF CONTAINERS	ENM Suite (no FM)	Asbestos I.D Bulk material	Field Screen – pHf / pHfox	Chromium Suite	Metals	PAH	OCP/OPP	%Asbestos 0.001								
TP11-0.0-0.3	3/4/18	46		X		1								X								
TP157-0.0-0.7	3/4/18	47		X		1								X								
TP156-0.0-0.3	3-4-18	48		X		1								X								
TP158-0.0-0.3	3-4-18	49		X		1								X								
TP06-0.0-0.3	3-4-18	50		X		1								X								
				X										X								
				X										X								
				X										X								
				X										X								

Relinquished By: [signature] Date/Time: 05/04/18 Received By: Date/Time
Relinquished By: Date/Time: Received By: Date/Time
Samples Intact: Yes/ No Temperature: Ambient / Chilled Sample Cooler Sealed: Yes/ No Laboratory Quotation No:
Comments: