



15th September 2021

The Planning Secretary
Department of Planning, Industry & Environment
320 Pitt Street
Sydney, NSW 2000

Attention: Megan Fu
Project: Nihon University Newcastle Campus - SSD 9787
Re: Conditions of Consent 30

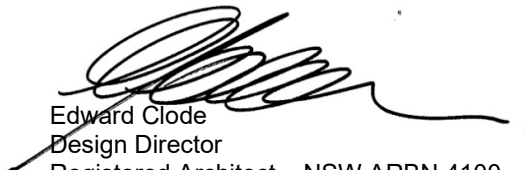
Dear Megan,

Reference is made to SSD 9787 Conditions of Consent E30 in relation to the Site Contamination requirements to the development.

A Validation Report has been prepared to address the requirements of Conditions of Consent E30. The report has been prepared by a certified Contaminated Land Consultant in accordance with the remediation action plan approved by a NSW EPA Accredited Site Auditor pursuant to condition A19. In accordance with Condition of Consent 30, please find attached a copy of the Validation Report. A copy of the report has been forwarded to the Site Auditor and the Certifier.

Should you require further clarification on the Validation Report, please feel free to contact either Katherine Daunt or Edward Clode at dwp Australia Pty.

Yours sincerely,



Edward Clode
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File: 17-0347_A-d01-20_let
Encl.: Douglas Patners Validation Report 10.09.2021

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Douglas Partners

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Report on
Validation of Remediation

Nihon University
9 Church Street, Newcastle

Prepared for
Nihon Daigaku Australia Newcastle Pty Ltd

Project 91667.03
September 2021



Document History

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

Signature	Date
Author 	15 September 2021
Reviewer  CEnvP – No. SC41163	15 September 2021



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Executive Summary

This report presents the results of inspections and validation of site remediation conducted by Douglas Partners Pty Ltd (DP) for the redevelopment of the former Newcastle Courthouse to the Nihon University at 9 Church Street Newcastle.

DP conducted validation inspections and testing (where required) during construction within the site as part of the Nihon University development to render the site suitable for the proposed university campus.

Previous investigations conducted by DP within the site indicated the presence of bonded asbestos contamination within filling across the site. On the basis of the identified contamination and the proposed development, the proposed remediation strategy comprised on-site management of identified contamination beneath the existing building (former Courthouse retained as part of the development), proposed buildings, pavements or beneath 'clean' soil capping.

Surplus materials generated during the development were classified with reference to NSW EPA waste classification guidelines and disposed off-site to an appropriately licensed landfill. We believe that the disposal of surplus fill/soil from the site during construction has been conducted in general accordance with the approved RAP (DP, 2020a) and the relevant waste management regulatory requirements.

Imported materials utilised for construction works and capping comprised a range of VENM and resource recovery exempt (RRE) materials. The imported materials are therefore considered to be suitable for use at the site with respect to site contamination and waste management regulatory requirements.

On-site management via capping has been successfully conducted across the entire site utilising existing and new buildings, new pavements and new landscape areas. Capping layers are generally underlain by either a black plastic marker layer (beneath concrete pavements/slabs) or an orange geofabric marker layer (beneath garden beds/asphalt pavements).

On the basis of the validation works during remediation, the site is considered to be suitable for the university campus from a contamination perspective, subject to the implementation of a Long-term Site Management Plan for the university to effectively manage contamination on-site via capping.

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	ADW Johnson Detailed Survey of Lot 1 DP 1199904 (Ref 239815-DET-001-A dated 10.09.18)
	Marshall Scott Work-As-Executed Plan (Ref 22606 dated 8.7.2020)
	Built – Markup of DWP-AR-A020 Rev 15
	Moir LP02 (Rev M) - General Arrangement Plan dated 21.05.2021
	Moir - LP17 (Rev M) - Remediation Action Plan dated 30.08.2021
	Geosurv Asbuilt Remediation Layers Plans (191196-AB-R-01 (E) dated 6 Sept 2021)
Appendix B:	Table A1 – Imported Materials & associated delivery dockets and tracking documentation supplied by Built
	Table A2 – Exported Materials & associated delivery dockets and tracking documentation supplied by Built
	Imported Materials (digital only) – Supporting Documentation (delivery dockets/receipts, photos)
	Exported Materials (digital only) – Supporting Documentation (disposal dockets/receipts, waste tracking dockets, photos)
	Waste Classification Reports (by DP and ADE – digital only)
	Environmental Protection Licences for Summerhill Waste Management Centre & Suez Raymond Terrace Waste Management Centre
Appendix C:	Air Monitoring Reports
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Report on Validation of Remediation

Nihon University

9 Church Street, Newcastle

1. Introduction

1.1 General

This report presents the results of validation of remediation undertaken for the development of Nihon University at 9 Church Street, Newcastle. The work was commissioned by Built Pty Ltd on behalf of Nihon Daigaku Australia Newcastle Pty Ltd and was undertaken with reference to Douglas Partners Pty Ltd (DP) proposal NCL190520 dated 11 September 2019 and subsequent email of 1 July 2020.

The report has been developed on the basis of available standards and guidelines, and with reference to the Remediation Action Plan (RAP) for the site (DP, 2020a) and previous investigations undertaken at the site as follows:

- “Report on Detailed Site Investigation”, Report No 91667.02.R.003.Rev2, 23 April 2020 (DP, 2020c);
- “Report on Stormwater Easement Management Strategy”, Report No 91667.03.R.001.Rev1, 6 July 2020 (DP, 2020b).

This validation report details the aims, methods and procedures by which the remediation and site validation was achieved within the development area to enable construction of the University development.

The remediation strategy conducted in conjunction with the staged development of the site comprised a combination of the following:

- Excavation and removal of surplus impacted fill/soils with disposal to an appropriately licensed landfill to facilitate construction;
- Excavation of impacted soils within the central stormwater easement and installation of a new stormwater pipe with clean imported backfill materials with reference to DP (2020b);
- Capping of remaining impacted soils within the development area with reference to DP(2020a).

This validation report is subject to review and approval by the NSW EPA-accredited Auditor for the site, Mr Ian Gregson.

1.2 Objectives

The objective of remediation and validation was to manage the identified and potential contamination in an acceptable manner, with minimal environmental impact, to a condition suitable for the proposed university development.

The remediation strategy for the site as outlined in the Auditor-approved RAP (DP, 2020a) was to construct a capping over 'the site' to prevent accessibility. The capping layer was to comprise either concrete building slabs and pavements, clean imported filling (virgin excavated natural material (VENM) or excavated natural material (ENM)), resource recovery exempt materials (RRE) or validated on-site soils within landscape areas. We note that validated on-site soils have not been used within landscape areas.

2. Review of Site Information

2.1 Site Identification

The site is described as part Lot 1 DP 1199904, 9 Church Street, Newcastle, NSW and comprises a rectangular shaped area of approximately 4880 m². The site excludes a variable width easement for services along the western boundary of Lot 1 which falls outside the development footprint.

The site was formerly known as the Newcastle Courthouse which comprised three adjoining structures – the original Courthouse (central building nominated "Building B" which was retained during construction), the Administration Building and the Supreme Court Building with a rear carpark (south-east corner) and landscape areas. The site is shown on Drawing 1 in Appendix A (with the former Newcastle Courthouse building layouts), Geosurv Asbuilt Remediation Layers Plans in Appendix A and as shown in Figure 1 below.

The site contains a number of easements, which are outlined on the ADW Johnson Pty Ltd (ADW) detailed survey plan (provided in Appendix A), including the following:

- A 3 m wide central stormwater easement through the site on the eastern side of the original courthouse building;
- A 1.7 m wide easement for services along the northern portion of the eastern site boundary;
- A 3 m wide restriction of use easement on the eastern site boundary adjacent to the Police Station.

The site is currently zoned B4 Mixed Use under the current Newcastle City Council Local Environment Plan.



Figure 1: Approximate extent of development area ('the site') in red, Nihon University (Metromap Image dated 6 June 2020)

2.2 Proposed Development

The redevelopment of the site for the Nihon University included the following:

- Demolition of the existing Administration Building and Supreme Court Building;
- Retention of the central original heritage listed Court House Building and change of use from a 'Public Administration Building' to an 'Educational Establishment';
- Construction of two four-storey buildings consisting of a 108 bed 'Student Accommodation Building' (east wing – Building C) and an 'Education Building' (west wing – Building A), both connected to the proposed 'Public Building' by atria. A carpark for 20 cars is contained on the lowest level of the 'Education Building';
- Heritage listed retaining walls along the southern and western boundary of the site have been retained;
- Construction of retaining walls up to 6 m in height along the southern and western boundaries;
- Decommissioning of the former tunnel which connected the site to the adjacent Police Station (immediately east of site);
- Installation of a new stormwater pipeline within the central easement (eastern side of the original courthouse).

Localised cuts typically up to 1 m to 2 m were required for construction with localised deeper cuts required for the proposed rainwater tank and lift wells.

The following is understood from discussions with Built regarding the tunnel beneath the former Administration Building:

- The former tunnel was sealed off at either end, partly demolished to remove the roof and top half of the walls and backfilled with fine crushed rock (FCR) imported as VENM from the Boral Seaham quarry;
- The surrounding excavation resulting from demolition of the tunnel and ex-Administration Building was backfilled using imported FCR from Boral and site-crushed materials (concrete, bricks, ceramics) (ADE, 2020b);
- ACM utilised as formwork for the walls and roof of the tunnel were exposed during the decommissioning works. Where exposed and disturbed during earthworks the ACM sheeting was collected and disposed off-site to a licensed landfill (with other ACM demolition wastes). The remaining ACM formwork was left in-situ and capped beneath the new building slabs;
- Air monitoring was undertaken by ADE during asbestos removal/disturbance works conducted by the licensed contractor (Drumberg) under appropriate SafeWork NSW notification/licenses.

A stormwater easement was diverted within the site as shown on the proposed Cardno's Stormwater Diversion plans and Marshall Scott's Work-As-Executed Plans in Appendix A. The excavation trench was re-instated with clean materials to minimise restrictions for future maintenance (ie no capping of contaminated soils within the excavation trench). The service trench sides were lined with a geotextile marker layer and backfilled with clean soils as discussed below and in accordance with DP (2020b).

This RAP related to the remediation of contaminated soils via capping through the construction of buildings slabs and pavements, along with capped landscaping areas. Excavation of upper filling and some natural soils was required across large portions of the site for construction within the development area due to level changes, demolition of footings, piling and grouting operations, however, no areas were stripped and validated. The site (including retention of the Courthouse building) was therefore capped as part of the development works to prevent accessibility to remaining impacted soils.

2.3 Geology and Hydrogeology

Reference to the Newcastle Coalfields Surface Geology Sheet, published by BHP, indicates that the site is underlain by the Lambton sub-group rocks of the Newcastle Coal Measures. The rocks are of Permian age and typically comprise sandstone, siltstone, claystone and multiple coal seams.

The subsurface conditions encountered in the bores / pits conducted for the DSI (DP, 2020c), geotechnical investigation (DP, 2020d) and mine subsidence investigation (DP, 2020e) are presented in detail in the borehole / test pit logs in DP (2020c) and summarised below. These should be read in conjunction with the general notes preceding them (DP, 2020c), which explain definitions of the classification methods and descriptive terms. Soil units are described in detail in DP (2020c).

CONCRETE:	Encountered in Bore 201, 202 and Geo1 and Pits 302, 303, 304 and 306 from the ground surface to a depth of 0.09 m to 0.15 m.
ASPHALT:	Encountered in Bore 201 from 0.17 m to 0.19 m and Bores 203 and MS4 from the ground surface to depths of 0.09 m to 0.03 m respectively.
FILLING (Unit 1):	Encountered in all bores / pits except Geo2 from the surface to 0.1 m / 3.3 m depth and generally comprised sandy gravel / gravelly sands pavement fill with trace slag, coal, ash, asphalt in some bores, underlain by silty clay, clayey sand, sand, silty sand, gravelly silt, sandy gravel, fill with trace coal, slag, ash, asphalt, brick, concrete, tiles, glass, metal, wood, plastic, geo-fabric, shell, fibro sheeting fragments (potential ACM) in some bores / pits.
SANDS (Unit 2A):	Encountered in Bore 203 from 1.6 m to 2.6 m depth, Geo1 from 3.3 m to 11.7 m depth, Geo2 from 0.1 m to 2.5 m depth and Pits 301 to 304 and Pits 308, 309 from depths of 0.3 m / 0.8 m to depths of >0.8 m to >1.2 m and generally comprising pale grey / grey / brown mottled orange / yellow / dark brown clayey silty sand / clayey sand / sands / silty sands with trace coal / gravel.
SILTY CLAY / SANDY CLAY (Unit 2B):	Encountered in all bores beneath fill / sands to depths of 4.8 m to 12.1 m and in Pits 306 and 310 beneath filling to termination at depths of 0.7 m to 0.9 m and generally comprised pale grey, brown or grey mottled red / orange clays / silty clays / sandy clays with trace coal and iron cementing.
SILTSTONE / CLAYSTONE (UNIT 3):	Encountered in all bores beneath clays to termination at depths of 10 m and 12 m in Bores 201 to 203 and generally comprised pale grey to grey mottled red, slightly to extremely weathered siltstone / claystone. Dark grey carbonaceous bands were observed at 9 m in Bore 201. Refer to DP (2020a) for bedrock conditions in geotechnical bores.

Based on acid sulfate soils (ASS) mapping, there are no known occurrences of ASS in the immediate area of the proposed development.

Groundwater was reported to be present (Cardno, 2018) as a shallow rock aquifer approximately 8 m bgl to 12 m bgl. It is noted that shallow (perched) groundwater may be present within the fill (or soil) / bedrock interface. It is understood that the Cardno (2018) geotechnical report encountered groundwater inflow during drilling of BH01 (south-east corner of the site) at a depth of 8 m bgl, and seepage during drilling of BH3 to the north of north-western corner of the site at about 12 m bgl, both in extremely weathered bedrock (silty CLAY).

Similarly, to the Cardno (2018) findings, groundwater was encountered during the DSI (DP, 2020a) within Bore 201 during drilling at approximately 8 m depth within the highly weathered siltstone. Groundwater was also measured at 7.65 m depth in Bore 203 within the highly weathered siltstone prior to recommencement of drilling (open borehole left open overnight). Subsequent gauging of the installed wells (Bores 201 to 203) on 7 January 2020 prior to purging indicated groundwater levels varied from approximately 6.7 m (RL 15.8) to 11.1 m (RL 11.3) below ground level. Groundwater was not encountered within any of the test pits while they remained open.

It should be noted that groundwater levels are affected by factors such as climatic conditions and soil permeability and will therefore vary with time. Based on site topography, the groundwater flow direction is likely to be towards the north/north-west. Refer to Drawing 1 in Appendix A for approximate previous test locations.

3. Results of Previous Investigations

The results of the DSI (DP, 2020c) indicated the following:

- Previous investigations by others (Prensa, 2016) confirmed the presence of elevated contaminants at the site (namely PAHs and lead) above the adopted landuse criteria (ie high density residential land use with minimal access to soil) for the proposed university development;
- Additional contamination testing by DP (2020c) confirmed the presence of similar contaminants within soils/fill and similar exceedances of the adopted health-based NEPC (2013) SAC (ie PAHs, lead), however, statistical analysis indicated that 95% UCL concentrations were within the adopted site criteria;
- Bonded ACM, however, was confirmed within filling (DP, 2020c) under both buildings (east and west), and within the car park and landscape areas (ie all areas of the site proposed for development). Although a detailed asbestos assessment was not conducted, the frequency of ACM observed was deemed to exceed NEPC (2013) concentration limits based on site observations. Site remediation was therefore required to address ACM impacts across the site. Given the widespread distribution of filling across the site containing building rubble and the observed occurrence of ACM within subsurface formwork, further ACM was considered likely to be present within the site. On this basis, it was concluded that all fill materials across the site must be considered to be impacted with ACM in the absence of a detailed asbestos investigation and validation as a precautionary measure. It is noted that the central Court House Building was to remain, and although the risk of impacted filling beneath this building may be considered to be low (due to the age of the building), the presence of impacted filling across the entire site has been adopted as a precautionary measure in the absence of subsurface investigations beneath the central Court House building;
- Elevated copper, lead, nickel, zinc and TRH ($>C_{16}-C_{34}$) within fill / soil was also identified above the adopted ecological based SAC (ie EIL / ESL) at several locations. The DSI (DP, 2020c) noted that the adopted EILs were derived using conservative soil parameters in the absence of site-specific soil testing. DP (2020c) also noted that the ecological significance of the site is considered to be low considering the site condition and the proposed development;
- Fill materials tested met the criteria for classification as 'General Solid Waste' based on total and leachable concentrations. Asbestos impacted soils would be classified as 'Special Waste' (asbestos waste) in addition to the classification of the soil matrix. ACM was considered likely to be present in upper fill across the site;

- Previous leachability testing in water of two samples with elevated PAHs (Prensa, 2016) indicated the materials tested had a low propensity to leach PAHs. Leachability testing in water of one soil sample with elevated lead (DP, 2020a) indicated that the material had some potential to leach in water, with concentrations above ANZG (2018) criteria. It was noted, however, that the ASLP test method is an aggressive procedure which involves the tumbling of the sample in a leachant (ie distilled water) for a period of 16 to 20 hours, which is not likely to represent natural processes (ie infiltration of rainwater through the material). It was further noted that the lead impact is associated with localised near surface filling, and groundwater (the potential receptor) is located beneath low permeability residual soils at depths >6 m (ie not in contact with upper fill materials). The results of existing groundwater quality testing also indicated the absence of elevated lead concentrations (ie general absence of impacts to groundwater due to elevated lead concentration in upper fill materials);
- Groundwater testing (DP, 2020c) was generally within the adopted guidelines with the exception of heavy metal concentrations (namely nickel and zinc) which were marginally above the adopted criteria (GILs for marine waters). It was noted that the groundwater concentrations in the up-gradient well (Bore 203) was typically higher or commensurate with concentrations detected in downgradient wells. It was also noted that no obvious visual or olfactory indications of impact to groundwater (ie no obvious staining, odours, slicks or free product) were detected during purging / sampling and no detectable concentrations of hydrocarbons (TRH, BTEX, PAH, VOCs) were identified within groundwater samples;
- Ground gas monitoring (DP, 2020c) indicated the general absence of mine gases or volatile hydrocarbons associated with USTs associated infrastructure and wash bay on the adjacent Police Station, within the bores and existing buildings / site grounds;
- General absence of significant aesthetic issues associated with site contamination.

Based on the DSI (DP, 2020c) findings, DP advised that remediation / management would be required to render the site suitable for the proposed educational facility from a contamination perspective due to the bonded ACM in fill materials across the site.

While PAH, heavy metal and TRH impacts were identified on site exceeding the adopted Tier 1 health and ecological investigation / screening levels, remediation for these contaminants was not considered to be warranted based on statistical analysis and consideration of the ecological setting and the proposed development.

It was also considered that the contaminated fill/soil materials identified on-site are unlikely to be having a significant adverse impact on the groundwater quality and down-gradient receiving water quality given the nature of the contaminants, distribution across the site and the depth and nature of the groundwater identified on-site.

DP noted that the results of the investigations suggest that the USTs on the adjacent Police Station have not resulted in significant contamination to the subject site. In addition, the results of preliminary screening for HGG suggests a risk classification of very low to low with reference to NSW EPA (2019).

DP noted that management of the ACM impacted fill materials under a suitable capping layer to prevent access/exposure from a contamination perspective could be considered at the site. Given the proposed development will comprise buildings with concrete slabs and concrete pavements across the majority of the site (ie with minor landscaping), the proposed development could be used to manage site contamination (ie achieve capping of the entire site).

The results of previous investigations indicate that the bonded ACM impacted soils are situated broadly across the site within filling and also within formwork associated with the central Courthouse building and tunnel which will be retained on-site. Remediation via excavation, stripping and off-site disposal of impacted materials, was therefore not likely to be feasible from both a practical, cost-effective or time-effective perspective based on discussions with the client/developer.

Based on the previous investigations, DP concluded that the site was considered to be suitable for the proposed educational development, subject to appropriate remediation / management of contamination and regulatory approvals.

4. Conceptual Site Model

A Conceptual Site Model (CSM) was prepared for the site with reference to the NEPC (2013). The CSM identified potential contaminant sources and contaminants of concern, contaminant release mechanisms, exposure pathways and potential receptors. The updated CSM identified sources of contamination based on the results of the detailed site investigation (DP, 2020c) and is presented in Table 1 below.

The proposed remediation strategy as presented in the RAP (DP, 2020a) was to manage bonded asbestos impacted soils beneath a suitable capping layer to prevent accessibility. The capping layer was to comprise a concrete slab (ie existing and proposed building floor slabs / concrete pavements or a suitable imported clean (ie VENM/ENM) soil or validated on-site soil capping layer in landscape areas. This remediation approach was adopted to inhibit the potential exposure pathways described below in Table 1.

Table 1: Conceptual Site Model

Known Sources	Primary Release Mechanism	Secondary Release Mechanism	Impacted Media	Identified Contaminants of Concern	Exposure Pathway	Potential Receptors	
						Current	Future
Filling imported across the site	Placement of filling on-site	Exposure / disturbance during proposed development	Soil	Asbestos	Inhalation (dust), ingestion	Site workers, maintenance workers, consultants, trespassers, surface water bodies, groundwater, neighbouring properties in the case of groundwater or surface water migration	Site workers, residents, maintenance workers, consultants, trespassers, surface water bodies, groundwater, neighbouring properties in the case of groundwater or surface water migration
Demolition of former structures or maintenance, renovations to existing / former buildings, underground formwork containing ACM	Demolition / maintenance of buildings / structures	Exposure / disturbance during proposed development	Soil	Asbestos	Inhalation (dust), ingestion		

5. Remediation Goals and Acceptance Criteria

5.1 Remediation Goals

The main objective of this remediation approach was to place bonded asbestos contaminated soil beneath a suitable capping layer to prevent exposure and accessibility. As noted above, given the widespread distribution of filling across the site containing building rubble and the observed occurrence of ACM within subsurface formwork, further ACM was likely to be present within the site. As such capping of the entire site was required as a precautionary measure in the absence of detailed asbestos assessment and validation.

The capping layer was to comprise:

- A concrete slab/pavement (ie proposed concrete building slabs / pavements) – minimum 100 mm thickness; or
- A minimum of 0.3 m of imported material (ie landscape areas) which must be classified as VENM or ENM, or complies with an appropriate / relevant resource recovery order / exemption (RRO / RRE), or commercially available and certified product (suitable for on-site use) which must be accompanied by a certificate from the supplier (where imported). Validated on-site materials could also be utilised as capping subject to detailed testing (although this was not conducted).

A minimum capping of 300 mm was suggested for landscape areas with general ground cover (ie shallow root system). Increased capping thickness should be utilised where deep rooted vegetation is proposed (ie trees) subject to advice from the landscape designers regarding the required thickness of capping to support the root zone for vegetation within landscape areas. Landscape plans and specifications (refer to Moir final landscape plans in Appendix A) were updated to reflect the remediation requirements of the RAP (DP, 2020a)

Conformance with the above capping required monitoring during construction, plus ongoing monitoring / inspections and maintenance during the life of the development.

Any excess materials requiring off-site disposal was to be classified with reference to NSW EPA waste classification guidelines (NSW EPA, 2014), and disposed to a facility which is licensed to receive such materials. It is noted that previous investigation (DP, 2020c) indicated the fill materials tested were classified as 'General Solid Waste (non-putrescible)' based on total and leachable (TCLP) concentrations with trace bonded asbestos (Special Waste).

To further reduce the potential impact on the environment and human health, the following additional measures were recommended in the construction of the capping layer:

- Placement of a high visibility orange geo-fabric layer on top of the contaminated fill materials to act as a warning / marker layer and to provide separation from overlying materials. Note: Plastic sheeting could be used as an alternative marker layer beneath concrete slabs/pavements;

- Preparation of a long-term Site Management Plan (SMP). The SMP will outline the precautionary management procedures to be adopted if the permanent capping layer is breached in future. The SMP will also promote awareness of the contamination management and the requirement of avoiding disturbance to the capping where possible. An example SMP will be provided under separate cover.

This process of remediation will substantially reduce the potential for human contact with materials that are contaminated so that the development site can be made suitable for the proposed university development.

5.2 Remediation Acceptance Criteria

Achievement of the objective of capping and containment of the bonded asbestos contaminated soil were to be demonstrated by the successful installation of a constructed capping layer over the entire site. The existing central building (which will be retained as part of site development) provides the required capping over this area. In the case of contained soils the remediation acceptance criteria (RAC) will not, therefore, take the form of a set of concentrations for various contaminants. Rather, the RAC was deemed to have been attained when the concrete slab/pavements and soil capping has been successfully installed.

In addition to the above, imported fill used to reinstate site excavations and for use in the construction process, pavement or landscape areas was required to be classified as VENM or ENM or a relevant RRO/RRE, and were to be accompanied by a certificate from the supplier, otherwise detailed assessment (including analysis of representative samples) will be required prior to use on-site.

RAC criteria for soils proposed to be stripped and validated were provided in DP (2020a), however, this was not undertaken for the development at the client's request.

5.3 Long Term Management

A long-term site management plan (SMP) is required for the site and has been prepared in conjunction with this validation report. The SMP promotes awareness of the contamination management and the requirements to avoid disturbance (where possible) and provide an outline of maintenance requirements.

The SMP recommends routine inspections of the capping layers to monitor for erosion, cracking, settlement or movements of the capping slab/pavements and landscape areas. Maintenance will be required if the site inspection indicates that the capping layer is not operating effectively (i.e. if significant cracking is present within concrete slabs or if the pavement or landscape areas are eroding or cracking).

The SMP will need to be noted on the Section 10.7 planning certificate to ensure future landholders (if any) or future developments on the site are aware of the management requirements for the development area. Integration of the SMP into the university maintenance procedures/management plans will also be a requirement for ongoing management of impacted soils.

6. Responsibilities

In order to achieve the goals of the remediation / earthworks programme, the following roles and tasks were implemented by the contractor (Built Pty Ltd) and consultants:

Contractor (Built Pty Ltd)

The contractor was responsible for on-site operations including:

- Overall project management;
- Engaging suitably qualified remediation contractor, and Environmental Consultant to conduct the remediation works;
- Ensure necessary approvals and notifications have been obtained prior to remedial works commencing;
- Liaison with the Site Auditor, regulator, environmental consultant, remediation contractor during remediation process;
- Submission of validation reports to regulator.
- Demolition of site structures and clearance following demolition;
- Disposal of demolition wastes where required (not assessed as part of this validation report);
- Crushing of concrete demolition waste following clearance for hazardous build materials (HBM) for re-use on site;
- Handling of fill materials (contaminated or otherwise) including excavations, stockpiles, segregation, placement, compaction, and disposal of unsuitable or excess materials;
- Disposal of contaminated soil or excess fill to a licensed landfill (after classification);
- Safety of all personnel on site;
- Measures to minimise environmental effects;
- Preparation of a site-specific Construction Environmental Management Plan (CEMP) and WHS plan;
- Ensure required licenses and approvals from regulatory authorities are obtained prior to remediation works commencing;
- Waste classification inspections and confirmation of ADE/DP waste classifications for extended areas of materials not assessed by ADE/DP requiring off-site disposal;
- Collation of waste/ import tracking documentation, disposal dockets, delivery receipts, air monitoring records etc and submission to the client and DP for review and inclusion in the validation report.

Occupational Hygienist (ADE Consulting)

- Clearance of the removal of hazardous building materials (HBM) from existing buildings prior to demolition;
- Set-up and maintenance, analysis and reporting of air monitoring for air borne asbestos fibres during construction works resulting in the disturbance of fill materials (i.e. any excavations, stockpiling, placement or transport of fill materials), where required;
- Waste classification of selected materials requiring off-site disposal.

General Site Validation (Douglas Partners Pty Ltd)

- Advice on excavation and segregation of contaminated soils (where required);
- Periodic inspections of remediation and validation works;
- Waste classification of selected soil / fill requiring off-site disposal;
- Review of selected proposed imported material reports / certificates to confirm suitability for use on-site prior to importation;
- Provision of a remediation and validation report;
- Correspondence/liaison with the Site Auditor throughout the remediation works;
- Provision of a long term SMP.

7. Timeline of Work Conducted to August 2021

Construction activities commenced on-site in March 2020.

The timeline and tasks conducted by DP and others as part of the validation works to August 2021 is shown in Table 2 below based on DP observations and discussions with Built. It is noted that DP were not on-site full time and has relied on information provided by Built and others. Due to the construction timeframe the fieldwork for the DSI was completed during demolition activities and some overlap between demolition, construction and remediation activities occurred across the site.

Table 2: Chronological Summary of Activities

Date	Activity	Status
November / December 2019	Pre-Demo detailed site investigation (DSI) which included further assessment of potential contaminant sources and preliminary waste classification testing	Completed and issued 3 March 2020 (91667.02.R.002.Rev0). Results indicated upper filling where tested are generally classified as General Solid Waste with bonded ACM
January 2020 to June 2020	Demolition	Completed – Progressive demolition of the Administration Building and Supreme Court Buildings to facilitate construction of the new university development
January 2020 to April 2020	Built imported Recovered Aggregate (20 mm minus recycled aggregate) from Central Waste Station for hardstands etc	Completed by Built. Refer to Table A1 Imported Materials for details
3 March 2020	Post-demo DSI test pitting conducted during demolition (due to time constraints at Built request) to allow completion of DSI and preparation of RAP.	Completed and issue 23 March 2020 (91667.02.R.003.Rev0) with subsequent review by Ian Gregson (Site Auditor) and finalisation (91667.02.R.003.Rev2) on 27 April 2020. Results indicated upper filling where tested are generally classified as General Solid Waste with bonded ACM
10 March 2020	Meeting with Built to discuss remediation works and requirements	Completed inception meeting with contractor (Built) remediation requirements
23 April 2020	Final RAP (DP, 2020a) issued	Completed – Rev 0 issued 24 March 2020, final Auditor approved Rev1 issued 23 April 2020

Table 2: Chronological Summary of Activities (continued)

Date	Activity	Status
March 2020 to May 2020	Crushing of site won concrete, brick and ceramics during demolition following clearance for HBM and re-use on site following initial removal of steel	<p>Completed by Built during the demolition of former buildings.</p> <p>Approximately 500m³ (900 tonnes) of crushed and stockpiled aggregate generally consisting of concrete, bricks and ceramics generated from the ex-Administration Building were classified by ADE as suitable to remain on the site from a contamination perspective (ie concentration of contaminants tested were within medium density residential landuse health based and ecological criteria (refer to ADE (2020b)).</p> <p>Re-use of the materials in landscape areas, public open spaces or below or close to the water table was not recommended due to the elevated pH of the material.</p> <p>Approximately 1800m³ (3240 tonnes) of crushed and stockpiled aggregate generally consisting of concrete, brick and ceramics generated from the ex-Supreme Court were classified by ADE as Recovered Aggregate (refer to ADE (2020c)).</p> <p>It is understood the material was re-used on site beneath concrete slabs for the new Student Accommodation and Education Building (ie. materials placed below site capping) as per Builts marked up plan Ref DWP-AR-A020 Rev 15 in Appendix A.</p>
10 March 2020 to 28 June 2021	Intermittent off-site disposal of surplus soils/materials containing impacted upper fill	<p>Undertaken by Built throughout construction as required during the excavation, piling and pile cap installation and landscaping process. DP conducted periodic waste classification inspections as requested by Built between 10 March 2020 and 30 March 2021 (refer to Table A2 – Export Materials) and provided waste classification emails, prior to transport by Built to Summerhill Waste Management Centre or Suez Recycling & Recovery Pty Ltd (Raymond Terrace) as GSW with bonded ACM. Built also conducted additional waste classification inspections throughout the construction program (in between DP inspections) to confirm material descriptions and waste classification of materials prior to off-site disposal. ADE Pty Ltd also conducted waste classification of some fill materials for Built. Refer to Table A2 for further details.</p>

Table 2: Chronological Summary of Activities (continued)

Date	Activity	Status
31 March 2020 to May 2020	Importation of roadbase for piling platform and beneath paving	Completed by Built in stages as bulk earthworks and grouting and piling works was undertaken. Roadbase was imported as VENM from Boral Seaham quarry after confirmation by DP regarding suitability for importation.
27 April 2020 to 13 May 2020	Importation of flyash for mine grouting works	Completed by Built as grouting works were undertaken. Flyash was imported from Eraring Power Station under the NSW EPA Coal Ash RRO after confirmation by DP and the site auditor regarding suitability for importation.
3 June 2020 to 18 April 2021	Importation of various aggregates, soils and landscape materials for construction and landscaping purposes	Completed by Built as construction was undertaken. Aggregates, sands (fill sand, packing sand, sewer mix) were imported as VENM direct from quarries or indirectly through landscape suppliers (ie Saddingtons, Oz Landscape Supplies, etc). Hills Premium Garden Soils and Mulch were imported from Oz Landscape Supplies.
June/July 2020	Stormwater Easement Inspections	Completed. Inspections conducted during stormwater pipeline backfill by Built. Refer to DP (2020b) for details.
13 July and 16 July 2021	Inspection during marker layer installation	Completed. Inspection conducted during geofabric marker layer placement in landscape areas
20 August 2021	Final Inspection	Completed

8. Site Validation

8.1 Introduction

Site validation has comprised the following:

- Periodic inspection by DP to allow visual assessment of remediation procedures;
 - o For classification of selected stockpiles (prior to off-site disposal);
 - o In-situ classification of selected areas prior to excavation;
 - o During selected piling excavations (for waste classification purposes);
 - o During stormwater easement construction/management of the stormwater easement area;
 - o During placement of geofab marker layer in landscape areas;
 - o Final inspection of 20 Aug 2021 after completion of landscaping.

- Review of documentation provided by Built (contractor) confirming the source and suitability of imported materials;
- Waste classification of materials proposed to be disposed off-site to landfill;
- Brief review of tracking documentation provided by Built for imported and exported materials;
- Brief review of photographs provided by Built showing various stages of construction, marker layer placement and imported and exported materials;
- Review of Moir - LP17 (Rev M) - Remediation Action Plan showing landscape areas and capping layer types;
- Review of the survey plan from Geosurv Asbuilt Remediation Layers Plan showing top of marker and capping layers.

It is noted that DP were not on-site full-time during construction activities and did not observe all materials that were exported or imported to the site. Periodic inspections were conducted by DP during the work, and for the assessment / classification of materials proposed to be removed from the site as nominated by Built.

To supplement inspections and observations by DP, Built site personnel conducted the following:

- Attended inception meeting by DP to confirm inspection requirements and observations (ie trained to make observations relating to potential contamination such as staining, odours and typical inclusions identified within site soils);
- Inspection of all excavated areas and stockpiles to confirm contaminant observations and consistency with existing waste classification documents, prior to disposal from site;
- Inspection of all imported materials to confirm consistency with import documents;
- Photos during construction relating to export and import materials, capping and general construction;
- Built personnel confirmed that fill materials observed during construction were consistent with soils investigated and classified by DP during the course of the work (ie no observations of additional contamination (ie staining, odours));
- Built indicated that all surplus/excess materials containing site fill were removed from the site for disposal to a licensed landfill as General Solid Waste containing bonded asbestos (due to the results of the site investigations and the observations of building rubble and bonded asbestos materials in fill across the site).

Built indicated that no subsurface materials were removed from the site for beneficial off-site use.

We understand that some materials disposed off-site by Built were classified by ADE (2020).

A summary of material disposal conducted for the remediation works are provided in Built Table A2, in Appendix B.

8.2 Stormwater Easement (DP, 2020b)

Site redevelopment has included the replacement of the existing stormwater pipe within the easement adjacent to the eastern wall of Building B (central building). The easement and stormwater pipe will be a Council asset. The stormwater pipe within the easement was not installed in strict accordance with the Remediation Action Plan (RAP) (DP, 2020a), however, a management strategy was developed in consultation with the Site Auditor to achieve the objectives of remediation and minimise the possible contaminated land risks associated with future maintenance/repairs (if required).

The agreed management strategy (DP, 2020a) was as follows:

- The stormwater pipe has not been installed in strict accordance with the RAP;
- The geofabric marker layer was not installed in the base of the trench prior to installation of the stormwater pipe;
- A gravel layer was placed at the base of the trench;
- Geofabric (white) will be placed over the walls of the trench excavation where practical and trench backfill will comprise approved 'clean' materials;
- The base of the trench was excavated well within 'clean' natural soils (refer to Figure 1);
- The degree of contamination remaining within filling at the site is considered to be low;
- The risk of disturbing contaminated soils outside the pipe trench excavation during routine maintenance and cleaning of the stormwater pipe is considered to be minimal;
- The likelihood of complete pipe removal/reinstallation and therefore the risk of disturbing adjacent contaminated soils is considered to be low;
- Possible risks associated with the disturbance of contaminated soils within the site can be effectively managed through the implementation of the EMP which will encompass the stormwater easement.

Refer to DP (2020b) in Appendix D for details.

Relevant photos of the pipeline installation are shown below in Figures 1 to 3 and 5.

It is understood that clean imported FCR (fine crushed rock) was utilised as trench backfill within the easement. A sacrificial orange geofabric marker layer and 300 mm of clean FCR was placed over the surface of the easement to provide temporary access during piling operations. It is understood following piling that the marker layer and overlying FCR was stripped, and a black plastic marker layer was laid prior to construction of a concrete capping slab over the easement.

We believe the stormwater easement works were conducted in general accordance with the agreed management strategy (DP, 2020a) based on the following:

- Inspection conducted by DP on 16 July 2020;
- Discussions with Built;
- Information supplied by Built including the as-built stormwater diversion and easement plans by Marshall Scott (Ref 22606 Work-As-Executed Plan dated 8-7-2020) provided in Appendix A;

- Email from Built of 14 September stating “Built confirm works have been completed as per the agreed stormwater easement strategy following DP’s site inspection on 16 July 2020”.

We understand that Council also conducted periodic inspections during the easement works and that the works were accepted by Council and registered with Land Registry Services NSW.



Figure 1: Pipe installation well within natural underling clays looking north (provided by Built Pty Ltd)



Figure 2: Orange geofabric sacrificial marker layer placed over pipe backfill looking north (provided by Built Pty Ltd) (16 July 2020)



Figure 3: Imported fine crushed rock placed over orange geofabric marker layer placed over pipe backfill looking south (provided by Built Pty Ltd) (16 July 2020)

8.3 Internal Pavements

An inspection by DP on 4 September 2020 during construction of formwork for internal pavements within the Education Building confirmed the placement of the black plastic marker layer at the base of the concrete slabs over site soils as shown below in Figures 5.

Additional photos of the internal building slabs and pavement construction were provided by Built with representative photos provided below.



Figure 4 - Black plastic marker layer beneath Student Accommodation Building concrete slab (30 July 2020 - supplied by Built)



Figure 5 - Black plastic marker layer beneath Atrium concrete slab (25 August 2020 - supplied by Built)



Figure 6 - Black plastic marker layer beneath concrete slab in north-west corner site (1 September 2020 - supplied by Built)



Figure 7 - Black plastic marker layer beneath Education Building concrete slab (16 September 2020 - supplied by Built)



Figure 8 - Black plastic marker layer beneath Education Building concrete slab (21 September 2020 - supplied by Built)

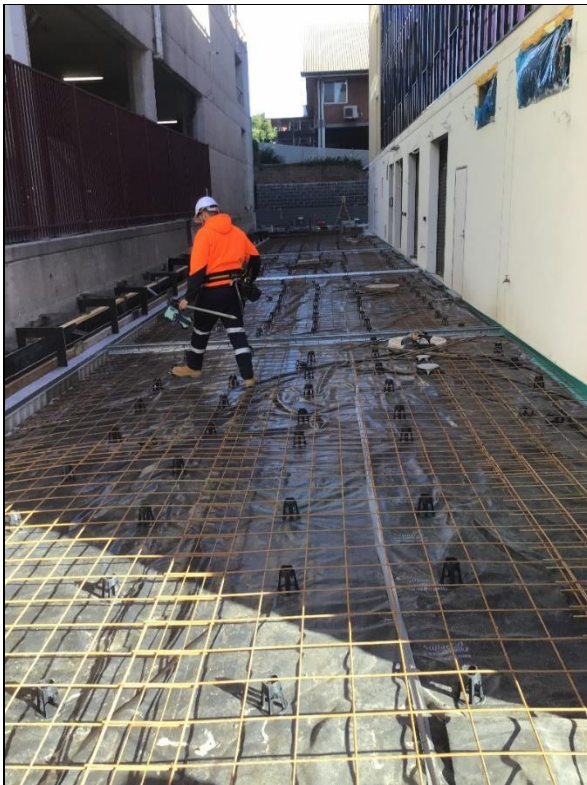


Figure 8 - Black plastic marker layer beneath concrete driveway to east of Student Accommodation Building (28 May 2021 - supplied by Built)



Figure 9 – Black plastic marker layer beneath concrete pavement on northern (front) side of Student Accommodation Building (26 June 2021 – supplied by Built)



Figure 10 - Black plastic marker layer beneath driveway entrance concrete slab to Education Building carpark (6 July 2021 - supplied by Built)

8.4 Landscape Areas

Inspections were conducted by DP on 13 and 16 July 2021 during construction of landscape areas showing the placement of orange geofabric marker layers in garden beds and the placement of the black plastic marker layers at the base of concrete pavements as shown below.

Additional photos of the landscape construction and laying of black plastic and orange geofabric marker layers were provided by Built with representative photos provided below.

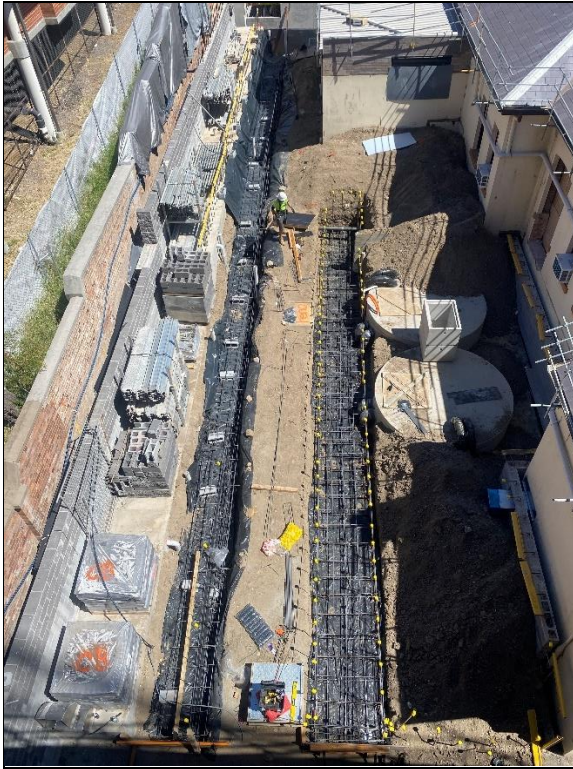


Figure 11 – Black plastic marker layer beneath concrete footings at rear of central building. Rainwater tanks backfilled with site won fill/soil (9 October 2020 - supplied by Built)

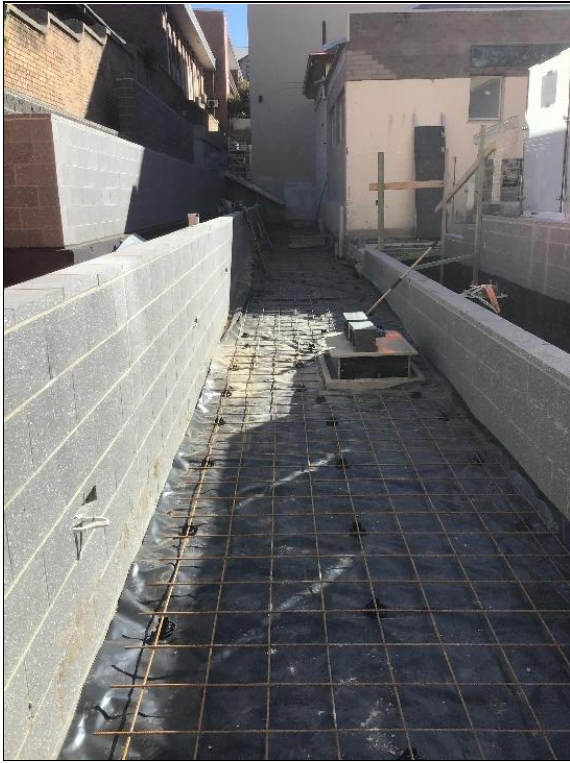


Figure 12 – Black plastic marker layer beneath concrete/crushed granite paths to rear of Student Accommodation Building (17 May 2021 - supplied by Built)



Figure 13 – Black plastic marker layer beneath concrete/crushed granite paths to rear of Student Accommodation Building (17 May 2021 - supplied by Built)



Figure 14 – Orange geofabric marker layer over impacted soils in garden bed and black geogrid matting beneath garden beds (over concrete) to rear of central building (13 July 2021)

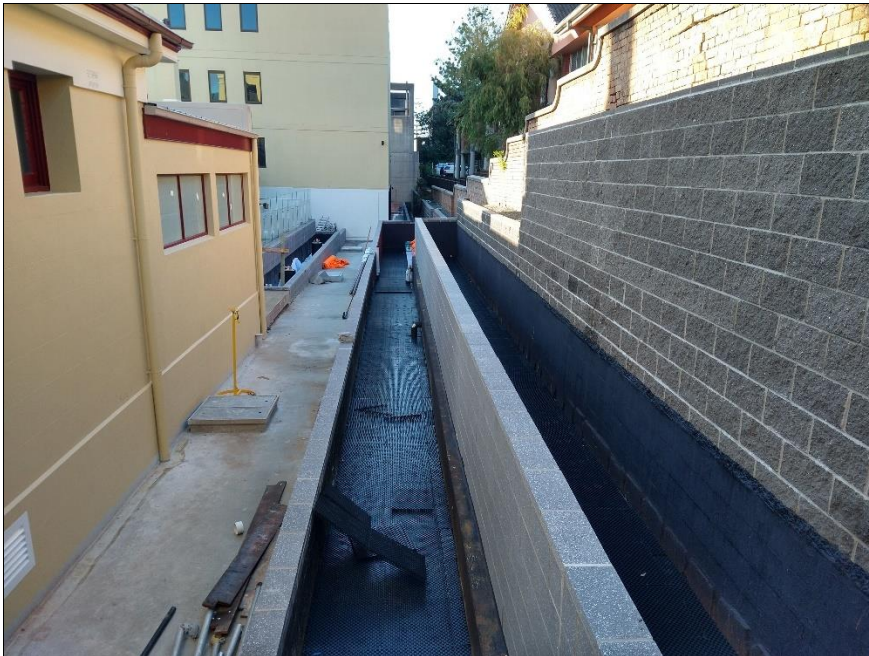


Figure 15 – Concrete footpath (capping) beneath pre crushed granite path and garden beds with geogrid matting over concrete to rear of central building (13 July 2021)

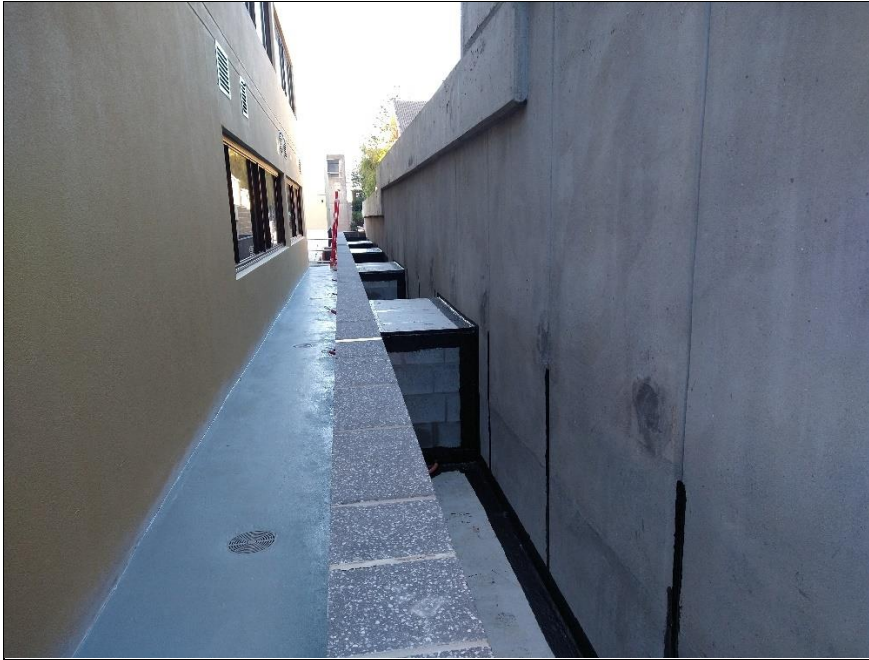


Figure 16 – Concrete footpath (capping) and garden beds over concrete to rear of Education Building (13 July 2021)

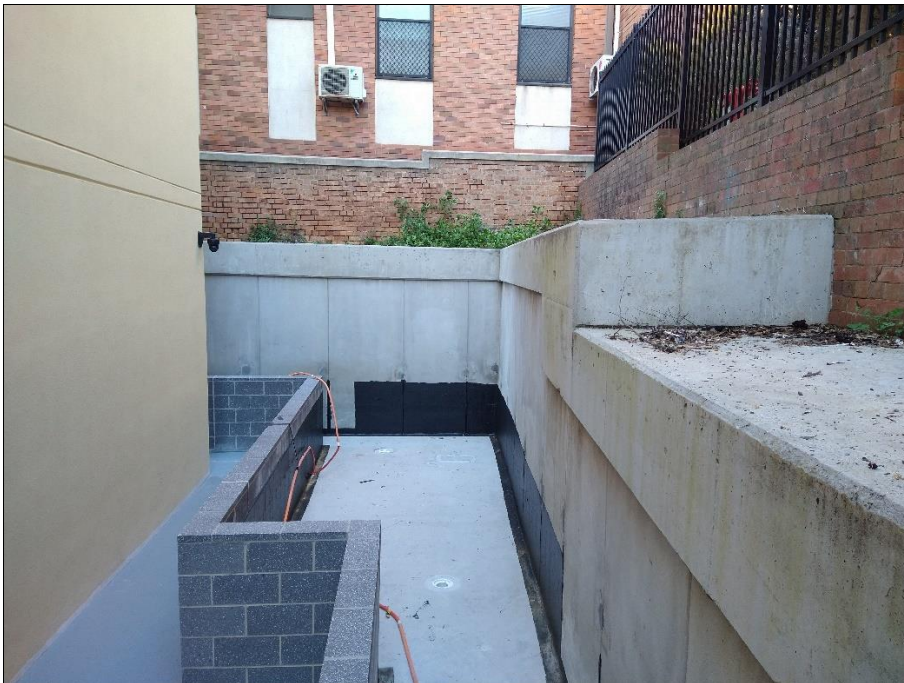


Figure 17 – Concrete footpath (capping) and garden beds over concrete to western side of Education Building (13 July 2021)

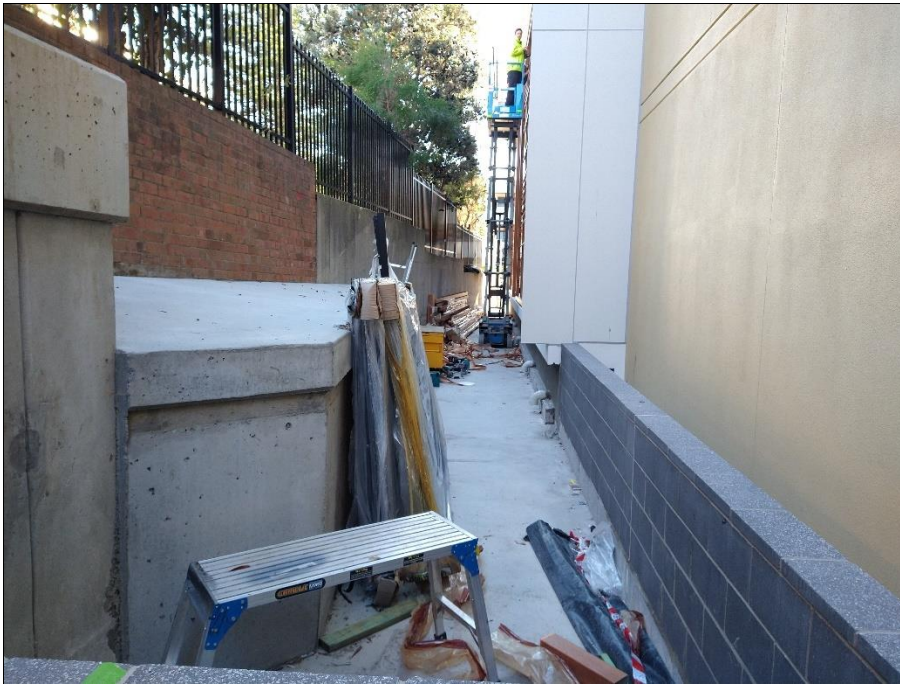


Figure 18 – Concrete (capping) to the western side of Education Building (13 July 2021)



Figure 19 – Front landscaping including partially former garden beds and concrete slab (capping) planter box (right) along Education Building frontage and further east (13 July 2021)



Figure 20 – Orange geofabric marker layer in garden beds at the front of the Education Building (16 July 2021)



Figure 21 – Orange geofabric marker layer in garden beds at the front of the central building (16 July 2021)



Figure 22 – Orange geofabric marker layer in garden bed at the rear of the Atrium (16 July 2021)



Figure 23 – Orange geofabric marker layer beneath the asphalt pavement along northern (front) boundary adjacent to footpath (19 July 2021 – supplied by Built)



Figure 24 – Orange geofabric marker layer beneath the asphalt pavement along northern (front) boundary adjacent to footpath (19 July 2021 – supplied by Built)



Figure 25 – Orange geofabric marker layer within garden bed on northern (front) side of the Student Accommodation Building (22 July 2021 – supplied by Built)



Figure 26 – Orange geofabric marker layer within garden bed/planter box on northern side (front) of the Education Building (4 August 2021 – supplied by Built)



Figure 27 – Orange geofabric marker layer within garden bed/planter box on eastern side of the Student Accommodation Building (26 July 2021 – supplied by Built)



Figure 28 – Orange geofabric marker layer and imported roadbase from Boral Seaham quarry beneath electrical kiosk north of the Education Building (25 September 2020 – supplied by Built)

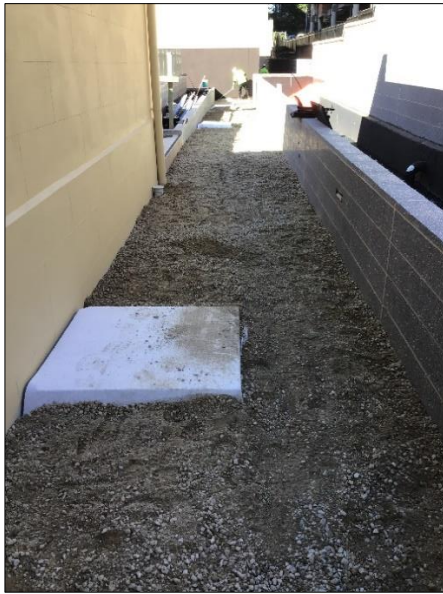


Figure 29 – Roadbase from Oz Landscape Supplies (Teralba quarry) being laid on footpaths prior to crushed granite screed (22 July 2021 -supplied by Built)



Figure 30 - Crushed granite (white Scorria) supplied by Saddingtons and Blue Gum Landscaping Centre (from Coastal Quarry Products) in process of being laid on footpath over roadbase (27 July 2021 -supplied by Built)



Figure 31 – Pavers laid over packing sand (from Saddingtons) over concrete (28 July 2021 – supplied by Built).



Figure 32 – Packing sand from Saddingtons used for Paving (28 July 2021 – supplied by Built).



Figure 33 – Sand from Saddingtons (Mackas Sand & Soil - Williamtown quarry) used as paving sand at front of Student Accommodation building (28 July 2021 – supplied by Built). Pavers laid over packing sand (from Saddingtons) over concrete.



Figure 34 – Hills Premium Garden Mix used over geofab in garden beds in south east corner of site (17 August 2021 – supplied by Built)



Figure 35 – Hills Premium Garden Mix used over geofab in garden beds (17 August 2021 – supplied by Built)



Figure 36 - White Scorria (crushed granite and gravel) supplied by Saddingtons and Blue Gum Landscaping Centre (from Coastal Quarry Products) for landscaping (17 August 2021 -supplied by Built)

8.5 Final Inspection

A final inspection of the site was conducted on 20 August 2021 by DP.



Figure 37 – Looking south at garden bed and mulch supplied from Oz Landscape supplies along western investigation boundary adjacent Education Building (20 August 2021)



Figure 38 – Looking north at garden bed and mulch supplied from Oz Landscape supplies along western investigation boundary adjacent Education Building (20 August 2021)



Figure 39 – Looking east at garden bed and mulch supplied from Oz Landscape supplies along southern site boundary adjacent Education Building (20 August 2021)



Figure 40 – Looking north at garden bed and walkway along southern side of Education Building. Crushed granite supplied by Saddingtons and Blue Gum Landscaping Centre (from Coastal Quarry Products) and white scoria gravel supplied from Saddingtons (20 August 2021)



Figure 41 – Looking east at garden bed and walkway along southern side (rear) of central building. Crushed granite supplied by Saddingtons and Blue Gum Landscaping Centre (from Coastal Quarry Products) and mulch supplied from Oz LandscapeSupplies (20 August 2021)

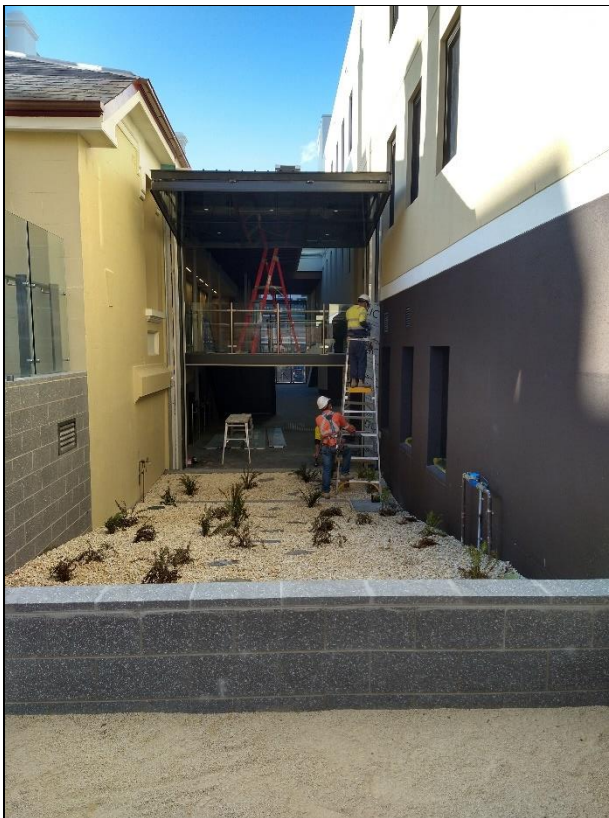


Figure 42 – Looking north at garden bed and walkway along southern side of Atrium. Crushed granite supplied by Saddingtons and Blue Gum Landscaping Centre (from Coastal Quarry Products) and white scoria gravel supplied from Saddingtons (20 August 2021)



Figure 43 – Looking east at garden bed and walkway along southern side of Student Accommodation Building. Crushed granite supplied by Saddingtons and Blue Gum Landscaping Centre (from Coastal Quarry Products) and mulch supplied from Oz LandscapeSupplies (20 August 2021)



Figure 44 – Looking east at garden bed and walkway in south eastern corner of site. Crushed granite supplied by Saddingtons and Blue Gum Landscaping Centre (from Coastal Quarry Products) and mulch supplied from Oz LandscapeSupplies (20 August 2021)



Figure 45 – Looking north at concrete driveway and adjacent garden bed along the eastern site boundary and Student Accommodation Building (left) and Police Station (right). Mulch supplied from Oz LandscapeSupplies (20 August 2021)



Figure 46 – Looking southeast at concrete paved driveway and adjacent garden bed along the eastern site boundary. Mulch supplied from Oz LandscapeSupplies (20 August 2021)



Figure 47 – Looking west at concrete paved driveway/footpath along the north side (front) of the Student Accommodation I Building (20 August 2021)

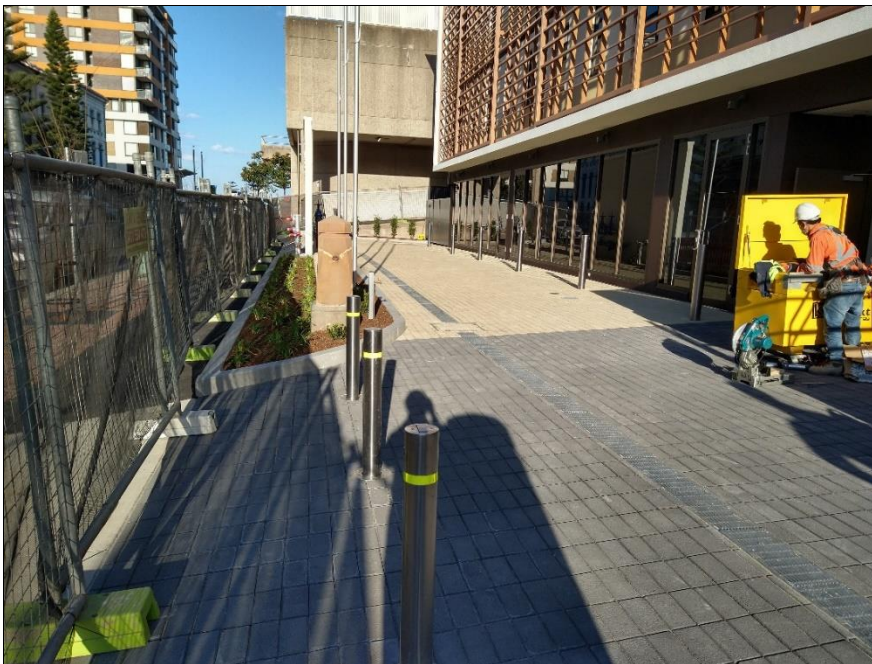


Figure 48 – Looking east at concrete paved driveway/footpath and adjacent garden bed along the northern side (front) of the Student Accommodation Building. Mulch supplied from Oz LandscapeSupplies (20 August 2021)



Figure 49 – Looking west at concrete paving and adjacent garden bed along the northern side (front) of the central building. Mulch supplied from Oz LandscapeSupplies (20 August 2021)

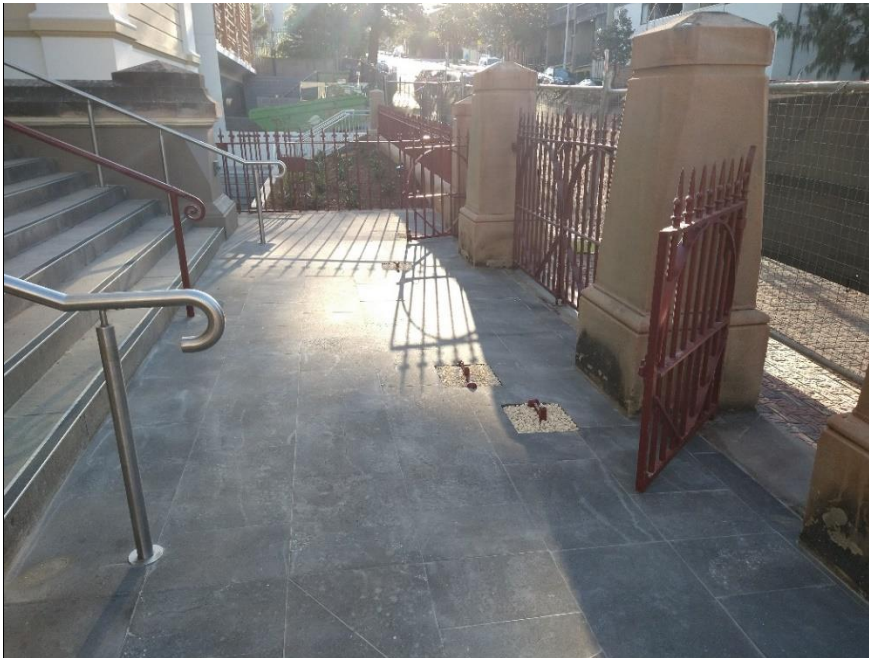


Figure 50 – Looking west at paving slabs and adjacent garden bed along the northern side (front) of the central building. Mulch supplied from Oz LandscapeSupplies (20 August 2021)

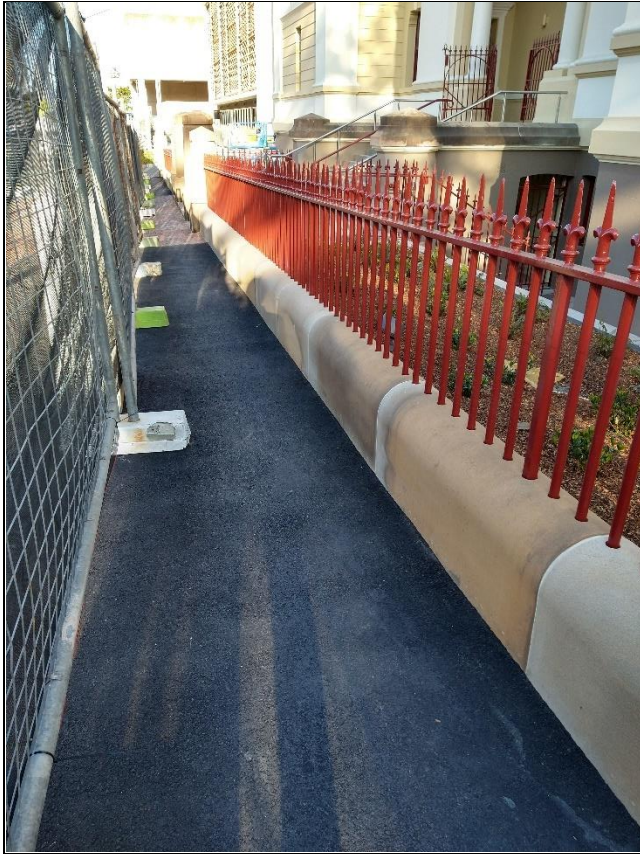


Figure 51 – Looking east at asphalt paving and adjacent garden bed along the northern side (front) of the central building. Mulch supplied from Oz LandscapeSupplies (20 August 2021)

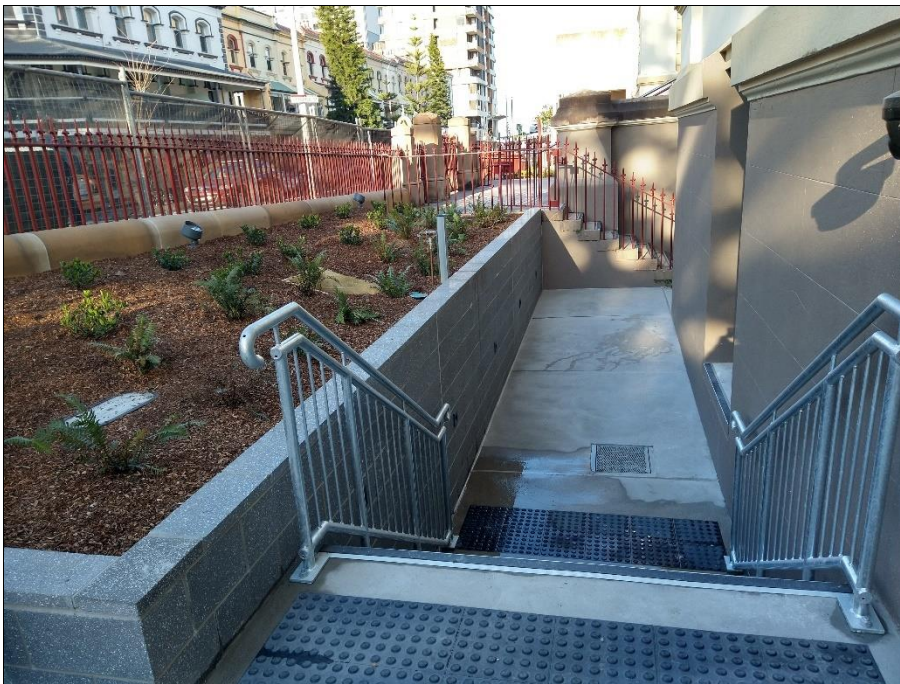


Figure 52 – Looking east at garden bed and concrete footpath pavements along the northern side (front) of the central building. Mulch supplied from Oz LandscapeSupplies (20 August 2021)



Figure 53 – Looking west at electrical kiosk and 10mm gravel supplied by Saddingtons - Quarry Products (Newcastle) along the northern side (front) of the Education Building (20 August 2021)



Figure 54 – Looking east at garden beds along the northern side (front) of the Education Building. Mulch supplied from Oz LandscapeSupplies (20 August 2021)

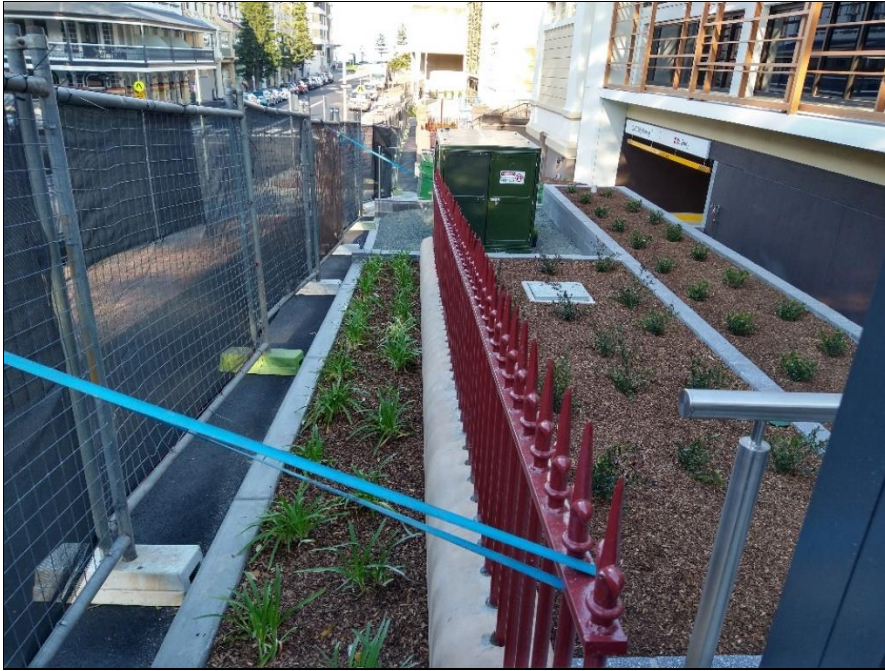


Figure 55 – Looking east at asphalt pavement and garden beds along the northern boundary and northern side (front) of the Education Building. Mulch supplied from Oz LandscapeSupplies (20 August 2021)

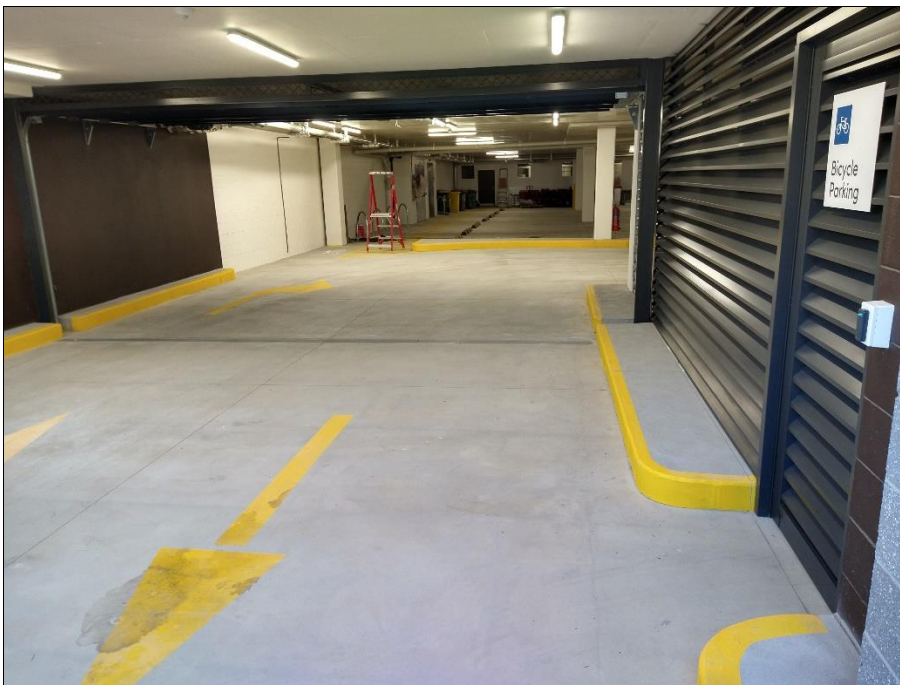


Figure 56 – Looking south at concrete pavements within the underground carpark of the Education Building (20 August 2021)



Figure 57 – Looking south east at Church Street and the Nihon University development site (20 August 2021)

The inspection confirmed that capping materials at the surface were consistent with those provided in the Moir LP02 - General Arrangement Plan in Appendix A, although it is noted that roadbase and crushed granite was not overlaid on concrete footpaths in the south western corner adjacent to the Education Building as shown on this plan.

8.6 Imported Materials

Based on the results of periodic inspections by DP, discussions with Built, and the supplied documentation (ie Table A1 – Imported Materials Register in Appendix B and corresponding letters/dockets from suppliers and tracking documentation from Built provided digitally), imported materials utilised for construction purposes comprised the following:

- 20 mm minus (Recovered Aggregate) from Central Waste Station, Kurri Kurri for use as a temporary hardstand beneath final capping (refer to ADE, 2020 – DRD-80-17200/WAC1 v1 final dated 21 Jan 2020);
- FCR roadbase (VENM) from Boral Seaham quarry for use as a piling and grouting platform beneath final capping (refer to Boral letter dated 23 March 2020);
- Flyash from Eraring Power Station for use in mine grout below final capping (refer to Origin Energy Eraring Pty Ltd letter dated 15 April 2020 and Feb 2020 ash test results);
- 10 mm to 14 mm aggregate (VENM) from Quarry Products (Newcastle) Keimbah quarry for general construction purposes (refer to Quarry Products (Newcastle) Pty Ltd letter dates 10 June 2020);
- Packing sand, NGB20-2C aggregate, sewer mix and 20mm roadbase (VENM) from Metromix Teralba quarry for general construction purposes (refer to Qualtest, 2016 – QUAL-13-00030-AF dated 12 February 2016);
- Fill sand and packing sand (VENM) from Mackas Sand & Soil quarry at Williamtown for general construction purposed (refer to Cardno, 2016 – CGS3146-002.0 dated 25 July 2016);

- Hills Premium Garden Soil from The Hills (Tremline Pty Ltd) for use as garden soil in landscaping (refer Soil Mix Test Certs_combined - from Origin Energy (ash), SGS Australia (ash), SESL Australia (Premium Garden Mix));
- Mulch from Oz Landscape Supplies for use in garden beds in landscaping (refer to Oz Landscape Supplies letter dated 26 August 2021 – Certification ID 1081-21);
- Drainage sand (10mm rounded quartz) supplied by The Hills (Tremline Pty Ltd) from Glenella quarry in Cowra for use in landscaping (refer to Coffey, 2020 - CANB20S-01290-1);
- White scoria from Coastal Quarry Products for landscaping (refer to Coastal Quarry Products letter undated);
- White crushed granite from Coastal Quarry Products for landscaping (refer to Coastal Quarry Products letter undated).

Based on DP inspection and the supplied documentation from Built (including VENM certificates and resource recovery classification reports), the imported materials are considered to meet the imported fill requirements of the approved RAP (DP, 2020a) (ie VENM, relevant RRO/RRE materials or a commercially available and certified product (suitable for on-site use)). The imported materials are therefore considered to be suitable for use at the site with respect to site contamination and waste management regulatory requirements.

Imported materials were utilised on the site as presented in Table 3 below.

Supply and delivery documentation for the imported materials is provided digitally and Table A1 summarising importation details is provided in Appendix B.

Table 3: Summary of Imported Materials

Material	Approximate Quantity Imported (as indicated)	Supplier
20 mm minus recovered aggregate	257 tonnes	Central Waste Station
Roadbase	5517 tonnes	Boral Seaham quarry
Flyash	662 tonnes	Eraring Power Station
10-14 mm aggregate	164 tonnes	Quarry Products (Newcastle) Allandale quarry
Packing Sand	195 tonnes	Metromix Teralba quarry
NGB20-2C aggregate	50 tonnes	
Sewer Mix	97 tonnes	
20 mm roadbase	20 tonnes	
Fill Sand	161 tonnes	Mackas Sand & Soil Williamtown quarry
Packing Sand	67 tonnes	Mackas Sand & Soil Williamtown quarry
Hills Premium Garden Mix	304 tonnes	The Hills (Tremline Pty Ltd)
Mulch	10 tonnes	Oz Landscape Supplies
Drainage Sand	39 tonnes	The Hills (Tremline Pty Ltd)
10-14 mm Scoria White & Crushed Granite	7.5 tonnes	Coastal Quarry Products

8.7 Disposal of Excess Materials

Disposal of surplus fill/soil materials (impacted by upper fill materials containing bonded asbestos) and intermixed building and demolition materials including concrete, brick and steel reinforcement (typically removed from the sub-surface and potentially impacted by asbestos from fill materials) to appropriately licensed landfills, was conducted during remediation and validation works to June 2021 at the site as follows:

- 10 March 2020 to 28 June 2021 – Disposal of fill/soil to Raymond Terrace Waste Management Centre (Suez) – 7282 tonnes (GSW with bonded ACM);
- 12 March 2020 to 1 April 2021 – Disposal of fill/soil to Summerhill Waste Management Centre – 5804 tonnes (GSW with bonded ACM).

The soils/materials were classified prior to disposal based on the following:

- Waste classification sampling and testing conducted as part of the DSI across the site (pre and post demolition) testing (DP, 2020c), including the testing of stockpiled materials excavated during earthworks in areas which were not accessible during pre-demolition investigation; and

- Supplementary visual inspections conducted by DP (including email waste classifications reports following each inspection), supplemented by visual inspection by Built personnel throughout the project to ensure surplus materials requiring off-site disposal to the licensed landfill were commensurate with materials previously identified and assessed during the DSI (DP, 2020c), and did not contain evidence of additional contamination (ie staining, odours etc) which may impact on the waste classification.

It is noted that the intermixed building and demolition materials are pre-classified as General Solid Waste in accordance with NSW EPA (2014). Where such materials were impacted by on-site soil/fill containing possible asbestos, these materials were also classified 'Special Waste - asbestos', commensurate with the soil/fill classification.

It is also noted that soil sampling and testing for the DSI included both total and leachable (TCLP) testing, with TCLP testing conducted on selected samples collected by DP with the highest total concentrations. The majority of the fill/soil samples tested fell within the total concentration limits for classification as General Solid Waste (CT1), while some localised elevated concentrations of lead and Benzo(a)pyrene (B(a)P) required TCLP testing to allow comparison to SCC1/TCLP1 criteria. We note that previous testing by Presna (2016) also identified elevated lead and B(a)P in some soil samples, however, TCLP testing was not conducted for waste classification purposes. DP drilled additional bores in the vicinity of these locations for the DSI, identified similar fill conditions with elevated lead and B(a)P concentrations and confirmed low TCLP results and a low propensity for these materials to leach (which is also supported by the water leachability conducted by Presna (2016)). In addition DP has tested acid leachable (TCLP) concentrations of lead and B(a)P on the highest concentrations detected by DP (770 mg/kg for Lead and 6.4 mg/kg B(a)P) which is well above the average concentrations and also the more conservative 95%UCL for all fill and all fill/natural materials (ie ~490mg/kg and 407 mg/kg respectfully for Lead and ~2.4mg/kg and 2.3 mg/kg respectfully for B(a)P). In addition ADE (2020) has also conducted TCLP testing for B(a)P on fill in the south east corner of the site for waste classification purposes and confirmed a low leachability (<PQL) result. Based on the above it is considered that sufficient sampling and testing (including leachability testing) has been conducted to confirm the low leachability characteristics of the materials on-site and the waste classification of the fill/soils across the site.

Tip dockets, EPA consignments and delivery documentation supplied by Built for the exported materials are provided digitally. Table A2 summarising exportation details is provided in Appendix B.

The approximate material volumes provided in DP waste classification emails shown in Table A2 are generally commensurate with the disposal weights recorded at the licensed landfill considering the bulk density and approximate nature of volume estimates (ie. not conducted by survey). It is noted that in some cases the materials classified in-situ were not all disposed to landfill (ie. re-use of materials on site was partly feasible) and as such the estimated material volumes provided in the waste classification emails do not match the corresponding disposal weights (ie disposal weights appear lower than the estimated volume classified). With regards to the materials inspected by Built, we understand materials were inspected during excavation and loading of materials for disposal to confirm the absence of gross contamination (ie staining, odours etc) and to ensure materials were commensurate with material description of previously classified materials on site. DP were not on site during these disposal events and as such cannot verify the quantity of materials disposed off site to landfill. Built have indicated that the materials outlined in Table A2 are an accurate summary of what occurred and have also stated that the 13,086 tonnes of materials disposed to landfill broadly correlates to the anticipated basement/footing excavation volumes for the Education and Student Accommodation Buildings and surrounds.

Environmental Protection Licences (EPLs) for Summerhill Waste Management Centre (EPL No 5897), and Suez Recycling & Recovery Pty Ltd (EPL No 7628) are provided in Appendix B confirming that they have the appropriate licences to receive GSW with bonded asbestos.

We note that EPA transport consignments were not provided by Woodbury Civil for the disposal of materials from site in May and June 2021. No visible ACM was observed by Woodbury Civil in the upper fill materials and therefore it was not expected to trigger regulatory requirements for the removal of ACM. The materials were disposed as GSW with trace bonded ACM as a precautionary measure in accordance with the previous advice and consistent with materials removed from the site. The landfill (Suez) provided EPA with appropriate regulatory documentation relating to the disposal of asbestos containing materials by Woodbury Civil.

Based on correspondence with Built we understand no liquid waste disposal was required.

On this basis, we believe that the disposal of surplus fill/soil from the site during construction has been conducted in general accordance with the approved RAP (DP, 2020a) and the relevant waste management regulatory requirements, based on the following:

- The findings of the DSI (DP, 2020b) and the requirements stated in the approved RAP (DP, 2020a);
- Periodic inspections by DP during construction;
- DP's waste classification inspections and email reports;
- Supplied documentation from Built (including ADE (2020) waste classification report, Table A2 and supplied tip dockets, EPA consignments and associated photographs.

8.8 Asbestos Air Monitoring

It is understood that Built engaged ADE Pty Ltd to conduct asbestos air monitoring and provide occupational hygiene advice during site construction activities.

Laboratory test results from the air monitoring conducted by ADE Pty Ltd and provided by Built are provided in Appendix C. The air monitoring reports by Sydney Laboratory Services are dated between 28 Jan 2020 and 26 August 2020 and made out to Drumberg Services. A review of these laboratory reports indicated the reported fibre concentrations were all <0.01 fibres/mL.

The laboratory reports indicate asbestos concentrations within air monitoring samples collected by ADE Consulting Group were within the acceptable SafeWork NSW exposure standards.

It is understood from discussions with Built that the air monitoring was conducted as a precaution during the initial stages of site excavations within upper fill containing bonded ACM. Based on the results of initial monitoring, the risk of airborne asbestos to be generated at the site was considered to be low by ADE and Built. Further air monitoring was not conducted during construction.

8.9 'As Built' Development

The Geosurv Asbuilt Remediation Layers survey plan (refer to Appendix A) shows the surveyed levels prior to and following capping, the capping type (concrete over a plastic marker layer OR clean imported soil over a orange geofabric marker layer), capping thickness and the general development layout.

Surveyed levels confirmed the following:

- A minimum of 125 mm of pavement thickness, comprising concrete, was placed over the black plastic marker layer within the internal pavements / building slabs / footpaths / some landscape areas and raised garden beds. Some of these concrete pavements were further overlaid with landscaping materials (ie roadbase and white granite in pathways, imported soil and mulch in garden beds etc – refer to Geosurv survey plans and Moir landscape plans for details);
- Within landscape areas capping was generally greater than 300 mm. Minor exceptions to this occurred in the landscape area immediately south of the Atrium (minimum 193 mm) and the localised landscape area immediately north of the Atrium (minimum 191 mm) (Refer to Geosurv Asbuilt Survey Plan in Appendix A) Garden beds comprised imported soil (Hills premium garden mix) and either surficial woodchips (mulch) or white scoria gravel over an orange geo-fabric marker layer which was placed over the ground surface in the landscape beds across the site. Moir Landscape Architecture (Moir, 2021) indicated that sufficient landscape depths were present to sustain the planting installed as per the landscape design;
- Approximately 219 mm to 382 mm (average thickness for each area) of imported roadbase and asphalt was placed over an orange geofabric marker layer which was placed over the ground surface in asphalt footpaths along the northern (front) site boundary;
- Approximately 396 mm (average thickness) of imported roadbase from Boral Seaham and 10 mm blue metal gravel from Saddingtons - Quarry Products (Newcastle) was placed over an orange geofabric marker layer over the ground surface in the vicinity of the electrical kiosk in the north western portion of the site.

The provided survey information (in Appendix A) confirms that appropriate capping has generally been achieved as required by the RAP.

The minimum thickness of capping as presented in the RAP has generally been achieved across the site with the minor exception of the two landscape areas to the north and south of the Atrium (min 191mm as shown on Geosurv Asbuilt Plan in Appendix B). The survey plan provides accurate levels indicating the depth to the geofabric marker layer. This depth should be considered during any future disturbance/maintenance of soils within the site on Geosurv Asbuilt Remediation Layers survey plan in Appendix A.

The observed capped areas (ie pavement and landscaped area), were consistent with the proposed and 'as built' development for the proposed university development.

8.10 Licensing

Based on the information supplied by Built including SafeWork NSW Asbestos Removal Control Plans (ARCP) and Online Notification System records it is understood that works conducted on the site involving potentially asbestos contaminated soil/fill have generally been conducted by licensed contractors with appropriate WorkSafe NSW approvals in place.

9. Assessment of Remediation

The objective of remediation and validation was to manage the identified ACM contamination in an acceptable manner on site, with minimal environmental impact, to a condition suitable for the proposed university development.

Based on the inspections undertaken at the site and information provided by Built, potentially contaminated materials have been successfully capped and managed beneath the existing former Courthouse building slabs, new building slabs, internal pavements and beneath approved landscape capping as shown on the provided survey plan in Appendix A.

The on-going success of the remediation and validation requires the implementation of the long-term SMP for the site, which has been prepared by DP (2021) and placement of a notice on the s10.7 planning certificate (to be added by NCC following completion of SMP) indicating that contaminated soils are present and capped on-site, and any works that may breach the cap must be conducted in accordance with the SMP. The SMP provides procedures for long-term management of contaminated soils at the site and should be implemented at the site by the site owners and managers.

10. Occupational Health and Safety / Environmental Management

It is understood that all employees and contractors on the site had received a site-specific induction from the contractor, which covered site hazards, safe work practices and emergency response.

As far as DP is aware, the relevant regulations pertaining to occupational health and safety, and environmental and human health issues associated with the remediation works were adhered to for the site works.

11. Conclusions

Based on the results of inspections, survey and observations during site remediation and validation, together with information provided by Built as presented in this report, the potentially contaminated materials within the investigation area (the site) have been appropriately remediated / managed with reference to the RAP (DP, 2020a). The development is considered to be suitable for the university campus development with respect to site contamination, on the provision that a long-term SMP is implemented.

12. References

- ADE. (2020). *Waste Analysis & Classification Report, 9 Church Street, Newcastle NSW*. Document No. DRD-87-17407/WAC1/v1f: ADE Consulting Group Pty Ltd.
- ADE. (2020b). *Waste Analysis & Classification Report, 9 Church Street, Newcastle NSW*. Document No. DRD-87-17407/WAC2/v1f: ADE Consulting Group Pty Ltd.
- ADE. (2020c). *Recovered Aggregate Report, 9 Church Street, Newcastle NSW*. Document No. DRD-87-17407/WAC3/v1f: ADE Consulting Group Pty Ltd.
- DP. (2020a). *Remediation Action Plan, Proposed Nihon University, 9 Church Street Newcastle*. Document No. 91667.02.R.004.Rev1: Douglas Partners Pty Ltd.
- DP. (2020b). *Stormwater Easement Management Strategy, Proposed Nihon University, 9 Church Street, Newcastle*. Document No. 91667.03.R.001.Rev1: Douglas Partners Pty Ltd.
- DP. (2020c). *Report on Detailed Site Investigation, Proposed Nihon University, 9 Church Street Newcastle*. Document No. 91667.02.R.003.Rev2: Douglas Partners Pty Ltd.
- DP. (2020d). *Report on Geotechnical Investigation, Nihon University, 9 Church Street, Newcastle*. Document No. 91667.01.R.001.Rev0: Douglas Partners Pty Ltd.
- DP. (2020e). *Report on Mine Subsidence Investigation, Nihon University, 9 Church Street, Newcastle*. Document No. 91667.00.R.001.Rev0: Douglas Partners Pty Ltd.
- DP. (2021). *Long Term Site Management Plan, Nihon University, 9 Church Street Newcastle*. Document No. 91667.03.R.003.Rev0: Douglas Partners Pty Ltd.
- Moir. (2021). *Landscape Soil Depth Confirmation - Nihon University, Newcastle*. Letter dated 9 September 2021: Moir Landscape Architecture Pty Ltd.
- NEPC. (2013). *National Environment Protection (Assessment of Site Contamination) Measure 1999 (as amended 2013) [NEPM]*. Australian Government Publishing Services Canberra: National Environment Protection Council.
- NSW EPA. (2014). *Waste Classification Guidelines, Part 1: Classifying Waste*. NSW Environment Protection Authority.
- NSW EPA. (2017). *Guidelines for the NSW Site Auditor Scheme (3rd Edition)*. NSW Environment Protection Authority.
- NSW EPA. (2020). *Assessment and Management of Hazardous Ground Gases*. NSW Environment Protection Authority.

NSW EPA. (2020). *Guidelines for Consultants Reporting on Contaminated Land*. Contaminated Land Guidelines: NSW Environment Protection Authority.

Presna. (2016). *Detailed Sites Investigation, 9 Church St, Newcastle, NSW 2300*. Presna Pty Ltd.

13. Limitations

Douglas Partners Pty Ltd (DP) has prepared this report for this project at 9 Church Street Newcastle with reference to DP's proposal NCL190520.P.001.Rev 1 dated 16 September 2019 and subsequent email budget update of 1 July 2020 and acceptance received from Sita Vasanthakumar of Built Pty Ltd dated 30 October 2019 on behalf of Nihon Daigaku Australia Newcastle Pty Ltd. The work was carried out under DP's Conditions of Engagement. This report is provided for the exclusive use of Nihon Daigaku Australia Newcastle Pty Ltd for this project only and for the purposes as described in the report. It should not be used by or relied upon for other projects or purposes on the same or other site or by a third party. Any party so relying upon this report beyond its exclusive use and purpose as stated above, and without the express written consent of DP, does so entirely at its own risk and without recourse to DP for any loss or damage. It is noted that DP were not on-site full-time during site construction and did not observe all materials that were exported or imported to the site. In preparing this report DP has necessarily relied upon information provided by the client and/or their agents.

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

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

The assessment of atypical safety hazards arising from this advice is restricted to the (geotechnical / environmental / groundwater) components set out in this report and based on known project conditions and stated design advice and assumptions. While some recommendations for safe controls may be provided, detailed 'safety in design' assessment is outside the current scope of this report and requires additional project data and assessment.

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

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

Asbestos has been detected by observation and by laboratory analysis, either on the former surface of the site, or in filling materials at the previous test locations sampled and analysed. Building demolition materials, such as concrete, brick, tile etc, were, also, located in previous below-ground filling, and these are considered as indicative of the possible presence of hazardous building materials (HBM), including asbestos.

Although the sampling plan adopted for this investigation is considered appropriate to achieve the stated project objectives, there are necessarily parts of the site that have not been sampled and analysed. This is either due to undetected variations in ground conditions or to budget constraints (as discussed above), or to parts of the site being inaccessible and not available for inspection/sampling, or to vegetation preventing visual inspection and reasonable access. It is therefore considered possible that HBM, including asbestos, may be present in unobserved or untested parts of the site, between and beyond sampling locations, and hence no warranty can be given that asbestos is not present.

Douglas Partners Pty Ltd

Appendix A

About This Report
Drawing 1 – Test Location Plan
ADW Johnson Detailed Survey of Lot 1 DP 1199904 (Ref 239815-
DET-001-A dated 10.09.18)
Marshall Scott Work-As-Executed Plan (Ref 22606 dated 8.7.2020
Built – Markup of DWP-AR-A020 Rev 15
Moir LP02 (Rev M) - General Arrangement Plan dated 21.05.2021
Moir - LP17 (Rev M) - Remediation Action Plan dated 30.08.2021
Geosurv Asbuilt Remediation Layers Plans (191196-AB-R-01 (E)
dated 6 Sept 2021)

About this Report

Douglas Partners



Introduction

These notes have been provided to amplify DP's report in regard to classification methods, field procedures and the comments section. Not all are necessarily relevant to all reports.

DP's reports are based on information gained from limited subsurface excavations and sampling, supplemented by knowledge of local geology and experience. For this reason, they must be regarded as interpretive rather than factual documents, limited to some extent by the scope of information on which they rely.

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This report is the property of Douglas Partners Pty Ltd. The report may only be used for the purpose for which it was commissioned and in accordance with the Conditions of Engagement for the commission supplied at the time of proposal. Unauthorised use of this report in any form whatsoever is prohibited.

Borehole and Test Pit Logs

The borehole and test pit logs presented in this report are an engineering and/or geological interpretation of the subsurface conditions, and their reliability will depend to some extent on frequency of sampling and the method of drilling or excavation. Ideally, continuous undisturbed sampling or core drilling will provide the most reliable assessment, but this is not always practicable or possible to justify on economic grounds. In any case the boreholes and test pits represent only a very small sample of the total subsurface profile.

Interpretation of the information and its application to design and construction should therefore take into account the spacing of boreholes or pits, the frequency of sampling, and the possibility of other than 'straight line' variations between the test locations.

Groundwater

Where groundwater levels are measured in boreholes there are several potential problems, namely:

- In low permeability soils groundwater may enter the hole very slowly or perhaps not at all during the time the hole is left open;

- A localised, perched water table may lead to an erroneous indication of the true water table;
- Water table levels will vary from time to time with seasons or recent weather changes. They may not be the same at the time of construction as are indicated in the report; and
- The use of water or mud as a drilling fluid will mask any groundwater inflow. Water has to be blown out of the hole and drilling mud must first be washed out of the hole if water measurements are to be made.

More reliable measurements can be made by installing standpipes which are read at intervals over several days, or perhaps weeks for low permeability soils. Piezometers, sealed in a particular stratum, may be advisable in low permeability soils or where there may be interference from a perched water table.

Reports

The report has been prepared by qualified personnel, is based on the information obtained from field and laboratory testing, and has been undertaken to current engineering standards of interpretation and analysis. Where the report has been prepared for a specific design proposal, the information and interpretation may not be relevant if the design proposal is changed. If this happens, DP will be pleased to review the report and the sufficiency of the investigation work.

Every care is taken with the report as it relates to interpretation of subsurface conditions, discussion of geotechnical and environmental aspects, and recommendations or suggestions for design and construction. However, DP cannot always anticipate or assume responsibility for:

- Unexpected variations in ground conditions. The potential for this will depend partly on borehole or pit spacing and sampling frequency;
- Changes in policy or interpretations of policy by statutory authorities; or
- The actions of contractors responding to commercial pressures.

If these occur, DP will be pleased to assist with investigations or advice to resolve the matter.

About this Report

Site Anomalies

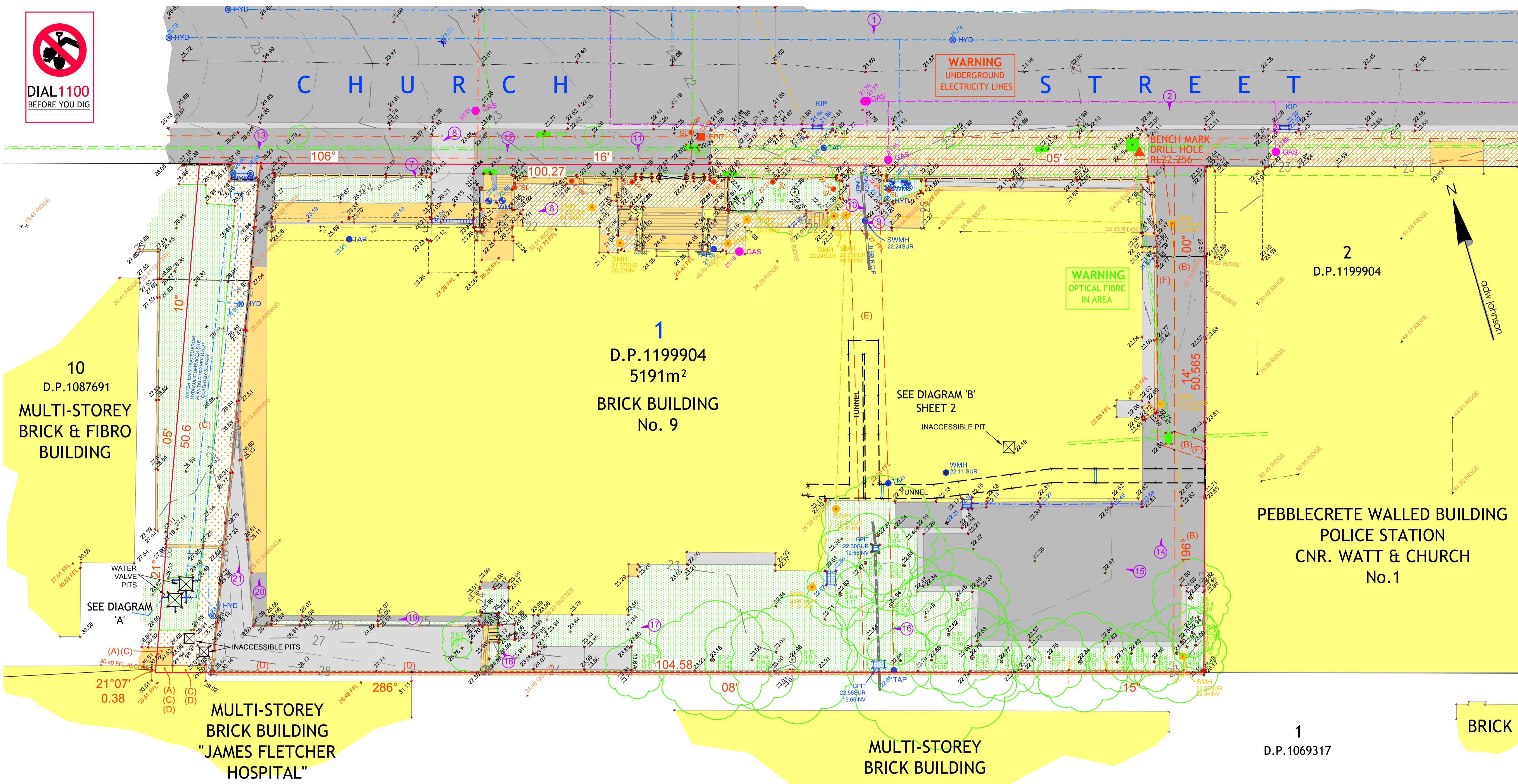
In the event that conditions encountered on site during construction appear to vary from those which were expected from the information contained in the report, DP requests that it be immediately notified. Most problems are much more readily resolved when conditions are exposed rather than at some later stage, well after the event.

Information for Contractual Purposes

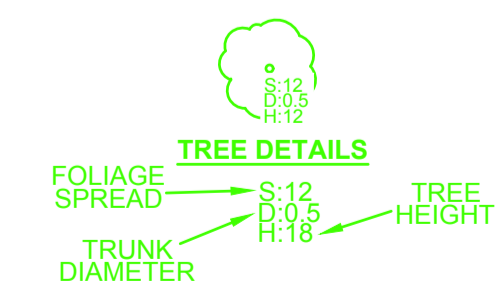
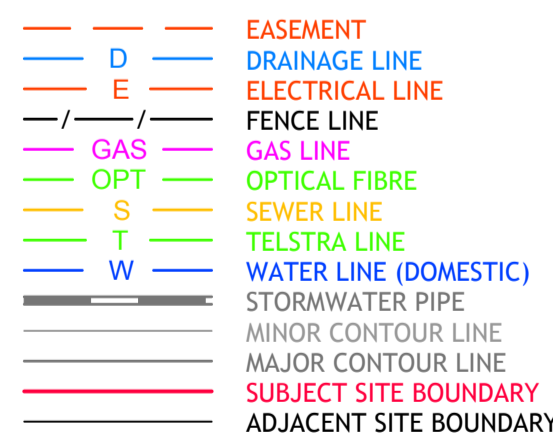
Where information obtained from this report is provided for tendering purposes, it is recommended that all information, including the written report and discussion, be made available. In circumstances where the discussion or comments section is not relevant to the contractual situation, it may be appropriate to prepare a specially edited document. DP would be pleased to assist in this regard and/or to make additional report copies available for contract purposes at a nominal charge.

Site Inspection

The company will always be pleased to provide engineering inspection services for geotechnical and environmental aspects of work to which this report is related. This could range from a site visit to confirm that conditions exposed are as expected, to full time engineering presence on site.



	BENCH MARK
	ELECTRICAL PIT
	LIGHT POLE
	STREET LIGHT
	HYDRANT
	STOP VALVE
	WATER METER
	WATER TAP
	WATER MAN HOLE
	STORMWATER MAN HOLE
	STORMWATER PIT
	SEWER INSPECTION PIT
	SEWER MAN HOLE
	TELSTRA PIT
	NATURAL GAS METER
	PHOTOGRAPH DIRECTION
	SHRUB
	SPOT HEIGHT INVERSE SHOT



-


DIAGRAM 'A'
SCALE 1:100

1. SERVICES HAVE BEEN LOCATED WHERE VISIBLE ONLY. PRIOR TO EXCAVATION OR CONSTRUCTION ALL SERVICES ARE TO BE LOCATED BY THE RELEVANT AUTHORITY.
2. SPOT LEVELS AND CONTOURS SHOWN HEREON ARE FOR DESIGN PURPOSES ONLY AND ARE TO BE CONFIRMED ON SITE PRIOR TO ANY EXCAVATION OR CONSTRUCTION.
3. THIS PLAN HAS BEEN PREPARED FOR THE PURPOSE OF DETAIL SURVEY AND SHOULD NOT BE USED FOR ANYTHING OTHER THAN THAT PURPOSE.

Detail Survey of Lot 1 D.P. 1199904



www.adwjohnson.com.au

ver.	date	comment	surveyed	drawn	checked	pm	co-ordinate information	level information	scale (A1 original size)	page
A	10.09.18	INITIAL ISSUE	CD	LB/MC	CD	TC	CO-ORDINATE SYSTEM: MGA 56 ORIGIN OF CO-ORDINATES: P.M. 19805 DATE OF SURVEY: 30.08.18	DATUM: AHD ORIGIN OF LEVELS: P.M. 190805 CONTOUR INTERVAL: 0.5		1 OF 2

JUNCTION
STRUCTURE LABEL
STRUCTURE TYPE

PIPE SIZE (mm) and (CLASS)
PIPE SUPPORT
PIPE GRADE (%)

DATUM RL

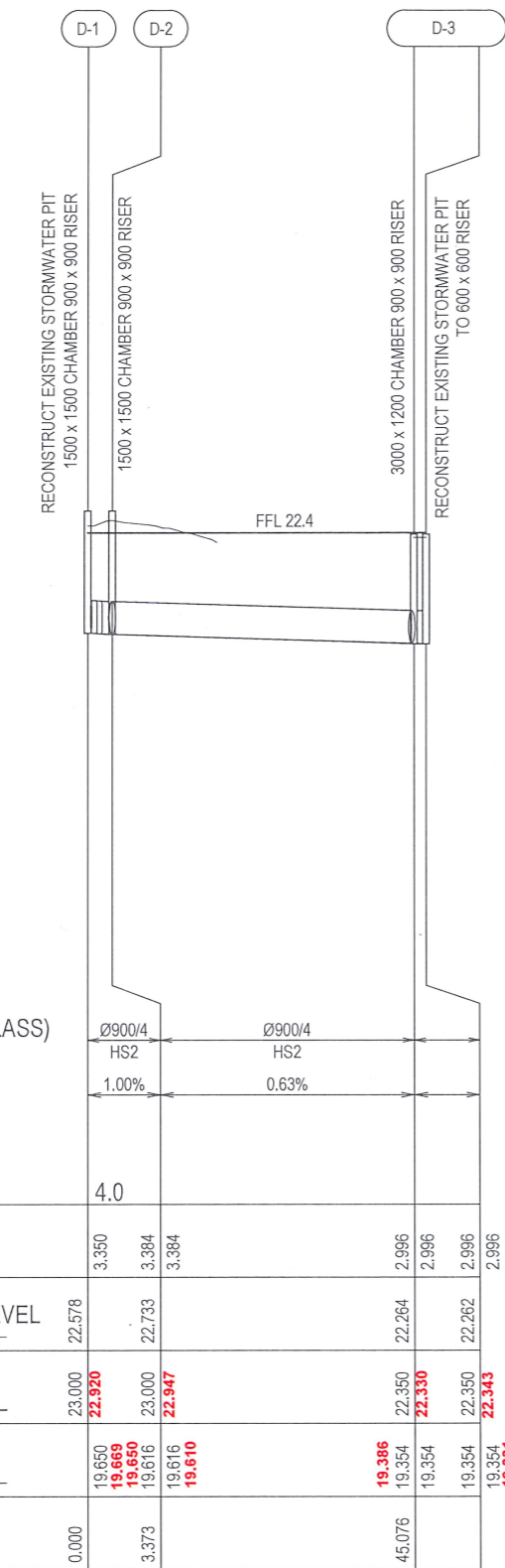
DEPTH TO INVERT

EXISTING SURFACE LEVEL

TOP OF PIT LEVEL

INVERT LEVEL

PIPE CHAINAGE



STORMWATER LONGITUDINAL SECTION
SCALE: H 1:500
V 1:100

W.A.E. SURVEY WAS CARRIED OUT BY
WMG ENGINEERING SURVEYORS PTY. LTD.
DATUM FOR SURVEY: PM19805
RL32.899
DATE OF SURVEY: 25/06/2020
Wayne Guthrie
WAYNE GUTHRIE
SURVEYOR

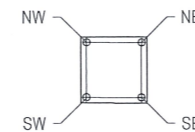
WORK - AS - EXECUTED PLAN

ANDREW MARK SCOTT

LAND SURVEYOR REGISTERED UNDER THE
SURVEYING AND SPATIAL INFORMATION ACT, 2002.

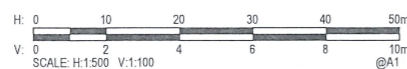
CHAMBERS SET OUT		
D-1 CHAMBER	EASTING	NORTHING
NE	386163.772	6355761.279
NW	386162.333	6355761.704
SE	386163.347	6355759.840
SW	386161.908	6355760.265
D-2 CHAMBER	EASTING	NORTHING
NE	386160.758	6355762.794
NW	386159.320	6355763.219
SE	386160.333	6355761.355
SW	386158.895	6355761.780
D-3 CHAMBER	EASTING	NORTHING
NE	386173.889	6355801.997
NW	386171.012	6355802.847
SE	386173.549	6355800.846
SW	386170.672	6355801.696

PIT COVER DETAILS	
PIT	COVER
D-1	REFER TO THE CITY OF NEWCASTLE STANDARD DRAWING A2102 FOR PIT DETAILS
D-2	REFER TO THE CITY OF NEWCASTLE STANDARD DRAWING A2102 FOR PIT DETAILS
D-3a	900SQ MASCOT ENGINEERING CLASS D PAVER INFILL COVER AND FRAME (CODE: MFPI99D) OR APPROVED EQUAL. COVER INFILL TO MATCH ADJOINING PAVEMENT
D-3b	600SQ MASCOT ENGINEERING CLASS D PAVER INFILL COVER AND FRAME (CODE: MFPI66D) OR APPROVED EQUAL. COVER INFILL TO MATCH ADJOINING PAVEMENT



PIT SETOUT DIAGRAM
SCALE 1:50

NOTE:
PIPE CHAINAGES APPROXIMATE ONLY
DUE TO OVERSIZE PIT CHAMBERS



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Web: www.cardno.com.au

Drawn LDB Date FEB 2020
Checked SGB Date FEB 2020
Designed JK Date FEB 2020
Verified SGB Date FEB 2020
Approved SGB Date FEB 2020

Client AZUSA SEKKEI
Project NIHON UNIVERSITY
AUSTRALIA NEWCASTLE CAMPUS PROJECT
9 CHURCH STREET, NEWCASTLE
Title STORMWATER DIVERSION
STORMWATER LONGITUDINAL SECTION

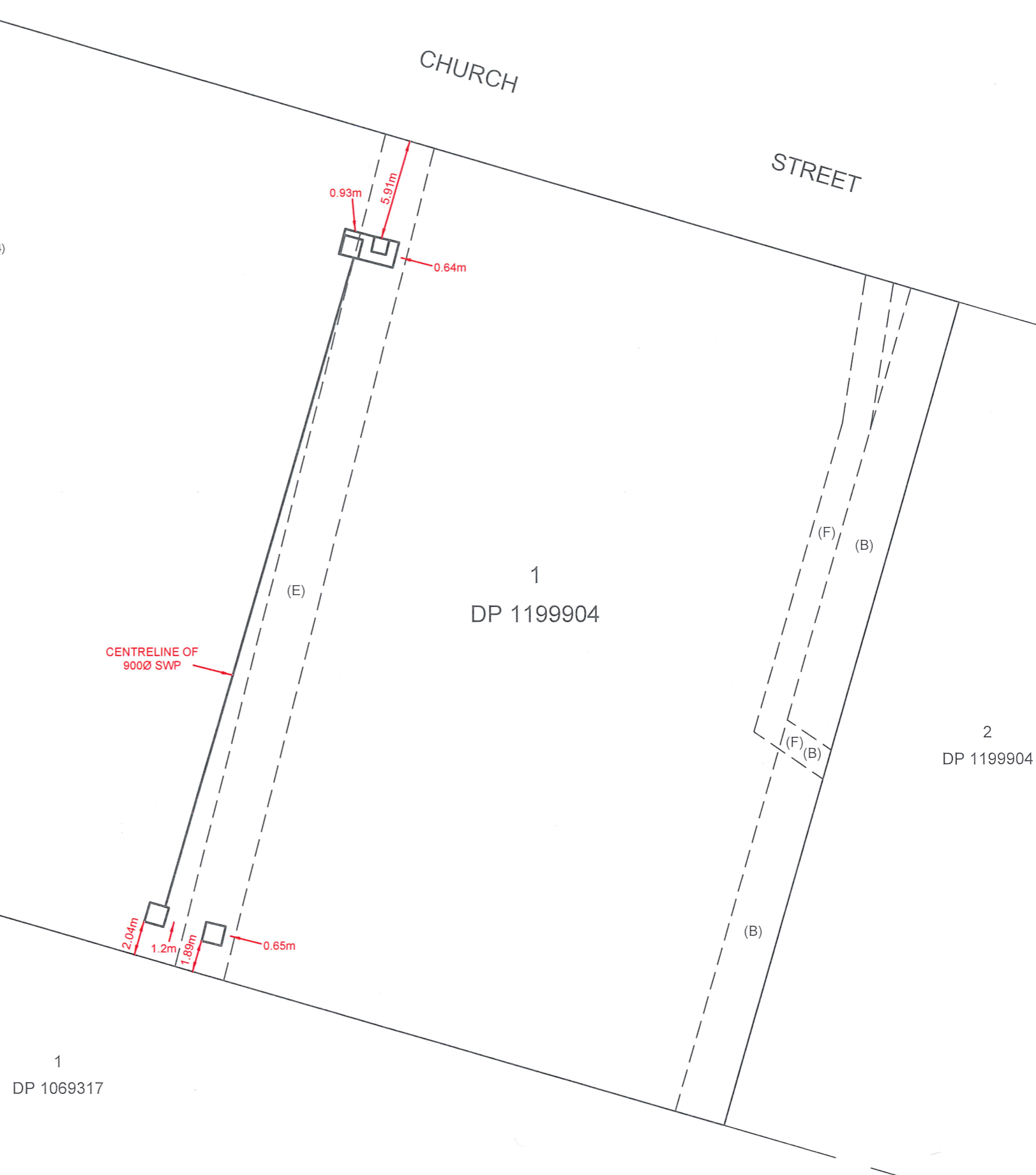
Status FOR CONSTRUCTION
Datum AHD Register - Scale - Size A1
Drawing Number 81019007-CI-315 Revision A



- (B) RESTRICTION ON THE USE OF LAND 3 WIDE (DP1199904)
(E) EASEMENT FOR DRAINAGE OF WATER 3 WIDE (LIMITED IN HEIGHT) (DP1199904)
(F) EASEMENT FOR SERVICES 1.7 WIDE (DP1199904)

WORK - AS - EXECUTED PLAN


8-7-20
ANDREW MARK SCOTT
LAND SURVEYOR REGISTERED UNDER THE
SURVEYING AND SPATIAL INFORMATION ACT, 2002.



(A2)

SCALES: 1:200	PROJECT: NIHON UNIVERSITY AUSTRALIA NEWCASTLE CAMPUS PROJECT	9 CHURCH STREET, NEWCASTLE	<div>MARSHALL SCOTT</div> <div>SURVEYING & LAND DEVELOPMENT CONSULTANTS</div> <div>OFFICE: 44 CUMBERLAND STREET, CESSNOCK TELEPHONE: (02) 4990 1711</div> <div>POSTAL: P.O. BOX 165, CESSNOCK 2325 EMAIL: admin@marshallscott.com.au</div>	SHEET 1 OF 1 SHEETS
LEVEL DATUM:	NEWCASTLE CITY COUNCIL DEVELOPMENT CONSENT No.	PLAN SHOWING LOCATION OF STORMWATER PITS		DWG.No. 22606-WAE
ORIGIN OF LEVELS:	XX			REF.No. 22606
				DATE: 07/07/2020

CRUSHED AGGREGATE MATERIAL (REFER TO ADE REPORTS
DRD-87-17407/WAC2 & WAC3) RE-USED ONSITE AS FILL BENEATH
BUILDING CONCRETE SLABS ON GROUND (CAPPED)

Notes

The information contained in this document is copyright and may not be used or reproduced for any other project or purpose.

Verify all dimensions and levels on site and report any discrepancies to dwp for direction prior to the commencement of work.

Drawings are to be read in conjunction with all other contract documents.

Use figured dimensions only. Do not scale from drawings. dwp cannot guarantee the accuracy of content and format for copies of drawings issued electronically. The completion of the Issue Details Checked and Authorised section is confirmation of the status of the drawing. The drawing shall not be used for construction unless endorsed 'For Construction' and authorised for issue.

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Registered Business Name dwp Australia ABN 37 169 328 018
David Rose Nominated Architect NSW APR 4882

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NOTE: REFER TO SHEETS A022-A024
FOR RETAINING WALL DIMENSIONS
AND TOP OF WALL HEIGHTS.

FOR CONSTRUCTION

FOR USE DURING CONSTRUCTION			
15	DRAWINGS REVISED	16.07.21	EC CB
14	DRAWINGS REVISED	25.09.20	EC CB
13	DRAWINGS REVISED	11.09.20	EC CB
12	DRAWINGS REVISED	31.07.20	EC CB
11	DRAWINGS REVISED	17.07.20	EC CB
10	ISSUED FOR CONSTRUCTION	13.05.20	DH JG
9	ISSUE FOR COORDINATION	24.04.20	DH CB
8	ISSUE FOR COORDINATION	16.04.20	DH JG
7	ISSUE FOR COORDINATION	05.03.20	KD BW
6	ISSUE FOR COORDINATION	04.03.20	EC BW
5	ISSUE FOR COORDINATION	27.02.20	KD BW
4	ISSUE FOR COORDINATION	14.02.20	EC BW
3	ISSUE FOR CONSTRUCTION	12.02.20	KD BW
2	ISSUE FOR COORDINATION	30.01.20	KD JG
Issue	Description	Date	Chk Auth

Architect/ Designer
dwp
www.dwp.com

Client / Project Architect
Azusa Sekkei Co Ltd



Project
NEWCASTLE COURTHOUSE

Location
1 Church St
Newcastle, NSW, 2300

Project Number
17-0347

Drawing
EARLY WORKS + PIER
LOCATION

Scale (A1)
1 : 200

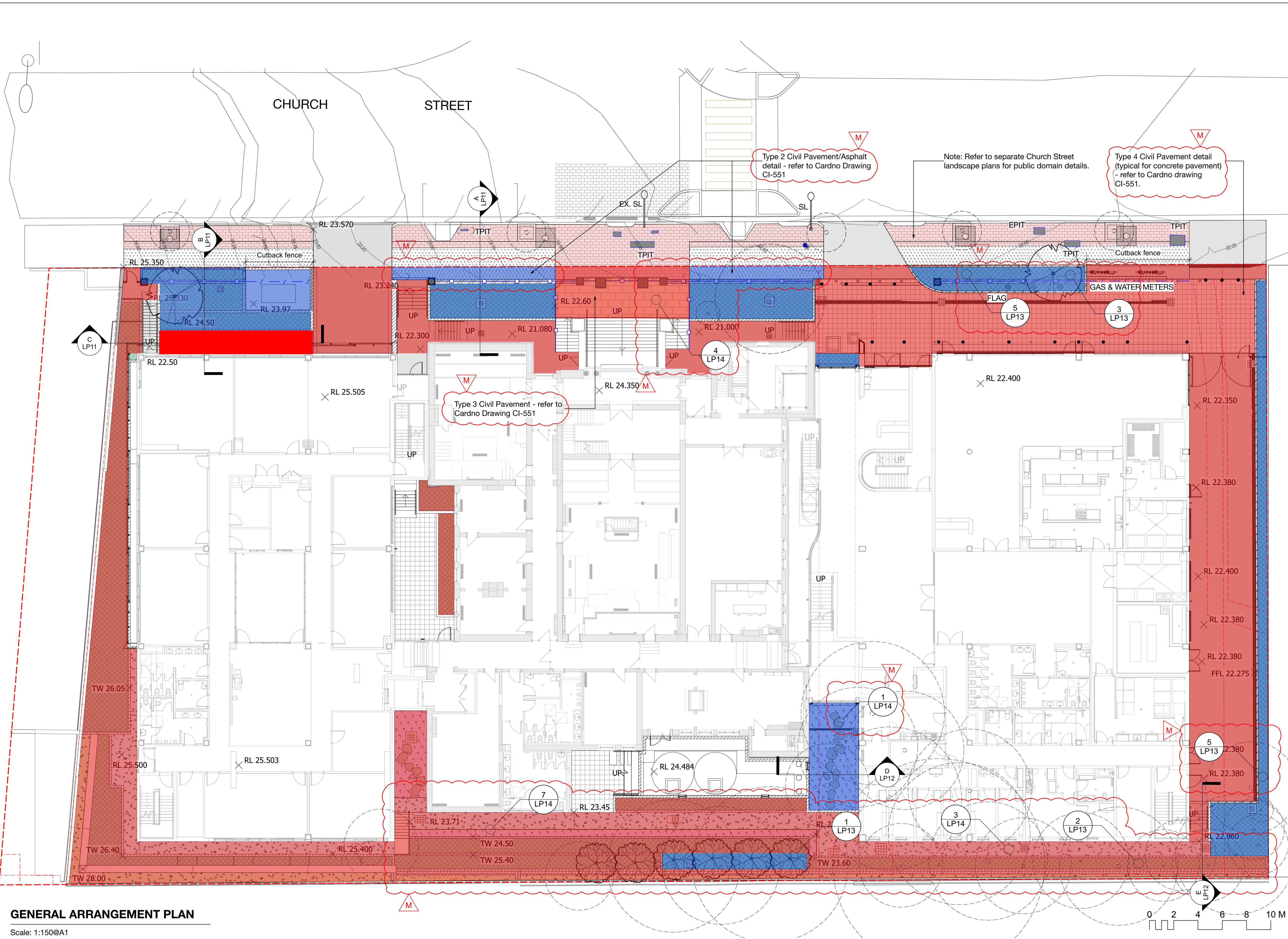
Date Printed
7/16/2021 11:09:54 AM

Drawing Number
A020

Issue
15

File Name:
BPM 3662/17-0347 Newcastle Courthouse/17-0347 NEWCASTLE COURTHOUSE CENTRAL_R2019.rvt





- LEGEND**
- Lot boundary
 - Easement line
 - Proposed level refer to Engineer's detail
 - Existing heritage fence & sandstone footing to be retained
 - Existing heritage fence & sandstone footing to be cut
 - Heritage brick paving refer to 6/LP14
 - Bluestone paving refer to 4/LP14
 - Concrete paving refer to Engineer's detail. Colour: Natural.
 - Asphalt paving refer to Engineer's detail
 - Pavement refer to Architect's detail
 - Decomposed granite - refer to 3/LP14
 - White crushed gravel - refer to specification
 - Blue metal - refer to specification
 - Random stepping stones - refer to 1/LP14
 - Concrete edge refer to Engineer's detail
 - Signage wall by Architect
 - Existing plinth to be retained
 - Proposed removable bollards
 - Proposed flag pole
 - New street light refer to Engineer's detail
 - Existing street light to be retained
 - Existing sandstone pillar to be retained & relocated
 - Existing electrical pit
 - Existing Telstra pit
 - Tactile ground surface indicator Colour: Black
 - Drainage refer to Engineers detail.
 - Stormwater pit refer to Engineers detail.
 - Existing trees to be removed
 - Landscape planting - refer to Detail Planting Plan
 - New tree pit - refer to 4/LP13

- Landscape and paved areas with concrete capping and plastic marker below
- Landscape and paved areas with orange geofabric marker and minimum 300mm clean fill above

GENERAL ARRANGEMENT PLAN
Scale: 1:150@A1

moir landscape architecture
Studio 1, 88 Fern Street | PO Box 111
Islington NSW 2296
Phone (02) 4965 3500 Fax (02) 4965 3555
admin@moir.com.au
www.moirlandscapearchitecture.com.au



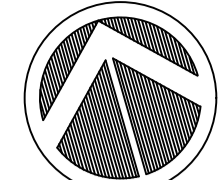
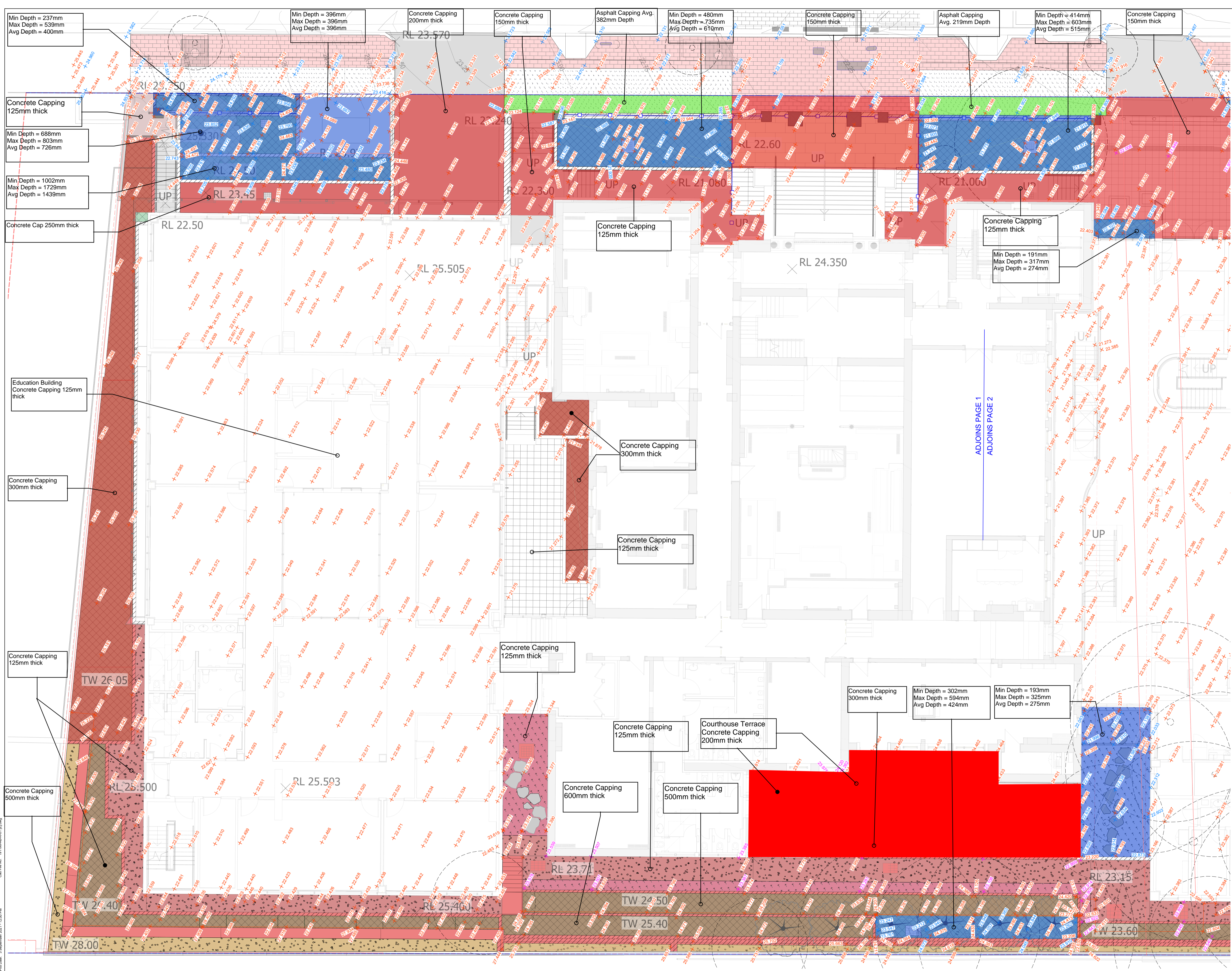
NOTES:
1. DO NOT SCALE OFF DRAWINGS. FOLLOW WRITTEN DIMENSIONS. IF IN DOUBT OBTAIN WRITTEN ADVICE FROM THE SUPERINTENDENT.
2. VERIFY ALL DIMENSIONS ON SITE.
3. TO BE READ IN CONJUNCTION WITH THE SPECIFICATION.
4. READ IN CONJUNCTION WITH ALL ARCHITECTURAL, CIVIL, STRUCTURAL, HYDRAULIC, MECHANICAL AND ELECTRICAL ENGINEER'S DRAWINGS AND SPECIFICATIONS.
5. CONFIRM LOCATION OF ALL SERVICES ON SITE PRIOR TO EXCAVATION.
6. DRAWINGS TO BE PRINTED IN COLOUR ONLY

Architect: **AZUSA SEKKEI**
Engineer: **Cardno**
dwg

No.	Date	REVISION	By
M	21/5/21	FOR CONSTRUCTION	AL

Status
FOR CONSTRUCTION
NIHON UNIVERSITY AUSTRALIA
NEWCASTLE CAMPUS
9 CHURCH STREET, NEWCASTLE
NIHON UNIVERSITY

REMEDATION ACTION PLAN
SCALE: 1:150@A1
Project No. **1691**
Drawing No. **LP17 M**
Rev
Drawn By: CX
Checked By: MW



NORTH[APPROX]

LEGEND

- × 22.000 GEOFA
- × 22.000 FINISHED CAPPING/SURFACE LEVEL
- × 22.000 PLASTIC
- LANDSCAPE & PAVED AREAS WITH CONCRETE CAPPING & PLASTIC MARKER BELOW
- LANDSCAPE & PAVED AREAS WITH ORANGE GEOFABRIC MARKER & NOMINAL CLEAN FILL ABOVE
- ASPHALT CAPPED AREA WITH GEOFABRIC MARKER LAYER

Greg Gibson
GREGORY IRETON GIBSON SURVEY ID 1101
SURVEYOR REGISTERED UNDER THE SURVEYING AND SPATIAL INFORMATION ACT, 2002 (NSW)

NOTES:

- ALL SPOT LEVEL HEIGHTS SHOWN ARE ACCURATE AT TIME OF SURVEY
- GEOSURV TAKES NO RESPONSIBILITY FOR THE ACCURACY OF THE SPOT LEVELS POST SURVEY DATA
- THIS SURVEY IS FOR PURPOSE OF REMEDIATION LAYERS SPOT LEVEL AS-BUILT CHECKS ONLY AND SHOULD NOT BE USED FOR ANY OTHER PURPOSE
- PLAN HAS BEEN PRODUCED AS A PRIORITY AS PER BUILDERS REQUEST. FOR CLARITY OF THE OFFSET MARKS SHOWN PLEASE ENLARGE SECTION OF THE PLAN WHEN PRINTING. SEEK CLARIFICATION FROM GEOSURV IF UNSURE OF THE OFFSET OR THE DIRECTION OF THE OFFSET TO THE LOCATION OF THE MARK PLACED
- FINISHED CAPPING/SURFACE LEVELS ARE COMBINED POINTS SURVEYED ON PAVING, TILES, CONCRETE CAPPING BEAM, BITUMEN & NATURAL SURFACE AREAS.

PLANS USED:

1691_CC_2010719_AL.dwg

E	02.09.21	HATCHING ADDED & POINT LAYERS COMBINED	GPAP
D	30.08.21	HATCHING & LEGEND UPDATED	GPAP
C	26.08.21	ADDITIONAL DATA & PAGE 2 ADDED	GPAP
B	16.08.21	ADDITIONAL DATA ADDED	GPAP
A	20.07.21	ISSUED FOR INFORMATION	BTP
REV.	DATE	AMENDMENTS	INT.

PREPARED BY:



www.geosurv.com.au 1300 554 675

PREPARED FOR:



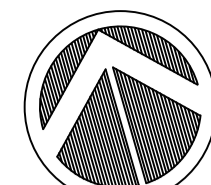
PLAN OF:

ASBUILT
REMEDIAL LAYERS
NIHON UNIVERSITY NEWCASTLE
9 CHURCH STREET
NEWCASTLE
NSW

ORIGINAL SIZE: A1 Page 1 of 2

SCALE:	1:100	CO-ORD:	SITE
DATUM:	SITE	ORIG DATUM:	PM 1980/5
SURVEY BY:	SJF	DATE:	VARIOUS
DRAWN BY:	GPAP	DATE:	20.07.21
CHECKED BY:	SJF	DATE:	20.07.21
APPROVED BY:	ADF	DATE:	20.07.21

DRAWING #: 191196-AB-R-01 [E]



NORTH[APPROX]

LEGEND

- 22.000 GEOFAB
- 22.000 FINISHED CAPPING/SURFACE LEVEL
- 22.000 PLASTIC

- LANDSCAPE & PAVED AREAS WITH CONCRETE CAPPING & PLASTIC MARKER BELOW
- LANDSCAPE & PAVED AREAS WITH ORANGE GEOFABRIC MARKER & NOMINAL CLEAN FILL ABOVE
- ASPHALT CAPPED AREA WITH GEOFABRIC MARKER LAYER

Gregory Iretton Gibson

GREGORY IRETTON GIBSON SURVEY ID 1101
SURVEYOR REGISTERED UNDER THE SURVEYING AND
SPATIAL INFORMATION ACT, 2002 (NSW)

NOTES:

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- THIS SURVEY IS FOR PURPOSE OF REMEDIATION LAYERS SPOT LEVEL AS-BUILT CHECKS ONLY AND SHOULD NOT BE USED FOR ANY OTHER PURPOSE
- PLAN HAS BEEN PRODUCED AS A PRIORITY AS PER BUILDERS REQUEST. FOR CLARITY OF THE OFFSET MARKS SHOWN PLEASE ENLARGE SECTION OF THE PLAN WHEN PRINTING. SEEK CLARIFICATION FROM GEOSURV IF UNSURE OF THE OFFSET OR THE DIRECTION OF THE OFFSET TO THE LOCATION OF THE MARK PLACED
- FINISHED CAPPING/SURFACE LEVELS ARE COMBINED POINTS SURVEYED ON PAVING, TILES, CONCRETE CAPPING BEAM, BITUMEN & NATURAL SURFACE AREAS.

PLANS USED:

1691_CC_2010719_AL.dwg

E	02.09.21	HATCHING ADDED & POINT LAYERS COMBINED	GPAP
D	30.08.21	HATCHING & LEGEND UPDATED	GPAP
C	26.08.21	ADDITIONAL DATA & PAGE 2 ADDED	GPAP
B	16.08.21	ADDITIONAL DATA ADDED	GPAP
A	20.07.21	ISSUED FOR INFORMATION	BTP
REV.	DATE	AMENDMENTS	INT.

PREPARED BY:

geosurv.
with you from beginning to end

locating surveying 3Dscanning access

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PREPARED FOR:

Built.

PLAN OF:

ASBUILT
REMEDIAL LAYERS
NIHON UNIVERSITY NEWCASTLE
9 CHURCH STREET
NEWCASTLE
NSW

ORIGINAL SIZE: A1 Page 2 of 2

SCALE:	1:100	CO-ORD:	SITE
DATUM:	SITE	ORIG DATUM:	PM 1980/5
SURVEY BY:	SJF	DATE:	VARIOUS
DRAWN BY:	GPAP	DATE:	20.07.21
CHECKED BY:	SJF	DATE:	20.07.21
APPROVED BY:	ADF	DATE:	20.07.21
DRAWING #:	191196-AB-R-01 [E]		

Appendix B

Table A1 – Imported Materials & associated delivery dockets and tracking documentation supplied by Built

Table A2 – Exported Materials & associated delivery dockets and tracking documentation supplied by Built

Imported Materials (disk only) – Supporting Documentation (delivery dockets/receipts, photos)

Exported Materials (disk only) – Supporting Documentation (disposal dockets/receipts, waste tracking dockets, photos)

Waste Classification Reports (by DP and ADE – disk only)

Environmental Protection Licences for Summerhill Waste Management Centre & Suez Raymond Terrace Waste Management Centre

TABLE A1 - IMPORTED MATERIALS

9 Church Street, Newcastle

Project No:

91667.03

Source Site						Material Observations	
Date	Supplier	Docket No.	Volume (m ³) classified in Letter Report	Material Classification/ Type ²	VENM/RRO Certificate Reference ¹	Volume Imported (tonnes)	Total Volume (tonnes)
31-Jan-20	Central Waste Station	24902	N/A	20mm Minus	DRD-80-17200/WAC1/v1 final - 21.01.2020 RCA Australia Letter 13809- 004/0 - 3.02.20	12.34	46.46
	Central Waste Station	24890				10.84	
	Central Waste Station	24879				12.1	
	Central Waste Station	24878				11.18	
01-Feb-20	Central Waste Station	24912		20mm Minus		11.83	24.62
	Central Waste Station	24920				12.79	
03-Feb-20	Central Waste Station	24924		20mm Minus		13.24	35.58
	Central Waste Station	24934				12.06	
	Central Waste Station	24973				10.28	
13-Feb-20	Central Waste Station	25319		20mm Minus		12.44	12.44
21-Feb-20	Central Waste Station	25783		20mm Minus		30.52	41.92
	Central Waste Station	25786				11.4	
22-Feb-20	Central Waste Station	25787		20mm Minus		12.2	31.3
	Central Waste Station	25792				8.52	
	Central Waste Station	25793				10.58	
03-Mar-20	Central Waste Station	26162		20mm Minus		25.52	25.52
21-Mar-20	Central Waste Station	27217		20mm Minus		30.18	30.18
31-Mar-20	Boral Quarries - Seaham	2996324	N/A	Road base unspecified fine crushed rock	Boral Seaham VENM Letter 23.03.20 Boral Test Report 18/18 19.5.18 to 4.6.18	23.22	123.56
	Boral Quarries - Seaham	2996326				27.96	
	Boral Quarries - Seaham	2996337				22.44	
	Boral Quarries - Seaham	2996356				22.74	
	Boral Quarries - Seaham	2996359				27.2	
01-Apr-20	Boral Quarries - Seaham	2996366	Road base unspecified fine crushed rock			23.88	336.78
	Boral Quarries - Seaham	2996379				23.3	
	Boral Quarries - Seaham	2996380				31.18	
	Boral Quarries - Seaham	2996382				25.64	
	Boral Quarries - Seaham	2996397				23.14	
	Boral Quarries - Seaham	2996406				23.18	
	Boral Quarries - Seaham	2996413				31.2	
	Boral Quarries - Seaham	2996419				23.74	
	Boral Quarries - Seaham	2996432				30.88	
	Boral Quarries - Seaham	2996434				23.68	
	Boral Quarries - Seaham	2996445				23.18	
	Boral Quarries - Seaham	2996446				22.82	
	Boral Quarries - Seaham	2996447				30.96	
02-Apr-20	Boral Quarries - Seaham	2996458	Road base unspecified fine crushed rock			22.56	705.02
	Boral Quarries - Seaham	2996459				27.3	
	Boral Quarries - Seaham	2996462				22.84	
	Boral Quarries - Seaham	2996471				30.6	
	Boral Quarries - Seaham	2996474				31.22	
	Boral Quarries - Seaham	2996479				31.18	
	Boral Quarries - Seaham	2996485				23.52	
	Boral Quarries - Seaham	2996506				30.68	
	Boral Quarries - Seaham	2996509				30.98	
	Boral Quarries - Seaham	2996510				22.5	
	Boral Quarries - Seaham	2996511				30.64	
	Boral Quarries - Seaham	2996516				28.7	
	Boral Quarries - Seaham	2996522				23.58	
	Boral Quarries - Seaham	2996534				31.36	
	Boral Quarries - Seaham	2996537				31.16	
	Boral Quarries - Seaham	2996552				31.76	
	Boral Quarries - Seaham	2996555				23.48	
	Boral Quarries - Seaham	2996558				31.8	
	Boral Quarries - Seaham	2996562				29.7	
	Boral Quarries - Seaham	2996565				35.48	
	Boral Quarries - Seaham	2996566				22.62	
	Boral Quarries - Seaham	2996574				29.5	
	Boral Quarries - Seaham	2996585				30.72	
	Boral Quarries - Seaham	2996582				23.48	
	Boral Quarries - Seaham	2996595				27.66	

TABLE A1 - IMPORTED MATERIALS

9 Church Street, Newcastle						Project No:	91667.03
Source Site						Material Observations	
Date	Supplier	Docket No.	Volume (m ³) classified in Letter Report	Material Classification/ Type ²	VENM/RRO Certificate Reference ¹	Volume Imported (tonnes)	Total Volume (tonnes)
03-Apr-20	Boral Quarries - Seaham	2996598	N/A	Road base unspecified fine crushed rock	Boral Seaham VENM Letter 23.03.20 Boral Test Report 18/18 19.5.18 to 4.6.18	22.6	1051.38
	Boral Quarries - Seaham	2996599				30.46	
	Boral Quarries - Seaham	2996600				27.86	
	Boral Quarries - Seaham	2996612				22.88	
	Boral Quarries - Seaham	2996624				30.8	
	Boral Quarries - Seaham	2996651				30.74	
	Boral Quarries - Seaham	2996660				5.46	
	Boral Quarries - Seaham	2996661				23.16	
	Boral Quarries - Seaham	2996668				28.48	
	Boral Quarries - Seaham	2996669				29.76	
	Boral Quarries - Seaham	2996672				23.6	
	Boral Quarries - Seaham	2996674				35.3	
	Boral Quarries - Seaham	2996676				26.68	
	Boral Quarries - Seaham	2996693				30.48	
	Boral Quarries - Seaham	2996698				36.64	
	Boral Quarries - Seaham	2996700				31.76	
	Boral Quarries - Seaham	2996702				34.2	
	Boral Quarries - Seaham	2996710				23.44	
	Boral Quarries - Seaham	2996717				35.5	
	Boral Quarries - Seaham	2996720				35.16	
	Boral Quarries - Seaham	2996724				23.42	
	Boral Quarries - Seaham	2996726				26.48	
	Boral Quarries - Seaham	2996730				30.6	
	Boral Quarries - Seaham	2996635				36.04	
	Boral Quarries - Seaham	2996636				23.76	
	Boral Quarries - Seaham	2996739				36.1	
	Boral Quarries - Seaham	2996742				29.76	
	Boral Quarries - Seaham	2996745				28.32	
	Boral Quarries - Seaham	2996746				35.1	
	Boral Quarries - Seaham	2996758				23.72	
	Boral Quarries - Seaham	2996763				35.42	
	Boral Quarries - Seaham	2996765				34.8	
	Boral Quarries - Seaham	2996768				26.76	
	Boral Quarries - Seaham	2996776				30.34	
	Boral Quarries - Seaham	2996781				35.96	
	Boral Quarries - Seaham	2996782				29.84	
04-Apr-20	Boral Quarries - Seaham	2996786	N/A	Road base unspecified fine crushed rock		30.7	499.22
	Boral Quarries - Seaham	2996787				35.84	
	Boral Quarries - Seaham	2996789				35.54	
	Boral Quarries - Seaham	2996790				36.34	
	Boral Quarries - Seaham	2996792				25.76	
	Boral Quarries - Seaham	2996795				34.86	
	Boral Quarries - Seaham	2996799				29.4	
	Boral Quarries - Seaham	2996801				25.68	
	Boral Quarries - Seaham	2996811				29.94	
	Boral Quarries - Seaham	2996812				35.68	
	Boral Quarries - Seaham	2996819				35.98	
	Boral Quarries - Seaham	2996820				35.44	
	Boral Quarries - Seaham	2996821				23.52	
	Boral Quarries - Seaham	2996823				25.52	
	Boral Quarries - Seaham	2996825				35.68	
06-Apr-20	Boral Quarries - Seaham	2996836		Road base unspecified fine crushed rock		23.34	505.46
	Boral Quarries - Seaham	2996846				31.34	
	Boral Quarries - Seaham	2996847				34.52	
	Boral Quarries - Seaham	2996850				23.98	
	Boral Quarries - Seaham	2996849				35.66	
	Boral Quarries - Seaham	2996854				27.7	
	Boral Quarries - Seaham	2996879				30.7	
	Boral Quarries - Seaham	2996903				23.74	
	Boral Quarries - Seaham	2996913				27.58	
	Boral Quarries - Seaham	2996915				30.94	
	Boral Quarries - Seaham	2996947				23.32	
	Boral Quarries - Seaham	2996949				36.74	
	Boral Quarries - Seaham	2996951				31.14	
	Boral Quarries - Seaham	2996979				30.78	
	Boral Quarries - Seaham	2996986				35.7	
07-Apr-20	Boral Quarries - Seaham	2996987		Road base unspecified fine crushed rock		23.24	487.04
	Boral Quarries - Seaham	2996993				27.9	
	Boral Quarries - Seaham	2997011				30.48	
	Boral Quarries - Seaham	2997023				35.52	
	Boral Quarries - Seaham	2997020				35.8	
	Boral Quarries - Seaham	2997025				35.54	
	Boral Quarries - Seaham	2997027				35.5	
	Boral Quarries - Seaham	2997034				28.64	
	Boral Quarries - Seaham	2997055				23.98	
	Boral Quarries - Seaham	2997066				35.74	
	Boral Quarries - Seaham	2997087				36.46	
	Boral Quarries - Seaham	2997092				23.72	
	Boral Quarries - Seaham	2997098				35.94	
	Boral Quarries - Seaham	2997105				35.52	
14-Apr-20	Central Waste Station	28275		20mm Minus	DRD-80-17200/WAC1/v1 final - 21.01.2020 RCA Australia Letter 13809- 004/0 - 3.02.20	9.44	9.44
27-Apr-20	Eraring Power Station	5506		Fly Ash	Origin Energy - Eraring Bottom Ash Jan-Feb 2020	5.1	5.1

TABLE A1 - IMPORTED MATERIALS

9 Church Street, Newcastle						Project No:	91667.03
Source Site						Material Observations	
Date	Supplier	Docket No.	Volume (m ³) classified in Letter Report	Material Classification/ Type ²	VENM/RRO Certificate Reference ¹	Volume Imported (tonnes)	Total Volume (tonnes)
29-Apr-20	Boral Quarries - Seaham	2998945		Road base unspecified fine crushed rock		31.72	122.78
	Boral Quarries - Seaham	2998951				29.34	
	Boral Quarries - Seaham	2998963				31.68	
	Boral Quarries - Seaham	2998969				30.04	
30-Apr-20	Boral Quarries - Seaham	2998978		Road base unspecified fine crushed rock	Boral Seaham VENM Letter 23.03.20 Boral Test Report 18/18 19.5.18 to 4.6.18	31.66	919.74
	Boral Quarries - Seaham	2998993				31.42	
	Boral Quarries - Seaham	2999007				31.04	
	Boral Quarries - Seaham	2999009				31.12	
	Boral Quarries - Seaham	2999060				30.82	
	Boral Quarries - Seaham	2999008				23.16	
	Boral Quarries - Seaham	2998975				31.52	
	Boral Quarries - Seaham	2999042				23.2	
	Boral Quarries - Seaham	2998977				31.74	
	Boral Quarries - Seaham	2999068				23	
	Boral Quarries - Seaham	2998979				30.84	
	Boral Quarries - Seaham	2998980				25.98	
	Boral Quarries - Seaham	2998981				28.38	
	Boral Quarries - Seaham	2998996				32.06	
	Boral Quarries - Seaham	2998997				31.64	
	Boral Quarries - Seaham	2999001				30.94	
	Boral Quarries - Seaham	2999003				29.12	
	Boral Quarries - Seaham	2999004				25.86	
	Boral Quarries - Seaham	2999011				32.26	
	Boral Quarries - Seaham	2999014				31.36	
	Boral Quarries - Seaham	2999027				30.82	
	Boral Quarries - Seaham	2999029				29.06	
	Boral Quarries - Seaham	2999038				26.02	
	Boral Quarries - Seaham	2999044				31.46	
	Boral Quarries - Seaham	2999045				30.36	
	Boral Quarries - Seaham	2999050				31.9	
	Boral Quarries - Seaham	2999052				31.2	
	Boral Quarries - Seaham	2999057				34.98	
	Boral Quarries - Seaham	2999061				29.38	
	Boral Quarries - Seaham	2999066				26.56	
	Boral Quarries - Seaham	2999067				30.88	
01-May-20	Boral Quarries - Seaham	2999074		Road base unspecified fine crushed rock		31.62	167.12
	Boral Quarries - Seaham	2999075				31.38	
	Boral Quarries - Seaham	2999076				30.54	
	Boral Quarries - Seaham	2999077				23.32	
	Boral Quarries - Seaham	2999124				23.88	
	Boral Quarries - Seaham	2999119				26.38	
01-May-20	Eraring Power Station	5632	N/A	Fly Ash	Origin Energy - Eraring Bottom Ash Jan-Feb 2020	4.9	4.9
04-May-20	Eraring Power Station	5654	N/A	Fly Ash	Origin Energy - Eraring Bottom Ash Jan-Feb 2020	13	100.32
	Eraring Power Station	5603				12.06	
	Eraring Power Station	3680				12.3	
	Eraring Power Station	3681				12.4	
	Eraring Power Station	5655				13.36	
	Eraring Power Station	5604				12.5	
	Eraring Power Station	5656				13.4	
	Eraring Power Station	5605				11.3	
06-May-20	Eraring Power Station	3682	N/A	Fly Ash	Origin Energy - Eraring Bottom Ash Jan-Feb 2020	12.2	69.98
	Eraring Power Station	3685				11.76	
	Eraring Power Station	3684				12.4	
	Eraring Power Station	3686				11.5	
	Eraring Power Station	5609				11.16	
	Eraring Power Station	5610				10.96	
07-May-20	Eraring Power Station	3690	N/A	Fly Ash	Origin Energy - Eraring Bottom Ash Jan-Feb 2020	11.26	34.22
	Eraring Power Station	3688				11.2	
	Eraring Power Station	3689				11.76	
08-May-20	Eraring Power Station	5614	N/A	Fly Ash	Origin Energy - Eraring Bottom Ash Jan-Feb 2020	11.56	86.26
	Eraring Power Station	3694				12	
	Eraring Power Station	5616				31.2	
	Eraring Power Station	5615				31.5	
09-May-20	Eraring Power Station	5714	N/A	Fly Ash	Origin Energy - Eraring Bottom Ash Jan-Feb 2020	31.7	191.85
	Eraring Power Station	3335				32.5	
	Eraring Power Station	3336				32.4	
	Eraring Power Station	5618				32	
	Eraring Power Station	5715				31.15	
	Eraring Power Station	5619				32.1	
12-May-20	Eraring Power Station	3698	N/A	Fly Ash	Origin Energy - Eraring Bottom Ash Jan-Feb 2020	12	118.52
	Eraring Power Station	3697				12.3	
	Eraring Power Station	5624				13.1	
	Eraring Power Station	3696				12.1	
	Eraring Power Station	5623				32.12	
	Eraring Power Station	3695				12.4	
	Eraring Power Station	5622				12.1	
	Eraring Power Station	5625				12.4	
13-May-20	Eraring Power Station	5629	N/A	Fly Ash	Origin Energy - Eraring Bottom Ash Jan-Feb 2020	13.5	50.7
	Eraring Power Station	5502				11.9	
	Eraring Power Station	5628				13.2	
	Eraring Power Station	5501				12.1	

TABLE A1 - IMPORTED MATERIALS

9 Church Street, Newcastle

Project No:

91667.03

Source Site						Material Observations	
Date	Supplier	Docket No.	Volume (m ³) classified in Letter Report	Material Classification/ Type ²	VENM/RRO Certificate Reference ¹	Volume Imported (tonnes)	Total Volume (tonnes)
03-Jun-20	Quarry Products (Newcastle)	144890	N/A	14mm Aggregate	Quarry Products (Newcastle) VENM Letter 10.06.20 Qualtest report MAT:NEW20W-2084--S03	12.18	12.18
11-Jun-20	Teralba Quarry	8332362	N/A	Packing Sand	Qualtest VENM Assessment Letter - QUAL-13-00030-AF Qualtest Material Test Report MAT:NEW19W-2931- -S05	12.14	24.9
	Teralba Quarry	8332368		NGB20-2C (Sewer mix)	Qualtest VENM Assessment Letter - QUAL-13-00030-AF Qualtest Material Test Report MAT:NEW20W-1698- -S04	12.76	
12-Jun-20	Quarry Products (Newcastle)	145610	N/A	14mm Aggregate	Quarry Products (Newcastle) VENM Letter 10.06.20 Qualtest report MAT:NEW20W-2084--S03	12.12	12.12
12-Jun-20	Mackas Sand & Soil - Williamtown	WI134719/1	N/A	Fill Sand	Cardno VENM Letter CGS3146-002.0	10.24	32.8
	Mackas Sand & Soil - Williamtown	WI134703/1				10.24	
	Mackas Sand & Soil - Williamtown	WI134740/1				12.32	
13-Jun-20	Mackas Sand & Soil - Williamtown	WI134792/1	N/A	Fill Sand	Cardno VENM Letter CGS3146-002.0	12.18	73.12
	Mackas Sand & Soil - Williamtown	WI134806/1				12.24	
	Mackas Sand & Soil - Williamtown	WI134796/1				11.66	
	Mackas Sand & Soil - Williamtown	WI134781/1				11.94	
	Mackas Sand & Soil - Williamtown	WI134778/1				12.36	
	Mackas Sand & Soil - Williamtown	WI134802/1				12.74	
15-Jun-20	Mackas Sand & Soil - Williamtown	WI134891/1	N/A	Fill Sand	Cardno VENM Letter CGS3146-002.0	11.94	11.94
15-Jun-20	Quarry Products (Newcastle)	145770	N/A	14mm Aggregate	Quarry Products (Newcastle) VENM Letter 10.06.20 Qualtest report MAT:NEW20W-2084--S03	11.52	11.52
15-Jun-20	Teralba Quarry	8332466	N/A	Packing Sand	Qualtest VENM Assessment Letter - QUAL-13-00030-AF Qualtest Material Test Report MAT:NEW19W-2931- -S05	12.06	12.06
17-Jun-20	Mackas Sand & Soil - Williamtown	WI135082/1	N/A	Fill Sand	Cardno VENM Letter CGS3146-002.0	12.1	43.18
	Mackas Sand & Soil - Williamtown	WI135148/1				31.08	
17-Jun-20	Teralba Quarry	8332620	N/A	NGB20-2C	Qualtest VENM Assessment Letter - QUAL-13-00030-AF Qualtest Material Test Report MAT:NEW20W-1698- -S04	12.06	12.06
26-Jun-20	Teralba Quarry	8333445	N/A	NGB20-2C	Qualtest VENM Assessment Letter - QUAL-13-00030-AF Qualtest Material Test Report MAT:NEW20W-1698- -S04	12.66	25.16
	Teralba Quarry	8333467		Packing Sand	Qualtest VENM Assessment Letter - QUAL-13-00030-AF Qualtest Material Test Report MAT:NEW19W-2931- -S05	12.5	
29-Jun-20	Teralba Quarry	8333559	N/A	NGB20-2C	Qualtest VENM Assessment Letter - QUAL-13-00030-AF Qualtest Material Test Report MAT:NEW20W-1698- -S04	12.02	12.02
02-Jul-20	Quarry Products (Newcastle)	148087	N/A	10mm Aggregate	Quarry Products (Newcastle) VENM Letter 10.06.20 Qualtest report MAT:NEW20W-2084--S02	11.86	11.86

TABLE A1 - IMPORTED MATERIALS

9 Church Street, Newcastle

Project No:

91667.03

Source Site						Material Observations	
Date	Supplier	Docket No.	Volume (m ³) classified in Letter Report	Material Classification/ Type ²	VENM/RRO Certificate Reference ¹	Volume Imported (tonnes)	Total Volume (tonnes)
02-Jul-20	Boral Quarries - Seaham	3005264	N/A	Road base unspecified fine crushed rock	Boral Seaham VENM Letter 23.03.20 Boral Test Report 18/18 19.5.18 to 4.6.18	12	35.15
	Boral Quarries - Seaham	3005300				11.64	
	Boral Quarries - Seaham	3005317				11.51	
02-Jul-20	Mackas Sand & Soil - Williamtown	W1136644/1	N/A	Packing Sand	Qualtest VENM Assessment Letter - QUAL-13-00030-AF	11.84	11.84
03-Jul-20	Boral Quarries - Seaham	3005433	N/A	Road base unspecified fine crushed rock	Boral Seaham VENM Letter 23.03.20 Boral Test Report 18/18 19.5.18 to 4.6.18	31.7	31.7
	Boral Quarries - Seaham	3005470				31.58	31.58
06-Jul-20	Boral Quarries - Seaham	3005536	N/A	Road base unspecified fine crushed rock	Boral Seaham VENM Letter 23.03.20 Boral Test Report 18/18 19.5.18 to 4.6.18	31.46	31.46
09-Jul-20	Teralba Quarry	8334432	N/A	Packing Sand	Qualtest VENM Assessment Letter - QUAL-13-00030-AF Qualtest Material Test Report MAT:NEW19W-2931- -S05	12.3	24.86
	Teralba Quarry	8334407				12.56	
10-Jul-20	Boral Quarries - Seaham	3006190	N/A	Road base unspecified fine crushed rock	Boral Seaham VENM Letter 23.03.20 Boral Test Report 18/18 19.5.18 to 4.6.18	12.64	56.14
	Boral Quarries - Seaham	3006189				12.64	
	Boral Quarries - Seaham	3006191				30.86	
13-Jul-20	Boral Quarries - Seaham	3006229	N/A	Road base unspecified fine crushed rock	Boral Seaham VENM Letter 23.03.20 Boral Test Report 18/18 19.5.18 to 4.6.18	12.02	59.2
	Boral Quarries - Seaham	3006228				11.68	
	Boral Quarries - Seaham	3006245				11.66	
	Boral Quarries - Seaham	3006234				11.76	
	Boral Quarries - Seaham	3006248				12.08	
20-Jul-20	Teralba Quarry	8334928	N/A	Sewer Mix	Qualtest VENM Assessment Letter - QUAL-13-00030-AF Qualtest Material Test Report MAT:NEW20W-1698- -S04	10.78	10.78
20-Jul-20	Boral Quarries - Seaham	3006534	N/A	Road base unspecified fine crushed rock	Boral Seaham VENM Letter 23.03.20 Boral Test Report 18/18 19.5.18 to 4.6.18	12.56	49.6
	Boral Quarries - Seaham	3006512				12.44	
	Boral Quarries - Seaham	3006581				12.22	
	Boral Quarries - Seaham	3006553				12.38	
21-Jul-20	Boral Quarries - Seaham	3006680	N/A	Road base unspecified fine crushed rock	Boral Seaham VENM Letter 23.03.20 Boral Test Report 18/18 19.5.18 to 4.6.18	11.96	48.12
	Boral Quarries - Seaham	3006637				12.08	
	Boral Quarries - Seaham	3006763				11.96	
	Boral Quarries - Seaham	3006724				12.12	
22-Jul-20	Teralba Quarry	8335129	N/A	Sewer Mix	Qualtest VENM Assessment Letter - QUAL-13-00030-AF Qualtest Material Test Report MAT:NEW20W-1698- -S04	12.48	12.48
22-Jul-20	Boral Quarries - Seaham	3006855	N/A	Road base unspecified fine crushed rock	Boral Seaham VENM Letter 23.03.20 Boral Test Report 18/18 19.5.18 to 4.6.18	12.58	24.62
	Boral Quarries - Seaham	3006790				12.04	
22-Jul-20	Quarry Products (Newcastle)	150356	N/A	10mm Aggregate	Quarry Products (Newcastle) VENM Letter 10.06.20 Qualtest report MAT:NEW20W-2084--S02	12.78	25.32
	Quarry Products (Newcastle)	150456				12.54	
23-Jul-20	Quarry Products (Newcastle)	150588	N/A	10mm Aggregate	Quarry Products (Newcastle) VENM Letter 10.06.20 Qualtest report MAT:NEW20W-2084--S02	12.58	24.94
	Quarry Products (Newcastle)	150660				12.36	
30-Jul-20	Teralba Quarry	8335507	N/A	Sewer Mix	Qualtest VENM Assessment Letter - QUAL-13-00030-AF Qualtest Material Test Report MAT:NEW20W-1698- -S04	12.3	12.3

TABLE A1 - IMPORTED MATERIALS

9 Church Street, Newcastle

Project No:

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Source Site						Material Observations	
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03-Aug-20	Teralba Quarry	8335635	N/A	Packing Sand	Qualtest VENM Assessment Letter - QUAL-13-00030-AF Qualtest Material Test Report MAT:NEW19W-2931- -S05	12.3	12.3
04-Aug-20	Teralba Quarry	8335748	N/A	Packing Sand	Qualtest VENM Assessment Letter - QUAL-13-00030-AF Qualtest Material Test Report MAT:NEW19W-2931- -S05	12.54	12.54
04-Aug-20	Quarry Products (Newcastle)	151847	N/A	10mm Aggregate	Quarry Products (Newcastle) VENM Letter 10.06.20 Qualtest report MAT:NEW20W-2084--S02	12.32	12.32
05-Aug-20	Teralba Quarry	8335853	N/A	Packing Sand	Qualtest VENM Assessment Letter - QUAL-13-00030-AF Qualtest Material Test Report MAT:NEW19W-2931- -S05	12.22	24.38
	Teralba Quarry	8335879				12.16	
06-Aug-20	Teralba Quarry	8335945	N/A	Sewer Mix	Qualtest VENM Assessment Letter - QUAL-13-00030-AF Qualtest Material Test Report MAT:NEW20W-1698- -S04	12.1	12.1
07-Aug-20	Teralba Quarry	8336043	N/A	Packing Sand	Qualtest VENM Assessment Letter - QUAL-13-00030-AF Qualtest Material Test Report MAT:NEW19W-2931- -S05	12.28	12.28
11-Aug-20	Teralba Quarry	8336109	N/A	Sewer Mix	Qualtest VENM Assessment Letter - QUAL-13-00030-AF Qualtest Material Test Report MAT:NEW20W-1698- -S04	12.44	37.28
	Teralba Quarry	8336119				12.52	
	Teralba Quarry	8336130		Packing Sand	Qualtest VENM Assessment Letter - QUAL-13-00030-AF Qualtest Material Test Report MAT:NEW19W-2931- -S05	12.32	
14-Aug-20	Teralba Quarry	8336379	N/A	Packing Sand	Qualtest VENM Assessment Letter - QUAL-13-00030-AF Qualtest Material Test Report MAT:NEW19W-2931- -S05	12.08	12.08
15-Aug-20	Teralba Quarry	8336404	N/A	Packing Sand	Qualtest VENM Assessment Letter - QUAL-13-00030-AF Qualtest Material Test Report MAT:NEW19W-2931- -S05	12.24	12.24
19-Aug-20	Teralba Quarry	8336657	N/A	Sewer Mix	Qualtest VENM Assessment Letter - QUAL-13-00030-AF Qualtest Material Test Report MAT:NEW20W-1698- -S04	11.72	11.72
26-Aug-20	Quarry Products (Newcastle)	154596	N/A	10mm Aggregate	Quarry Products (Newcastle) VENM Letter 10.06.20 Qualtest report MAT:NEW20W-2084--S02	12.02	12.02
28-Aug-20	Quarry Products (Newcastle)	154905	N/A	10mm Aggregate	Quarry Products (Newcastle) VENM Letter 10.06.20 Qualtest report MAT:NEW20W-2084--S02	12.2	12.2
02-Sep-20	Saddingtons - Mackas Sand & Soil - Williamstown	1260348	N/A	Packing Sand	Cardno VENM Letter CGS3146-002.0	2	4
	Saddingtons - Allandale Quarry	1260348		10mm Aggregate Blue Metal	Quarry Products (Newcastle) VENM Letter 10.06.20 coffey test report NEWC20S- 11116-1 14/12/20	2	
10-Sep-20	Boral Quarries - Seaham	3011464	N/A	Road base unspecified fine crushed rock	Boral Seaham VENM Letter 23.03.20	11.38	22.98
	Boral Quarries - Seaham	3011467			Boral Test Report 18/18 19.5.18 to 4.6.18	11.6	

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11-Sep-20	Boral Quarries - Seaham	3011492	N/A	Road base unspecified fine crushed rock	Boral Seaham VENM Letter 23.03.20 Boral Test Report 18/18 19.5.18 to 4.6.18	11.74	46.94
	Boral Quarries - Seaham	3011522				11.96	
	Boral Quarries - Seaham	3011501				11.7	
	Boral Quarries - Seaham	3011533				11.54	
14-Sep-20	Saddingtons - Mackas Sand & Soil - Williamstown	1264335	N/A	Packing Sand	Cardno VENM Letter CGS3146-002.0	6	18.02
	Teralba Quarry	8338342	N/A	Packing Sand	Qualtest VENM Assessment Letter - QUAL-13-00030-AF Qualtest Material Test Report MAT:NEW19W-2931- -S05	12.02	
14-Sep-20	Boral Quarries - Seaham	3011740	N/A	Road base unspecified fine crushed rock	Boral Seaham VENM Letter 23.03.20 Boral Test Report 18/18 19.5.18 to 4.6.18	11.8	23.52
	Boral Quarries - Seaham	3011716				11.72	
15-Sep-20	Saddingtons - Mackas Sand & Soil - Williamstown	1264883	N/A	Packing Sand	Cardno VENM Letter CGS3146-002.0	8	8
15-Sep-20	Boral Quarries - Seaham	3011844	N/A	Road base unspecified fine crushed rock	Boral Seaham VENM Letter 23.03.20 Boral Test Report 18/18 19.5.18 to 4.6.18	11.9	11.9
17-Sep-20	Boral Quarries - Seaham	3012055	N/A	Road base unspecified fine crushed rock	Boral Seaham VENM Letter 23.03.20 Boral Test Report 18/18 19.5.18 to 4.6.18	11.88	35.54
	Boral Quarries - Seaham	3012056				11.72	
	Boral Quarries - Seaham	3012088				11.94	
24-Sep-20	Boral Quarries - Seaham	3012956	N/A	Road base unspecified fine crushed rock	Boral Seaham VENM Letter 23.03.20 Boral Test Report 18/18 19.5.18 to 4.6.18	11.5	11.5
01-Apr-21	Boral Quarries - Seaham	3027560	N/A	Road base unspecified fine crushed rock	Boral Seaham VENM Letter 23.03.20 Boral Test Report 18/18 19.5.18 to 4.6.18	10.6	69.1
	Boral Quarries - Seaham	3027525				11.88	
	Boral Quarries - Seaham	3027528				11.66	
	Boral Quarries - Seaham	3027586				11.76	
	Boral Quarries - Seaham	3027606				11.24	
	Boral Quarries - Seaham	3027633				11.96	
20-Apr-21	Teralba Quarry	8350719	N/A	Packing Sand	Qualtest VENM Assessment Letter - QUAL-13-00030-AF Qualtest Material Test Report MAT:NEW19W-2931- -S05	12.04	12.04
27-Apr-21	Teralba Quarry	8351476	N/A	Packing Sand	Qualtest VENM Assessment Letter - QUAL-13-00030-AF Qualtest Material Test Report MAT:NEW19W-2931- -S05	12.08	12.08
06-May-21	Teralba Quarry	8352368	N/A	Sewer Mix	Qualtest VENM Assessment Letter - QUAL-13-00030-AF Qualtest Material Test Report MAT:NEW20W-1698- -S04	12.3	12.3
25-Jun-21	Boral Quarries - Seaham	3036862	N/A	Road base unspecified fine crushed rock	Boral Seaham VENM Letter 23.03.20 Boral Test Report 18/18 19.5.18 to 4.6.18	10.24	10.24
05-Jul-21	Saddingtons - Allandale Quarry	1360079	N/A	10mm Blue Metal Aggregate	Quarry Products (Newcastle) VENM Letter 10.06.20 coffey test report NEWC20S- 11116-1 14/12/20	20	20
15-Jul-21	Oz Landscape Supplies - Quarry Products Newcastle	C21303	N/A	10mm Drainage Aggregate	Quarry Products (Newcastle) VENM Letter 10.06.20 Qualtest report MAT:NEW20W-2084-S02	3.9	3.9
16-Jul-21	Oz Landscape Supplies - Quarry Products Newcastle	T233136-1	N/A	10mm Drainage Aggregate	Quarry Products (Newcastle) VENM Letter 10.06.20 Qualtest report MAT:NEW20W-2084-S02	4	4
21-Jul-21	Oz Landscape Supplies - Teralba Quarries	C21431	N/A	20mm Road Base	Qualtest VENM Assessment Letter - QUAL-13-00030-AF Qualtest Material test report MAT:NEW20W-2868- S01	8	8
22-Jul-21	Saddingtons - Mackas Sand & Soil - Williamstown	2329713	N/A	Packing Sand	Cardno VENM Letter CGS3146-002.0	20	20

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9 Church Street, Newcastle

Project No:

91667.03

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22-Jul-21	Oz Landscape Supplies - Teralba Quarries	C21437	N/A	20mm Road Base	Qualtest VENM Assessment Letter - QUAL-13-00030-AF Qualtest Material test report MAT:NEW20W-2868-S01	7.64	11.58
	Oz Landscape Supplies - Teralba Quarries	C21451				3.94	
25-Jul-21	Saddingtons - Coastal Quarry Products	2318958	N/A	10-14mm Scorria White (crushed granite)	Coastal Quarry Products Letter VENM Letter 19/07/21	6	6
26-Jul-21	Blue Gum Landscaping Centre - Coastal Quarry Products	T-114521	N/A	Ryolite Dust (Decomposed Granite)	Coastal Quarry Products Letter VENM Letter 19/07/21 JD Geotech test report P20109-4	1.5	1.5
27-Jul-21	Saddingtons - Mackas Sand & Soil - Williamtown	1367351	N/A	Packing Sand	Cardno VENM Letter CGS3146-002.0	6	8
	Saddingtons - Mackas Sand & Soil - Williamtown	1367486				2	
28-Jul-21	Saddingtons - Mackas Sand & Soil - Williamtown	1367684	N/A	Packing Sand	Cardno VENM Letter CGS3146-002.0	4	5.5
	Saddingtons - Mackas Sand & Soil - Williamtown	1367778				1.5	
29-Jul-21	Saddingtons - Mackas Sand & Soil - Williamtown	1368169	N/A	Packing Sand	Cardno VENM Letter CGS3146-002.0	6	6
04-Aug-21	The Hills	21000947	N/A	Hills Premium Garden Mix	Hills Premium Soil Mix Test Certs_combined	304	304
04-Aug-21	The Hills	21000947	N/A	Drainage Sand	Glenella Quarry (Drainage Sand)_ CANB20S-01290-1_April 2020	39	39
13-Aug-21	Oz Landscape Supplies	T234312	N/A	Mulch	Product Certification AS4454 - Descas - 1081-21	4	4
16-Aug-21	Oz Landscape Supplies	T234405	N/A	Mulch	Product Certification AS4454 - Descas - 1081-21	4	4
18-Apr-21	Oz Landscape Supplies	C21888	N/A	Mulch	Product Certification AS4454 - Descas - 1081-21	2	2

Notes to Table:

¹ If undertaken/ available² The excavated natural material order 2014 / Meets POEO VENM Definition / Recovered Aggregate order 2014 / other

TABLE A2 - EXPORTED MATERIALS

9 Church Street, Newcastle

Source Site						Project No:	91667.03		
Date	Receiving Facility	Vehicle Rego	Docket No.	Volume (m³) classified in Letter Report	Material Classification/ Type	DP Report/Email Reference	Volume Exported Per Load (tonnes)	Total Volume Exported (tonnes)	Description
10-Mar-20	Raymond Terrace Waste Management Centre	CL46MC	RT210001422.0	100m³ (Douglas Partners) 108m³ (ADE)	General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	91667.02.R.002.Rev0 Stockpile A - Email Classification 10-3-2020 (inspection on 10-3-2020) ADE Consulting Group Report no. DRD-87-17407 / WAC1 / v1f	17.8	17.8	Intermixed grey / brown gravely silty sand fill with variable inclusions including concrete, brick, ash, coal gravel, plastic, geofabric, roots, PVC, tile, steel pipe, glass, slate, gravel / cobbles (concrete, brick and terracotta pipe fragments) and some red/brown mottled grey clay.
11-Mar-20	Raymond Terrace Waste Management Centre	CL46MC	RT210001767.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		23.42	98.08	Intermixed grey / brown gravely silty sand fill with variable inclusions including concrete, brick, ash, coal gravel, plastic, geofabric, roots, PVC, tile, steel pipe, glass, slate, gravel / cobbles (concrete, brick and terracotta pipe fragments) and some red/brown mottled grey clay.
	Raymond Terrace Waste Management Centre	XN27KW	RT210001723.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		23.44		
	Raymond Terrace Waste Management Centre	XN27KW	RT210001776.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		25.86		
	Raymond Terrace Waste Management Centre	XN27KW	RT210001843.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		25.36		
12-Mar-20	Raymond Terrace Waste Management Centre	CL46MC	RT210001842	40 - 60m³ (Douglas Partners) 108m³ (ADE)	General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	DP Email dated 13 March 2020: 91667.02.R.002.Rev0 9 Church St, Newcastle-Nihon University-Stockpile B-Waste Classification (Email of 13 March 2020) (inspection on 12 -3-21)	22.34	359.58	Intermixed grey / brown gravely sandy clay fill with variable inclusions including concrete, brick, steel reinforcement, fibro fragments (bonded, in sound condition), wire, terracotta, coal gravel, tile and some light grey mottled red/brown clay.
	Summerhill Waste Management Centre	CL46MC	30149402-SH		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		24.06		
	Summerhill Waste Management Centre	CL46MC	30149613-SH		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		22.86		
	Summerhill Waste Management Centre	CL46MC	30149693-SH		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		24.34		
	Summerhill Waste Management Centre	XN9ZDJ	30149401-SH		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		25.9		
	Summerhill Waste Management Centre	XN9ZDJ	30149474-SH		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		25.86		
	Summerhill Waste Management Centre	XN9ZDJ	30149548-SH		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		25.56		
	Summerhill Waste Management Centre	XN9ZDJ	30149641-SH		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		26.56		
	Summerhill Waste Management Centre	XN9ZDJ	30149708-SH		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		26.7		
	Summerhill Waste Management Centre	XN27KW	30149412-SH		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		26.6		
	Summerhill Waste Management Centre	XN27KW	30149512-SH		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		28.42		
	Summerhill Waste Management Centre	XN27KW	30149621-SH		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		28.6		
	Summerhill Waste Management Centre	XN27KW	30149701-SH		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		26.08		
	Summerhill Waste Management Centre	CL46MC	30149501-SH		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		25.7		
13-Mar-20	Summerhill Waste Management Centre	CL46MC	30149774-SH	N/A	General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	Refer to DP Report 91667.02.R.002.Rev0 + Building C Site Stockpile Photos WC 08.03.20	24.02	149.22	Intermixed grey / brown gravely sandy clay fill with variable inclusions including concrete, brick, steel reinforcement, fibro fragments (bonded, in sound condition), wire, terracotta, coal gravel, tile and some light grey mottled red/brown clay.
	Summerhill Waste Management Centre	CL46MC	30149867-SH		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		22.62		
	Summerhill Waste Management Centre	XN27KW	30149775-SH		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		24.88		
	Summerhill Waste Management Centre	XN27KW	30149873-SH		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		25.24		
	Summerhill Waste Management Centre	XN9ZDJ	30149858-SH		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		23.9		
	Summerhill Waste Management Centre	XN9ZDJ	30150108-SH		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		28.56		
14-Mar-20	Raymond Terrace Waste Management Centre	XN9ZDJ	RT210002322.0	N/A	General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	Refer to DP Report 91667.02.R.002.Rev0 + Building C Site Stockpile Photos WC 08.03.20	29.14	38.36	Intermixed grey / brown gravely sandy clay fill with variable inclusions including concrete, brick, steel reinforcement, fibro fragments (bonded, in sound condition), wire, terracotta, coal gravel, tile and some light grey mottled red/brown clay.
	Raymond Terrace Waste Management Centre	XN9ZDJ	RT210002354.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		9.22		
17-Mar-20	Raymond Terrace Waste Management Centre	CL46MC	RT210002701.0	N/A	General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	Refer to DP Report 91667.02.R.002.Rev0 + Building C Site Stockpile Photos WC 15.03.20	23.24	102.04	Intermixed grey / brown gravely sandy clay fill with variable inclusions including concrete, brick, steel reinforcement, fibro fragments (bonded, in sound condition), wire, terracotta, coal gravel, tile and some light grey mottled red/brown clay.
	Raymond Terrace Waste Management Centre	TDL839	RT210002702.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		23.72		
	Raymond Terrace Waste Management Centre	TDL839	RT210002752.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		28.78		
	Raymond Terrace Waste Management Centre	CL46MC	RT210002756.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		26.3		
18-Mar-20	Raymond Terrace Waste Management Centre	CL46MC	RT210002829.0	80-100m³	General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	DP Email: 91667.02.R.002.Rev0-9 Church St, Newcastle-Nihon University-Stockpile C-Waste Classification Email and inspection of 18-3-2020	25.54	189.52	Intermixed grey / brown gravely sandy clay fill with variable inclusions including concrete, brick, steel reinforcement, fibro fragments (bonded, in sound condition), wire, terracotta, coal gravel, tile and some light grey mottled red/brown clay.
	Raymond Terrace Waste Management Centre	CL46MC	RT210002874.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		27.48		
	Raymond Terrace Waste Management Centre	CL46MC	RT210002916.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		25.62		
	Raymond Terrace Waste Management Centre	XN9ZDJ	RT210002821.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		24.76		
	Raymond Terrace Waste Management Centre	XN9ZDJ	RT210002854.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		27.62		
	Raymond Terrace Waste Management Centre	XN9ZDJ	RT210002892.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		30.12		
	Raymond Terrace Waste Management Centre	XN9ZDJ	RT210002935.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		28.38		

TABLE A2 - EXPORTED MATERIALS

9 Church Street, Newcastle					Project No: 91667.03				
Source Site					Material Observations				
Date	Receiving Facility	Vehicle Rego	Docket No.	Volume (m³) classified in Letter Report	Material Classification/ Type	DP Report/Email Reference	Volume Exported Per Load (tonnes)	Total Volume Exported (tonnes)	Description
19-Mar-20	Raymond Terrace Waste Management Centre	CL46MC	RT210003009.0	N/A	General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	Refer to DP Report 91667.02.R.002.Rev0 + Building C Site Stockpile Photos WC 15.03.20	28.1	336.82	Intermixed grey / brown gravelly sandy clay fill with variable inclusions including concrete, brick, steel reinforcement, fibro fragments (bonded, in sound condition)
	Raymond Terrace Waste Management Centre	CL46MC	RT210003087.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		28.4		
	Raymond Terrace Waste Management Centre	XN92DJ	RT210002990.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		27.74		
	Raymond Terrace Waste Management Centre	XN92DJ	RT210003070.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		29.46		
	Raymond Terrace Waste Management Centre	XN92DJ	RT210003117.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		29.16		
	Raymond Terrace Waste Management Centre	XN08DX	RT210003196.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		30.9		
	Raymond Terrace Waste Management Centre	XN08DX	RT210003250.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		44.2		
	Raymond Terrace Waste Management Centre	XN92DJ	RT210003173.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		33.12		
	Raymond Terrace Waste Management Centre	XN92DJ	RT210003213.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		28.82		
	Raymond Terrace Waste Management Centre	XN92DJ	RT210003262.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		31.16		
	Raymond Terrace Waste Management Centre	XN92DJ	RT210003339.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		25.76		
20-Mar-20	Raymond Terrace Waste Management Centre	XN27KW	RT210003198.0	N/A	General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	Refer to DP Report 91667.02.R.002.Rev0 + Building C Site Stockpile Photos WC 15.03.20	27.56	359.82	Intermixed grey / brown gravelly sandy clay fill with variable inclusions including concrete, brick, steel reinforcement, fibro fragments (bonded, in sound condition)
	Raymond Terrace Waste Management Centre	XN27KW	RT210003255.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		32.04		
	Raymond Terrace Waste Management Centre	XN27KW	RT210003333.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		28.1		
	Raymond Terrace Waste Management Centre	CL46MC	RT210003181.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		24.82		
	Raymond Terrace Waste Management Centre	CL46MC	RT210003239.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		26.46		
	Raymond Terrace Waste Management Centre	CL46MC	RT210003322.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		26.88		
	Raymond Terrace Waste Management Centre	XN08DX	RT210003196.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		30.9		
	Raymond Terrace Waste Management Centre	XN08DX	RT210003250.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		44.2		
	Raymond Terrace Waste Management Centre	XN92DJ	RT210003173.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		33.12		
	Raymond Terrace Waste Management Centre	XN92DJ	RT210003213.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		28.82		
	Raymond Terrace Waste Management Centre	XN92DJ	RT210003262.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		31.16		
	Raymond Terrace Waste Management Centre	XN92DJ	RT210003339.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		25.76		
	Raymond Terrace Waste Management Centre	XN92DJ	RT210003395.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		24.9		
21-Mar-20	Raymond Terrace Waste Management Centre	CL46MC	RT210003399.0	N/A	General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	Refer to DP Report 91667.02.R.002.Rev0 + Building C Site Stockpile Photos WC 15.03.20	26.1	216.16	Intermixed grey / brown gravelly sandy clay fill with variable inclusions including concrete, brick, steel reinforcement, fibro fragments (bonded, in sound condition)
	Raymond Terrace Waste Management Centre	XN92DJ	RT210003416.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		29.5		
	Raymond Terrace Waste Management Centre	CL46MC	RT210003428.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		22.98		
	Raymond Terrace Waste Management Centre	XN92DJ	RT210003451.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		29.58		
	Raymond Terrace Waste Management Centre	XN27KW	RT210003396.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		25.36		
	Raymond Terrace Waste Management Centre	XN27KW	RT210003420.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		32.28		
	Raymond Terrace Waste Management Centre	XN27KW	RT210003441.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		25.46		
	Raymond Terrace Waste Management Centre	XN27KW	RT210003441.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		25.46		

TABLE A2 - EXPORTED MATERIALS

9 Church Street, Newcastle				Source Site		Project No: 91667.03			
Date	Receiving Facility	Vehicle Rego	Docket No.	Volume (m³) classified in Letter Report	Material Classification/ Type	DP Report/Email Reference	Volume Exported Per Load (tonnes)	Total Volume Exported (tonnes)	Material Observations
23-Mar-20	Raymond Terrace Waste Management Centre	CB68PJ	RT210003687.0	N/A	General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	Refer to DP Report 91667.02 R.002 Rev0 + Building C Site Stockpile Photos WC 22.03.20	28.04	407.56	Intermixed grey / brown gravelly sandy clay fill with variable inclusions including concrete, brick, steel reinforcement, fibro fragments (bonded, in sound condition)
	Raymond Terrace Waste Management Centre	CB68PJ	RT210003749.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		26.72		
	Raymond Terrace Waste Management Centre	CB68PJ	RT210003794.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		26.8		
	Raymond Terrace Waste Management Centre	CL46MC	RT210003701.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		26.6		
	Raymond Terrace Waste Management Centre	CL46MC	RT210003757.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		23.88		
	Raymond Terrace Waste Management Centre	CL46MC	RT210003807.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		25.14		
	Raymond Terrace Waste Management Centre	CL46MC	RT210003686.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		26.92		
	Raymond Terrace Waste Management Centre	XN27KW	RT210003738.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		26.6		
	Raymond Terrace Waste Management Centre	XN27KW	RT210003787.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		28.16		
	Raymond Terrace Waste Management Centre	XN92DJ	RT210003677.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		29.26		
	Raymond Terrace Waste Management Centre	XN92DJ	RT210003716.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		30.28		
	Raymond Terrace Waste Management Centre	XN92DJ	RT210003761.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		25.86		
	Raymond Terrace Waste Management Centre	XN92DJ	RT210003810.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		28.6		
	Raymond Terrace Waste Management Centre	MUL503	RT210003732.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		26.7		
	Raymond Terrace Waste Management Centre	MUL503	RT210003777.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		28		
24-Mar-20	Raymond Terrace Waste Management Centre	MU1105	RT210003871.0	N/A	General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	Refer to DP Report 91667.02 R.003 + Building C Site Stockpile Photos WC 22.03.20	25.88	423.08	Intermixed grey / brown gravelly sandy clay fill with variable inclusions including concrete, brick, steel reinforcement, fibro fragments (bonded, in sound condition)
	Raymond Terrace Waste Management Centre	CTC056	RT210003957.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		27.86		
	Raymond Terrace Waste Management Centre	MUL503	RT210003948.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		29.72		
	Raymond Terrace Waste Management Centre	XN92DJ	RT210003867.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		23.4		
	Raymond Terrace Waste Management Centre	XN92DJ	RT210003898.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		26.02		
	Raymond Terrace Waste Management Centre	XN92DJ	RT210003940.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		27.98		
	Raymond Terrace Waste Management Centre	XN92DJ	RT210003982.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		28.7		
	Raymond Terrace Waste Management Centre	CL46MC	RT210003876.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		23.18		
	Raymond Terrace Waste Management Centre	CL46MC	RT210003914.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		26.06		
	Raymond Terrace Waste Management Centre	CL46MC	RT210003964.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		24.94		
	Raymond Terrace Waste Management Centre	CB68PJ	RT210003879.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		26.44		
	Raymond Terrace Waste Management Centre	CB68PJ	RT210003927.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		26.74		
	Raymond Terrace Waste Management Centre	CB68PJ	RT210003972.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		29.22		
	Raymond Terrace Waste Management Centre	XN27KW	RT210003886.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		21.4		
	Raymond Terrace Waste Management Centre	XN27KW	RT210003932.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		28.74		
	Raymond Terrace Waste Management Centre	XN27KW	RT210003976.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		26.8		

TABLE A2 - EXPORTED MATERIALS

9 Church Street, Newcastle

Source Site						Project No: 91667.03			
Date	Receiving Facility	Vehicle Rego	Docket No.	Volume (m³) classified in Letter Report	Material Classification/ Type	DP Report/Email Reference	Volume Exported Per Load (tonnes)	Total Volume Exported (tonnes)	Description
25-Mar-20	Raymond Terrace Waste Management Centre	CL46MC	RT210004061.0	N/A	General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	Refer to DP Report 91667.02.R.003 + Building C Site Stockpile Photos WC 22.03.20	23.3	228.56	Intermixed grey / brown gravelly sandy clay fill with variable inclusions including concrete, brick, steel reinforcement, fibro fragments (bonded, in sound condition)
	Raymond Terrace Waste Management Centre	CL46MC	RT210004122.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		24.08		
	Raymond Terrace Waste Management Centre	CL46MC	RT210004158.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		26.74		
	Raymond Terrace Waste Management Centre	XN27KW	RT210004063.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		26.74		
	Raymond Terrace Waste Management Centre	XN27KW	RT210004111.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		26.16		
	Raymond Terrace Waste Management Centre	XN92DJ	RT210004054.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		27.4		
	Raymond Terrace Waste Management Centre	XN92DJ	RT210004102.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		22.14		
	Raymond Terrace Waste Management Centre	XN92DJ	RT210004143.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		26.54		
	Raymond Terrace Waste Management Centre	XN92DJ	RT210004188.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		25.46		
30-Mar-20	Raymond Terrace Waste Management Centre	MU1105	RT210004647.0	N/A	General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	Refer to DP Report 91667.02.R.003 + Building A+C Site Stockpile Photos WC 30.03.20	22.98	294.44	Intermixed grey / brown gravelly sandy clay fill with fibro fragments (bonded, in sound condition)
	Raymond Terrace Waste Management Centre	MU1105	RT210004707.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		27.24		
	Raymond Terrace Waste Management Centre	MU1105	RT210004744.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		26.58		
	Raymond Terrace Waste Management Centre	CB68PJ	RT210004639.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		22.76		
	Raymond Terrace Waste Management Centre	CB68PJ	RT210004683.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		27.3		
	Raymond Terrace Waste Management Centre	CB68PJ	RT210004732.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		28.5		
	Raymond Terrace Waste Management Centre	CL46MC	RT210004636.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		25.08		
	Raymond Terrace Waste Management Centre	CL46MC	RT210004670.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		25.12		
	Raymond Terrace Waste Management Centre	CL46MC	RT210004730.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		23.32		
	Raymond Terrace Waste Management Centre	DLF409	RT210004726.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		26.92		
	Raymond Terrace Waste Management Centre	BX37WF	RT210004717.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		17		
	Raymond Terrace Waste Management Centre	BX37WF	RT210004761.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		21.64		
	Raymond Terrace Waste Management Centre	BX37WF	RT210004839.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		26.36		
31-Mar-20	Raymond Terrace Waste Management Centre	BX37WF	RT210004888.0	N/A	General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	Refer to DP Report 91667.02.R.003 + Building A Site Stockpile Photos WC 30.03.20	14.42	237.06	Intermixed grey / brown gravelly sandy clay fill with fibro fragments (bonded, in sound condition)
	Raymond Terrace Waste Management Centre	XN27KW	RT210004844.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		24.42		
	Raymond Terrace Waste Management Centre	XN27KW	RT210004948.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		24.68		
	Raymond Terrace Waste Management Centre	CB68PJ	RT210004850.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		25.42		
	Raymond Terrace Waste Management Centre	CB68PJ	RT210004956.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		25.2		
	Raymond Terrace Waste Management Centre	XN92DJ	RT210004837.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		23.74		
	Raymond Terrace Waste Management Centre	XN90DJ	RT210004882.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		27		
	Raymond Terrace Waste Management Centre	CL46MC	RT210004832.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		21		
	Raymond Terrace Waste Management Centre	CL46MC	RT210004878.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		24.82		
	Raymond Terrace Waste Management Centre	CL46MC	RT210005111.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		22.76		
01-Apr-20	Raymond Terrace Waste Management Centre	CL46MC	RT210005111.0	N/A	General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	Refer to DP Report 91667.02.R.003 + Building A Site Stockpile Photos WC 30.03.20	22.76	22.76	Intermixed grey / brown GWC with variable inclusions including concrete, brick, steel reinforcement, fibro fragments (bonded, in sound condition)
02-Apr-20	Raymond Terrace Waste Management Centre	CL46MC	RT210005214.0	N/A	General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	Refer to DP Report 91667.02.R.003 + Building C Site Stockpile Photos WC 01.04.20	22.78	94.48	Intermixed grey / brown GWC with variable inclusions including concrete, brick, steel reinforcement, fibro fragments (bonded, in sound condition)
	Raymond Terrace Waste Management Centre	CL46MC	RT210005289.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		24.06		
	Raymond Terrace Waste Management Centre	XN92DJ	RT210005235.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		22.42		
	Raymond Terrace Waste Management Centre	XN62DJ	RT210005288.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		25.22		
03-Apr-20	Raymond Terrace Waste Management Centre	XN92DJ	RT210005403.0	N/A	General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	Refer to DP Report 91667.02.R.003 + Building A Site Stockpile Photos WC 01.04.20	21.66	46.66	Intermixed grey / brown GWC with variable inclusions including concrete, brick, steel reinforcement, fibro fragments (bonded, in sound condition)
	Raymond Terrace Waste Management Centre	XN92DJ	RT210005481.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		25		

TABLE A2 - EXPORTED MATERIALS

9 Church Street, Newcastle

Source Site						Project No: 91667.03			
Date	Receiving Facility	Vehicle Rego	Docket No.	Volume (m³) classified in Letter Report	Material Classification/ Type	DP Report/Email Reference	Volume Exported Per Load (tonnes)	Total Volume Exported (tonnes)	Description
04-Apr-20	Raymond Terrace Waste Management Centre	XN92DJ	RT210005581.0	N/A	General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	Refer to DP Report 91667.02.R.003 + Building A Site Stockpile Photos WC 01.04.20	19.32	42.92	Intermixed grey / brown GWC with variable inclusions including concrete, brick, steel reinforcement, fibro fragments (bonded, in sound condition)
	Raymond Terrace Waste Management Centre	XN92DJ	RT210005618.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		23.6		
06-Apr-20	Raymond Terrace Waste Management Centre	XN92DJ	RT210005694.0	N/A	General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	Refer to DP Report 91667.02.R.003 + Building A Site Stockpile Photos WC 06.04.20	21.3	46.02	Intermixed grey / brown GWC with variable inclusions including concrete, brick, steel reinforcement, fibro fragments (bonded, in sound condition)
	Raymond Terrace Waste Management Centre	XN92DJ	RT210005790.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		24.72		
07-Apr-20	Raymond Terrace Waste Management Centre	XN92DJ	RT210005916.0	N/A	General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	Refer to DP Report 91667.02.R.003 + Building A Site Stockpile Photos WC 06.04.20	22.02	44.56	Intermixed grey / brown GWC with variable inclusions including concrete, brick, steel reinforcement, fibro fragments (bonded, in sound condition)
	Raymond Terrace Waste Management Centre	XN92DJ	RT210006001.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		22.54		
08-Apr-20	Raymond Terrace Waste Management Centre	XN92DJ	RT210006107.0	N/A	General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	Refer to DP Report 91667.02.R.003 + Building A Site Stockpile Photos WC 06.04.20	23.92	51.32	Intermixed grey / brown GWC with variable inclusions including concrete, brick, steel reinforcement, fibro fragments (bonded, in sound condition)
	Raymond Terrace Waste Management Centre	XN92DJ	RT210006199.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		27.4		
09-Apr-20	Raymond Terrace Waste Management Centre	XN92DJ	RT210006271.0	N/A	General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	Refer to DP Report 91667.02.R.003 + Building A Site Stockpile Photos WC 06.04.20	30.16	30.16	Intermixed grey / brown GWC with variable inclusions including concrete, brick, steel reinforcement, fibro fragments (bonded, in sound condition)
01-May-20	Raymond Terrace Waste Management Centre	CL46MC	RT210009576.0	40m³ & 30m³	General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	DP Email: 91667.02.R.003- 9 Church St, Newcastle-Nihon University-Stockpile D-Waste Classification Email and inspection dated 30 April 2020. 91667.03-9 Church St, Newcastle-Nihon University-Area E Email of 1 May 2020 (SW corner of site) (inspected on 30 April 2020)	21.98	92.74	Intermixed light grey/brown/orange brown gravelly silty sand with some clay filling with variable inclusions including concrete, brick, ash, metal, coal gravel, tile, tree roots, vegetation, glass, plastic, rubber hose, orange brown road base, and trace bonded fibre cement sheeting fragments.
	Raymond Terrace Waste Management Centre	XN92DJ	RT210009526.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		25.2		
	Raymond Terrace Waste Management Centre	XN92DJ	RT210009630.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		25.8		
	Raymond Terrace Waste Management Centre	CL46MC	RT210009659.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		19.76		
02-May-20	Raymond Terrace Waste Management Centre	XN92DJ	RT210009744.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	DP Email: 91667.02.R.003- 9 Church St, Newcastle-Nihon University-Stockpile D-Waste Classification Email dated 30 April 2020 (30 April 2020) 91667.03-9 Church St, Newcastle-Nihon University-Area E Email of 1 May 2020 (SW corner of site)(30 April 2020)	24.68	24.68	Intermixed grey/brow/orange brown gravelly silty sand with clay filling with various inclusions such as concrete, coal gravel, orange brown road base and trace bonded fibre cement sheeting fragments
06-May-20	Raymond Terrace Waste Management Centre	CL46MC	RT210010389.0	N/A	General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	Refer to DP Report 91667.02.R.003 + Building C Site Stockpile Photos WC 04.05.20	13.14	38.06	Intermixed grey/brow/orange brown gravelly silty sand with clay filling with various inclusions such as concrete, coal gravel, orange brown road base and trace bonded fibre cement sheeting fragments
	Raymond Terrace Waste Management Centre	CL46MC	RT210010457.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		11.78		
	Raymond Terrace Waste Management Centre	CL46MC	RT210010547.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		13.14		
07-May-20	Raymond Terrace Waste Management Centre	CL46MC	RT210010652.0	N/A	General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	Refer to DP Report 91667.02.R.003 + Building A Site Stockpile Photos WC 04.05.20	10.16	66.1	Intermixed grey/brow/orange brown gravelly silty sand with clay filling with various inclusions such as concrete, coal gravel, orange brown road base and trace bonded fibre cement sheeting fragments
	Raymond Terrace Waste Management Centre	CK80ZG	RT210010653.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		11		
	Raymond Terrace Waste Management Centre	CL46MC	RT210010701.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		10.02		
	Raymond Terrace Waste Management Centre	CK80ZG	RT210010707.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		11.48		
	Raymond Terrace Waste Management Centre	CL46MC	RT210010767.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		11.86		
	Raymond Terrace Waste Management Centre	CK80ZG	RT210010768.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		11.58		
08-May-20	Raymond Terrace Waste Management Centre	CL46MC	RT210010870.0	N/A	General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	Refer to DP Report 91667.02.R.003 + Building A Site Stockpile Photos WC 04.05.20	11.88	96.44	Intermixed grey/brow/orange brown gravelly silty sand with clay filling with various inclusions such as concrete, coal gravel, orange brown road base and trace bonded fibre cement sheeting fragments
	Raymond Terrace Waste Management Centre	BI45LV	RT210010871.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		11.4		
	Raymond Terrace Waste Management Centre	CK80ZG	RT210010862.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		10.92		
	Raymond Terrace Waste Management Centre	CL46MC	RT210010932.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		10.64		
	Raymond Terrace Waste Management Centre	BI45LV	RT210010913.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		11.98		
	Raymond Terrace Waste Management Centre	CK80ZG	RT210010905.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		12.06		
	Raymond Terrace Waste Management Centre	CK80ZG	RT210010993.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		9.78		
	Raymond Terrace Waste Management Centre	CL46MC	RT210010999.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		9.34		
	Raymond Terrace Waste Management Centre	BI45LV	RT210010991.0		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		8.44		

TABLE A2 - EXPORTED MATERIALS

9 Church Street, Newcastle

Source Site						Project No: 91667.03			
Date	Receiving Facility	Vehicle Rego	Docket No.	Volume (m³) classified in Letter Report	Material Classification/ Type	DP Report/Email Reference	Volume Exported Per Load (tonnes)	Total Volume Exported (tonnes)	Material Observations Description
11-May-20	Summerhill Waste Management Centre	CK80ZG	30170929-SH	N/A	General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	Refer to DP Report 91667.02.R.003 + Building A Site Stockpile Photos 11.05.20	10.72	81.08	Intermixed grey/brown/orange brown gravily silty sand with clay filling with various inclusions such as concrete, coal gravel, orange brown road base and trace bonded fibre cement sheeting fragments
	Summerhill Waste Management Centre	BI45LV	30170933-SH		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		10.5		
	Summerhill Waste Management Centre	CK80ZG	30171023-SH		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		10		
	Summerhill Waste Management Centre	BI45LV	30171027-SH		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		10.38		
	Summerhill Waste Management Centre	CK80ZG	30171139-SH		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		10.5		
	Summerhill Waste Management Centre	BI45LV	30171144-SH		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		7.8		
	Summerhill Waste Management Centre	CK80ZG	30171260-SH		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		10.98		
	Summerhill Waste Management Centre	BI45LV	30171232-SH		General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		10.2		
15-May-20	Summerhill Waste Management Centre	DLF409	30172685-SH	70m³	Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	91667.02.R.003-9 Church St, Newcastle-Nihon University-Area F Email dated 15 May 2020 (SE boundary of site)-in situ Waste Classification (Inspection 14 May 2020)	32.08	88.94	Surplus soil / fill from retaining wall piles
	Summerhill Waste Management Centre	MU1105	30172664-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		25.3		
	Summerhill Waste Management Centre	CTC006	30172625-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		31.56		
18-May-20	Summerhill Waste Management Centre	XN92DJ	30173785-SH	N/A	Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	Refer to DP Report 91667.02.R.003 + Building A Site Stockpile Photos WC 18.05.20	25.96	255.92	Surplus soil / fill from retaining wall piles Intermixed grey/brown/orange brown gravily silty sand with clay filling with various inclusions such as concrete, coal gravel, orange brown road base and trace bonded fibre cement sheeting fragments
	Summerhill Waste Management Centre	XN92DJ	30173866-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		30.8		
	Summerhill Waste Management Centre	XN92DJ	30173964-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		29.76		
	Summerhill Waste Management Centre	DLF409	30173838-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		34.58		
	Summerhill Waste Management Centre	MUL570	30173824-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		33.78		
	Summerhill Waste Management Centre	MUL570	30173901-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		35.02		
	Summerhill Waste Management Centre	DLF409	30173981-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		34.62		
	Summerhill Waste Management Centre	MUL570	30173995-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		31.4		
19-May-20	Summerhill Waste Management Centre	XN92DJ	30174114-SH	N/A	Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	Refer to DP Report 91667.02.R.003 + Building C Site Stockpile Photos WC 18.05.20	27.18	105.46	Surplus soil / fill from retaining wall piles Intermixed grey/brown/orange brown gravily silty sand with clay filling with various inclusions such as concrete, coal gravel, orange brown road base and trace bonded fibre cement sheeting fragments
	Summerhill Waste Management Centre	XN92DJ	30174227-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		27.66		
	Summerhill Waste Management Centre	XN92DJ	30174355-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		27.52		
	Summerhill Waste Management Centre	AH02SP	30174265-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		10.88		
	Summerhill Waste Management Centre	AH02SP	30174369-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		12.22		
	Summerhill Waste Management Centre	AH02SP	30174460-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		11.14		
21-May-20	Summerhill Waste Management Centre	AH02SP	30174924-SH	N/A	Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	Refer to DP Report 91667.02.R.003 + Building A Site Stockpile Photos WC 18.05.20	10.3	40.08	Surplus soil / fill from retaining wall piles Intermixed grey/brown/orange brown gravily silty sand with clay filling with various inclusions such as concrete, coal gravel, orange brown road base and trace bonded fibre cement sheeting fragments
	Summerhill Waste Management Centre	AH02SP	30174988-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		8.76		
	Summerhill Waste Management Centre	AH02SP	30175143-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		9.16		
	Summerhill Waste Management Centre	AH02SP	30175067-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		11.86		
22-May-20	Summerhill Waste Management Centre	AH02SP	30175176-SH	N/A	Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	Refer to DP Report 91667.02.R.003 + Building A Site Stockpile Photos WC 18.05.20	12.42	35.76	Surplus soil / fill from retaining wall piles Intermixed grey/brown/orange brown gravily silty sand with clay filling with various inclusions such as concrete, coal gravel, orange brown road base and trace bonded fibre cement sheeting fragments
	Summerhill Waste Management Centre	AH02SP	30175278-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		11.96		
	Summerhill Waste Management Centre	AH02SP	30175395-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		11.38		
26-May-20	Summerhill Waste Management Centre	AH02SP	30176423-SH	N/A	Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	Refer to DP Report 91667.02.R.003 + Building A Site Stockpile Photos WC 25.05.20	11.46	41.2	Soil with intermixed clay, concrete, bricks, clay tiles and trace bonded fibre cement sheeting fragments
	Summerhill Waste Management Centre	AH02SP	30176523-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		10.7		
	Summerhill Waste Management Centre	AH02SP	30176615-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		9.08		
	Summerhill Waste Management Centre	AH02SP	30176660-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		9.96		

TABLE A2 - EXPORTED MATERIALS

9 Church Street, Newcastle				Source Site		Project No: 91667.03			
Date	Receiving Facility	Vehicle Rego	Docket No.	Volume (m³) classified in Letter Report	Material Classification/ Type	DP Report/Email Reference	Volume Exported Per Load (tonnes)	Total Volume Exported (tonnes)	Material Observations
27-May-20	Summerhill Waste Management Centre	AH02SP	30176696-SH	N/A	Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	Refer to DP Report 91667.02.R.003 + Building A+C Site Stockpile Photos WC 25.05.20	10.86	38.98	Soil with intermixed clay, concrete, bricks, clay tiles and trace bonded fibre cement sheeting fragments
	Summerhill Waste Management Centre	AH02SP	30176786-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		9.82		
	Summerhill Waste Management Centre	AH02SP	30176859-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		10.08		
	Summerhill Waste Management Centre	AH02SP	30176965-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		8.22		
28-May-20	Summerhill Waste Management Centre	AH02SP	30177060-SH	N/A	Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	Refer to DP Report 91667.02.R.003 + Building A+C Site Stockpile Photos WC 25.05.20	10.98	99.14	Soil with intermixed clay, concrete, bricks, clay tiles and trace bonded fibre cement sheeting fragments
	Summerhill Waste Management Centre	XN78GR	30177057-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		14.52		
	Summerhill Waste Management Centre	XN78GR	30177121-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		11.3		
	Summerhill Waste Management Centre	AH02SP	30177140-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		10.62		
	Summerhill Waste Management Centre	XN78GR	30177213-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		14.7		
	Summerhill Waste Management Centre	AH02SP	30177265-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		10.7		
	Summerhill Waste Management Centre	XN78GR	30177329-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		12.4		
	Summerhill Waste Management Centre	XN78GR	30177406-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		13.92		
29-May-20	Summerhill Waste Management Centre	XN78GR	30177453-SH	N/A	Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	Refer to DP Report 91667.02.R.003 + Building A+C Site Stockpile Photos WC 25.05.20	12.44	187.7	Soil and clay intermixed with brick, clay tiles, concrete and trace bonded fibre cement sheeting fragments
	Summerhill Waste Management Centre	XN78GR	30177566-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		12.38		
	Summerhill Waste Management Centre	XN78GR	30177663-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		12.22		
	Summerhill Waste Management Centre	XN78GR	30177818-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		10.3		
	Summerhill Waste Management Centre	AH02SP	30177456-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		9.38		
	Summerhill Waste Management Centre	AH02SP	30177567-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		10.2		
	Summerhill Waste Management Centre	AH02SP	30177677-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		10.32		
	Summerhill Waste Management Centre	AH02SP	30177825-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		11.28		
	Summerhill Waste Management Centre	BX37WF	30177452-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		24.58		
	Summerhill Waste Management Centre	BX37WF	30177557-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		24.88		
	Summerhill Waste Management Centre	BX37WF	30177655-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		25.5		
	Summerhill Waste Management Centre	BX37WF	30177812-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		24.22		
30-May-20	Raymond Terrace Waste Management Centre	XN78GR	RT210014692.0	N/A	Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	Refer to DP Report 91667.02.R.003 + Building A+C Site Stockpile Photos WC 25.05.20	13.16	49.08	Soil and clay intermixed with brick, clay tiles, concrete and trace bonded fibre cement sheeting fragments
	Raymond Terrace Waste Management Centre	XN78GR	RT210014729.0		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		12.32		
	Raymond Terrace Waste Management Centre	BX37WF	RT210014730.0		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		23.6		

TABLE A2 - EXPORTED MATERIALS

9 Church Street, Newcastle						Project No: 91667.03			
Source Site						Material Observations			
Date	Receiving Facility	Vehicle Rego	Docket No.	Volume (m³) classified in Letter Report	Material Classification/ Type	DP Report/Email Reference	Volume Exported Per Load (tonnes)	Total Volume Exported (tonnes)	Description
01-Jun-20	Summerhill Waste Management Centre	XN78GR	30178571-SH	N/A	Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	Refer to DP Report 91667.02.R.003 + Building A+C Site Stockpile Photos WC 01.06.20	13.74	320.14	Intermixed Filling & Natural soils from excavation to Building A + Building C piling
	Summerhill Waste Management Centre	XN78GR	30178642-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		13.56		
	Summerhill Waste Management Centre	XN78GR	30178733-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		12.76		
	Summerhill Waste Management Centre	XN78GR	30178808-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		12.74		
	Summerhill Waste Management Centre	XN78GR	30178874-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		12.78		
	Summerhill Waste Management Centre	BX37WF	30178531-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		23.96		
	Summerhill Waste Management Centre	BX37WF	30178637-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		22.88		
	Summerhill Waste Management Centre	BX37WF	30178744-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		18.06		
	Summerhill Waste Management Centre	BX37WF	30178828-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		25.62		
	Summerhill Waste Management Centre	XN92DJ	30178551-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		30.36		
	Summerhill Waste Management Centre	XN92DJ	30178628-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		30.44		
	Summerhill Waste Management Centre	XN92DJ	30178711-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		29.68		
	Summerhill Waste Management Centre	XN92DJ	30178793-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		26.02		
	Summerhill Waste Management Centre	XN92DJ	30178866-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		25.72		
	Summerhill Waste Management Centre	XN55BA	30178820-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		21.82		
02-Jun-20	Summerhill Waste Management Centre	XN92DJ	30178895-SH	450m³	Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	91667.02.R.003-9 Church St, Newcastle-Nihon University-Area G Email dated 2 June 2020 (NW corner of site) (Inspection 2 June 2020)	25.5	337.6	Intermixed Filling & Natural soils from excavation to Building A
	Summerhill Waste Management Centre	XN92DJ	30178951-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		25.8		
	Summerhill Waste Management Centre	XN92DJ	30179044-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		26.12		
	Summerhill Waste Management Centre	XN92DJ	30179113-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		26.7		
	Summerhill Waste Management Centre	XN55BA	30178901-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		23.22		
	Summerhill Waste Management Centre	XN55BA	30178988-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		25.94		
	Summerhill Waste Management Centre	XN55BA	30179067-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		25.08		
	Summerhill Waste Management Centre	XN55BA	30179149-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		27.9		
	Summerhill Waste Management Centre	XN92DJ	30179198-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		26.14		
	Summerhill Waste Management Centre	BX37WF	30178903-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		25.42		
	Summerhill Waste Management Centre	BX37WF	30178984-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		24.54		
	Summerhill Waste Management Centre	BX37WF	30179065-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		29.7		
	Summerhill Waste Management Centre	BX37WF	30179142-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		25.54		

TABLE A2 - EXPORTED MATERIALS

9 Church Street, Newcastle				Source Site			Project No: 91667.03		
Date	Receiving Facility	Vehicle Rego	Docket No.	Volume (m³) classified in Letter Report	Material Classification/ Type	DP Report/Email Reference	Volume Exported Per Load (tonnes)	Total Volume Exported (tonnes)	Description
03-Jun-20	Summerhill Waste Management Centre	XN92DJ	30179312-SH	375m³	Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	91667.02.R.003-9Church St, Newcastle-Nihon University-Area G1 Email dated 9 June 2020 (NW corner of site)(Inspection on 3 June 2020)	27.4	295.84	Intermixed Filling & Natural soils from excavation to Building A
	Summerhill Waste Management Centre	XN92DJ	30179397-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		28.24		
	Summerhill Waste Management Centre	XN92DJ	30179478-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		27.48		
	Summerhill Waste Management Centre	XN92DJ	30179566-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		28.58		
	Summerhill Waste Management Centre	XN55BA	30179328-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		26.56		
	Summerhill Waste Management Centre	XN55BA	30179391-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		23.32		
	Summerhill Waste Management Centre	XN55BA	30179466-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		24.76		
	Summerhill Waste Management Centre	XN55BA	30179573-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		23.14		
	Summerhill Waste Management Centre	BX37WF	30179326-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		23.08		
	Summerhill Waste Management Centre	BX37WF	30179380-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		22.3		
	Summerhill Waste Management Centre	BX37WF	30179446-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		22.74		
	Summerhill Waste Management Centre	BX37WF	30179556-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		18.24		
04-Jun-20	Summerhill Waste Management Centre	XN92DJ	30179666-SH	N/A	Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	Refer to DP Report 91667.02.R.003 + Building A Site Stockpile Photos WC 01.06.20 + Area G Email dated 2 June 2020 (NW corner of site) (Inspection 2 June 2020) + Area G1 Email dated 9 June 2020 (NW corner of site)(Inspection on 3 June 2020)	28.94	402.28	Intermixed Filling & Natural soils from excavation to Building A
	Summerhill Waste Management Centre	XN92DJ	30179727-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		30.46		
	Summerhill Waste Management Centre	XN92DJ	30179803-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		30.18		
	Summerhill Waste Management Centre	XN92DJ	30179897-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		25.76		
	Summerhill Waste Management Centre	XN92DJ	30179976-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		25.34		
	Summerhill Waste Management Centre	XN55BA	30179662-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		27.22		
	Summerhill Waste Management Centre	XN55BA	30179724-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		28.44		
	Summerhill Waste Management Centre	XN55BA	30179780-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		26.32		
	Summerhill Waste Management Centre	XN55BA	30179867-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		23.72		
	Summerhill Waste Management Centre	XN55BA	30179961-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		26.84		
	Summerhill Waste Management Centre	BX37WF	30179645-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		24.36		
	Summerhill Waste Management Centre	BX37WF	30179712-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		25.24		
	Summerhill Waste Management Centre	BX37WF	30179767-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		28.54		
	Summerhill Waste Management Centre	BX37WF	30179859-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		27.06		
	Summerhill Waste Management Centre	BX37WF	30179971-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		23.86		
05-Jun-20	Summerhill Waste Management Centre	XN92DJ	30180025-SH	N/A	Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	Refer to DP Report 91667.02.R.003 + Building A Site Stockpile Photos WC 01.06.20 + Area G Email dated 2 June 2020 (NW corner of site) (Inspection 2 June 2020) + Area G1 Email dated 9 June 2020 (NW corner of site)(Inspection on 3 June 2020)	28.22	245.18	Intermixed Filling & Natural soils from excavation to Building A
	Summerhill Waste Management Centre	XN92DJ	30180098-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		30.46		
	Summerhill Waste Management Centre	XN92DJ	30180199-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		29.9		
	Summerhill Waste Management Centre	XN55BA	30180026-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		25.92		
	Summerhill Waste Management Centre	XN55BA	30180118-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		25.62		
	Summerhill Waste Management Centre	XN55BA	30180217-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		25.46		
	Summerhill Waste Management Centre	XN55BA	30180310-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		30.26		
	Summerhill Waste Management Centre	BX37WF	30180036-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		24.54		
	Summerhill Waste Management Centre	BX37WF	30180004-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		24.8		

TABLE A2 - EXPORTED MATERIALS

9 Church Street, Newcastle

Source Site						Project No: 91667.03			
Date	Receiving Facility	Vehicle Rego	Docket No.	Volume (m³) classified in Letter Report	Material Classification/ Type	DP Report/Email Reference	Volume Exported Per Load (tonnes)	Total Volume Exported (tonnes)	Material Observations
13-Jun-20	Raymond Terrace Waste Management Centre	XN40QN	RT210017374	N/A	Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	Refer to DP Report 91667.02.R.003 + Building A Site Stockpile Photos WC 08.06.21	26.76	327.14	Intermixed Filling & Natural soils from excavation to Building A
	Raymond Terrace Waste Management Centre	XN40QN	RT210017406		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		28.8		
	Raymond Terrace Waste Management Centre	XN40QN	RT210017443		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		30.1		
	Raymond Terrace Waste Management Centre	XN55BA	RT210017365		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		26.66		
	Raymond Terrace Waste Management Centre	XN55BA	RT210017447		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		29.82		
	Raymond Terrace Waste Management Centre	BX37WF	RT210017373		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		24.96		
	Raymond Terrace Waste Management Centre	BX37WF	RT210017400		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		23.58		
	Raymond Terrace Waste Management Centre	BX37WF	RT210017439		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		23.94		
	Raymond Terrace Waste Management Centre	CK75ZK	RT210017398		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		38.68		
	Raymond Terrace Waste Management Centre	CK75ZK	RT210017368		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		35.7		
	Raymond Terrace Waste Management Centre	CK75ZK	RT210017435		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		38.14		
15-Jun-20	Raymond Terrace Waste Management Centre	XN40QN	RT210017614	240m³	Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	91667.02.R.003 - 9 Church St, Newcastle-Nihon University-Area G2 & G3 (Western area of site) email dated 16 June 2020 (Inspection 15 June 2020)	27.58	318.76	Intermixed Filling & Natural soils from excavation to Building A
	Raymond Terrace Waste Management Centre	XN40QN	RT210017696		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		27.8		
	Raymond Terrace Waste Management Centre	XN40QN	RT210017572		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		27.96		
	Raymond Terrace Waste Management Centre	XN55BA	RT210017577		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		28.02		
	Raymond Terrace Waste Management Centre	XN55BA	RT210017658		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		26.46		
	Raymond Terrace Waste Management Centre	XN55BA	RT210017758		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		27.3		
	Raymond Terrace Waste Management Centre	BX37WF	RT210017655		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		20.72		
	Raymond Terrace Waste Management Centre	BX37WF	RT210017739		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		23.78		
	Raymond Terrace Waste Management Centre	CK75ZK	RT210017579		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		38.88		
	Raymond Terrace Waste Management Centre	CK75ZK	RT210017653		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		34.94		
	Raymond Terrace Waste Management Centre	CK75ZK	RT210017728		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		35.32		
16-Jun-20	Raymond Terrace Waste Management Centre	XN40QN	RT210017867	500m³	Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	91667.02.R.003 - 9 Church St, Newcastle-Nihon University-Area G2 & G3 Email dated 16 June 2020 (Western area of site)(Inspection on 15 June 2020)	28.38	417	Intermixed Filling & Natural soils from excavation to Building A
	Raymond Terrace Waste Management Centre	XN40QN	RT210017918		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		25.98		
	Raymond Terrace Waste Management Centre	XN40QN	RT210018032		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		22.3		
	Raymond Terrace Waste Management Centre	CJ91R	RT210017873		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		23.94		
	Raymond Terrace Waste Management Centre	BX37WF	RT210017925		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		26.64		
	Raymond Terrace Waste Management Centre	BX37WF	RT210018033		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		21.84		
	Raymond Terrace Waste Management Centre	XN55BA	RT210017878		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		26.46		
	Raymond Terrace Waste Management Centre	XN55BA	RT210017937		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		27.34		
	Raymond Terrace Waste Management Centre	XN55BA	RT210018049		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		25.92		
	Raymond Terrace Waste Management Centre	DLF409	RT210017887		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		41.14		
	Raymond Terrace Waste Management Centre	DLF409	RT210017960		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		31.86		
	Raymond Terrace Waste Management Centre	DLF409	RT210018053		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		35.02		
	Raymond Terrace Waste Management Centre	MU1105	RT210017907		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		27.28		
	Raymond Terrace Waste Management Centre	MU1105	RT210017980		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		21.8		
	Raymond Terrace Waste Management Centre	MU1105	RT210018066		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		31.1		

TABLE A2 - EXPORTED MATERIALS

9 Church Street, Newcastle				Source Site		Project No: 91667.03			
Date	Receiving Facility	Vehicle Rego	Docket No.	Volume (m³) classified in Letter Report	Material Classification/ Type	DP Report/Email Reference	Volume Exported Per Load (tonnes)	Total Volume Exported (tonnes)	Material Observations
17-Jun-20	Raymond Terrace Waste Management Centre	XN40QN	RT210018144	N/A	Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	Refer to DP Report 91667.02.R.003 -Area G2 & G3 Email dated 16 June 2020 (Western area of site)(Inspection on 15 June 2020) + Building A Site Stockpile Photos WC 15.06.20	27.04	427.12	Intermixed Filling & Natural soils from excavation to Building A
	Raymond Terrace Waste Management Centre	XN40QN	RT210018213		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		26.88		
	Raymond Terrace Waste Management Centre	XN40QN	RT210018284		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		27.62		
	Raymond Terrace Waste Management Centre	XN40QN	RT210018362		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		29.38		
	Raymond Terrace Waste Management Centre	BX37WF	RT210018234		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		25.34		
	Raymond Terrace Waste Management Centre	BX37WF	RT210018311		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		19.16		
	Raymond Terrace Waste Management Centre	XN55BA	RT210018155		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		26.44		
	Raymond Terrace Waste Management Centre	XN55BA	RT210018221		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		27.7		
	Raymond Terrace Waste Management Centre	XN55BA	RT210018318		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		28.56		
	Raymond Terrace Waste Management Centre	DLF409	RT210018147		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		31.32		
	Raymond Terrace Waste Management Centre	DLF409	RT210018217		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		33.58		
	Raymond Terrace Waste Management Centre	DLF409	RT210018304		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		33.02		
	Raymond Terrace Waste Management Centre	MU1105	RT210018151		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		28.18		
	Raymond Terrace Waste Management Centre	MU1105	RT210018280		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		31.18		
	Raymond Terrace Waste Management Centre	MU1105	RT210018358		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		31.72		
18-Jun-20	Raymond Terrace Waste Management Centre	XN40QN	RT210018419	N/A	Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	Refer to DP Report 91667.02.R.003 + Building C Site Stockpile Photos WC 15.06.20	28.9	485.04	Intermixed Filling & Natural soils from excavation to Building C
	Raymond Terrace Waste Management Centre	XN40QN	RT210018493		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		26.66		
	Raymond Terrace Waste Management Centre	XN40QN	RT210018545		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		32		
	Raymond Terrace Waste Management Centre	XN55BA	RT210018415		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		27.96		
	Raymond Terrace Waste Management Centre	XN55BA	RT210018495		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		27.86		
	Raymond Terrace Waste Management Centre	BX37WF	RT210018491		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		24.16		
	Raymond Terrace Waste Management Centre	BX37WF	RT210018556		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		22.5		
	Raymond Terrace Waste Management Centre	DLF409	RT210018427		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		32.18		
	Raymond Terrace Waste Management Centre	DLF409	RT210018501		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		34.78		
	Raymond Terrace Waste Management Centre	DLF409	RT210018603		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		39.04		
	Raymond Terrace Waste Management Centre	CTC006	RT210018430		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		30.22		
	Raymond Terrace Waste Management Centre	CTC006	RT210018505		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		31.6		
	Raymond Terrace Waste Management Centre	CTC006	RT210018604		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		39.28		
	Raymond Terrace Waste Management Centre	XN27KW	RT210018435		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		27.04		
	Raymond Terrace Waste Management Centre	XN27KW	RT210018512		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		31.76		
	Raymond Terrace Waste Management Centre	XN27KW	RT210018590		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		29.1		

TABLE A2 - EXPORTED MATERIALS

9 Church Street, Newcastle				Source Site		Project No: 91667.03			
Date	Receiving Facility	Vehicle Rego	Docket No.	Volume (m³) classified in Letter Report	Material Classification/ Type	DP Report/Email Reference	Volume Exported Per Load (tonnes)	Total Volume Exported (tonnes)	Material Observations Description
19-Jun-20	Raymond Terrace Waste Management Centre	XN40QN	RT210018677	N/A	Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	Refer to DP Report 91667.02.R.003 + Building A Site Stockpile Photos WC 15.06.20	27.14	589.02	Intermixed Filling & Natural soils from excavation to Building A
	Raymond Terrace Waste Management Centre	XN40QN	RT210018733		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		30.92		
	Raymond Terrace Waste Management Centre	XN40QN	RT210018792		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		27.84		
	Raymond Terrace Waste Management Centre	XN40QN	RT210018879		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		30.98		
	Raymond Terrace Waste Management Centre	CTC006	RT210018668		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		32.78		
	Raymond Terrace Waste Management Centre	CTC006	RT210018717		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		31.96		
	Raymond Terrace Waste Management Centre	CTC006	RT210018779		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		32.58		
	Raymond Terrace Waste Management Centre	CTC006	RT210018856		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		37.18		
	Raymond Terrace Waste Management Centre	DLF409	RT210018684		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		31.56		
	Raymond Terrace Waste Management Centre	DLF409	RT210018749		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		32.46		
	Raymond Terrace Waste Management Centre	DLF409	RT210018814		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		34.04		
	Raymond Terrace Waste Management Centre	XN55BA	RT210018679		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		27.64		
	Raymond Terrace Waste Management Centre	XN55BA	RT210018740		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		29.74		
	Raymond Terrace Waste Management Centre	XN55BA	RT210018799		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		27.66		
	Raymond Terrace Waste Management Centre	BX37WF	RT210018683		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		25.54		
	Raymond Terrace Waste Management Centre	BX37WF	RT210018745		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		22.08		
	Raymond Terrace Waste Management Centre	BX37WF	RT210018802		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		28.08		
	Raymond Terrace Waste Management Centre	XN27KW	RT210018678		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		26.18		
	Raymond Terrace Waste Management Centre	XN27KW	RT210018746		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		27.68		
	Raymond Terrace Waste Management Centre	XN27KW	RT210018811		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		24.98		
22-Jun-20	Raymond Terrace Waste Management Centre	XN40QN	RT210019021	195m3 & 265m3	Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	Refer to DP Report 91667.02.R.003-Area H1 & H2 (rear of Building 8) dated 23 June 2020 (Inspection 22 June 2020) + Building A/B/C Site Stockpile Photos WC 22.06.20	26.82	111.84	Intermixed filling brown silty sand, gravelly silty sand, sandy gravel filling with variable inclusions including concrete, brick, ash, tile, plastic, coal gravel, slag, terracotta pipe, geofabric, glass, asphalt, and trace ACM fragments. Natural soils light grey/brown, orange, dark brown sand/silty sand, orange brown clayey sand, sandy clay.
	Raymond Terrace Waste Management Centre	XN40QN	RT210019084		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		26.92		
	Raymond Terrace Waste Management Centre	XN40QN	RT210019141		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		26.7		
	Raymond Terrace Waste Management Centre	XN40QN	RT210019187		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		31.4		

TABLE A2 - EXPORTED MATERIALS

9 Church Street, Newcastle

Source Site						Project No: 91667.03			
Date	Receiving Facility	Vehicle Rego	Docket No.	Volume (m ³) classified in Letter Report	Material Classification/ Type	DP Report/Email Reference	Volume Exported Per Load (tonnes)	Total Volume Exported (tonnes)	Material Observations Description
23-Jun-20	Summerhill Waste Management Centre	XN55BA	30185852-SH	195m3 & 265m3	Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	Refer to DP Report 91667.02.R.003-Area H1 & H2 (rear of Building B) dated 23 June 2020 (Inspection 22 June 2020) + Building A/B/C Site Stockpile Photos WC 22.06.20	11.06	215.1	Intermixed filling brown silty sand, gravelly silty sand, sandy gravel filling with variable inclusions including concrete, brick, ash, tile, plastic, coal gravel, slag, terracotta pipe, geofabric, glass, asphalt, and trace ACM fragments. Natural soils light grey/brown, orange, dark brown sand/silty sand, orange brown clayey sand, sandy clay.
	Summerhill Waste Management Centre	XN55BA	30185936-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		10.82		
	Summerhill Waste Management Centre	XN55BA	30186036-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		11.42		
	Summerhill Waste Management Centre	XN55BA	30186113-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		8.72		
	Summerhill Waste Management Centre	XN55BA	30186177-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		11.42		
	Summerhill Waste Management Centre	XN27KW	30185842-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		9.76		
	Summerhill Waste Management Centre	XN27KW	30185900-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		10.72		
	Summerhill Waste Management Centre	XN27KW	30185976-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		12.16		
	Summerhill Waste Management Centre	XN27KW	30186084-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		10.46		
	Summerhill Waste Management Centre	XN27KW	30186139-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		7.24		
	Summerhill Waste Management Centre	AH02SP	30185832-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		9		
	Summerhill Waste Management Centre	AH02SP	30185895-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		10.06		
	Summerhill Waste Management Centre	AH02SP	30185983-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		12.8		
	Summerhill Waste Management Centre	AH02SP	30186090-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		10.38		
	Summerhill Waste Management Centre	AH02SP	30186189-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		12.04		
	Summerhill Waste Management Centre	BS82YR	30185837-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		10.14		
	Summerhill Waste Management Centre	BS82YR	30185916-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		10.34		
	Summerhill Waste Management Centre	BS82YR	30185997-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		12.64		
	Summerhill Waste Management Centre	BS82YR	30186107-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		12.3		
	Summerhill Waste Management Centre	BS82YR	30186171-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		11.62		
24-Jun-20	Summerhill Waste Management Centre	XN40QN	30186256-SH	195m3 & 265m3	Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	Refer to DP Report 91667.02.R.003-Area H1 & H2 (rear of Building B) dated 23 June 2020 (Inspection 22 June 2020) + Building A/B/C Site Stockpile Photos WC 22.06.20	11.62	60.56	Intermixed filling brown silty sand, gravelly silty sand, sandy gravel filling with variable inclusions including concrete, brick, ash, tile, plastic, coal gravel, slag, terracotta pipe, geofabric, glass, asphalt, and trace ACM fragments. Natural soils light grey/brown, orange, dark brown sand/silty sand, orange brown clayey sand, sandy clay.
	Raymond Terrace Waste Management Centre	XN40QN	RT210019637		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		12.38		
	Summerhill Waste Management Centre	XN55BA	30186242-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		11.2		
	Summerhill Waste Management Centre	XN55BA	30186308-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		14.24		
	Summerhill Waste Management Centre	XN55BA	30186378-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		11.12		
25-Jun-20	Summerhill Waste Management Centre	AH02SP	30186618-SH	195m3 & 265m3	Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	Refer to DP Report 91667.02.R.003-Area H1 & H2 (rear of Building B) dated 23 June 2020 (Inspection 22 June 2020) + Building A/B/C Site Stockpile Photos WC 22.06.20	9.38	42.4	Intermixed filling brown silty sand, gravelly silty sand, sandy gravel filling with variable inclusions including concrete, brick, ash, tile, plastic, coal gravel, slag, terracotta pipe, geofabric, glass, asphalt, and trace ACM fragments. Natural soils light grey/brown, orange, dark brown sand/silty sand, orange brown clayey sand, sandy clay.
	Summerhill Waste Management Centre	AH02SP	30186694-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		11.02		
	Summerhill Waste Management Centre	AH02SP	30186762-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		11.06		
	Summerhill Waste Management Centre	AH02SP	30186900-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		10.94		

TABLE A2 - EXPORTED MATERIALS

9 Church Street, Newcastle

Source Site					Project No: 91667.03				
Date	Receiving Facility	Vehicle Rego	Docket No.	Volume (m ³) classified in Letter Report	Material Classification/ Type	DP Report/Email Reference	Volume Exported Per Load (tonnes)	Total Volume Exported (tonnes)	Material Observations Description
29-Jun-20	Summerhill Waste Management Centre	XN4QON	30188076-SH	N/A	Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	Refer to DP Report 91667.02.R.003 + Building A+C Site Stockpile Photos WC 29.06.20	24.1	231.04	Intermixed filling & natural soils from excavation for water tanks Intermixed filling and natural soils with concrete & brick from Building A excavations
	Summerhill Waste Management Centre	XN4QON	30188175-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		30.24		
	Summerhill Waste Management Centre	XN4QON	30188261-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		30.34		
	Summerhill Waste Management Centre	XN4QON	30188359-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		11.2		
	Summerhill Waste Management Centre	XN27KW	30188100-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		7.92		
	Summerhill Waste Management Centre	CK75ZK	30188295-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		12.06		
	Summerhill Waste Management Centre	XN27KW	30188187-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		10.88		
	Summerhill Waste Management Centre	XN27KW	30188272-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		10.52		
	Summerhill Waste Management Centre	XN27KW	30188333-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		12.2		
	Summerhill Waste Management Centre	XN82EF	30188095-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		9.36		
	Summerhill Waste Management Centre	XN82EF	30188201-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		9.48		
	Summerhill Waste Management Centre	XN82EF	30188281-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		9.6		
	Summerhill Waste Management Centre	XN82EF	30188355-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		9.72		
	Summerhill Waste Management Centre	CK75ZK	30188070-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		11.16		
	Summerhill Waste Management Centre	CK75ZK	30188147-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		11.32		
	Summerhill Waste Management Centre	CK75ZK	30188231-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		11.08		
	Summerhill Waste Management Centre	CK75ZK	30188356-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		9.86		
30-Jun-20	Summerhill Waste Management Centre	XN92DJ	30188396-SH	N/A	Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	Refer to DP Report 91667.02.R.003 + Building C Site Stockpile Photos WC 29.06.20	10.16	65.56	Intermixed filling & natural soils from excavation for water tanks
	Summerhill Waste Management Centre	XN92DJ	30188456-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		10.42		
	Summerhill Waste Management Centre	XN92DJ	30188520-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		11.4		
	Summerhill Waste Management Centre	XN92DJ	30188596-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		11.32		
	Summerhill Waste Management Centre	XN92DJ	30188676-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		11.54		
	Summerhill Waste Management Centre	XN92DJ	30188731-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		10.72		
01-Jul-20	Summerhill Waste Management Centre	AH02SP	30188832-SH	N/A	Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	Refer to DP Report 91667.02.R.003 + Building C Site Stockpile Photos WC 29.06.20/01.07.20	10.06	205.56	Intermixed Filling & Natural soils and clay , bricks and concrete from excavation to Building C
	Summerhill Waste Management Centre	AH02SP	30188926-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		9.8		
	Summerhill Waste Management Centre	AH02SP	30189057-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		10.84		
	Summerhill Waste Management Centre	AH02SP	30189118-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		10.46		
	Summerhill Waste Management Centre	CN04TI	30188833-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		9.8		
	Summerhill Waste Management Centre	CN04TI	30188927-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		10.38		
	Summerhill Waste Management Centre	CN04TI	30189040-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		11.88		
	Summerhill Waste Management Centre	CL46MC	30188830-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		22.92		
	Summerhill Waste Management Centre	XN55BA	30188811-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		27.08		
	Summerhill Waste Management Centre	XN58BA	30188889-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		26.82		
	Summerhill Waste Management Centre	XN55BA	30188988-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		28.04		
	Summerhill Waste Management Centre	XN55BA	30189089-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		27.48		

TABLE A2 - EXPORTED MATERIALS

9 Church Street, Newcastle

Source Site						Project No: 91667.03			
Date	Receiving Facility	Vehicle Rego	Docket No.	Volume (m ³) classified in Letter Report	Material Classification/ Type	DP Report/Email Reference	Volume Exported Per Load (tonnes)	Total Volume Exported (tonnes)	Material Observations Description
02-Jul-20	Summerhill Waste Management Centre	AH02SP	30189203-SH	N/A	Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	Refer to DP Report 91667.02.R.003 + Building C Site Stockpile Photos WC 29.06.20/01.07.20	9.8	178.02	Intermixed Filling & Natural soils and clay, bricks and concrete from excavation to Building C
	Summerhill Waste Management Centre	AH02SP	30189288-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		10.2		
	Summerhill Waste Management Centre	AH02SP	30189391-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		11.54		
	Summerhill Waste Management Centre	AH02SP	30189510-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		11.92		
	Summerhill Waste Management Centre	CN04T1	30189200-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		10.24		
	Summerhill Waste Management Centre	CN04T1	30189298-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		10.74		
	Summerhill Waste Management Centre	CN04T1	30189402-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		8.72		
	Summerhill Waste Management Centre	CN04T1	30189507-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		9.96		
	Summerhill Waste Management Centre	XN55BA	30189187-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		27.28		
	Summerhill Waste Management Centre	XN55BA	30189448-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		25.68		
	Summerhill Waste Management Centre	CL46MC	30189339-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		17.1		
	Summerhill Waste Management Centre	CL46MC	30189491-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		24.84		
03-Jul-20	Summerhill Waste Management Centre	AH02SP	30189556-SH	N/A	Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	Refer to DP Report 91667.02.R.003 + Building C Site Stockpile Photos WC 29.06.20/01.07.20	8.92	60.8	Intermixed Filling & Natural soils and clay, bricks and concrete from excavation to Building C
	Summerhill Waste Management Centre	AH02SP	30189677-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		10.02		
	Summerhill Waste Management Centre	AH02SP	30189762-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		11.06		
	Summerhill Waste Management Centre	AH02SP	30189855-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		8.74		
	Summerhill Waste Management Centre	CL46MC	30189562-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		11.16		
	Summerhill Waste Management Centre	CL46MC	30189704-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		10.9		
07-Jul-20	Summerhill Waste Management Centre	XN82EF	30190926-SH	N/A	Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	Refer to DP Report 91667.02.R.003 + Building A & C Site Stockpile Photos WC 6.07.20	10.36	112.5	Intermixed Filling & Natural soils and clay, bricks and concrete from excavation to Building A & C
	Summerhill Waste Management Centre	XN82EF	30190981-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		10.82		
	Summerhill Waste Management Centre	XN82EF	30191045-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		10.82		
	Summerhill Waste Management Centre	XN82EF	30191109-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		9.48		
	Summerhill Waste Management Centre	XN82EF	30191187-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		10.4		
	Summerhill Waste Management Centre	BS82YR	30190936-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		12.08		
	Summerhill Waste Management Centre	BS82YR	30191000-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		12.52		
	Summerhill Waste Management Centre	BS82YR	30191072-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		11.24		
	Summerhill Waste Management Centre	BS82YR	30191151-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		14.82		
	Summerhill Waste Management Centre	BS82YR	30191215-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		9.96		
08-Jul-20	Summerhill Waste Management Centre	XN82EF	30191303-SH	N/A	Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	Refer to DP Report 91667.02.R.003 + Building A & C Site Stockpile Photos WC 6.07.20	10.12	62.28	Intermixed Filling & Natural soils and clay, bricks and concrete from excavation to Building A & C
	Summerhill Waste Management Centre	XN82EF	30191391-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		10.36		
	Summerhill Waste Management Centre	XN82EF	30191459-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		11.56		
	Summerhill Waste Management Centre	BS82YR	30191314-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		8.22		
	Summerhill Waste Management Centre	BS82YR	30191396-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		11.82		
	Summerhill Waste Management Centre	BS82YR	30191480-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		10.2		
16-Jul-20	Raymond Terrace Waste Management Centre	XN27KW	RT210024054	N/A	Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	Refer to DP Report 91667.02.R.003 + Building A+C Site Stockpile Photos WC 13.07.20	23.52	54.98	Intermixed Filling & Natural soils and clay, bricks and concrete from excavation to Building A & C
	Raymond Terrace Waste Management Centre	XN27KW	RT210024136		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		26.96		
	Raymond Terrace Waste Management Centre	XN82EF	RT210024212		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		4.5		

TABLE A2 - EXPORTED MATERIALS

9 Church Street, Newcastle						Project No: 91667.03			
Source Site						Material Observations			
Date	Receiving Facility	Vehicle Rego	Docket No.	Volume (m ³) classified in Letter Report	Material Classification/ Type	DP Report/Email Reference	Volume Exported Per Load (tonnes)	Total Volume Exported (tonnes)	Description
17-Jul-20	Summerhill Waste Management Centre	XN65IB	30194412-SH	N/A	Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	Refer to DP Report 91667.02.R.003 + Building A Site Stockpile Photos WC 13.07.20	0.44	30.8	Intermixed Filling & Natural soils and clay, bricks and concrete from excavation to Building A
	Summerhill Waste Management Centre	XN82EF	30194265-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		9.86		
	Summerhill Waste Management Centre	XN82EF	30194314-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		11.58		
	Summerhill Waste Management Centre	XN82EF	30194405-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		8.92		
22-Jul-20	Summerhill Waste Management Centre	CL46MC	30195951-SH	N/A	Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	Refer to DP Report 91667.02.R.003 + Building C Site Stockpile Photos WC 20.07.20	10.2	40.92	Intermixed Filling & Natural soils and clay, bricks and concrete from excavation to Building C
	Summerhill Waste Management Centre	CL46MC	30196017-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		8.32		
	Summerhill Waste Management Centre	CL46MC	30196109-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		11.22		
	Summerhill Waste Management Centre	CL46MC	30196190-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		11.18		
23-Jul-20	Summerhill Waste Management Centre	XN82EF	30196788-SH	N/A	Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	Refer to DP Report 91667.02.R.003 + Building C Site Stockpile Photos WC 20.07.20	10.7	91.84	Intermixed Filling & Natural soils and clay, bricks and concrete from excavation to Building C
	Summerhill Waste Management Centre	XN82EF	30196366-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		7.98		
	Summerhill Waste Management Centre	XN82EF	30196443-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		10.84		
	Summerhill Waste Management Centre	XN82EF	30196541-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		9.96		
	Summerhill Waste Management Centre	XN82EF	30196621-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		11.06		
	Summerhill Waste Management Centre	AH02SP	30196293-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		10.82		
	Summerhill Waste Management Centre	AH02SP	30196379-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		10.26		
	Summerhill Waste Management Centre	AH02SP	30196486-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		10.24		
	Summerhill Waste Management Centre	AH02SP	30196617-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		9.98		
	Summerhill Waste Management Centre	AH02SP	30196683-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		10.5		
24-Jul-20	Summerhill Waste Management Centre	XN82EF	30196685-SH	N/A	Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	Refer to DP Report 91667.02.R.003 + Building C Site Stockpile Photos WC 20.07.20	10.1	40.44	Intermixed Filling & Natural soils and clay, bricks and concrete from excavation to Building C
	Summerhill Waste Management Centre	AH02SP	30196808-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		10.66		
	Summerhill Waste Management Centre	XN82EF	30196818-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		9.18		
	Summerhill Waste Management Centre	XN82EF	30196818-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		9.18		
30-Jul-20	Raymond Terrace Waste Management Centre	CL46MC	RT210026693	N/A	Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	Refer to DP Report 91667.02.R.003 + Building A Site Stockpile Photos WC 27.07.20	28.48	135.56	Intermixed Filling & Natural soils and clay, bricks and concrete from excavation to Building A
	Raymond Terrace Waste Management Centre	CL46MC	RT210026760		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		17		
	Raymond Terrace Waste Management Centre	XN27KW	RT210026688		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		30.88		
	Raymond Terrace Waste Management Centre	XN27KW	RT210026736		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		29.4		
	Raymond Terrace Waste Management Centre	XN27KW	RT210026808		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		29.8		
31-Jul-20	Raymond Terrace Waste Management Centre	XN92DJ	RT210026932	N/A	Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	Refer to DP Report 91667.02.R.003 + Building A Site Stockpile Photos WC 27.07.20 (Refer to stockpile photos 30-31.08.20)	23.2	143.96	Intermixed Filling & Natural soils and clay, bricks and concrete from excavation to Building A
	Raymond Terrace Waste Management Centre	XN92DJ	RT210027008		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		26.46		
	Raymond Terrace Waste Management Centre	XN92DJ	RT210027084		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		24.68		
	Raymond Terrace Waste Management Centre	XN27KW	RT210026927		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		27.76		
	Raymond Terrace Waste Management Centre	XN27KW	RT210027036		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		23.26		
	Raymond Terrace Waste Management Centre	XN27KW	RT210027110		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		18.6		
01-Aug-20	Raymond Terrace Waste Management Centre	XN92DJ	RT210027152	N/A	Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	Refer to DP Report 91667.02.R.003 + Building A Site Stockpile Photos WC 27.07.20 (Refer to stockpile photos 30-31.08.20)	24.8	159.32	Intermixed Filling & Natural soils and clay, bricks and concrete from excavation to Building A
	Raymond Terrace Waste Management Centre	XN92DJ	RT210027198		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		23.64		
	Raymond Terrace Waste Management Centre	XN92DJ	RT210027233		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		28.4		
	Raymond Terrace Waste Management Centre	XN27KW	RT210027166		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		25.88		
	Raymond Terrace Waste Management Centre	XN27KW	RT210027200		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		26.24		
	Raymond Terrace Waste Management Centre	XN27KW	RT210027242		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		30.36		

TABLE A2 - EXPORTED MATERIALS

9 Church Street, Newcastle

Source Site				Project No: 91667.03					
Date	Receiving Facility	Vehicle Rego	Docket No.	Volume (m ³) classified in Letter Report	Material Classification/ Type	DP Report/Email Reference	Volume Exported Per Load (tonnes)	Total Volume Exported (tonnes)	Material Observations Description
03-Aug-20	Raymond Terrace Waste Management Centre	XN92DJ	RT210027313	N/A	Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	Refer to DP Report 91667.02.R.003 + Building A Site Stockpile Photos WC 03.08.20	25.78	102.16	Intermixed Filling & Natural soils and clay , bricks and concrete from excavation to Building A
	Raymond Terrace Waste Management Centre	XN92DJ	RT210027347		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		27.32		
	Raymond Terrace Waste Management Centre	XN92DJ	RT210027398		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		23.8		
	Raymond Terrace Waste Management Centre	XN92DJ	RT210027477		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		25.26		
05-Aug-20	Raymond Terrace Waste Management Centre	XN92DJ	RT210027809	N/A	Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	Refer to DP Report 91667.02.R.003 + Building A Site Stockpile Photos WC 03.08.20	23.68	100.22	Intermixed Filling & Natural soils and clay , bricks and concrete from excavation to Building A
	Raymond Terrace Waste Management Centre	XN92DJ	RT210027894		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		27.96		
	Raymond Terrace Waste Management Centre	XN92DJ	RT210027967		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		28.12		
	Raymond Terrace Waste Management Centre	XN92DJ	RT210028061		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		20.46		
06-Aug-20	Summerhill Waste Management Centre	XN40QN	30200703-SH	N/A	Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	Refer to DP Report 91667.02.R.003 + Building A Site Stockpile Photos WC 03.08.20	26.28	137.38	Intermixed Filling & Natural soils and clay , bricks and concrete from excavation to Building A
	Summerhill Waste Management Centre	XN40QN	30200774-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		23.98		
	Summerhill Waste Management Centre	XN40QN	30200853-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		13.58		
	Summerhill Waste Management Centre	XN92DJ	30200768-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		23.08		
	Summerhill Waste Management Centre	XN92DJ	30200847-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		12.84		
	Summerhill Waste Management Centre	XN92DJ	30200939-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		16.1		
	Summerhill Waste Management Centre	XN92DJ	30200700-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		21.52		
12-Aug-20	Summerhill Waste Management Centre	XN40QN	30202802-SH	N/A	Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	Refer to DP Report 91667.02.R.003 + Building A Site Stockpile Photos WC 10.08.20	10.32	46.68	Intermixed Filling & Natural soils and clay , bricks and concrete from excavation to Building C
	Summerhill Waste Management Centre	XN40QN	30202711-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		11.58		
	Summerhill Waste Management Centre	XN40QN	30202629-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		14.06		
	Summerhill Waste Management Centre	XN40QN	30202538-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		10.72		
13-Aug-20	Summerhill Waste Management Centre	XN40QN	30202877-SH	N/A	Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	Refer to DP Report 91667.02.R.003 + Building A Site Stockpile Photos WC 10.08.20	10.84	144.32	Intermixed Filling & Natural soils and clay , bricks and concrete from excavation to Building A
	Summerhill Waste Management Centre	XN40QN	30202932-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		10.12		
	Summerhill Waste Management Centre	XN40QN	30203014-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		9.72		
	Summerhill Waste Management Centre	XN40QN	30203101-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		10.16		
	Summerhill Waste Management Centre	XN40QN	30203205-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		11.62		
	Summerhill Waste Management Centre	XN92DJ	30203019-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		10.86		
	Summerhill Waste Management Centre	XN92DJ	30203106-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		10.68		
	Summerhill Waste Management Centre	XN92DJ	30203191-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		12.32		
	Summerhill Waste Management Centre	XN27KW	30202889-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		10.88		
	Summerhill Waste Management Centre	XN27KW	30202975-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		9.78		
	Summerhill Waste Management Centre	XN27KW	30203084-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		12.08		
	Summerhill Waste Management Centre	XN27KW	30203160-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		9.92		
	Summerhill Waste Management Centre	XN27KW	30203218-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		15.34		

TABLE A2 - EXPORTED MATERIALS

9 Church Street, Newcastle

Source Site				Project No: 91667.03					
Date	Receiving Facility	Vehicle Rego	Docket No.	Volume (m³) classified in Letter Report	Material Classification/ Type	DP Report/Email Reference	Volume Exported Per Load (tonnes)	Total Volume Exported (tonnes)	Description
14-Aug-20	Summerhill Waste Management Centre	XN40QN	30203249-SH	N/A	Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	Refer to DP Report 91667.02.R.003 + Building A Site Stockpile Photos WC 10.08.20 (Refer to Stock Pile Photos 13.08.20)	9.36	95.44	Intermixed Filling & Natural soils and clay, bricks and concrete from excavation to Building A
	Summerhill Waste Management Centre	XN40QN	30203303-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		8.96		
	Summerhill Waste Management Centre	XN40QN	30203411-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		10.6		
	Summerhill Waste Management Centre	XN40QN	30203504-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		12.08		
	Summerhill Waste Management Centre	XN40QN	30203584-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		9.92		
	Summerhill Waste Management Centre	XN92DJ	30203256-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		7.14		
	Summerhill Waste Management Centre	XN92DJ	30203316-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		8.78		
	Summerhill Waste Management Centre	XN92DJ	30203439-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		8.94		
	Summerhill Waste Management Centre	XN92DJ	30203516-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		10.98		
	Summerhill Waste Management Centre	XN92DJ	30203586-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		8.68		
17-Aug-20	Summerhill Waste Management Centre	CL46MC	30204251-SH	N/A	Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	Refer to DP Report 91667.02.R.003 + Building A Site Stockpile Photos WC 17.08.20	10.12	115.92	Intermixed natural soils and clay with traces of concrete and brick excavated from Building A
	Summerhill Waste Management Centre	CL46MC	30204301-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		11.36		
	Summerhill Waste Management Centre	CL46MC	30204381-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		11.58		
	Summerhill Waste Management Centre	CL46MC	30204479-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		10.88		
	Summerhill Waste Management Centre	CL46MC	30204580-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		11.3		
	Summerhill Waste Management Centre	XN40QN	30204258-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		10.58		
	Summerhill Waste Management Centre	XN40QN	30204323-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		12.74		
	Summerhill Waste Management Centre	XN40QN	30204407-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		12.7		
	Summerhill Waste Management Centre	XN40QN	30204495-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		12.2		
	Summerhill Waste Management Centre	XN40QN	30204583-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		12.46		
	Summerhill Waste Management Centre	CL46MC	30204679-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		9.48		
18-Aug-20	Summerhill Waste Management Centre	CL46MC	30204756-SH	N/A	Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	Refer to DP Report 91667.02.R.003 + Building A Site Stockpile Photos WC 17.08.20	10.02	54.66	Intermixed natural soils and clay with traces of concrete and brick excavated from Building A
	Summerhill Waste Management Centre	CL46MC	30204847-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		11.06		
	Summerhill Waste Management Centre	CL46MC	30204944-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		11.8		
	Summerhill Waste Management Centre	CL46MC	30205029-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		12.3		
	Summerhill Waste Management Centre	CL46MC	30205865-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		11.16		
19-Aug-20	Summerhill Waste Management Centre	CL46MC	30205950-SH	N/A	Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	Refer to DP Report 91667.02.R.003 + Building A Site Stockpile Photos WC 17.08.20	10.74	49.28	Intermixed natural soils and clay with traces of concrete and brick excavated from Building A
	Summerhill Waste Management Centre	CL46MC	30206071-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		11.44		
	Summerhill Waste Management Centre	CL46MC	30206131-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		15.94		
	Summerhill Waste Management Centre	CL46MC	30207258-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		11.44		
25-Aug-20	Summerhill Waste Management Centre	CL46MC	30207353-SH	N/A	Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	Refer to DP Report 91667.02.R.003 + Building A Site Stockpile Photos WC 17.08.20	10.18	41.44	Intermixed soils and clay excavated from Building A
	Summerhill Waste Management Centre	CL46MC	30207442-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		8.46		
	Summerhill Waste Management Centre	CL46MC	30207514-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		11.36		
	Summerhill Waste Management Centre	CL46MC	30207838-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		8		
26-Aug-20	Summerhill Waste Management Centre	AH02SP	30207932-SH	N/A	Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	Refer to DP Report 91667.02.R.003 + Building A Site Stockpile Photos WC 17.08.20 (Refer to stockpile photos 25.08.20)	6.4	14.4	Intermixed soils and clay excavated from Building A
	Summerhill Waste Management Centre	AH02SP	30207932-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		6.4		

TABLE A2 - EXPORTED MATERIALS

9 Church Street, Newcastle

Source Site						Project No: 91667.03			
Date	Receiving Facility	Vehicle Rego	Docket No.	Volume (m ³) classified in Letter Report	Material Classification/ Type	DP Report/Email Reference	Volume Exported Per Load (tonnes)	Total Volume Exported (tonnes)	Material Observations Description
01-Sep-20	Summerhill Waste Management Centre	CL46MC	30209901-SH	N/A	Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	Refer to DP Report 91667.02.R.003 + Building A Site Stockpile Photos WC 1.09.20	8.48	53.1	Intermixed soils and clay excavated from Building A
	Summerhill Waste Management Centre	CL46MC	30209989-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		10.64		
	Summerhill Waste Management Centre	CL46MC	30210089-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		9.52		
	Summerhill Waste Management Centre	BS82YR	30209877-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		7.46		
	Summerhill Waste Management Centre	BS82YR	30209944-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		8.06		
	Summerhill Waste Management Centre	BS82YR	30210036-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		8.94		
02-Sep-20	Summerhill Waste Management Centre	CL46MC	30210356-SH	N/A	Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	Refer to DP Report 91667.02.R.003 + Building A Site Stockpile Photos WC 1.09.20	11.58	49.14	Intermixed soils and clay excavated from Building A
	Summerhill Waste Management Centre	CL46MC	30210460-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		11.18		
	Summerhill Waste Management Centre	CL46MC	30210589-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		6.64		
	Summerhill Waste Management Centre	BI45LV	30210459-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		11.14		
	Summerhill Waste Management Centre	BI45LV	30210560-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		8.6		
17-Sep-20	Summerhill Waste Management Centre	BI45LV	30215907-SH	N/A	Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	Refer to DP Report 91667.02.R.003 + Building A Site Stockpile Photos WC 14.09.20	10.96	49.9	Intermixed soils and clay excavated from Building A + B
	Summerhill Waste Management Centre	BI45LV	30215983-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		13.2		
	Summerhill Waste Management Centre	BI45LV	30216068-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		12.76		
	Summerhill Waste Management Centre	BI45LV	30216156-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		12.98		
18-Sep-20	Summerhill Waste Management Centre	BI45LV	30216496-SH	N/A	Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	Refer to DP Report 91667.02.R.003 + Building A Site Stockpile Photos WC 14.09.20	10.68	21.98	Intermixed soils and clay excavated from Building A + B
	Summerhill Waste Management Centre	BI45LV	30216570-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		11.3		
23-Sep-20	Summerhill Waste Management Centre	XN27KW	30217947-SH	N/A	Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	Refer to DP Report 91667.02.R.003 + Building B Site Stockpile Photos WC 21.09.20	9.94	70.52	Intermixed soils and clay excavated from Building B
	Summerhill Waste Management Centre	XN27KW	30218029-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		9.48		
	Summerhill Waste Management Centre	XN27KW	30218128-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		8.62		
	Summerhill Waste Management Centre	BI45LV	30217944-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		11.94		
	Summerhill Waste Management Centre	BI45LV	30218005-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		10.58		
	Summerhill Waste Management Centre	BI45LV	30218085-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		7.88		
	Summerhill Waste Management Centre	BI45LV	30218269-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		12.08		
	Summerhill Waste Management Centre	BI45LV	30218427-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		13.04		
24-Sep-20	Summerhill Waste Management Centre	BI45LV	30218495-SH	N/A	Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	Refer to DP Report 91667.02.R.003 + Building B Site Stockpile Photos WC 21.09.20	10.54	31.76	Intermixed soils and clay excavated from Building B
	Summerhill Waste Management Centre	BI45LV	30218650-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		8.18		
	Summerhill Waste Management Centre	BI45LV	30220204-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		14.46		
29-Sep-20	Summerhill Waste Management Centre	BI45LV	30220335-SH	N/A	Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	Refer to DP Report 91667.02.R.003 + Building B Site Stockpile Photos WC 28.09.20	10.26	37.44	Intermixed soils and clay excavated from Building B
	Summerhill Waste Management Centre	BI45LV	30220455-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		4.5		
	Summerhill Waste Management Centre	XN27KW	30220347-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		8.22		
	Summerhill Waste Management Centre	BI45LV	30221699-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		11.2		
02-Oct-20	Summerhill Waste Management Centre	BI45LV	30221795-SH	N/A	Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	Refer to DP Report 91667.02.R.003 + Building B Site Stockpile Photos WC 2.10.20	12.8	38.78	Intermixed soils and clay excavated from Building B
	Summerhill Waste Management Centre	BI45LV	30221893-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		14.78		
	Summerhill Waste Management Centre	BI45LV	30221893-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		14.78		
09-Nov-20	Summerhill Waste Management Centre	XN50SW	30235843-SH	N/A	Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	Refer to DP Report 91667.02.R.003 + Building A Site Stockpile Photos WC 9.11.20	14.42	27.44	Intermixed soils and clay excavated from Building A
	Summerhill Waste Management Centre	XN50SW	30235965-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		13.02		

TABLE A2 - EXPORTED MATERIALS

9 Church Street, Newcastle				Source Site		Project No: 91667.03					
Date	Receiving Facility	Vehicle Rego	Docket No.	Volume (m³) classified in Letter Report	Material Classification/ Type	DP Report/Email Reference	Volume Exported Per Load (tonnes)	Total Volume Exported (tonnes)	Description		
29-Mar-21	Summerhill Waste Management Centre	XN50SW	30290804-SH	N/A	Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	Refer to DP Report 91667.02.R.003 + Building C Site stockpile photos WC 29.03.21	6.98	68.64	Intermixed filling, natural soils and concrete. Filling: Brown, grey, brown mottled orange and light grey gravelly sand, silty clay and silty sand filling with variable inclusions including concrete, brick, ash, coal, asphalt, slag, plastic, PVC, steel, timber, reinforcing steel, sandstone and trace asbestos containing materials (ACM) fragments		
	Summerhill Waste Management Centre	XN50SW	30290925-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		9.24				
	Summerhill Waste Management Centre	BI45LV	30290676-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		6.48				
	Summerhill Waste Management Centre	BI45LV	30290824-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		7.22				
	Summerhill Waste Management Centre	BI45LV	30290932-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		9.24				
	Summerhill Waste Management Centre	BI45LV	30290740-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		9.4				
	Summerhill Waste Management Centre	XN95BB	30290904-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		9.96				
	Summerhill Waste Management Centre	XN95BB	30290966-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		10.12				
30-Mar-21	Summerhill Waste Management Centre	XN50SW	30291188-SH	130	Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	91667.02.R.003 - 9 Church St, Newcastle-Nihon University-Area 1 (driveway on eastern boundary) Email and inspection dated 30 March 2020	11.82	59.4			
	Summerhill Waste Management Centre	XN50SW	30291360-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		9.64				
	Summerhill Waste Management Centre	BI45LV	30291087-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		13.08				
	Summerhill Waste Management Centre	BI45LV	30291218-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		11.14				
	Summerhill Waste Management Centre	BI45LV	30291373-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		13.72				
31-Mar-21	Summerhill Waste Management Centre	BI45LV	30291529-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		13.44	85.24			
	Summerhill Waste Management Centre	BI45LV	30291624-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		7.98				
	Summerhill Waste Management Centre	BI45LV	30291728-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		10.78				
	Summerhill Waste Management Centre	BI45LV	30291834-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		6.1				
	Summerhill Waste Management Centre	KOL350	30291565-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		7.76				
	Summerhill Waste Management Centre	KOL350	30291666-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		7.12				
	Summerhill Waste Management Centre	KOL350	30291750-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		6.74				
	Summerhill Waste Management Centre	XN50SW	30291575-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		8.86				
	Summerhill Waste Management Centre	XN50SW	30291682-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		8.52				
	Summerhill Waste Management Centre	XN50SW	30291783-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		7.94				
01-Apr-21	Summerhill Waste Management Centre	KOL350	30292027-SH		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		12.42	12.42			
11-May-21	Raymond Terrace Waste Management Centre	BP14XR	RT210076597.0		N/A		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	Refer to DP Report 91667.02.R.003 + Building C site stockpile photos WC 10.05.21		12.12	41.58
	Raymond Terrace Waste Management Centre	BP14XR	RT210076547.0				Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)			7.68	
	Raymond Terrace Waste Management Centre	BP14XR	RT210076746.0	Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		10.94					
	Raymond Terrace Waste Management Centre	BP14XR	RT210076684.0	Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		10.84					
12-May-21	Raymond Terrace Waste Management Centre	BP14XR	RT210076911.0	Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	6.88	6.88					
01-Jun-21	Raymond Terrace Waste Management Centre	XN94XV	RT210080734.0	N/A	Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	Refer to DP Report 91667.02.R.003 + Building C site stockpile photos WC 1.06.21	7.24	15.76			
	Raymond Terrace Waste Management Centre	XN94XV	RT210080863.0		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		8.52				
07-Jun-21	Raymond Terrace Waste Management Centre	XN25IY	RT210081947.0	N/A	Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	Refer to DP Report 91667.02.R.003 + Building C site stockpile photos WC 7.06.21	10.28	10.28			
21-Jun-21	Raymond Terrace Waste Management Centre	BP14XR	RT210084520.0	N/A	Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	Refer to DP Report 91667.02.R.003 + Building C site stockpile photos WC 21.06.21	9.28	62.04			
	Raymond Terrace Waste Management Centre	BP14XR	RT210084595.0		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		10.2				
	Raymond Terrace Waste Management Centre	BP14XR	RT210084665.0		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		10.96				
	Raymond Terrace Waste Management Centre	XN94XV	RT210084551.0		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		8.14				
	Raymond Terrace Waste Management Centre	XN94XV	RT210084612.0		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		10.86				
	Raymond Terrace Waste Management Centre	XN94XV	RT210084694.0		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		12.6				

TABLE A2 - EXPORTED MATERIALS

9 Church Street, Newcastle						Project No: 91667.03			
Source Site						Material Observations			
Date	Receiving Facility	Vehicle Rego	Docket No.	Volume (m³) classified in Letter Report	Material Classification/ Type	DP Report/Email Reference	Volume Exported Per Load (tonnes)	Total Volume Exported (tonnes)	Description
22-Jun-21	Raymond Terrace Waste Management Centre	BP14XR	RT210084792.0	N/A	Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	Refer to DP Report 91667.02.R.003 + Building C site stockpile photos WC 21.06.21	9.48	28.38	Intermixed filling, natural soils and concrete. Filling: Brown, grey, brown mottled orange and light grey gravelly sand, silty clay and silty sand filling with variable inclusions including concrete, brick, ash, coal, asphalt, slag, plastic, PVC, steel, timber, reinforcing steel, sandstone and trace asbestos containing materials (ACM) fragments
	Raymond Terrace Waste Management Centre	BP14XR	RT210084863.0	N/A	Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		9.38		
	Raymond Terrace Waste Management Centre	BP14XR	RT210084945.0	N/A	Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		9.52		
24-Jun-21	Raymond Terrace Waste Management Centre	BP14XR	RT210085419.0	N/A	Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	Refer to DP Report 91667.02.R.003 + Building C site stockpile photos WC 21.06.21	9.38	9.38	Intermixed filling, natural soils and concrete. Filling: Brown, grey, brown mottled orange and light grey gravelly sand, silty clay and silty sand filling with variable inclusions including concrete, brick, ash, coal, asphalt, slag, plastic, PVC, steel, timber, reinforcing steel, sandstone and trace asbestos containing materials (ACM) fragments
28-Jun-21	Raymond Terrace Waste Management Centre	BP14XR	RT210085962.0	N/A	Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)	Refer to DP Report 91667.02.R.003 + Building C site stockpile photos WC 28.06.21	3.66	5.92	Intermixed filling, natural soils and concrete. Filling: Brown, grey, brown mottled orange and light grey gravelly sand, silty clay and silty sand filling with variable inclusions including concrete, brick, ash, coal, asphalt, slag, plastic, PVC, steel, timber, reinforcing steel, sandstone and trace asbestos containing materials (ACM) fragments
	Raymond Terrace Waste Management Centre	BP14XR	RT210086039.0		Intermixed materials - General Solid Waste (non-putrescible) with trace bonded ACM (Special Waste - Asbestos)		2.26		



Environment Protection Licence

Licence - 5897

Licence Details	
Number:	5897
Anniversary Date:	13-October

Licensee
NEWCASTLE CITY COUNCIL
PO BOX 489
NEWCASTLE NSW 2300

Premises
SUMMERHILL WASTE MANAGEMENT FACILITY
141 MINMI RD
WALLSEND NSW 2287

Scheduled Activity
Resource recovery
Waste disposal (application to land)
Waste storage

Fee Based Activity	Scale
Recovery of general waste	Any general waste recovered
Waste disposal by application to land	Any capacity
Waste storage - other types of waste	Any other types of waste stored

Region
Regional Waste Compliance
59-61 Goulburn Street
SYDNEY NSW 2000
Phone: (02) 9995 5000
Fax: (02) 9995 5999
PO Box A290
SYDNEY SOUTH NSW 1232

Environment Protection Licence

Licence - 5897



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Information about this licence

Dictionary

A definition of terms used in the licence can be found in the dictionary at the end of this licence.

Responsibilities of licensee

Separate to the requirements of this licence, general obligations of licensees are set out in the Protection of the Environment Operations Act 1997 ("the Act") and the Regulations made under the Act. These include obligations to:

- ensure persons associated with you comply with this licence, as set out in section 64 of the Act;
- control the pollution of waters and the pollution of air (see for example sections 120 - 132 of the Act);
- report incidents causing or threatening material environmental harm to the environment, as set out in Part 5.7 of the Act.

Variation of licence conditions

The licence holder can apply to vary the conditions of this licence. An application form for this purpose is available from the EPA.

The EPA may also vary the conditions of the licence at any time by written notice without an application being made.

Where a licence has been granted in relation to development which was assessed under the Environmental Planning and Assessment Act 1979 in accordance with the procedures applying to integrated development, the EPA may not impose conditions which are inconsistent with the development consent conditions until the licence is first reviewed under Part 3.6 of the Act.

Duration of licence

This licence will remain in force until the licence is surrendered by the licence holder or until it is suspended or revoked by the EPA or the Minister. A licence may only be surrendered with the written approval of the EPA.

Licence review

The Act requires that the EPA review your licence at least every 5 years after the issue of the licence, as set out in Part 3.6 and Schedule 5 of the Act. You will receive advance notice of the licence review.

Fees and annual return to be sent to the EPA

For each licence fee period you must pay:

- an administrative fee; and
- a load-based fee (if applicable).

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The EPA publication “A Guide to Licensing” contains information about how to calculate your licence fees. The licence requires that an Annual Return, comprising a Statement of Compliance and a summary of any monitoring required by the licence (including the recording of complaints), be submitted to the EPA. The Annual Return must be submitted within 60 days after the end of each reporting period. See condition R1 regarding the Annual Return reporting requirements.

Usually the licence fee period is the same as the reporting period.

Transfer of licence

The licence holder can apply to transfer the licence to another person. An application form for this purpose is available from the EPA.

Public register and access to monitoring data

Part 9.5 of the Act requires the EPA to keep a public register of details and decisions of the EPA in relation to, for example:

- licence applications;
- licence conditions and variations;
- statements of compliance;
- load based licensing information; and
- load reduction agreements.

Under s320 of the Act application can be made to the EPA for access to monitoring data which has been submitted to the EPA by licensees.

This licence is issued to:

NEWCASTLE CITY COUNCIL
PO BOX 489
NEWCASTLE NSW 2300

subject to the conditions which follow.

Environment Protection Licence

Licence - 5897

1 Administrative Conditions

A1 What the licence authorises and regulates

- A1.1 This licence authorises the carrying out of the scheduled activities listed below at the premises specified in A2. The activities are listed according to their scheduled activity classification, fee-based activity classification and the scale of the operation.

Unless otherwise further restricted by a condition of this licence, the scale at which the activity is carried out must not exceed the maximum scale specified in this condition.

Scheduled Activity	Fee Based Activity	Scale
Resource recovery	Recovery of general waste	Any general waste recovered
Waste disposal (application to land)	Waste disposal by application to land	Any capacity
Waste storage	Waste storage - other types of waste	Any other types of waste stored

A2 Premises or plant to which this licence applies

- A2.1 The licence applies to the following premises:

Premises Details
SUMMERHILL WASTE MANAGEMENT FACILITY
141 MINMI RD
WALLSEND
NSW 2287
LOT 2 DP 1208481

A3 Information supplied to the EPA

- A3.1 Works and activities must be carried out in accordance with the proposal contained in the licence application, except as expressly provided by a condition of this licence.

In this condition the reference to "the licence application" includes a reference to:

- the applications for any licences (including former pollution control approvals) which this licence replaces under the Protection of the Environment Operations (Savings and Transitional) Regulation 1998; and
- the licence information form provided by the licensee to the EPA to assist the EPA in connection with the issuing of this licence.

- A3.2 The Newcastle City Council, Summerhill Waste Management Centre, Landfill Environmental Management Plan (LEMP), Revision 3 and dated 16 December 1998, is not to be taken as part of the documentation in

Environment Protection Licence

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A3.1, other than those parts specifically referenced in this licence.

2 Discharges to Air and Water and Applications to Land

P1 Location of monitoring/discharge points and areas

P1.1 The following points referred to in the table below are identified in this licence for the purposes of monitoring and/or the setting of limits for the emission of pollutants to the air from the point.

<i>Air</i>			
EPA identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description
3	Dust Deposition Monitoring		Labelled "DM3A" on SWMC Environmental Monitoring Location Current Master Plan - Drawing No. R7694 dated 21 July 2016
4	Dust Deposition Monitoring		Labelled as "DM4" on SWMC Environmental Monitoring Location Current Master Plan - Drawing No. R7694 dated 21 July 2016
8	Dust Deposition Monitoring		Labelled as "DM8" on SWMC Environmental Monitoring Location Current Master Plan - Drawing No. R7694 dated 21 July 2016
14	Gas subsurface - Solid waste landfill		Dual purpose - double bore east of cell 4, labelled as "SSG14" on SWMC Environmental Monitoring Location Current Master Plan - drawing no. R7694 dated 21 July 2016.
15	Gas subsurface - Solid waste landfill		Dual purpose - Double bore east of cell 4, labelled as "SSG15" on SWMC Environmental Monitoring Location Current Master Plan - drawing no. R7694 dated 21 July 2016.
16	Gas subsurface - Solid waste landfill		Dual purpose - east of cell 3, labelled as "SSG16" on SWMC Environmental Monitoring Location Current Master Plan - drawing no. R7694 dated 21 July 2016.
23	Gas subsurface - Open cut inert waste landfill		Dual purpose - east of void, labelled as "SSG23" on SWMC Environmental Monitoring Location Current Master Plan - drawing no. R7694 dated 21 July 2016.
24	Gas subsurface - Open cut inert waste landfill		Dual purpose - south of void, labelled as "SSG24" on SWMC Environmental Monitoring Location Current Master Plan - drawing no. R7694 dated 21 July 2016.
59	Dust Deposition Monitoring		Labelled as "DM10" on SWMC Environmental Monitoring Location Current Master Plan - Drawing No. R7694 dated 21 July 2016.

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60	Dust Deposition Monitoring	Labelled as "DM9A" on SWMC Environmental Monitoring Location Current Master Plan - Drawing No. R7694 dated 21 July 2016.
62	Dust Deposition Monitoring	Labelled as "DM2A" on SWMC Environmental Monitoring Location Current Master Plan - Drawing No. R7694 dated 21 July 2016.
63	Dust Deposition Monitoring	Labelled as "DM11" on SWMC Environmental Monitoring Location Current Master Plan - Drawing No. R7694 dated 21 July 2016.
64	Dust Deposition Monitoring	Labelled as "DM12" on SWMC Environmental Monitoring Location Current Master Plan - Drawing No. R7694 dated 21 July 2016.
65	Dust Deposition Monitoring	Labelled as "DM13" on SWMC Environmental Monitoring Location Current Master Plan - Drawing No. R7694 dated 21 July 2016.

P1.2 The following utilisation areas referred to in the table below are identified in this licence for the purposes of the monitoring and/or the setting of limits for any application of solids or liquids to the utilisation area.

P1.3 The following points referred to in the table are identified in this licence for the purposes of the monitoring and/or the setting of limits for discharges of pollutants to water from the point.

Water and land

EPA Identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description
31	Groundwater quality monitoring - Solid waste landfill		Dual purpose - double bore east of cell 4, labelled as "GW31" on SWMC Environmental Monitoring Location Current Master Plan - drawing no. R7694 dated 21 July 2016.
32	Groundwater quality monitoring - Solid waste landfill		Dual purpose - double bore east of cell 4, labelled as "GW32" on SWMC Environmental Monitoring Location Current Master Plan - drawing no. R7694 dated 21 July 2016.
33	Groundwater quality monitoring - Solid waste landfill		Dual purpose - east of cell 3, labelled as "GW33" on SWMC Environmental Monitoring Location Current Master Plan - drawing no. R7694 dated 21 July 2016.

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34	Groundwater quality monitoring - Solid waste landfill	North-east of cell 3, labelled as "GW34" on SWMC Environmental Monitoring Location Current Master Plan - drawing no. R7694 dated 21 July 2016.
35	Groundwater quality monitoring - Solid waste landfill	North-west of cell 1, labelled as "GW35" on SWMC Environmental Monitoring Location Current Master Plan - drawing no. R7694 dated 21 July 2016.
42	Groundwater quality monitoring - Original inert site	South-east of site near gravel road on site boundary, labelled as "GW42" on SWMC Environmental Monitoring Location Current Master Plan - drawing no. R7694 dated 21 July 2016.
46	Groundwater quality monitoring - Open cut inert waste landfill	Adjacent to Open Cut Inert Waste Leachate Pond, labelled as "GW46" on SWMC Environmental Monitoring Location Current Master Plan - drawing no. R7694 dated 21 July 2016.
48	Groundwater quality monitoring - Open cut inert waste landfill	Dual purpose - east of void, labelled as "GW48" on SWMC Environmental Monitoring Location Current Master Plan - drawing no. R7694 dated 21 July 2016.
49	Groundwater quality monitoring - Open cut inert waste landfill	Dual purpose - south of void, labelled as "GW49" on SWMC Environmental Monitoring Location Current Master Plan - drawing no. R7694 dated 21 July 2016.
51	Groundwater quality monitoring - Open cut inert waste landfill	South-west of Open cut void, labelled as "GW51" on SWMC Environmental Monitoring Location Current Master Plan - drawing no. R7694 dated 21 July 2016.
55	Surface water monitoring - Sediment Pond 4 discharge	South of and adjacent to entrance road, labelled as "SW55" on SWMC Environmental Monitoring Location Current Master Plan - drawing no. R7694 dated 21 July 2016.
56	Surface water quality monitoring - Sediment Pond 3 discharge	North of and adjacent to Sediment Pond 3, labelled as "SW56" on SWMC Environmental Monitoring Location Current Master Plan - drawing no. R7694 dated 21 July 2016.

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57	Surface water quality monitoring - Open Cut Sediment Pond 6 discharge	North-west of Sediment Pond 6, downstream of the open cut void, labelled as "SW57" on SWMC Environmental Monitoring Location Current Master Plan - drawing no. R7694 dated 21 July 2016.
61	Surface water quality monitoring - Wentworth Creek	Labelled as "SW58A" on SWMC Environmental Monitoring Location Current Master Plan - drawing no. R7694 dated 21 July 2016.
66	Surface water quality monitoring	Labelled as "SW59" on SWMC Environmental Monitoring Location Current Master Plan - drawing no. R7694 dated 21 July 2016.

3 Limit Conditions

L1 Pollution of waters

- L1.1 Except as may be expressly provided in any other condition of this licence, the licensee must comply with section 120 of the Protection of the Environment Operations Act 1997.

L2 Waste

- L2.1 The licensee must not cause, permit or allow any waste to be received at the premises, except the wastes expressly referred to in the column titled "Waste" and meeting the definition, if any, in the column titled "Description" in the table below.

Any waste received at the premises must only be used for the activities referred to in relation to that waste in the column titled "Activity" in the table below.

Any waste received at the premises is subject to those limits or conditions, if any, referred to in relation to that waste contained in the column titled "Other Limits" in the table below.

This condition does not limit any other conditions in this licence.

Code	Waste	Description	Activity	Other Limits
NA	General solid waste (non-putrescible)	As defined in Schedule 1 of the POEO Act, as in force from time to time.	Waste disposal (application to land) Resource recovery Waste storage	N/A
NA	General solid waste (putrescible)	As defined in Schedule 1 of the POEO Act, as in force from time to time	Waste disposal (application to land)	N/A
NA	General solid waste (non-putrescible)	Wastes assessed as General Solid Waste (non-putrescible) which are also subject to general or specific	Waste disposal (application to land)	N/A

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		immobilisations approvals which have a restriction that they must only be disposed of at waste disposal facilities which have currently operating leachate collection systems.	
NA	Asbestos waste	As defined in Schedule 1 of the POEO Act, as in force from time to time.	Waste disposal (application to land)

- L2.2 In accordance with Condition L3.1, the total amount of all waste received that the premises must not exceed 362,000 tonnes per annum.

L3 Potentially offensive odour

- L3.1 No condition of this licence identifies a potentially offensive odour for the purposes of section 129 of the Protection of the Environment Operations Act 1997.

Note: Section 129 of the Protection of the Environment Operations Act 1997, provides that the licensee must not cause or permit the emission of any offensive odour from the premises but provides a defence if the emission is identified in the relevant environment protection licence as a potentially offensive odour and the odour was emitted in accordance with the conditions of a licence directed at minimising odour.

4 Operating Conditions

O1 Activities must be carried out in a competent manner

- O1.1 Licensed activities must be carried out in a competent manner.
This includes:
- a) the processing, handling, movement and storage of materials and substances used to carry out the activity; and
 - b) the treatment, storage, processing, reprocessing, transport and disposal of waste generated by the activity.

O2 Maintenance of plant and equipment

- O2.1 All plant and equipment installed at the premises or used in connection with the licensed activity:
- a) must be maintained in a proper and efficient condition; and
 - b) must be operated in a proper and efficient manner.

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O3 Dust

- O3.1 All operations and activities occurring at the premises must be carried out in a manner that will minimise the emission of dust from the premises.

O4 Emergency response

- O4.1 A copy of the current version of the Pollution Incident Response Management Plan (PIRMP) for the premises must be kept at the premises.

Note: A PRIMP is required under Part 5.7A of the *Protection of the Environment Operations Act 1997* and its regulations. The PIRMP must document systems and procedures to deal with all types of incidents (e.g. spills, explosions or fire) that may occur at the premises or that may be associated with activities that occur at the premises and which are likely to cause harm to the environment. The PIRMP must be tested at least annually or following a pollution incident.

O5 Processes and management

Maintenance of Sedimentation System / Leachate Holding Ponds

- O5.1 The sedimentation and leachate holding ponds must be maintained to ensure that their design capacity is available for the storage of stormwater and leachate.

Management of Surface Waters

- O5.2 The perimeter of the areas where waste has been landfilled must be contoured to prevent stormwater running onto these surfaces from all storm events less than or equal to a 1 in 10 year 24 hour duration storm event.
- O5.3 The drainage from all areas at the premises which will liberate suspended solids when stormwater runs over these areas must be diverted into the sedimentation basins.

Unauthorised Entry

- O5.4 The licensee must take all practicable steps to control unauthorised entry to the premises.

Degradation of Local Amenity

- O5.5 The licensee must implement the litter management program specified in the LEMP or as required to ensure that local amenity is not degraded by litter from the waste facility.
- O5.6 The licensee must minimise the tracking of waste and mud by vehicles in accordance with the LEMP or as otherwise necessary.
- O5.7 The licensee must control pests, vermin and weeds at the premises in accordance with the LEMP.

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O6 Waste management

Leachate Management

- O6.1 A leachate barrier system and leachate collection system must be installed on each surface within the premises to be used for the disposal of waste.
- O6.2 The leachate barrier system must be installed above the groundwater table.
- O6.3 The leachate collection system must be capable of capturing all leachate generated from the waste disposed of at the premises.
- O6.4 Surface drainage must be diverted away from any area where waste is being or has been landfilled.
- O6.5 A leachate barrier system must be installed on each surface within the premises to be used for the storage of leachate.
- O6.6 Conditions O6.1 to O6.5 do not apply to the existing landfill area known as the 'non-putrescible fill area' as indicated on Drawing Number R6598 included as an attachment to the LEMP.

Screening of Waste

- O6.7 The licensee must have in place and implement procedures to identify and prevent the disposal of any waste not permitted by this licence to be disposed of at the premises.

Disposal of Waste in Landfill Cells

- O6.8 Waste received at the premises which is classified as General Solid Waste (putrescible) or Asbestos Waste must only be disposed of in Landfill Cells 1, 2, 3, 4, 5, 6, 7, 8 or 9 (stage 1 and stage 2 Separable Portion 1) unless the EPA amends this licence to expressly permit disposal of this type of waste elsewhere at the premises.
- O6.9 Waste received at the premises which is classified as General Solid Waste (non-putrescible) may be disposed of in Landfill Cells 1, 2, 3, 4, 5, 6, 7, 8 or 9 (Stage 1 and Stage 2 Separable Portion 1) or in the area known as the "final void area".
- O6.10 For the purpose of Conditions O6.8 and O6.9:
 - a) Landfill Cells 1, 2, 3, 4, 5, 6, 7, 8 and 9 (Stage 1 and Stage 2 Separable Portion 1) are represented on the drawing "Cell Boundary Plan SWMC Cell 9 Stage 2 SP1" drawn by L Knaus and dated 2 December 2019"; and
 - b) The "final void area" and "non-putrescible landfill area" are shown in Figures 1 and 2 of Annexure 1 of the LEMP, and on Drawing Number R6598 included as an attachment to the LEMP.
- O6.11 The licensee must not exhumate any landfilled waste at the premises unless approved in writing by the EPA.

Construction of Landfill Cells

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- O6.12 The licensee must obtain approval from the EPA prior to the construction of any new landfill cells at the premises other than Cell 9.
- O6.13 The licensee must provide a report to the EPA which details the design, construction, operation and rehabilitation of any new landfill cell proposed to be constructed at the premises. This report must be submitted to the EPA at least six months before the licensee intends to construct the proposed new landfill cell. The report must also include details of QA/QC program which can demonstrate that the landfill cell was constructed to meet its design specifications.
- O6.14 The licensee must carry out the construction of landfill Cell 9 (Stage 2) in accordance with the approved plans and designs set out in *"Cell 9 Stage 2 Technical Specification"* (December 2018), *"Cell 9 Stage 2 For Construction Drawings"* and *"Cell 9 Stage 2 Construction Quality Assurance Plan"* (September 2018).

Completion of Landfill Cells

- O6.15 The licensee must ensure that the landfill cells are capped progressively and in accordance with condition O6.17 during operations and specifically at times when the level of waste reaches final heights as detailed in Appendix 10 of the LEMP.
- O6.16 Final capping must comprise five layers in the order of installation: a seal bearing surface, a gas drainage layer, a sealing layer, an infiltration layer and the revegetation layer as specified in the LEMP or as approved by the EPA.

Covering of Waste

- O6.17 Cover Material must be:

a) Daily Cover

Daily cover material must be either:

- i) virgin excavated natural material (VENM); or
- ii) approved alternative daily cover (ADC).

VENM Cover material must be applied to a minimum depth of 15 centimetres over all exposed landfilled waste prior to ceasing operations at the end of each day.

b) Intermediate cover

Cover material must be applied to a depth of 30 centimetres over surfaces of the landfilled waste at the premises which are to be exposed for more than 90 days.

c) Cover material stockpile

At least two weeks cover material must be available at the premises under all weather conditions. This material may be won on site, alternatively a cover stockpile must be maintained adjacent to the tip face.

- O6.18 For the purposes of condition O6.18 (a) (ii) the approved ADC is biodegradable plastic film ("Envirocover") is to be applied to achieve environmental goals outlined in Benchmark Technique (BT33) Environmental

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Guidelines, Solid waste Landfills (1996).

5 Monitoring and Recording Conditions

M1 Monitoring records

- M1.1 The results of any monitoring required to be conducted by this licence or a load calculation protocol must be recorded and retained as set out in this condition.
- M1.2 All records required to be kept by this licence must be:
- a) in a legible form, or in a form that can readily be reduced to a legible form;
 - b) kept for at least 4 years after the monitoring or event to which they relate took place; and
 - c) produced in a legible form to any authorised officer of the EPA who asks to see them.
- M1.3 The following records must be kept in respect of any samples required to be collected for the purposes of this licence:
- a) the date(s) on which the sample was taken;
 - b) the time(s) at which the sample was collected;
 - c) the point at which the sample was taken; and
 - d) the name of the person who collected the sample.

M2 Requirement to monitor concentration of pollutants discharged

- M2.1 For each monitoring/discharge point or utilisation area specified below (by a point number), the licensee must monitor (by sampling and obtaining results by analysis) the concentration of each pollutant specified in Column 1. The licensee must use the sampling method, units of measure, and sample at the frequency, specified opposite in the other columns:
- M2.2 Air Monitoring Requirements

POINT 3,4,8,59,60,62,63,64,65

Pollutant	Units of measure	Frequency	Sampling Method
Total suspended particles	grams per square metre per month	Monthly	AM-19

POINT 14,15,16,23,24

Pollutant	Units of measure	Frequency	Sampling Method
Carbon dioxide	percent	Quarterly	In situ
Hydrogen Sulfide	percent	Quarterly	In situ
Methane	percent	Quarterly	In situ
Oxygen (O ₂)	percent	Quarterly	In situ

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M2.3 Water and/ or Land Monitoring Requirements

POINT 31,32,33,34,35,42,46,48,49,51

Pollutant	Units of measure	Frequency	Sampling Method
Alkalinity (as calcium carbonate)	milligrams per litre	Quarterly	Grab sample
Aluminium	milligrams per litre	Yearly	Grab sample
Ammonia	milligrams per litre	Quarterly	Grab sample
Arsenic	milligrams per litre	Yearly	Grab sample
Barium	milligrams per litre	Yearly	Grab sample
Benzene	milligrams per litre	Yearly	Grab sample
Cadmium	milligrams per litre	Yearly	Grab sample
Calcium	milligrams per litre	Quarterly	Grab sample
Chloride	milligrams per litre	Quarterly	Grab sample
Chromium (hexavalent)	milligrams per litre	Yearly	Grab sample
Chromium (total)	milligrams per litre	Yearly	Grab sample
Cobalt	milligrams per litre	Yearly	Grab sample
Conductivity	microsiemens per centimetre	Quarterly	Grab sample
Copper	milligrams per litre	Yearly	Grab sample
Ethyl benzene	milligrams per litre	Yearly	Grab sample
Fluoride	milligrams per litre	Yearly	Grab sample
Iron	milligrams per litre	Quarterly	Grab sample
Lead	milligrams per litre	Quarterly	Grab sample
Magnesium	milligrams per litre	Quarterly	Grab sample
Manganese	milligrams per litre	Yearly	Grab sample
Mercury	milligrams per litre	Yearly	Grab sample
Nitrate	milligrams per litre	Quarterly	Grab sample
Organochlorine pesticides	milligrams per litre	Yearly	Grab sample
Organophosphate pesticides	milligrams per litre	Yearly	Grab sample
pH	pH	Quarterly	Grab sample
Polycyclic aromatic hydrocarbons	milligrams per litre	Yearly	Grab sample
Potassium	milligrams per litre	Quarterly	Grab sample
Sodium	milligrams per litre	Quarterly	Grab sample
Standing Water Level	metres	Quarterly	No method specified
Sulfate	milligrams per litre	Quarterly	Grab sample
Toluene	milligrams per litre	Yearly	Grab sample

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Total dissolved solids	milligrams per litre	Quarterly	Grab sample
Total organic carbon	milligrams per litre	Quarterly	Grab sample
Total petroleum hydrocarbons	milligrams per litre	Yearly	Grab sample
Total Phenolics	milligrams per litre	Yearly	Grab sample
Zinc	milligrams per litre	Yearly	Grab sample

POINT 55,56,57,61,66

Pollutant	Units of measure	Frequency	Sampling Method
Ammonia	milligrams per litre	Daily during any discharge	Grab sample
BOD	milligrams per litre	Daily during any discharge	Grab sample
Conductivity	microsiemens per centimetre	Daily during any discharge	Grab sample
pH	pH	Daily during any discharge	Grab sample
Total suspended solids	milligrams per litre	Daily during any discharge	Grab sample

M3 Testing methods - concentration limits

- M3.1 Monitoring for the concentration of a pollutant emitted to the air required to be conducted by this licence must be done in accordance with:
- any methodology which is required by or under the Act to be used for the testing of the concentration of the pollutant; or
 - if no such requirement is imposed by or under the Act, any methodology which a condition of this licence requires to be used for that testing; or
 - if no such requirement is imposed by or under the Act or by a condition of this licence, any methodology approved in writing by the EPA for the purposes of that testing prior to the testing taking place.
- M3.2 Subject to any express provision to the contrary in this licence, monitoring for the concentration of a pollutant discharged to waters or applied to a utilisation area must be done in accordance with the Approved Methods Publication unless another method has been approved by the EPA in writing before any tests are conducted.
- Note: The *Protection of the Environment Operations (Clean Air) Regulation 2010* requires testing for certain purposes to be conducted in accordance with test methods contained in the publication "Approved Methods for the Sampling and Analysis of Air Pollutants in NSW".

M4 Recording of pollution complaints

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- M4.1 The licensee must keep a legible record of all complaints made to the licensee or any employee or agent of the licensee in relation to pollution arising from any activity to which this licence applies.
- M4.2 The record must include details of the following:
- a) the date and time of the complaint;
 - b) the method by which the complaint was made;
 - c) any personal details of the complainant which were provided by the complainant or, if no such details were provided, a note to that effect;
 - d) the nature of the complaint;
 - e) the action taken by the licensee in relation to the complaint, including any follow-up contact with the complainant; and
 - f) if no action was taken by the licensee, the reasons why no action was taken.
- M4.3 The record of a complaint must be kept for at least 4 years after the complaint was made.
- M4.4 The record must be produced to any authorised officer of the EPA who asks to see them.

M5 Telephone complaints line

- M5.1 The licensee must operate during its operating hours a telephone complaints line for the purpose of receiving any complaints from members of the public in relation to activities conducted at the premises or by the vehicle or mobile plant, unless otherwise specified in the licence.
- M5.2 The licensee must notify the public of the complaints line telephone number and the fact that it is a complaints line so that the impacted community knows how to make a complaint.
- M5.3 The preceding two conditions do not apply until 3 months after: the date of the issue of this licence.

M6 Other monitoring and recording conditions

- M6.1 The licensee must monitor the remaining disposal capacity (in cubic metres) of the landfill.

Gas Monitoring

- M6.2 A gas monitoring program must be implemented which will demonstrate that landfill gas that may pose an explosive hazard is not migrating from the facility.

6 Reporting Conditions

R1 Annual return documents

- R1.1 The licensee must complete and supply to the EPA an Annual Return in the approved form comprising:
- 1. a Statement of Compliance,

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2. a Monitoring and Complaints Summary,
3. a Statement of Compliance - Licence Conditions,
4. a Statement of Compliance - Load based Fee,
5. a Statement of Compliance - Requirement to Prepare Pollution Incident Response Management Plan,
6. a Statement of Compliance - Requirement to Publish Pollution Monitoring Data; and
7. a Statement of Compliance - Environmental Management Systems and Practices.

At the end of each reporting period, the EPA will provide to the licensee a copy of the form that must be completed and returned to the EPA.

- R1.2 An Annual Return must be prepared in respect of each reporting period, except as provided below.
- R1.3 Where this licence is transferred from the licensee to a new licensee:
- a) the transferring licensee must prepare an Annual Return for the period commencing on the first day of the reporting period and ending on the date the application for the transfer of the licence to the new licensee is granted; and
 - b) the new licensee must prepare an Annual Return for the period commencing on the date the application for the transfer of the licence is granted and ending on the last day of the reporting period.
- R1.4 Where this licence is surrendered by the licensee or revoked by the EPA or Minister, the licensee must prepare an Annual Return in respect of the period commencing on the first day of the reporting period and ending on:
- a) in relation to the surrender of a licence - the date when notice in writing of approval of the surrender is given; or
 - b) in relation to the revocation of the licence - the date from which notice revoking the licence operates.
- R1.5 The Annual Return for the reporting period must be supplied to the EPA via eConnect *EPA* or by registered post not later than 60 days after the end of each reporting period or in the case of a transferring licence not later than 60 days after the date the transfer was granted (the 'due date').
- R1.6 The licensee must retain a copy of the Annual Return supplied to the EPA for a period of at least 4 years after the Annual Return was due to be supplied to the EPA.
- R1.7 Within the Annual Return, the Statements of Compliance must be certified and the Monitoring and Complaints Summary must be signed by:
- a) the licence holder; or
 - b) by a person approved in writing by the EPA to sign on behalf of the licence holder.

Note: The term "reporting period" is defined in the dictionary at the end of this licence. Do not complete the Annual Return until after the end of the reporting period.

Note: An application to transfer a licence must be made in the approved form for this purpose.

- R1.8 The Annual Return must be accompanied by/or include an Annual Report which must contain an assessment of environmental performance relevant to licence conditions including:
- a) tabulated results of all monitoring data required to be collected by this licence;
 - b) a graphical presentation of data from at least the last three years (if available) in order to show variability and/or trends. Any statistically significant variations or anomalies should

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- be highlighted and explained;
- c) an analysis and interpretation of all monitoring data;
- d) an analysis of and response to any complaints received;
- e) identification of any deficiencies in environmental performance identified by the monitoring data, trends or incidents and of remedial action taken or proposed to be taken to address these deficiencies; and
- f) recommendations on improving the environmental performance of the facility.

R2 Notification of environmental harm

R2.1 Notifications must be made by telephoning the Environment Line service on 131 555.

R2.2 The licensee must provide written details of the notification to the EPA within 7 days of the date on which the incident occurred.

Note: The licensee or its employees must notify all relevant authorities of incidents causing or threatening material harm to the environment immediately after the person becomes aware of the incident in accordance with the requirements of Part 5.7 of the Act.

Leachate Discharges to Surface Waters

R2.3 Whenever leachate is discharged to surface waters from the premises the licensee must notify the event to the EPA in accordance with condition R2.1.

R2.4 The licensee must provide written details of any leachate discharge(s) to the EPA within 7 days of the date on which the incident occurred in accordance with R2.2.

R2.5 The written details referred to in the above condition must be provided as a report. The report must include the following information:

- a) the volume of the leachate discharged and over what time period the discharge occurred;
- b) the date and time of the commencement of the overflow;
- c) the weather conditions at the time of the discharge, specifying the amount of rainfall on a daily basis that had fallen:
 - i) on the day(s) of the discharge; and
 - ii) for the one week period prior to the discharge.
- d) the most recent monitoring results of the chemical composition of the leachate;
- e) an explanation as to why the discharge occurred;
- f) the location(s) of the discharge;
- g) a plan of action to prevent a similar discharge in the future; and
- h) was the discharge permitted by this licence.

Landfill Gas Hazard Reporting

R2.6 The licensee must notify the EPA within 24 hours in accordance with condition R2.1 if subsurface monitoring detects methane above 1.25% (v/v), and increase the frequency of monitoring to daily, until the EPA determines otherwise.

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R3 Written report

- R3.1 Where an authorised officer of the EPA suspects on reasonable grounds that:
- a) where this licence applies to premises, an event has occurred at the premises; or
 - b) where this licence applies to vehicles or mobile plant, an event has occurred in connection with the carrying out of the activities authorised by this licence,
- and the event has caused, is causing or is likely to cause material harm to the environment (whether the harm occurs on or off premises to which the licence applies), the authorised officer may request a written report of the event.
- R3.2 The licensee must make all reasonable inquiries in relation to the event and supply the report to the EPA within such time as may be specified in the request.
- R3.3 The request may require a report which includes any or all of the following information:
- a) the cause, time and duration of the event;
 - b) the type, volume and concentration of every pollutant discharged as a result of the event;
 - c) the name, address and business hours telephone number of employees or agents of the licensee, or a specified class of them, who witnessed the event;
 - d) the name, address and business hours telephone number of every other person (of whom the licensee is aware) who witnessed the event, unless the licensee has been unable to obtain that information after making reasonable effort;
 - e) action taken by the licensee in relation to the event, including any follow-up contact with any complainants;
 - f) details of any measure taken or proposed to be taken to prevent or mitigate against a recurrence of such an event; and
 - g) any other relevant matters.
- R3.4 The EPA may make a written request for further details in relation to any of the above matters if it is not satisfied with the report provided by the licensee. The licensee must provide such further details to the EPA within the time specified in the request.

R4 Other reporting conditions

Recording of Fires

- R4.1 The licensee must maintain a daily log and record the following data of fires at the site:
- a) Time and date when the fire was deliberately started or reported.
 - b) Whether the fire was authorised by the licensee, and, if not, the circumstances which ignited the fire.
 - c) The time and date that the fire ceased and whether it burnt out or was extinguished.
 - d) The location of fire (eg. clean timber stockpile, putrescible garbage cell, etc).
 - e) Prevailing weather conditions.
 - f) Observations made in regard to smoke direction and dispersion.
 - g) The amount of waste that was combusted by the fire.
 - h) Action taken to extinguish the fire.
- R4.2 The licensee or its employees or agents must notify the EPA in accordance with conditions R2.1 and R2.2 of all fires at the premises as soon as practical after becoming aware of the incident.

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7 General Conditions

G1 Copy of licence kept at the premises or plant

- G1.1 A copy of this licence must be kept at the premises to which the licence applies.
- G1.2 The licence must be produced to any authorised officer of the EPA who asks to see it.
- G1.3 The licence must be available for inspection by any employee or agent of the licensee working at the premises.

8 Pollution Studies and Reduction Programs

U1 PRP 3 - Quality Assurance Program

- U1.1 The licensee must prepare and submit to the EPA for review within 6 weeks of the installation of the leachate collection system and leachate barrier system being completed plans for a quality assurance program for the leachate collection system and leachate barrier system at the waste facility.

U2 Surface Water Management Plan

- U2.1 The Licensee must investigate interim and long term surface water management measures to improve water quality discharges from the Premises. The interim measures must consider actions to reduce elevated levels of Total Suspended Solids discharging from the Premises.
- U2.2 The Licensee must provide to the EPA the interim measures undertaken by the Licensee to reduce total suspended solids being discharged from the Premises.

The interim measures must be provided to the EPA by 31 March 2017 and forwarded to waste.operations@epa.nsw.gov.au and addressed to the Unit Head - Waste Compliance, Newcastle, EPA.

- U2.3 The Licensee must provide to the EPA a Surface Water Management Plan for the Premises, including recommendations and timeframes to implement long-term surface water management measures to improve water quality discharges from the Premises.

The Report must be provided to the EPA by 31 December 2018 and forwarded to waste.operations@epa.nsw.gov.au and addressed to the Unit Head - Waste Compliance, Newcastle, EPA.

U3 Groundwater Monitoring Program Report Review

- U3.1 The licensee must review the report titled *Groundwater Pollution Reduction Program (Report No.*

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1547908-016-R-Rev01) dated 26 September 2017 and consider the recommended actions, additions and amendments to the existing groundwater monitoring network at the premises.

- U3.2 The licensee must provide a report on its review of the *Groundwater Pollution Reduction Report* in writing to the NSW EPA, Newcastle Waste Compliance by no later than 14 December 2018 by electronic mail to waste.operations@epa.nsw.gov.au. The report must include reasonable timeframes for any actions proposed.

U4 Subsurface Gas Monitoring Report Review

- U4.1 The licensee must review the report titled *Subsurface Gas Pollution Reduction Program (Report No. 1547908-023-R-Rev0)* dated 26 September 2017 and consider the recommended actions, additions and amendments to the existing groundwater monitoring network at the premises.
- U4.2 The licensee must provide a report on its review of the *Subsurface Gas Pollution Reduction Report* in writing to the NSW EPA, Newcastle Waste Compliance by no later than 14 December 2018 by electronic mail to waste.operations@epa.nsw.gov.au. The report must include reasonable timeframes for any actions proposed.

9 Special Conditions

E1 Closure plan

- E1.1 The last licensee must prepare and submit to the EPA within twelve months prior to the last load of waste being landfilled a closure plan in accordance with section 76 of the Protection of the Environment Operations Act 1997.

E2 Temporary Storage of Co-mingled Waste

- E2.1 Co-mingled (recyclable) waste collected from within the Newcastle Local Government Area is permitted to be received at the premises for temporary storage.
- E2.2 Co-mingled waste can only be stockpiled in the Co-mingled Storage and Transfer area on the premises, which is defined on the map titled EMSDWG002_V1 SWMC - SITE PLAN with reference number R7680 (11.3.2020).
- E2.3 All co-mingled waste be under cover at all times; including unloading of waste under the constructed temporary awnings in the area defined by condition E2.2.
- E2.4 All co-mingled waste must be stored on an impervious hardstand in a bunded area. The existing bund must be upgraded to an impervious bund by 1 May 2020.
- E2.5 Leachate generated from the comingled waste must be captured and taken to the premises leachate collection system.

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- E2.6 Any co-mingled waste remaining at the premises at the end of each business day, must be stored in a covered truck or bin, under the constructed temporary awnings.

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Dictionary

General Dictionary

3DGM [in relation to a concentration limit]	Means the three day geometric mean, which is calculated by multiplying the results of the analysis of three samples collected on consecutive days and then taking the cubed root of that amount. Where one or more of the samples is zero or below the detection limit for the analysis, then 1 or the detection limit respectively should be used in place of those samples
Act	Means the Protection of the Environment Operations Act 1997
activity	Means a scheduled or non-scheduled activity within the meaning of the Protection of the Environment Operations Act 1997
actual load	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
AM	Together with a number, means an ambient air monitoring method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .
AMG	Australian Map Grid
anniversary date	The anniversary date is the anniversary each year of the date of issue of the licence. In the case of a licence continued in force by the Protection of the Environment Operations Act 1997, the date of issue of the licence is the first anniversary of the date of issue or last renewal of the licence following the commencement of the Act.
annual return	Is defined in R1.1
Approved Methods Publication	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
assessable pollutants	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
BOD	Means biochemical oxygen demand
CEM	Together with a number, means a continuous emission monitoring method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .
COD	Means chemical oxygen demand
composite sample	Unless otherwise specifically approved in writing by the EPA, a sample consisting of 24 individual samples collected at hourly intervals and each having an equivalent volume.
cond.	Means conductivity
environment	Has the same meaning as in the Protection of the Environment Operations Act 1997
environment protection legislation	Has the same meaning as in the Protection of the Environment Administration Act 1991
EPA	Means Environment Protection Authority of New South Wales.
fee-based activity classification	Means the numbered short descriptions in Schedule 1 of the Protection of the Environment Operations (General) Regulation 2009.
general solid waste (non-putrescible)	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997

Environment Protection Licence

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flow weighted composite sample	Means a sample whose composites are sized in proportion to the flow at each composites time of collection.
general solid waste (putrescible)	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
grab sample	Means a single sample taken at a point at a single time
hazardous waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
licensee	Means the licence holder described at the front of this licence
load calculation protocol	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
local authority	Has the same meaning as in the Protection of the Environment Operations Act 1997
material harm	Has the same meaning as in section 147 Protection of the Environment Operations Act 1997
MBAS	Means methylene blue active substances
Minister	Means the Minister administering the Protection of the Environment Operations Act 1997
mobile plant	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
motor vehicle	Has the same meaning as in the Protection of the Environment Operations Act 1997
O&G	Means oil and grease
percentile [in relation to a concentration limit of a sample]	Means that percentage [eg.50%] of the number of samples taken that must meet the concentration limit specified in the licence for that pollutant over a specified period of time. In this licence, the specified period of time is the Reporting Period unless otherwise stated in this licence.
plant	Includes all plant within the meaning of the Protection of the Environment Operations Act 1997 as well as motor vehicles.
pollution of waters [or water pollution]	Has the same meaning as in the Protection of the Environment Operations Act 1997
premises	Means the premises described in condition A2.1
public authority	Has the same meaning as in the Protection of the Environment Operations Act 1997
regional office	Means the relevant EPA office referred to in the Contacting the EPA document accompanying this licence
reporting period	For the purposes of this licence, the reporting period means the period of 12 months after the issue of the licence, and each subsequent period of 12 months. In the case of a licence continued in force by the Protection of the Environment Operations Act 1997, the date of issue of the licence is the first anniversary of the date of issue or last renewal of the licence following the commencement of the Act.
restricted solid waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
scheduled activity	Means an activity listed in Schedule 1 of the Protection of the Environment Operations Act 1997
special waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
TM	Together with a number, means a test method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .

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TSP	Means total suspended particles
TSS	Means total suspended solids
Type 1 substance	Means the elements antimony, arsenic, cadmium, lead or mercury or any compound containing one or more of those elements
Type 2 substance	Means the elements beryllium, chromium, cobalt, manganese, nickel, selenium, tin or vanadium or any compound containing one or more of those elements
utilisation area	Means any area shown as a utilisation area on a map submitted with the application for this licence
waste	Has the same meaning as in the Protection of the Environment Operations Act 1997
waste type	Means liquid, restricted solid waste, general solid waste (putrescible), general solid waste (non - putrescible), special waste or hazardous waste

Mr Grahame Clarke

Environment Protection Authority

(By Delegation)

Date of this edition: 11-August-2000

Environment Protection Licence

Licence - 5897

End Notes

- 1 Licence varied by notice 1002413, issued on 06-Dec-2000, which came into effect on 31-Dec-2000.
- 2 Licence varied by notice 1010083, issued on 13-Nov-2001, which came into effect on 08-Dec-2001.
- 3 Licence varied by notice 1016670, issued on 15-Oct-2002, which came into effect on 09-Nov-2002.
- 4 Licence varied by notice 1029564, issued on 16-Oct-2003, which came into effect on 16-Oct-2003.
- 5 Licence varied by notice 1040661, issued on 14-Sep-2004, which came into effect on 14-Sep-2004.
- 6 Licence varied by correction to DEC Region, issued on 18-Jan-2007, which came into effect on 18-Jan-2007.
- 7 Licence varied by notice 1071531, issued on 13-Oct-2008, which came into effect on 13-Oct-2008.
- 8 Condition A1.3 Not applicable varied by notice issued on <issue date> which came into effect on <effective date>
- 9 Licence varied by notice 1093622, issued on 08-Dec-2008, which came into effect on 08-Dec-2008.
- 10 Licence varied by notice 1104173, issued on 14-Dec-2009, which came into effect on 14-Dec-2009.
- 11 Licence varied by Correction to EPA Region data record., issued on 25-Jun-2010, which came into effect on 25-Jun-2010.
- 12 Licence varied by notice 1524970 issued on 11-Nov-2016
- 13 Licence varied by notice 1553824 issued on 02-Aug-2017
- 14 Licence varied by notice 1569129 issued on 10-Dec-2018
- 15 Licence varied by notice 1584343 issued on 21-Aug-2019
- 16 Licence varied by notice 1589483 issued on 03-Feb-2020
- 17 Licence varied by notice 1592500 issued on 02-Apr-2020

Environment Protection Licence

Licence - 7628

Licence Details

Number:	7628
Anniversary Date:	30-June

Licensee

SUEZ RECYCLING & RECOVERY (PORT STEPHENS) PTY LTD

PO BOX 740

RAYMOND TERRACE NSW 2324

Premises

NEWLIN ROAD LANDFILL

330 NEWLINE ROAD

RAYMOND TERRACE NSW 2324

Scheduled Activity

Extractive activities

Waste disposal (application to land)

Waste processing (non-thermal treatment)

Fee Based Activity

Scale

Land-based extractive activity	> 50000-100000 T annual capacity to extract, process or store
Non-thermal treatment of general waste	Any annual processing capacity
Waste disposal by application to land	Any capacity

Region

Regional Waste Compliance

4 Parramatta Square, 12 Darcy Street

PARRAMATTA NSW 2150

Phone: (02) 9995 5000

Fax: (02) 9995 5999

Locked Bag 5022

PARRAMATTA NSW 2124

Environment Protection Licence

Licence - 7628

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Information about this licence

Dictionary

A definition of terms used in the licence can be found in the dictionary at the end of this licence.

Responsibilities of licensee

Separate to the requirements of this licence, general obligations of licensees are set out in the Protection of the Environment Operations Act 1997 ("the Act") and the Regulations made under the Act. These include obligations to:

- ensure persons associated with you comply with this licence, as set out in section 64 of the Act;
- control the pollution of waters and the pollution of air (see for example sections 120 - 132 of the Act);
- report incidents causing or threatening material environmental harm to the environment, as set out in Part 5.7 of the Act.

Variation of licence conditions

The licence holder can apply to vary the conditions of this licence. An application form for this purpose is available from the EPA.

The EPA may also vary the conditions of the licence at any time by written notice without an application being made.

Where a licence has been granted in relation to development which was assessed under the Environmental Planning and Assessment Act 1979 in accordance with the procedures applying to integrated development, the EPA may not impose conditions which are inconsistent with the development consent conditions until the licence is first reviewed under Part 3.6 of the Act.

Duration of licence

This licence will remain in force until the licence is surrendered by the licence holder or until it is suspended or revoked by the EPA or the Minister. A licence may only be surrendered with the written approval of the EPA.

Licence review

The Act requires that the EPA review your licence at least every 5 years after the issue of the licence, as set out in Part 3.6 and Schedule 5 of the Act. You will receive advance notice of the licence review.

Fees and annual return to be sent to the EPA

For each licence fee period you must pay:

- an administrative fee; and
- a load-based fee (if applicable).

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The EPA publication “A Guide to Licensing” contains information about how to calculate your licence fees. The licence requires that an Annual Return, comprising a Statement of Compliance and a summary of any monitoring required by the licence (including the recording of complaints), be submitted to the EPA. The Annual Return must be submitted within 60 days after the end of each reporting period. See condition R1 regarding the Annual Return reporting requirements.

Usually the licence fee period is the same as the reporting period.

Transfer of licence

The licence holder can apply to transfer the licence to another person. An application form for this purpose is available from the EPA.

Public register and access to monitoring data

Part 9.5 of the Act requires the EPA to keep a public register of details and decisions of the EPA in relation to, for example:

- licence applications;
- licence conditions and variations;
- statements of compliance;
- load based licensing information; and
- load reduction agreements.

Under s320 of the Act application can be made to the EPA for access to monitoring data which has been submitted to the EPA by licensees.

This licence is issued to:

SUEZ RECYCLING & RECOVERY (PORT STEPHENS) PTY LTD
PO BOX 740
RAYMOND TERRACE NSW 2324

subject to the conditions which follow.

Environment Protection Licence

Licence - 7628

1 Administrative Conditions

A1 What the licence authorises and regulates

A1.1 This licence authorises the carrying out of the scheduled activities listed below at the premises specified in A2. The activities are listed according to their scheduled activity classification, fee-based activity classification and the scale of the operation.

Unless otherwise further restricted by a condition of this licence, the scale at which the activity is carried out must not exceed the maximum scale specified in this condition.

Scheduled Activity	Fee Based Activity	Scale
Extractive activities	Land-based extractive activity	> 50000 - 100000 T annual capacity to extract, process or store
Waste processing (non-thermal treatment)	Non-thermal treatment of general waste	Any annual processing capacity
Waste disposal (application to land)	Waste disposal by application to land	Any capacity

A2 Premises or plant to which this licence applies

A2.1 The licence applies to the following premises:

Premises Details
NEWLINE ROAD LANDFILL
330 NEWLINE ROAD
RAYMOND TERRACE
NSW 2324
LOT 2 DP 1098770

A3 Information supplied to the EPA

A3.1 Works and activities must be carried out in accordance with the proposal contained in the licence application, except as expressly provided by a condition of this licence.

In this condition the reference to "the licence application" includes a reference to:

- a) the applications for any licences (including former pollution control approvals) which this licence replaces under the Protection of the Environment Operations (Savings and Transitional) Regulation 1998; and
- b) the licence information form provided by the licensee to the EPA to assist the EPA in connection with the issuing of this licence.

A3.2 The document titled 'Raymond Terrace Waste Facility Landfilling Operations - Landfill Environmental

Environment Protection Licence

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Management Plan (LEMP2)' prepared by ERM Australia Pty Ltd, dated December 2001 and any future amendment, and the initial LEMP dated February 1999, is not to be taken as part of the documentation in A3.1, other than those parts specifically referenced in this licence.

A3.3 The document titled "Newline Rd Landfill, EPL No. 7628 - Cell 3 - Design and construction Details" prepared by GHD Pty Ltd and dated 11 October 2011 (Cell Design Report) is not taken as part of the documentation in A3.1, other than in those parts specifically referenced in this licence.

A3.4 The document titled "Sita Australia, Newline Road Landfill, Cell 1, 2 & 3 Cap Design Report, October 2014" prepared by GHD Pty Ltd (Cap Design Report) is not taken as part of the documentation in A3.1, other than those parts specifically referenced in this licence.

EPA reference: DOC14/327657

A3.5 The drawing titled "Typical Well Installation; Drawing No. RE-LFG-001" prepared by Run Energy and dated 19 August 2007 (Gas Well Drawing) is not taken as part of the documentation in A3.1, other than those parts specifically referenced in this licence.

EPA reference: DOC15/123106

A3.6 The document titled "Newline Road Cell 4 Design - Design Basis Memorandum" prepared by GHD Ltd and dated 24 September 2015 is not taken as part of the documentation in A3.1, other than those parts specifically referenced in this licence.

EPA reference: DOC15/381525

2 Discharges to Air and Water and Applications to Land

P1 Location of monitoring/discharge points and areas

P1.1 The following points referred to in the table below are identified in this licence for the purposes of monitoring and/or the setting of limits for the emission of pollutants to the air from the point.

<i>Air</i>			
EPA identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description
5	Air emissions monitoring		Transects across Voids 2, 3 and 4 defined in the "Raymond Terrace Waste Facility Landfilling Operations Landfill Environmental Management Plan" (LEMP2) dated March 2002

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P1.2 The following utilisation areas referred to in the table below are identified in this licence for the purposes of the monitoring and/or the setting of limits for any application of solids or liquids to the utilisation area.

P1.3 The following points referred to in the table are identified in this licence for the purposes of the monitoring and/or the setting of limits for discharges of pollutants to water from the point.

Water and land

EPA Identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description
1	Discharge to waters Discharge quality monitoring	Discharge to waters Discharge quality monitoring	Spillway of "Upper dam" as shown on Figure 3, Consulting Earth Scientists, Soil and Water Management Plan Landfill Void 4 (C1) (ref CES020609-ERM-05-F) dated 13 August 2007.
3	Discharge to waters Discharge quality monitoring	Discharge to waters Discharge quality monitoring	Sedimentation dam at the eastern side of the premises. Samples to be collected from no more than 0.5m from the shoreline of the SEPP 14 Wetland adjacent to this dam.
6	Groundwater quality monitoring		Groundwater bore labelled as MW1 on Figure 01 Monitoring Well Locations - Job No 2119946 - Sep 2010 - Easting 383087 Northing 6377907
7	Groundwater quality monitoring		Groundwater bore labelled as MW2 on Figure 01 Monitoring Well Locations - Job No 2119946 - Sep 2010 - Easting 383622 Northing 6378121
8	Groundwater quality monitoring		Groundwater bore labelled as MW3S on Figure 01 Monitoring Well Locations - Job No 2119946 - Sep 2010 - Easting 382901 Northing 6377959
9	Groundwater quality monitoring		Groundwater bore labelled as MW3D on Figure 01 Monitoring Well Locations - Job No 2119946 - Sep 2010 - Easting 382914 Northing 6377959
11	Groundwater quality monitoring		Groundwater bore labelled as MWAon Figure 01 Monitoring Well Locations - Job No 2119946 - Sep 2010 - Easting 383174 Northing 637758

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12	Groundwater quality monitoring		Groundwater bore labelled as MW6 on Figure 01 Monitoring Well Locations - Job No 2119946 - Sep 2010 - Easting 383400 Northing 6377815
14	Groundwater quality monitoring		Groundwater bore labelled as MWB on Figure 01 Monitoring Well Locations - Job No 2119946 - Sep 2010 - Easting 383366 Northing 6377860
18	Groundwater quality monitoring		Groundwater bore labelled as MW12 on Figure 01 Monitoring Well Locations - Job No 2119946 - Sep 2010 - Easting 383175 Northing 6377759
19	Groundwater quality monitoring		Groundwater bore labelled as MW13 on Figure 01 Monitoring Well Locations - Job No 2119946 - Sep 2010 - Easting 382981 Northing 6377690
20	Groundwater quality monitoring		Groundwater bore labelled as MW14 on Figure 01 Monitoring Well Locations - Job No 2119946 - Sep 2010 - Easting 383365 Northing 6377861
21	Groundwater quality monitoring		Groundwater bore labelled as MW15 on Figure 01 Monitoring Well Locations - Job No 2119946 - Sep 2010 - Easting 383374 Northing 6377847
26	Leachate quality monitoring		Leachate holding dam is located at Easting: 382830.096 and Northing: 6377942.625; and is referenced by Point 29 in Contour Map for "SITA Australia PTY LTD" - Raymond Terrace - 15 June 2012 (Reference No: 31636).
27	Groundwater Monitoring		Groundwater Bore labelled as MWD on Figure 01 Monitoring Well Locations - Job No 2119946 - Sep 2010 - Easting 382642 Northing 6377790
28	Groundwater Monitoring		Groundwater bore labelled as MWC on Figure 01 Monitoring Well Locations - Job No 2119946 - Sep 2010 - Easting 383536 Northing 6377968
29	Discharge to waters Discharge quality monitoring	Discharge to waters Discharge quality monitoring	Point marked "new surface water discharge point" on aerial photograph provided to the EPA on 13 March 2009



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3 Limit Conditions

L1 Pollution of waters

L1.1 Except as may be expressly provided in any other condition of this licence, the licensee must comply with section 120 of the Protection of the Environment Operations Act 1997.

L2 Concentration limits

L2.1 For each monitoring/discharge point or utilisation area specified in the table\ below (by a point number), the concentration of a pollutant discharged at that point, or applied to that area, must not exceed the concentration limits specified for that pollutant in the table.

L2.2 Where a pH quality limit is specified in the table, the specified percentage of samples must be within the specified ranges.

L2.3 To avoid any doubt, this condition does not authorise the pollution of waters by any pollutant other than those specified in the table\.

L2.4 Water and/or Land Concentration Limits

POINT 1,3,29

Pollutant	Units of Measure	50 percentile concentration limit	90 percentile concentration limit	3DGM concentration limit	100 percentile concentration limit
Ammonia	milligrams per litre				1
BOD	milligrams per litre				20
Conductivity	microsiemens per centimetre				1500
pH	pH				6.5-8.5
Total suspended solids	milligrams per litre				50

L2.5 Whenever a wet weather overflow is occurring due to rainfall events greater than or equal to 1 in 2 year 1 hour duration storm event, stormwater is permitted to be discharged at the following points for the duration of the overflow: Point 1, Point 3 and Point 29.

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L3 Volume and mass limits

- L3.1 The licensee must not dispose of any tyres on the premises unless:
- The tyre has a diameter of 1.2 metres or more; and/or
 - The tyre has been shredded or had its walls removed; and/or
 - The tyre was delivered to the premises as part of a domestic load; and
 - The tyre became waste outside of the Sydney Metropolitan Area.

For the purposes of this condition:

- Tyres are taken to be shredded only if the tyres are in pieces measuring no more than 250mm in any direction; and
- Domestic load means a load containing no more than 5 tyres having a diameter of less than 1.2 metres.

L4 Waste

- L4.1 The licensee must not cause, permit or allow any waste to be received at the premises, except the wastes expressly referred to in the column titled "Waste" and meeting the definition, if any, in the column titled "Description" in the table below.

Any waste received at the premises must only be used for the activities referred to in relation to that waste in the column titled "Activity" in the table below.

Any waste received at the premises is subject to those limits or conditions, if any, referred to in relation to that waste contained in the column titled "Other Limits" in the table below.

This condition does not limit any other conditions in this licence.

Code	Waste	Description	Activity	Other Limits
NA	General solid waste (non-putrescible)	Wastes assessed as General Solid Waste (non-putrescible) which are also subject to general or specific immobilisation approvals which have a restriction that they may only be disposed of at waste facilities which have currently operating leachate collection systems.	Waste disposal (application to land)	The total tonnage of waste disposed of at the premises must not exceed 250,000 tonnes/per annum
NA	General solid waste (non-putrescible)	As defined in Schedule 1 of the POEO Act, as in force from time to time	Waste disposal (application to land) Waste processing (non-thermal treatment)	The total tonnage of waste disposed of at the premises must not exceed 250,000 tonnes/per annum
NA	Asbestos waste	As defined in Schedule	Waste disposal	The total tonnage

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	1 of the POEO Act, as in force from time to time	(application to land)	of waste disposed of at the premises must not exceed 250,000 tonnes/per annum
--	--------------------------------------------------	-----------------------	-------------------------------------------------------------------------------

- L4.2 This Licence authorises the emplacement of waste materials into Void 4 Cell 1, Void 4 Cell 2 and Void 4 Cell 3 only.
- L4.3 The emplacement of waste into Void 4, Cell 4 is permitted only after separation geotextile has been installed over the leachate drainage aggregate, in accordance with condition L4.5.
- L4.4 The leachate pond spillway marked on drawing 41-24206-C210 (referenced in "*Report for Newline Landfill Leachate Pond - Construction Quality Assurance Report, June 2012*"), is not to be used for the discharge of leachate at any time, unless being discharged into a suitably lined approved landfill cell with adequate leachate collection infrastructure.
- L4.5 The licence authorises the construction of Void 4, Cell 4. Void 4, Cell 4 must be installed in accordance with the design specifications submitted to the EPA in the plans titled "Newline Road Cell 4 Design - Design Basis Memorandum" by GHD Ltd dated 24.09.15
- L4.6 Notwithstanding any limit specified in the above table, 75,000 tonnes of waste generated as a result of bushfires during the 2019-2020 NSW Bush Fire Danger Period may be received at the premises for disposal by application to land. The licensee must keep accurate records of all waste received under this condition.

L5 Noise limits

Note: The NSW Industrial Noise Policy - the document titled "New South Wales Industrial Noise Policy published by the Environment Protection Authority in January 2000"

- L5.1 Noise generated at the Premises must not exceed the noise limits in the table below:

NOISE LIMITS dB(A)

Location	Day - LAeq (15 minute)	Evening - LAeq (15 minute)	Morning Shoulder LAeq (15 minute)	Morning Shoulder LAeq (1 minute)
362 Newline Road, Raymond Terrace	38	38	37	45
24 Newline Road	44	44	42	47
33 Dalyell Way, Raymond Terrace	44	44	42	47

- L5.2 For the purpose of Condition L5.1

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- Day is defined as the period from 7am to 6pm Monday - Saturday, and 8am to 6pm Sunday and Public Holidays;
- Evening is defined as the period 6pm to 10pm; and
- Morning Shoulder is defined as the period from 5am to 7am Monday - Saturday, and 5am to 8am Sunday and Public Holidays.

L5.3 The noise limits set out in Condition L5.1 apply under all meteorological conditions except for the following:

1. Wind speeds greater than 3 metres/second at 10 metres above ground level;
2. Stability category F temperature inversion conditions and wind speeds greater than 2 metres/second at 10 metres above ground level; or
3. Stability category G temperature inversion conditions.

L5.4 For the purpose of Condition L5.3:

1. Data recorded by a meteorological station installed on site must be used to determine meteorological conditions; and
2. Temperature inversion conditions (stability category) are to be determined by the sigma-theta method referred to in Part E4 of Appendix E to the NSW Industrial Noise Policy.

L5.5 To determine compliance:

1. With the Leq (15 minute) noise limits in Condition L5.1, the noise measurement equipment must be located:
 - Approximately on the property boundary, where any dwelling is situated 30 metres or less from the property boundary closest to the premises; or
 - Within 30 metres of a dwelling facade, but not closer than 3 metres, where any dwelling on the property is situated more than 30 metres from the property boundary closest to the premises; or, (where applicable)
 - Within approximately 50 metres of the boundary of a National Park or a Nature Reserve.
2. With the LA1(1 minute) noise limits in Condition L5.1, the noise measurement equipment must be located within 1 metre of a dwelling facade;
3. With the noise limits in Condition L5.1, the noise measurement equipment must be located:
 - At the most affected point at a location where there is no dwelling at the location; or
 - At the most affected point within an area at a location prescribed by Conditions L5.5, 1) or L5.5, 2)

L5.6 A non-compliance of Condition L5.1 will still occur where noise generated from the premises in excess of

Environment Protection Licence

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the appropriate limit is measured:

- At a location other than an area prescribed by Conditions L5.5, a) and L5.5, b); and/or
- At a point other than the most affected point at that location.

L5.7 For the purposes of determining the noise generated at the premises the modification factors in Section 4 of the NSW Industrial Noise Policy must be applied, as appropriate, to the noise levels measured by the noise monitoring equipment.

Note: 'Noise' is defined as sound pressure levels, for the purposes of Condition L5.1 to L5.7.

L6 Hours of operation

L6.1 All work at the premises must be conducted between the following hours. No work may be conducted outside these times:

- a) Landfill operations (including deliveries to the premises) can take place during:
 - i) 6am to 10pm – Monday to Friday (except public holidays);
 - ii) 6am to 7pm – Saturday, Sunday and public holidays;
- b) Rock crushing and/or grinding can take place during:
 - i) 7am to 6pm – Monday to Friday (except public holidays);
 - ii) 8am to 6pm – Saturday, Sunday and public holidays;

L7 Potentially offensive odour

L7.1 No condition of this licence identifies a potentially offensive odour for the purposes of section 129 of the Protection of the Environment Operations Act 1997.

Note: Section 129 of the Protection of the Environment Operations Act 1997, provides that the licensee must not cause or permit the emission of any offensive odour from the premises but provides a defence if the emission is identified in the relevant environment protection licence as a potentially offensive odour and the odour was emitted in accordance with the conditions of a licence directed at minimising odour.

4 Operating Conditions

O1 Activities must be carried out in a competent manner

O1.1 Licensed activities must be carried out in a competent manner.

This includes:

- a) the processing, handling, movement and storage of materials and substances used to carry out the activity; and
- b) the treatment, storage, processing, reprocessing, transport and disposal of waste generated by the activity.

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O2 Maintenance of plant and equipment

- O2.1 All plant and equipment installed at the premises or used in connection with the licensed activity:
- a) must be maintained in a proper and efficient condition; and
 - b) must be operated in a proper and efficient manner.

O3 Dust

- O3.1 All operations and activities occurring at the premises must be carried out in a manner that will minimise the emission of dust from the premises.

O4 Emergency response

- O4.1 The licensee must complete a weekly inspection of the landfilled waste mass looking for fissures in the cover, subsidence, smoke/steam, blackened vegetation and other potential indications of landfill fire and record and rectify any instances.

O5 Processes and management

- O5.1 The licensee must ensure that any liquid and/or non-liquid waste generated and/or stored and/or treated and/or processed and/or reprocessed and/or disposed at the premises is assessed and classified in accordance with the DECC Waste Classification Guidelines as in force from time to time.
- O5.2 The sedimentation dams identified in the Soil and Water Management Plan prepared by Consulting Earth Scientists, dated 13 August 2007 must be maintained to ensure that their design capacity is available for the storage of stormwater.

O6 Waste management

- O6.1 **Recyclable waste.**
The licensee must ensure that waste identified for recycling is stored separately from other waste.
- O6.2 **Closure Plan.**
The last licensee must prepare and submit to the EPA within twelve months prior to the last load of waste being landfilled a closure plan in accordance with section 76 of the Protection of the Environment Operations Act 1997.
- O6.3 A leachate collection system and leachate conveyance system must be installed on each surface within the premises to be used for the disposal of waste.
- O6.4 Water that comes into contact with waste, including within any cells in the area known as Void 4, must be managed as leachate.

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O6.5 Leachate generated at the premises may only be disposed of in the following ways:

- a) Irrigation onto the active tipping face;
- b) Re-injection into landfilled waste;
- c) Evaporated from the leachate collection pond;
- d) Lawfully transported off-site to a facility lawfully permitted to receive leachate.

O6.6 **Construction of future landfill cells.**

The licensee must obtain approval from the EPA prior to constructing any landfill cells at the premises.

O6.7 The licensee must provide a report to the EPA which details the design, construction, operation and rehabilitation of any new landfill cell. This report must be submitted to the EPA at least three months before the Licensee intends to construct the cell.

O6.8 The Licensee is required to submit to the EPA a construction quality assurance (CQA) report, to be approved prior to filling in any new waste cell.

O6.9 **Management of Surface Waters.**

Surface drainage must be diverted away from any area where waste is being or has been landfilled.

O6.10 **Site Management**

There must be no incineration or burning of any waste at the premises.

O6.11 **Screening of waste.**

The licensee must have in place and implement procedures to identify and prevent the disposal of any waste not permitted by this licence to be disposed of at the premises.

O6.12 **Covering of waste.**

Daily cover material must be either virgin excavated natural material (VENM) or approved alternative daily cover (ADC).

(a) VENM must be applied as follows:

i) Daily cover

Cover material must be applied to a minimum depth of 15 centimetres over all exposed landfilled waste prior to ceasing operations at the end of each day.

ii) Intermediate cover

Cover material must be applied to a depth of 30 centimetres over surfaces of the landfilled waste at the premises which are to be exposed for more than 90 days.

(b) Cover material stockpile

At least two weeks cover material must be available at the premises under all weather conditions. This material may be won on site, or alternatively a cover stockpile must be maintained adjacent to the tip face.

(c) For the purposes of this condition the approved ADC is "Concover" or "Tarparmor" tarpaulin system that achieves the Required Outcomes specified in Chapter 8 (Covering of waste) of the NSW EPA's Environmental Guidelines : Solid Waste landfills (2016).

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O6.13 Asbestos waste disposed of at the site must be covered:

1. initially (at the time of disposal) with either virgin excavated natural material to a depth of 0.15 metre, or with general solid waste as alternative daily cover (ADC) to a depth of 0.5 metre; and
2. at the end of each day's operation, with virgin excavated natural material to a depth of 0.5 metre, or general solid waste as alternative daily cover (ADC) to a depth of at least 1 metre; and
3. in a location which is separate from the general tipping face.

O6.14 The landfill machinery must not push asbestos waste with the blade until the waste is damp and there is a barrier of other waste in place between the asbestos waste and the blade.

O6.15 Completion of landfill cells

The Licensee must ensure that the landfill cells are capped in progressively and in accordance with Benchmark Technique 28 in the EPA's Solid Waste Guidelines 1996 (or an alternative of equal environmental performance approved in writing by the EPA.)

O6.16 Final capping must be completed in accordance with the Cap Design Report. Specifically, final capping must comprise of the following, as a minimum:

- 1 - A seal bearing surface composed of 300mm of VENM or ENM;
- 2 - A sealing layer composed of 400mm compacted clay liner having a permeability of 10^{-9} metres per second; and
- 3 - A 500mm deep revegetation layer, with select grasses, at minimum.

O6.17 Tracking of mud and waste

The licensee must minimise the tracking of waste and mud from the premises by vehicles.

O6.18 Stockpiling of potentially unstable self heating waste

The licensee must not stockpile potentially unstable self-heating wastes on the landfill surface.

O6.19 Spreading of incoming waste (fluff).

The licensee must spread incoming waste material in particular the waste referred to as "fluff generated at the adjacent Bedminster Composting Facility" at a depth of no greater than 200mm across the tipping face to ensure that excessive heating does not occur.

O6.20 Fire fighting capability

The licensee must have adequate fire prevention measures in place, and ensure that facility personnel are able to access fire-fighting equipment and manage fire outbreaks at the premises.

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O6.21 Immobilised Waste Management

The Licensee must manage any immobilised waste brought onto the Premises in a manner that ensures that it continues to meet the criteria described for General Solid Waste (non-putrescible) in accordance with the EPA's *Waste Classification Guidelines 2008*.

O6.22 The Licensee must not dispose of immobilised waste within 4 metres of the final landfill surface.

O6.23 The licensee must ensure that drummed immobilised waste(s) are not crushed and/or compacted.

O6.24 The licensee must install an active gas extraction system in the landfill in accordance with the Gas Well Drawing.

The gas extractive system must comprise:

- Pipework to collect gas;
- Drainage gravel aggregate; and
- Clay compaction and plug.

O6.25 The licensee must install a bench lining system - leachate barrier system in accordance with drawing 41-24206-C108 Revision 2, Void 4 - Solid Waste Cell 3, Typical Details and Sections dated 27/03/2014, Sheet 1 of 4 only, EPA Reference Doc15/305884.

The bench lining system must comprise:

- Geosynthetic clay liner;
- Select confining layer;
- Non woven separation geotextile; and
- Drainage aggregate

O6.26 The licensee must install a basal lining system - leachate barrier system in accordance with drawing 22-17869-C020, Void 4, Cell 4, Typical Details and Sections Sheet 1 dated 25 September 2015.

The basal liner must comprise:

- Geosynthetic Clay liner;
- High-Density Polyethylene 2.0mm geomembrane;
- Non woven separation geotextile;

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- Pipework to collect leachate;
- 300mm drainage aggregate; and
- Non woven separation geotextile.

O6.27 The Licensee must install a bench lining system and leachate barrier system for Void 4, Cell 4 in accordance with drawing 22-17869-C020, dated 7/12/2015, for Typical Bench Lining Detail. The bench lining and leachate barrier system must comprise of (top to bottom):

1. non woven protection separation geotextile layer;
2. 100mm confining clay layer;
3. geosynthetic clay liner
4. non woven protection geosynthetic geotextile layer; and
5. 300mm drainage aggregate.

O7 Other operating conditions

Extractive Activities

- O7.1 Blasting at the Premises is to be done in accordance with the Statement of Environmental Effects undertaken by Environmental Resources Management, titled "*Raymond Terrace Landfill, Cell 5 Blasting - 21 March 2019 (Project 0450875 Version F01)*".
- O7.2 A maximum of five (5) blast events per year over a period of 24 months are to occur at the Premises.
- O7.3 A Maximum Instantaneous Charge size of no greater than 85 kilograms can be used whilst blasting at the Premises.

5 Monitoring and Recording Conditions

M1 Monitoring records

- M1.1 The results of any monitoring required to be conducted by this licence or a load calculation protocol must be recorded and retained as set out in this condition.
- M1.2 All records required to be kept by this licence must be:
- a) in a legible form, or in a form that can readily be reduced to a legible form;
 - b) kept for at least 4 years after the monitoring or event to which they relate took place; and
 - c) produced in a legible form to any authorised officer of the EPA who asks to see them.

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M1.3 The following records must be kept in respect of any samples required to be collected for the purposes of this licence:

- a) the date(s) on which the sample was taken;
- b) the time(s) at which the sample was collected;
- c) the point at which the sample was taken; and
- d) the name of the person who collected the sample.

M2 Requirement to monitor concentration of pollutants discharged

M2.1 For each monitoring/discharge point or utilisation area specified below (by a point number), the licensee must monitor (by sampling and obtaining results by analysis) the concentration of each pollutant specified in Column 1. The licensee must use the sampling method, units of measure, and sample at the frequency, specified opposite in the other columns:

M2.2 Air Monitoring Requirements

POINT 5

Pollutant	Units of measure	Frequency	Sampling Method
Carbon dioxide	percent by volume	Quarterly	Special Method 1
Methane	percent by volume	Quarterly	Special Method 1
Oxygen (O ₂)	percent by volume	Quarterly	Special Method 1

M2.3 Water and/ or Land Monitoring Requirements

POINT 1,3,29

Pollutant	Units of measure	Frequency	Sampling Method
Ammonia	milligrams per litre	Quarterly	Grab sample
Biochemical oxygen demand	milligrams per litre	Quarterly	Grab sample
Conductivity	milligrams per litre	Quarterly	Grab sample
pH	-	Quarterly	Grab sample
Total suspended solids	milligrams per litre	Quarterly	Grab sample

POINT 6,7,8,9,11,12,14,18,19,20,21

Pollutant	Units of measure	Frequency	Sampling Method
Alkalinity (as calcium carbonate)	milligrams of calcium carbonate per litre	Quarterly	Grab sample

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Aluminium	milligrams per litre	Yearly	Grab sample
Ammonia	milligrams per litre	Quarterly	Grab sample
Arsenic	milligrams per litre	Yearly	Grab sample
Barium	milligrams per litre	Yearly	Grab sample
Benzene	milligrams per litre	Yearly	Grab sample
Biochemical oxygen demand	milligrams per litre	Yearly	Grab sample
Cadmium	milligrams per litre	Yearly	Grab sample
Calcium	milligrams per litre	Quarterly	Grab sample
Chloride	milligrams per litre	Quarterly	Grab sample
Chromium (hexavalent)	milligrams per litre	Yearly	Grab sample
Chromium (total)	milligrams per litre	Yearly	Grab sample
Cobalt	milligrams per litre	Yearly	Grab sample
Conductivity	microsiemens per centimetre	Quarterly	A probe designed to measure the range 0 to 10,000 uS/cm
Copper	milligrams per litre	Yearly	Grab sample
Ethyl benzene	milligrams per litre	Yearly	Grab sample
Fluoride	milligrams per litre	Yearly	Grab sample
Iron	milligrams per litre	Quarterly	Grab sample
Lead	milligrams per litre	Yearly	Grab sample
Magnesium	milligrams per litre	Quarterly	Grab sample
Manganese	milligrams per litre	Yearly	Grab sample
Mercury	milligrams per litre	Yearly	Grab sample
Nitrate + nitrite (oxidised nitrogen)	milligrams per litre	Quarterly	Grab sample
Organochlorine pesticides	milligrams per litre	Yearly	Grab sample
Organophosphate pesticides	milligrams per litre	Yearly	Grab sample
pH	pH	Quarterly	Grab sample
Polycyclic aromatic hydrocarbons	milligrams per litre	Yearly	Grab sample
Potassium	milligrams per litre	Quarterly	Grab sample
Sodium	milligrams per litre	Quarterly	Grab sample
Standing Water Level	metres	Quarterly	In situ
Sulfate	milligrams per litre	Quarterly	Grab sample
Toluene	milligrams per litre	Yearly	Grab sample
Total dissolved solids	milligrams per litre	Quarterly	Grab sample
Total organic carbon	milligrams per litre	Quarterly	Grab sample
Total petroleum hydrocarbons	milligrams per litre	Yearly	Grab sample
Total Phenolics	milligrams per litre	Yearly	Grab sample
Zinc	milligrams per litre	Yearly	Grab sample

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POINT 26

Pollutant	Units of measure	Frequency	Sampling Method
Alkalinity (as calcium carbonate)	milligrams per litre	Yearly	Grab sample
Aluminium	milligrams per litre	Yearly	Grab sample
Ammonia	milligrams per litre	Yearly	Grab sample
Arsenic	milligrams per litre	Yearly	Grab sample
Barium	milligrams per litre	Yearly	Grab sample
Benzene	milligrams per litre	Yearly	Grab sample
Cadmium	milligrams per litre	Yearly	Grab sample
Calcium	milligrams per litre	Yearly	Grab sample
Chloride	milligrams per litre	Yearly	Grab sample
Chromium (hexavalent)	milligrams per litre	Yearly	Grab sample
Chromium (total)	milligrams per litre	Yearly	Grab sample
Cobalt	milligrams per litre	Yearly	Grab sample
Conductivity	microsiemens per centimetre	Yearly	Grab sample
Copper	milligrams per litre	Yearly	Grab sample
Ethyl benzene	milligrams per litre	Yearly	Grab sample
Fluoride	milligrams per litre	Yearly	Grab sample
Iron	milligrams per litre	Yearly	Grab sample
Magnesium	milligrams per litre	Yearly	Grab sample
Manganese	milligrams per litre	Yearly	Grab sample
Mercury	milligrams per litre	Yearly	Grab sample
Nitrate + nitrite (oxidised nitrogen)	milligrams per litre	Yearly	Grab sample
Organochlorine pesticides	milligrams per litre	Yearly	Grab sample
Organophosphate pesticides	milligrams per litre	Yearly	Grab sample
pH	pH	Yearly	Grab sample
Polycyclic aromatic hydrocarbons	milligrams per litre	Yearly	Grab sample
Potassium	milligrams per litre	Yearly	Grab sample
Sodium	milligrams per litre	Yearly	Grab sample
Sulfate	milligrams per litre	Yearly	Grab sample
Toluene	milligrams per litre	Yearly	Grab sample
Total dissolved solids	milligrams per litre	Yearly	Grab sample
Total organic carbon	milligrams per litre	Yearly	Grab sample
Total petroleum hydrocarbons	milligrams per litre	Yearly	Grab sample
Total Phenolics	milligrams per litre	Yearly	Grab sample
Zinc	milligrams per litre	Yearly	Grab sample

POINT 27,28

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Pollutant	Units of measure	Frequency	Sampling Method
Alkalinity (as calcium carbonate)	milligrams per litre	Quarterly	Grab sample
Aluminium	milligrams per litre	Yearly	Grab sample
Ammonia	milligrams per litre	Quarterly	Grab sample
Arsenic	milligrams per litre	Yearly	Grab sample
Barium	milligrams per litre	Yearly	Grab sample
Benzene	milligrams per litre	Yearly	Grab sample
Biochemical oxygen demand	milligrams per litre	Yearly	Grab sample
Cadmium	milligrams per litre	Yearly	Grab sample
Calcium	milligrams per litre	Quarterly	Grab sample
Chloride	milligrams per litre	Quarterly	Grab sample
Chromium (hexavalent)	milligrams per litre	Yearly	Grab sample
Chromium (total)	milligrams per litre	Yearly	Grab sample
Cobalt	milligrams per litre	Yearly	Grab sample
Conductivity	milligrams per litre	Quarterly	A probe designed to measure the range 0 to 10,000 uS/cm
Copper	milligrams per litre	Yearly	Grab sample
Ethyl benzene	milligrams per litre	Yearly	Grab sample
Fluoride	milligrams per litre	Yearly	Grab sample
Iron	milligrams per litre	Quarterly	Grab sample
Lead	milligrams per litre	Yearly	Grab sample
Magnesium	milligrams per litre	Quarterly	Grab sample
Manganese	milligrams per litre	Yearly	Grab sample
Mercury	milligrams per litre	Yearly	Grab sample
Nitrate + nitrite (oxidised nitrogen)	milligrams per litre	Quarterly	Grab sample
Organochlorine pesticides	milligrams per litre	Yearly	Grab sample
Organophosphate pesticides	milligrams per litre	Yearly	Grab sample
pH	pH	Quarterly	Grab sample
Polycyclic aromatic hydrocarbons	milligrams per litre	Yearly	Grab sample
Potassium	milligrams per litre	Quarterly	Grab sample
Sodium	milligrams per litre	Quarterly	Grab sample
Standing Water Level	metres	Quarterly	In situ
Sulfate	milligrams per litre	Quarterly	Grab sample
Toluene	milligrams per litre	Yearly	Grab sample
Total dissolved solids	milligrams per litre	Quarterly	Grab sample
Total organic carbon	milligrams per litre	Quarterly	Grab sample
Total petroleum hydrocarbons	milligrams per litre	Yearly	Grab sample

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Total Phenolics	milligrams per litre	Yearly	Grab sample
Zinc	milligrams per litre	Yearly	Grab sample

M2.4 For the purposes of the table above, "Special Method 1" means in accordance with the methods outlined in Benchmark 17 of EPA (1996) Environmental Guidelines: Solid Waste Landfill.

M3 Testing methods - concentration limits

M3.1 Monitoring for the concentration of a pollutant emitted to the air required to be conducted by this licence must be done in accordance with:

- any methodology which is required by or under the Act to be used for the testing of the concentration of the pollutant; or
- if no such requirement is imposed by or under the Act, any methodology which a condition of this licence requires to be used for that testing; or
- if no such requirement is imposed by or under the Act or by a condition of this licence, any methodology approved in writing by the EPA for the purposes of that testing prior to the testing taking place.

M3.2 Subject to any express provision to the contrary in this licence, monitoring for the concentration of a pollutant discharged to waters or applied to a utilisation area must be done in accordance with the Approved Methods Publication unless another method has been approved by the EPA in writing before any tests are conducted.

Note: The *Protection of the Environment Operations (Clean Air) Regulation 2010* requires testing for certain purposes to be conducted in accordance with test methods contained in the publication "Approved Methods for the Sampling and Analysis of Air Pollutants in NSW".

M4 Recording of pollution complaints

M4.1 The licensee must keep a legible record of all complaints made to the licensee or any employee or agent of the licensee in relation to pollution arising from any activity to which this licence applies.

M4.2 The record must include details of the following:

- the date and time of the complaint;
- the method by which the complaint was made;
- any personal details of the complainant which were provided by the complainant or, if no such details were provided, a note to that effect;
- the nature of the complaint;
- the action taken by the licensee in relation to the complaint, including any follow-up contact with the complainant; and
- if no action was taken by the licensee, the reasons why no action was taken.

M4.3 The record of a complaint must be kept for at least 4 years after the complaint was made.

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M4.4 The record must be produced to any authorised officer of the EPA who asks to see them.

M5 Telephone complaints line

M5.1 The licensee must operate during its operating hours a telephone complaints line for the purpose of receiving any complaints from members of the public in relation to activities conducted at the premises or by the vehicle or mobile plant, unless otherwise specified in the licence.

M5.2 The licensee must notify the public of the complaints line telephone number and the fact that it is a complaints line so that the impacted community knows how to make a complaint.

M5.3 The preceding two conditions do not apply until 3 months after: the date of the issue of this licence.

M6 Noise monitoring

M6.1 To assess compliance with Condition L5.1, attended noise monitoring must be undertaken in accordance with Condition L5.5 and:

1. At each one of the locations listed in L5.1;
2. Occur annually in a reporting period;
3. Occur during each day, evening and night period as defined in the NSW Industrial Noise Policy for a minimum of:
 - 1.5 hours during the day;
 - 30 minutes during the evening; and
 - 1 hour during the night.
4. Occur for three consecutive operating days.

6 Reporting Conditions

R1 Annual return documents

R1.1 The licensee must complete and supply to the EPA an Annual Return in the approved form comprising:

1. a Statement of Compliance,
2. a Monitoring and Complaints Summary,
3. a Statement of Compliance - Licence Conditions,
4. a Statement of Compliance - Load based Fee,
5. a Statement of Compliance - Requirement to Prepare Pollution Incident Response Management Plan,
6. a Statement of Compliance - Requirement to Publish Pollution Monitoring Data; and
7. a Statement of Compliance - Environmental Management Systems and Practices.

At the end of each reporting period, the EPA will provide to the licensee a copy of the form that must be

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completed and returned to the EPA.

- R1.2 An Annual Return must be prepared in respect of each reporting period, except as provided below.
- R1.3 Where this licence is transferred from the licensee to a new licensee:
- a) the transferring licensee must prepare an Annual Return for the period commencing on the first day of the reporting period and ending on the date the application for the transfer of the licence to the new licensee is granted; and
 - b) the new licensee must prepare an Annual Return for the period commencing on the date the application for the transfer of the licence is granted and ending on the last day of the reporting period.
- R1.4 Where this licence is surrendered by the licensee or revoked by the EPA or Minister, the licensee must prepare an Annual Return in respect of the period commencing on the first day of the reporting period and ending on:
- a) in relation to the surrender of a licence - the date when notice in writing of approval of the surrender is given; or
 - b) in relation to the revocation of the licence - the date from which notice revoking the licence operates.
- R1.5 The Annual Return for the reporting period must be supplied to the EPA via eConnect *EPA* or by registered post not later than 60 days after the end of each reporting period or in the case of a transferring licence not later than 60 days after the date the transfer was granted (the 'due date').
- R1.6 The licensee must retain a copy of the Annual Return supplied to the EPA for a period of at least 4 years after the Annual Return was due to be supplied to the EPA.
- R1.7 Within the Annual Return, the Statements of Compliance must be certified and the Monitoring and Complaints Summary must be signed by:
- a) the licence holder; or
 - b) by a person approved in writing by the EPA to sign on behalf of the licence holder.

Note: The term "reporting period" is defined in the dictionary at the end of this licence. Do not complete the Annual Return until after the end of the reporting period.

Note: An application to transfer a licence must be made in the approved form for this purpose.

R2 Notification of environmental harm

- R2.1 Notifications must be made by telephoning the Environment Line service on 131 555.
- R2.2 The licensee must provide written details of the notification to the EPA within 7 days of the date on which the incident occurred.
- R2.3 Whenever leachate is discharged to surface waters from the premises the licensee must notify the event to the EPA in accordance with condition R2.
- R2.4 The licensee must provide written details of any leachate discharge(s) to the EPA within 7 days of the date on which the incident occurred in accordance with R2.5.

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- R2.5 The written details referred to in the above condition must be provided as a report. The report must include the following information:
- a) the volume of the leachate discharged and over what time period the discharge occurred;
 - b) the date and time of the commencement of the overflow;
 - c) the weather conditions at the time of the discharge, specifying the amount of rainfall on a daily basis that had fallen:
 - i) on the day(s) of the discharge; and
 - ii) for the one week period prior to the discharge.
 - d) the most recent monitoring results of the chemical composition of the leachate;
 - e) an explanation as to why the discharge occurred;
 - f) the location(s) of the discharge;
 - g) a plan of action to prevent a similar discharge in the future; and
 - h) was the discharge permitted by this licence.

- R2.6 The licensee must notify the EPA within 24 hours in accordance with condition R2.1 if subsurface monitoring detects methane above 1.25% (v/v), and increase the frequency of monitoring to daily, until the EPA determines otherwise.

Note: The licensee or its employees must notify all relevant authorities of incidents causing or threatening material harm to the environment immediately after the person becomes aware of the incident in accordance with the requirements of Part 5.7 of the Act.

R3 Written report

- R3.1 Where an authorised officer of the EPA suspects on reasonable grounds that:
- a) where this licence applies to premises, an event has occurred at the premises; or
 - b) where this licence applies to vehicles or mobile plant, an event has occurred in connection with the carrying out of the activities authorised by this licence,
- and the event has caused, is causing or is likely to cause material harm to the environment (whether the harm occurs on or off premises to which the licence applies), the authorised officer may request a written report of the event.
- R3.2 The licensee must make all reasonable inquiries in relation to the event and supply the report to the EPA within such time as may be specified in the request.
- R3.3 The request may require a report which includes any or all of the following information:
- a) the cause, time and duration of the event;
 - b) the type, volume and concentration of every pollutant discharged as a result of the event;
 - c) the name, address and business hours telephone number of employees or agents of the licensee, or a specified class of them, who witnessed the event;
 - d) the name, address and business hours telephone number of every other person (of whom the licensee is aware) who witnessed the event, unless the licensee has been unable to obtain that information after making reasonable effort;
 - e) action taken by the licensee in relation to the event, including any follow-up contact with any complainants;
 - f) details of any measure taken or proposed to be taken to prevent or mitigate against a recurrence of such an event; and
 - g) any other relevant matters.

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- R3.4 The EPA may make a written request for further details in relation to any of the above matters if it is not satisfied with the report provided by the licensee. The licensee must provide such further details to the EPA within the time specified in the request.

R4 Other reporting conditions

- R4.1 The licensee must maintain a daily log and record the following data of fires at the site:
- a) Time and date when the fire was deliberately started or reported.
 - b) Whether the fire was authorised by the licensee, and, if not, the circumstances which ignited the fire.
 - c) The time and date that the fire ceased and whether it burnt out or was extinguished.
 - d) The location of fire (eg. clean timber stockpile, putrescible garbage cell, etc).
 - e) Prevailing weather conditions.
 - f) Observations made in regard to smoke direction and dispersion.
 - g) The amount of waste that was combusted by the fire.
 - h) Action taken to extinguish the fire.
- R4.2 The licensee or its employees or agents must notify the EPA in accordance with conditions R2.1 and R2.2 of all fires at the premises as soon as practical after becoming aware of the incident.
- R4.3 A noise compliance assessment report must be submitted to the EPA within 30 days of the completion of the yearly monitoring. The assessment must be prepared by a suitably qualified and accoustical consultant and include:
- 1. An assessment of compliance with noise limits presented in Condition L5.1; and
 - 2. An outline of any management actions taken within the monitoring period to address any exceedences of the limits contained in Condition L5.1

7 General Conditions

G1 Copy of licence kept at the premises or plant

- G1.1 A copy of this licence must be kept at the premises to which the licence applies.
- G1.2 The licence must be produced to any authorised officer of the EPA who asks to see it.
- G1.3 The licence must be available for inspection by any employee or agent of the licensee working at the premises.

8 Special Conditions

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E1 Financial assurance

- E1.1 A financial assurance, in favour of the EPA, in the form of an irrevocable and unconditional guarantee from a bank, building society or credit union to the amount of \$500 000 must be provided to the EPA by 4 November 2009 and maintained during the operation of the facility as defined in condition A1.4 of this licence, and thereafter until such time as the EPA is satisfied the premises is environmentally secure.

This assurance must be replenished to the full amount should the EPA have any reason to call up the financial assurance or any part thereof to correct environmental problems which have not been remedied by the occupier upon being given notice to do so.

The financial assurance shall be indexed to the Consumer Price Index (CPI). The EPA reserves the right to vary the magnitude of the bank guarantee at any time depending upon any reassessment of possible cost(s) of rehabilitation of the premises.

- E1.2 The licensee must provide to the EPA within five working days of the issue of an unconditional undertaking as required by condition E1.1, from time to time required by this licence, the original counterpart deed of unconditional undertaking.
- E1.3 After the licensee's premises cease to be used for the purpose to which this licence relates or in the event that the licensee ceases to carry out the activity that is subject of this licence, the licensee must:
- a) remove and lawfully dispose of all liquid and non-liquid waste stored on the licensee's premises that is not already securely disposed of;
 - b) provide for capping of previously landfilled areas in accordance with Benchmark Technique 29 as specified in the EPA's 'Environmental Guidelines' Solid Waste Landfills' (1996) or as otherwise approved in writing by the EPA;
 - c) provide for closure of the premises and post-closure monitoring in accordance with Benchmark Technique 20 as specified in the EPA's 'Environmental Guidelines' Solid Waste Landfills' (1996) or as otherwise approved in writing by the EPA;
 - d) maintain any systems (such as pumps, drainage systems etc) and monitoring which is required to full the requirements in (b) and (c) above;
 - e) implement action detailed in the Closure Plan for the premises, approved in writing by the EPA.
- E1.4 In the event that the circumstances outlined above (condition E1.3) occur and the licensee does not undertake the actions required by the conditions, the EPA may claim against the financial assurance lodged by the licensee to ensure that these actions are undertaken.

E2 Environmental Obligations of Licensee

- E2.1 While the licensee's premise are being used for the purpose to which the licence relates, the licensee must:
- a) Clean up any spill, leak or other discharge or any waste(s) or other material(s) as soon as practicable after it becomes known to the licensee or to one of the licensee's employees or agents.
 - b) In the event(s) that any liquid or non-liquid waste(s) is unlawfully deposited on the premises, such waste(s) must be removed and lawfully disposed of as soon as practicable or in accordance with any direction given by the EPA.
 - c) Provide all monitoring data as required by the conditions of this licence or as directed by the EPA.

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E2.2 In the event of an earthquake, storm, fire, flood or any other event where it is reasonable to suspect that a pollution incident has occurred, is occurring or is likely to occur, the licensee (whether or not the premise continue to be used for the purpose to which the licence relates) must:

- a) make all efforts to contain all firewater on the licensee's premises,
- b) make all efforts to control air pollution from the licensee's premises,
- c) make all efforts to contain any discharge, spill or run-off from the licensee's premises,
- d) make all efforts to prevent flood water entering the licensee's premises,
- e) remediate and rehabilitate any exposed areas of soil and/or waste,
- f) lawfully dispose of all liquid and solid waste(s) stored on the premises that is not already securely disposed of,
- g) at the request of the EPA monitor groundwater beneath the licensee's premises and its potential to migrate from the licensee's premises,
- h) at the request of the EPA monitor surface water leaving the licensee's premises; and
- i) ensure the licensee's premises is secure.

Environment Protection Licence

Licence - 7628

Dictionary

General Dictionary

3DGM [in relation to a concentration limit]	Means the three day geometric mean, which is calculated by multiplying the results of the analysis of three samples collected on consecutive days and then taking the cubed root of that amount. Where one or more of the samples is zero or below the detection limit for the analysis, then 1 or the detection limit respectively should be used in place of those samples
Act	Means the Protection of the Environment Operations Act 1997
activity	Means a scheduled or non-scheduled activity within the meaning of the Protection of the Environment Operations Act 1997
actual load	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
AM	Together with a number, means an ambient air monitoring method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .
AMG	Australian Map Grid
anniversary date	The anniversary date is the anniversary each year of the date of issue of the licence. In the case of a licence continued in force by the Protection of the Environment Operations Act 1997, the date of issue of the licence is the first anniversary of the date of issue or last renewal of the licence following the commencement of the Act.
annual return	Is defined in R1.1
Approved Methods Publication	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
assessable pollutants	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
BOD	Means biochemical oxygen demand
CEM	Together with a number, means a continuous emission monitoring method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .
COD	Means chemical oxygen demand
composite sample	Unless otherwise specifically approved in writing by the EPA, a sample consisting of 24 individual samples collected at hourly intervals and each having an equivalent volume.
cond.	Means conductivity
environment	Has the same meaning as in the Protection of the Environment Operations Act 1997
environment protection legislation	Has the same meaning as in the Protection of the Environment Administration Act 1991
EPA	Means Environment Protection Authority of New South Wales.
fee-based activity classification	Means the numbered short descriptions in Schedule 1 of the Protection of the Environment Operations (General) Regulation 2009.
general solid waste (non-putrescible)	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997

Environment Protection Licence

Licence - 7628

flow weighted composite sample	Means a sample whose composites are sized in proportion to the flow at each composites time of collection.
general solid waste (putrescible)	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
grab sample	Means a single sample taken at a point at a single time
hazardous waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
licensee	Means the licence holder described at the front of this licence
load calculation protocol	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
local authority	Has the same meaning as in the Protection of the Environment Operations Act 1997
material harm	Has the same meaning as in section 147 Protection of the Environment Operations Act 1997
MBAS	Means methylene blue active substances
Minister	Means the Minister administering the Protection of the Environment Operations Act 1997
mobile plant	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
motor vehicle	Has the same meaning as in the Protection of the Environment Operations Act 1997
O&G	Means oil and grease
percentile [in relation to a concentration limit of a sample]	Means that percentage [eg.50%] of the number of samples taken that must meet the concentration limit specified in the licence for that pollutant over a specified period of time. In this licence, the specified period of time is the Reporting Period unless otherwise stated in this licence.
plant	Includes all plant within the meaning of the Protection of the Environment Operations Act 1997 as well as motor vehicles.
pollution of waters [or water pollution]	Has the same meaning as in the Protection of the Environment Operations Act 1997
premises	Means the premises described in condition A2.1
public authority	Has the same meaning as in the Protection of the Environment Operations Act 1997
regional office	Means the relevant EPA office referred to in the Contacting the EPA document accompanying this licence
reporting period	For the purposes of this licence, the reporting period means the period of 12 months after the issue of the licence, and each subsequent period of 12 months. In the case of a licence continued in force by the Protection of the Environment Operations Act 1997, the date of issue of the licence is the first anniversary of the date of issue or last renewal of the licence following the commencement of the Act.
restricted solid waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
scheduled activity	Means an activity listed in Schedule 1 of the Protection of the Environment Operations Act 1997
special waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
TM	Together with a number, means a test method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .

Environment Protection Licence

Licence - 7628



TSP	Means total suspended particles
TSS	Means total suspended solids
Type 1 substance	Means the elements antimony, arsenic, cadmium, lead or mercury or any compound containing one or more of those elements
Type 2 substance	Means the elements beryllium, chromium, cobalt, manganese, nickel, selenium, tin or vanadium or any compound containing one or more of those elements
utilisation area	Means any area shown as a utilisation area on a map submitted with the application for this licence
waste	Has the same meaning as in the Protection of the Environment Operations Act 1997
waste type	Means liquid, restricted solid waste, general solid waste (putrescible), general solid waste (non - putrescible), special waste or hazardous waste

Mr Jim Clarence

Environment Protection Authority

(By Delegation)

Date of this edition: 27-September-2000

Environment Protection Licence

Licence - 7628

End Notes

- 1 Licence varied by notice 1004523, issued on 10-Mar-2001, which came into effect on 04-Apr-2001.
- 2 Licence varied by notice 1015223, issued on 20-Feb-2003, which came into effect on 17-Mar-2003.
- 3 Licence varied by notice 1032105, issued on 17-Nov-2003, which came into effect on 12-Dec-2003.
- 4 Licence varied by notice 1064537, issued on 13-Sep-2006, which came into effect on 13-Sep-2006.
- 5 Licence varied by notice 1067402, issued on 12-Sep-2007, which came into effect on 12-Sep-2007.
- 6 Licence varied by notice 1078922, issued on 24-Dec-2007, which came into effect on 24-Dec-2007.
- 7 Licence varied by notice 1084884, issued on 30-Jun-2008, which came into effect on 30-Jun-2008.
- 8 Licence varied by notice 1091555, issued on 30-Sep-2008, which came into effect on 30-Sep-2008.
- 9 Condition A1.3 Not applicable varied by notice issued on <issue date> which came into effect on <effective date>
- 10 Licence varied by notice 1097100, issued on 23-Jan-2009, which came into effect on 23-Jan-2009.
- 11 Licence transferred through application 145738, approved on 09-Feb-2009, which came into effect on 01-Nov-2008.
- 12 Licence varied by notice 1098142, issued on 31-Mar-2009, which came into effect on 31-Mar-2009.
- 13 Licence varied by notice 1099618, issued on 01-Jun-2009, which came into effect on 01-Jun-2009.
- 14 Licence varied by notice 1106137, issued on 04-Sep-2009, which came into effect on 04-Sep-2009.
- 15 Licence varied by Correction to EPA Region data record., issued on 28-Jun-2010, which came into effect on 28-Jun-2010.
- 16 Licence varied by notice 1119911, issued on 24-Dec-2010, which came into effect on 24-Dec-2010.
- 17 Licence varied by notice 1500006 issued on 15-Nov-2011
- 18 Licence varied by notice 1503490 issued on 27-Feb-2012

Environment Protection Licence

Licence - 7628

19	Licence varied by notice	1506949 issued on 28-Sep-2012
20	Licence varied by notice	1512076 issued on 07-Mar-2013
21	Licence varied by notice	1515233 issued on 16-Aug-2013
22	Licence varied by notice	1518423 issued on 17-Jan-2014
23	Licence varied by notice	1530413 issued on 18-Jun-2015
24	Licence varied by notice	1532823 issued on 24-Aug-2015
25	Licence varied by notice	1534311 issued on 17-Nov-2015
26	Licence varied by notice	1546926 issued on 01-Dec-2016
27	Licence varied by notice	1552840 issued on 22-Jun-2017
28	Licence varied by notice	1558886 issued on 11-Dec-2017
29	Licence varied by notice	1570249 issued on 21-Sep-2018
30	Licence varied by notice	1575745 issued on 21-Feb-2019
31	Licence varied by notice	1577209 issued on 24-Oct-2019
32	Licence varied by notice	1591297 issued on 25-Mar-2020
33	Licence varied by notice	1595796 issued on 18-Jun-2020

Appendix C

Air Monitoring Reports

AIRBORNE ASBESTOS MONITORING REPORT

Date: 29.01.2020
Reference: DRD-87-17254/ AAM1
Client: Drumderg Services
Removal Contractor: Drumderg Services
Job Location: Newcastle Courthouse, Church Street Newcastle, NSW
Analytical Method: AAM based on Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres [NOHSC: 3003 (2005)]

Date	Sample Code	Sample Type	Monitor Location	Airflow, L/min			Time			Concentration, fibres/mL
				On	Off	Aver.	On Hr	Off Hr	Total min	
28.01.2020	Blank	-	0	-	-	-	-	-	-	-
28.01.2020	A1	1	1	2.00	2.00	2.00	0737	1622	525	<0.01
28.01.2020	A2	1	2	2.00	2.00	2.00	0741	1625	524	<0.01
28.01.2020	A3	1	3	2.00	2.00	2.00	0748	1619	511	<0.01
28.01.2020	A4	1	4	2.00	2.00	2.00	0750	1618	508	<0.01

Sample Type:

- 1 Removal Monitoring
- 4 Clearance Monitoring
- 5 Background Monitoring



Accreditation No.14664.

Accredited for compliance with ISO/IEC 17025 - Testing.
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This document shall not be reproduced, except in full.

Monitoring Locations:

- 0 Blank
- 1 Newcastle Courthouse worksite, external, north east corner of site, adjacent site entry, attached to temporary fence 1.8m above ground level.
- 2 Newcastle Courthouse worksite, external, south west corner of site, sitting on air conditioning unit 1.6m above ground level.
- 3 Newcastle Courthouse worksite, internal, hallway outside of site office, sitting on table 1.2m above ground level.
- 4 Newcastle Courthouse worksite, internal, lunchroom, northern wall, sitting on hook, 1.8m above ground level.

Remarks:

Sample analysed as received.

The samples collection was undertaken by trained ADE Consulting Group staff.

Sydney Laboratory Services is responsible for the data.

Approved Counter:*Signature*

Matthew Deegan

Approved Signatory:*Signature*

Ross Nefodov

AIRBORNE ASBESTOS MONITORING REPORT

Date: 30.01.2020
Reference: DRD-87-17254/ AAM2
Client: Drumderg Services
Removal Contractor: Drumderg Services
Job Location: Newcastle Courthouse, Church Street Newcastle, NSW
Analytical Method: AAM based on Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres [NOHSC: 3003 (2005)]

Date	Sample Code	Sample Type	Monitor Location	Airflow, L/min			Time			Concentration, fibres/mL
				On	Off	Aver.	On Hr	Off Hr	Total min	
29.01.2020	Blank	-	0	-	-	-	-	-	-	-
29.01.2020	A5	1	1	2.00	2.00	2.00	0748	1654	546	<0.01
29.01.2020	A6	1	2	2.00	2.00	2.00	0751	1630	519	<0.01
29.01.2020	A7	1	3	2.00	2.00	2.00	0744	1650	546	<0.01
29.01.2020	A8	1	4	2.00	2.00	2.00	0742	1649	547	<0.01

Sample Type:

- 1 Removal Monitoring
- 4 Clearance Monitoring
- 5 Background Monitoring



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Monitoring Locations:

- 0 Blank
- 1 Newcastle Courthouse worksite, external, north east corner of site, adjacent site entry, attached to temporary fence 1.8m above ground level.
- 2 Newcastle Courthouse worksite, external, south west corner of site, sitting on air conditioning unit 1.6m above ground level.
- 3 Newcastle Courthouse worksite, internal, hallway outside of site office, sitting on table 1.2m above ground level.
- 4 Newcastle Courthouse worksite, internal, lunchroom, northern wall, sitting on hook, 1.8m above ground level.

Remarks:

Sample analysed as received.

The samples collection was undertaken by trained ADE Consulting Group staff.

Sydney Laboratory Services is responsible for the data.

Approved Counter:*Signature*

Matthew Deegan

Approved Signatory:*Signature*

Ross Nefodov

AIRBORNE ASBESTOS MONITORING REPORT

Date: 03.02.2020
Reference: DRD-87-17254/AAM3
Client: Drumderg Services
Removal Contractor: Drumderg Services
Job Location: Newcastle Court House(old), Church Street, Newcastle East, NSW
Sampler Name/Certificate ID: Matthew O'Connor/CON-020
Analytical Method: AAM based on Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres [NOHSC: 3003 (2005)]

Date	Sample Code	Sample Type	Monitor Location	Airflow, L/min			Time			Concentration, fibres/mL
				On	Off	Aver.	On Hr	Off Hr	Total min	
	Blank	-	0	-	-	-	-	-	-	-
30.01.2020	A9	1	1	2.00	2.00	2.00	0707	1714	607	<0.01
30.01.2020	A10	1	2	2.00	2.00	2.00	0712	1717	605	<0.01
30.01.2020	A11	1	3	2.00	2.00	2.00	0714	1721	601	<0.01

Sample Type:

- 1 Removal Monitoring
- 4 Clearance Monitoring
- 5 Background Monitoring



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Monitoring Locations:

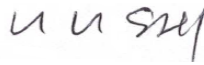
- 0 Blank
- 1 Old Newcastle Courthouse, northern perimeter, far western corner, attached temporary fencing, 1.5m above ground level.
- 2 Old Newcastle Courthouse, northern perimeter, approximately 10m east of access gate, 1.5m above ground level.
- 3 Old Newcastle Courthouse, northern perimeter, 3m west of access gate, 1.5m above ground level.

Remarks:

Sydney Laboratory Services is responsible for all the information in the report, except that provided by the customer. All sampling information included in the report has been provided by customer; ADE Consulting Group. Information provided by ADE Consulting Group can affect the validity of the results. Sample analysed as received.

Approved Counter:*Signature*

Yue Hu

Approved Signatory:*Signature*

Lili Shi

AIRBORNE ASBESTOS MONITORING REPORT

Date: 04.02.2020
Reference: DRD-87-17254/AAM4
Client: Drumderg Services
Removal Contractor: Drumderg Services
Job Location: Newcastle Court House, Church Street, Newcastle East, NSW
Sampler Name/Certificate ID: Matthew O'Connor/CON-020
Analytical Method: AAM based on Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres [NOHSC: 3003 (2005)]

Date	Sample Code	Sample Type	Monitor Location	Airflow, L/min			Time			Concentration, fibres/mL
				On	Off	Aver.	On Hr	Off Hr	Total min	
	Blank	-	0	-	-	-	-	-	-	-
31.01.2020	A12	1	1	2.00	2.00	2.00	0737	1557	500	<0.01
31.01.2020	A13	1	2	2.00	2.00	2.00	0746	1559	493	<0.01
31.01.2020	A14	1	3	2.00	2.00	2.00	0742	1602	500	<0.01

Sample Type:

- 1 Removal Monitoring
- 4 Clearance Monitoring
- 5 Background Monitoring



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This document shall not be reproduced, except in full.

Monitoring Locations:

- 0 Blank
- 1 Newcastle Courthouse, northern perimeter, adjacent main entrance gate, attached temporary fencing, 1.5m above ground level.
- 2 Newcastle Courthouse, northern perimeter, approximately 15m east of access gate, attached to temporary fence, 1.5m above ground level.
- 3 Newcastle Courthouse, northern perimeter, north western corner, 5m east of western perimeter attached to temporary fence, 1.5m above ground level.

Remarks:

Sydney Laboratory Services is responsible for all the information in the report, except that provided by the customer. All sampling information included in the report has been provided by customer; ADE Consulting Group. Information provided by ADE Consulting Group can affect the validity of the results. Sample analysed as received.

Approved Counter:*Signature*

Matthew Deegan

Approved Signatory:*Signature*

Ross Nefodov

AIRBORNE ASBESTOS MONITORING REPORT

Date: 04.02.2020
Reference: DRD-87-17254/AAM5
Client: Drumderg Services
Removal Contractor: Drumderg Services
Job Location: Newcastle Court House, Church Street, Newcastle East, NSW
Sampler Name/Certificate ID: Matthew O'Connor/CON-020
Analytical Method: AAM based on Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres [NOHSC: 3003 (2005)]

Date	Sample Code	Sample Type	Monitor Location	Airflow, L/min			Time			Concentration, fibres/mL
				On	Off	Aver.	On Hr	Off Hr	Total min	
	Blank	-	0	-	-	-	-	-	-	-
03.02.2020	A15	1	1	2.00	2.00	2.00	1200	1658	298	<0.01
03.02.2020	A16	1	2	2.00	2.00	2.00	1203	1701	298	<0.01
03.02.2020	A17	1	3	2.00	2.00	2.00	1206	1657	291	<0.01
03.02.2020	A18	1	4	2.00	2.00	2.00	1215	1704	289	<0.01
03.02.2020	A19	1	5	2.00	2.00	2.00	1220	1707	282	<0.01

Sample Type:

- 1 Removal Monitoring
- 4 Clearance Monitoring
- 5 Background Monitoring



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Monitoring Locations:

- 0 Blank
- 1 Newcastle Courthouse, roof, north eastern corner, top of facade, 1.2m above ground level.
- 2 Newcastle Courthouse, roof, south eastern corner, top of air conditioning unit 1.8m above ground level.
- 3 Newcastle Courthouse, roof, north western corner, top of facade, 1.2m above ground level.
- 4 Newcastle Courthouse, northern perimeter, north western corner, 5m east of western perimeter attached to temporary fence, 1.5m above ground level.
- 5 Newcastle Courthouse, eastern perimeter, adjacent police station, attached to metal fencing, 2.0m above ground level.

Remarks:

Sydney Laboratory Services is responsible for all the information in the report, except that provided by the customer. All sampling information included in the report has been provided by customer; ADE Consulting Group.

Information provided by ADE Consulting Group can affect the validity of the results.

Sample analysed as received.

Approved Counter:*Signature*

Matthew Deegan

Approved Signatory:*Signature*

Ross Nefodov

AIRBORNE ASBESTOS MONITORING REPORT

Date: 05.02.2020
Reference: DRD-87-17254/AAM6
Client: Drumderg Services
Removal Contractor: Drumderg Services
Job Location: Newcastle Court House, Church Street, Newcastle East, NSW
Sampler Name: Matthew Deegan
Analytical Method: AAM based on Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres [NOHSC: 3003 (2005)]

Date	Sample Code	Sample Type	Monitor Location	Airflow, L/min			Time			Concentration, fibres/mL
				On	Off	Aver.	On Hr	Off Hr	Total min	
	Blank	-	0	-	-	-	-	-	-	-
04.02.2020	A20	1	1	2.00	2.00	2.00	0723	1607	524	<0.01
04.02.2020	A21	1	2	2.00	2.00	2.00	0728	1610	522	<0.01
04.02.2020	A22	1	3	2.00	2.00	2.00	0731	1612	521	<0.01
04.02.2020	A23	1	4	2.00	2.00	2.00	0735	1617	522	<0.01

Sample Type:

- 1 Removal Monitoring
- 4 Clearance Monitoring
- 5 Background Monitoring



Accreditation No.14664.

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Monitoring Locations:

- 0 Blank
- 1 Newcastle Courthouse, external, northern perimeter, adjacent entry door, attached temporary fencing, 1.7m above ground level.
- 2 Newcastle Courthouse, external, north western perimeter, attached temporary fencing, 1.7m above ground level.
- 3 Newcastle Courthouse, external, north eastern perimeter, adjacent vehicle entrance gate, attached temporary fencing, 1.7m above ground level.
- 4 Newcastle Courthouse, external, southern boundary, top of air conditioning unit 1.8m above ground level.

Remarks:

Sydney Laboratory Services is responsible for all the information in the report, except that provided by the customer. All sampling information included in the report has been provided by customer; ADE Consulting Group. Information provided by ADE Consulting Group can affect the validity of the results. Sample analysed as received.

Approved Counter:*Signature*

Matthew Deegan

Approved Signatory:*Signature*

Ross Nefodov

AIRBORNE ASBESTOS MONITORING REPORT

Date: 06.02.2020
Reference: DRD-87-17254/AAM7
Client: Drumderg Services
Removal Contractor: Drumderg Services
Job Location: Newcastle Court House, Church Street, Newcastle East, NSW
Sampler Name: Matthew Deegan
Analytical Method: AAM based on Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres [NOHSC: 3003 (2005)]

Date	Sample Code	Sample Type	Monitor Location	Airflow, L/min			Time			Concentration, fibres/mL
				On	Off	Aver.	On Hr	Off Hr	Total min	
	Blank	-	0	-	-	-	-	-	-	-
05.02.2020	A24	1	1	2.00	2.00	2.00	0713	1611	538	<0.01
05.02.2020	A25	1	2	2.00	2.00	2.00	0715	1612	538	<0.01
05.02.2020	A26	1	3	2.00	2.00	2.00	0720	1620	540	<0.01
05.02.2020	A27	1	4	2.00	2.00	2.00	0720	1617	537	<0.01
05.02.2020	A28	1	5	2.00	2.00	2.00	0726	1608	522	<0.01

Sample Type:

- 1 Removal Monitoring
- 4 Clearance Monitoring
- 5 Background Monitoring



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The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.


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Monitoring Locations:

- 0 Blank
- 1 Newcastle Courthouse, external, northern perimeter, adjacent entry door, attached temporary fencing, 1.7m above ground level.
- 2 Newcastle Courthouse, external, north western perimeter, attached temporary fencing, 1.7m above ground level.
- 3 Newcastle Courthouse, external, north eastern perimeter, adjacent vehicle entrance gate, attached temporary fencing, 1.7m above ground level.
- 4 Newcastle Courthouse, external, eastern boundary, sitting on boundary fence, 1.2m above ground level.
- 5 Newcastle Courthouse, internal, hallway adjacent office, sitting on table, 1m above ground room.

Remarks:

Sydney Laboratory Services is responsible for all the information in the report, except that provided by the customer. All sampling information included in the report has been provided by customer; ADE Consulting Group. Information provided by ADE Consulting Group can affect the validity of the results. Sample analysed as received.

Approved Counter:*Signature*

Matthew Deegan

Approved Signatory:*Signature*

Ross Nefodov

AIRBORNE ASBESTOS MONITORING REPORT

Date: 07.02.2020
Reference: DRD-87-17254/AAM8
Client: Drumderg Services
Removal Contractor: Drumderg Services
Job Location: Newcastle Court House, Church Street, Newcastle East, NSW
Sampler Name: Matthew Deegan
Analytical Method: AAM based on Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres [NOHSC: 3003 (2005)]

Date	Sample Code	Sample Type	Monitor Location	Airflow, L/min			Time			Concentration, fibres/mL
				On	Off	Aver.	On Hr	Off Hr	Total min	
	Blank	-	0	-	-	-	-	-	-	-
06.02.2020	A29	1	1	2.00	2.00	2.00	0715	1635	560	<0.01
06.02.2020	A30	1	2	2.00	2.00	2.00	0711	1627	556	<0.01
06.02.2020	A31	1	3	2.00	2.00	2.00	0725	1649	564	<0.01
06.02.2020	A32	1	4	2.00	2.00	2.00	0726	1649	563	<0.01
06.02.2020	A33	1	5	2.00	2.00	2.00	0717	1636	559	<0.01

Sample Type:

- 1 Removal Monitoring
- 4 Clearance Monitoring
- 5 Background Monitoring



Accreditation No.14664.

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The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

This document shall not be reproduced, except in full.

Monitoring Locations:

- 0 Blank
- 1 Newcastle Courthouse, external, northern perimeter, adjacent entry door, attached temporary fencing, 1.7m above ground level.
- 2 Newcastle Courthouse, external, north western perimeter, attached temporary fencing, 1.7m above ground level.
- 3 Newcastle Courthouse, external, north eastern perimeter, adjacent vehicle entrance gate, attached temporary fencing, 1.7m above ground level.
- 4 Newcastle Courthouse, external, eastern boundary, sitting on boundary fence, 1.2m above ground level.
- 5 Newcastle Courthouse, internal, hallway adjacent office, sitting on table, 1m above ground room.

Remarks:

Sydney Laboratory Services is responsible for all the information in the report, except that provided by the customer. All sampling information included in the report has been provided by customer; ADE Consulting Group. Information provided by ADE Consulting Group can affect the validity of the results. Sample analysed as received.

Approved Counter:*Signature*

Matthew Deegan

Approved Signatory:*Signature*

Ross Nefodov

AIRBORNE ASBESTOS MONITORING REPORT

Date: 12.02.2020
Reference: DRD-87-17254/AAM9
Client: Drumderg Services
Removal Contractor: Drumderg Services
Job Location: Newcastle Court House, Church Street, Newcastle East, NSW
Sampler Name: Matthew Deegan
Analytical Method: AAM based on Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres [NOHSC: 3003 (2005)]

Date	Sample Code	Sample Type	Monitor Location	Airflow, L/min			Time			Concentration, fibres/mL
				On	Off	Aver.	On Hr	Off Hr	Total min	
	Blank	-	0	-	-	-	-	-	-	-
07.02.2020	A34	1	1	2.00	2.00	2.00	0729	1630	541	<0.01
07.02.2020	A35	1	2	2.00	2.00	2.00	0732	1630	538	<0.01
07.02.2020	A36	1	3	2.00	2.00	2.00	0732	1630	538	<0.01
07.02.2020	A37	1	4	2.00	2.00	2.00	0723	1630	547	<0.01

Sample Type:

- 1 Removal Monitoring
- 4 Clearance Monitoring
- 5 Background Monitoring



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Monitoring Locations:

- 0 Blank
- 1 Newcastle Courthouse, external, northern perimeter, adjacent entry door, attached temporary fencing, 1.7m above ground level.
- 2 Newcastle Courthouse, external, north eastern perimeter, adjacent vehicle entrance gate, attached temporary fencing, 1.7m above ground level.
- 3 Newcastle Courthouse, external, eastern boundary, sitting on boundary fence, 1.2m above ground level.
- 4 Newcastle Courthouse, internal, hallway adjacent office, sitting on table, 1m above ground room.

Remarks:

Sydney Laboratory Services is responsible for all the information in the report, except that provided by the customer. All sampling information included in the report has been provided by customer; ADE Consulting Group. Information provided by ADE Consulting Group can affect the validity of the results. Sample analysed as received.

Approved Counter:*Signature*

Matthew Deegan

Approved Signatory:*Signature*

Ross Nefodov

AIRBORNE ASBESTOS MONITORING REPORT

Date: 12.02.2020
Reference: DRD-87-17254/AAM10
Client: Drumderg Services
Removal Contractor: Drumderg Services
Job Location: Newcastle Court House, Church Street, Newcastle East, NSW
Sampler Name: Matthew Deegan
Analytical Method: AAM based on Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres [NOHSC: 3003 (2005)]

Date	Sample Code	Sample Type	Monitor Location	Airflow, L/min			Time			Concentration, fibres/mL
				On	Off	Aver.	On Hr	Off Hr	Total min	
	Blank	-	0	-	-	-	-	-	-	-
10.02.2020	A38	1	1	2.00	2.00	2.00	0723	1640	557	<0.01
10.02.2020	A39	1	2	2.00	2.00	2.00	0725	1638	553	<0.01
10.02.2020	A40	1	3	2.00	2.00	2.00	0727	1646	559	<0.01
10.02.2020	A41	1	4	2.00	2.00	2.00	0729	1646	557	<0.01
10.02.2020	A42	1	5	2.00	2.00	2.00	0721	1642	561	<0.01

Sample Type:

- 1 Removal Monitoring
- 4 Clearance Monitoring
- 5 Background Monitoring



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Monitoring Locations:

- 0 Blank
- 1 Newcastle Courthouse, external, northern perimeter, adjacent entry door, attached temporary fencing, 1.7m above ground level.
- 2 Newcastle Courthouse, external, north western perimeter, attached temporary fencing, 1.7m above ground level.
- 3 Newcastle Courthouse, external, north eastern perimeter, adjacent vehicle entrance gate, attached temporary fencing, 1.7m above ground level.
- 4 Newcastle Courthouse, external, eastern boundary, sitting on boundary fence, 1.2m above ground level.
- 5 Newcastle Courthouse, internal, hallway adjacent office, sitting on table, 1m above ground room.

Remarks:

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Approved Counter:*Signature*

Matthew Deegan

Approved Signatory:*Signature*

Ross Nefodov

AIRBORNE ASBESTOS MONITORING REPORT

Date: 12.02.2020
Reference: DRD-87-17254/AAM11
Client: Drumderg Services
Removal Contractor: Drumderg Services
Job Location: Newcastle Court House, Church Street, Newcastle East, NSW
Sampler Name: Matthew Deegan
Analytical Method: AAM based on Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres [NOHSC: 3003 (2005)]

Date	Sample Code	Sample Type	Monitor Location	Airflow, L/min			Time			Concentration, fibres/mL
				On	Off	Aver.	On Hr	Off Hr	Total min	
	Blank	-	0	-	-	-	-	-	-	-
11.02.2020	A43	1	1	2.00	2.00	2.00	0729	1627	538	<0.01
11.02.2020	A44	1	2	2.00	2.00	2.00	0730	1625	535	<0.01
11.02.2020	A45	1	3	2.00	2.00	2.00	0733	1631	538	<0.01

Sample Type:

- 1 Removal Monitoring
- 4 Clearance Monitoring
- 5 Background Monitoring



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Monitoring Locations:

- 0 Blank
- 1 Newcastle Courthouse, external, northern perimeter, adjacent entry door, attached temporary fencing, 1.7m above ground level.
- 2 Newcastle Courthouse, external, north western perimeter, attached temporary fencing, 1.7m above ground level.
- 3 Newcastle Courthouse, external, north eastern perimeter, adjacent vehicle entrance gate, attached temporary fencing, 1.7m above ground level.

Remarks:

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Approved Counter:*Signature*

Matthew Deegan

Approved Signatory:*Signature*

Ross Nefodov

AIRBORNE ASBESTOS MONITORING REPORT

Date: 18.02.2020
Reference: DRD-87-17254/AAM12
Client: Drumderg Services
Removal Contractor: Drumderg Services
Job Location: Newcastle Court House(old), Church Street, Newcastle East, NSW
Sampler Name/Certificate ID: Matthew O'Connor/CON-020
Analytical Method: AAM based on Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres [NOHSC: 3003 (2005)]

Date	Sample Code	Sample Type	Monitor Location	Airflow, L/min			Time			Concentration, fibres/mL
				On	Off	Aver.	On Hr	Off Hr	Total min	
	Blank	-	0	-	-	-	-	-	-	-
12.02.2020	A46	1	1	2.00	2.00	2.00	0724	1625	541	N/A*
12.02.2020	A47	1	2	2.00	2.00	2.00	0726	1623	537	N/A*
12.02.2020	A48	1	3	2.00	2.00	2.00	0730	1631	541	N/A*
12.02.2020	A49	1	4	2.00	2.00	2.00	0731	1636	545	<0.01
12.02.2020	A50	1	5	2.00	2.00	2.00	0720	1628	548	N/A*

*Air filter overloaded with dust.

Sample Type:

- 1 Removal Monitoring
- 4 Clearance Monitoring
- 5 Background Monitoring



Accreditation No.14664.

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Monitoring Locations:

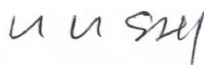
- 0 Blank
- 1 Newcastle Courthouse, external, northern perimeter, adjacent entry door, attached temporary fencing, 1.7m above ground level.
- 2 Newcastle Courthouse, external, north western perimeter, attached temporary fencing, 1.7m above ground level.
- 3 Newcastle Courthouse, external, north eastern perimeter, adjacent vehicle entrance gate, attached temporary fencing, 1.7m above ground level.
- 4 Newcastle Courthouse, external, eastern boundary, sitting on boundary fence, 1.2m above ground level.
- 5 Newcastle Courthouse, internal, hallway adjacent office, sitting on table, 1m above ground room.

Remarks:

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Approved Counter:*Signature*

Yue Hu

Approved Signatory:*Signature*

Lili Shi

AIRBORNE ASBESTOS MONITORING REPORT

Date: 18.02.2020
Reference: DRD-87-17254/AAM13
Client: Drumderg Services
Removal Contractor: Drumderg Services
Job Location: Newcastle Court House(old), Church Street, Newcastle East, NSW
Sampler Name/Certificate ID: Matthew O'Connor/CON-020
Analytical Method: AAM based on Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres [NOHSC: 3003 (2005)]

Date	Sample Code	Sample Type	Monitor Location	Airflow, L/min			Time			Concentration, fibres/mL
				On	Off	Aver.	On Hr	Off Hr	Total min	
	Blank	-	0	-	-	-	-	-	-	
13.02.2020	A51	1	1	2.00	2.00	2.00	0732	1624	532	<0.01
13.02.2020	A52	1	2	2.00	2.00	2.00	0734	1621	527	<0.01
13.02.2020	A53	1	3	2.00	2.00	2.00	0736	1631	535	<0.01
13.02.2020	A54	1	4	2.00	2.00	2.00	0738	1633	535	<0.01
13.02.2020	A55	1	5	2.00	2.00	2.00	0728	1628	540	N/A*

*Air filter overloaded with dust.

Sample Type:

- 1 Removal Monitoring
- 4 Clearance Monitoring
- 5 Background Monitoring



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Monitoring Locations:

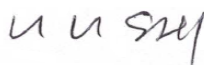
- 0 Blank
- 1 Newcastle Courthouse, external, northern perimeter, adjacent entry door, attached temporary fencing, 1.7m above ground level.
- 2 Newcastle Courthouse, external, north western perimeter, attached temporary fencing, 1.7m above ground level.
- 3 Newcastle Courthouse, external, north eastern perimeter, adjacent vehicle entrance gate, attached temporary fencing, 1.7m above ground level.
- 4 Newcastle Courthouse, external, eastern boundary, sitting on boundary fence, 1.2m above ground level.
- 5 Newcastle Courthouse, internal, hallway adjacent office, sitting on table, 1m above ground room.

Remarks:

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Approved Counter:*Signature*

Yue Hu

Approved Signatory:*Signature*

Lili Shi

AIRBORNE ASBESTOS MONITORING REPORT

Date: 18.02.2020
Reference: DRD-87-17254/AAM14
Client: Drumderg Services
Removal Contractor: Drumderg Services
Job Location: Newcastle Court House, Church Street, Newcastle East, NSW
Sampler Name: Matthew Deegan
Analytical Method: AAM based on Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres [NOHSC: 3003 (2005)]

Date	Sample Code	Sample Type	Monitor Location	Airflow, L/min			Time			Concentration, fibres/mL
				On	Off	Aver.	On Hr	Off Hr	Total min	
	Blank	-	0	-	-	-	-	-	-	-
14.02.2020	A56	1	1	2.00	2.00	2.00	0728	1625	537	<0.01
14.02.2020	A57	1	2	2.00	2.00	2.00	0729	1622	533	<0.01
14.02.2020	A58	1	3	2.00	2.00	2.00	0736	1630	534	<0.01
14.02.2020	A59	1	4	2.00	2.00	2.00	0738	1632	534	<0.01
14.02.2020	A60	1	5	2.00	2.00	2.00	0732	1627	535	<0.01

Sample Type:

- 1 Removal Monitoring
- 4 Clearance Monitoring
- 5 Background Monitoring



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Monitoring Locations:

- 0 Blank
- 1 Newcastle Courthouse, external, northern perimeter, adjacent entry door, attached temporary fencing, 1.7m above ground level.
- 2 Newcastle Courthouse, external, north western perimeter, attached temporary fencing, 1.7m above ground level.
- 3 Newcastle Courthouse, external, north eastern perimeter, adjacent vehicle entrance gate, attached temporary fencing, 1.7m above ground level.
- 4 Newcastle Courthouse, external, south eastern corner, attached to boundary fence, 1.7m above ground level.
- 5 Newcastle Courthouse, internal, hallway adjacent office, attached to framework, 1.7m above ground level.

Remarks:

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Approved Counter:*Signature*

Matthew Deegan

Approved Signatory:*Signature*

Ross Nefodov

AIRBORNE ASBESTOS MONITORING REPORT

Date: 18.02.2020
Reference: DRD-87-17254/AAM15
Client: Drumderg Services
Removal Contractor: Drumderg Services
Job Location: Newcastle Court House, Church Street, Newcastle East, NSW
Sampler Name: Matthew Deegan
Analytical Method: AAM based on Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres [NOHSC: 3003 (2005)]

Date	Sample Code	Sample Type	Monitor Location	Airflow, L/min			Time			Concentration, fibres/mL
				On	Off	Aver.	On Hr	Off Hr	Total min	
	Blank	-	0	-	-	-	-	-	-	-
17.02.2020	A56	1	1	2.00	2.00	2.00	0727	1630	543	<0.01
17.02.2020	A57	1	2	2.00	2.00	2.00	0735	1628	533	<0.01
17.02.2020	A58	1	3	2.00	2.00	2.00	0733	1644	551	<0.01
17.02.2020	A59	1	4	2.00	2.00	2.00	0732	1643	551	<0.01
17.02.2020	A60	1	5	2.00	2.00	2.00	0725	1634	549	<0.01

Sample Type:

- 1 Removal Monitoring
- 4 Clearance Monitoring
- 5 Background Monitoring



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Monitoring Locations:

- 0 Blank
- 1 Newcastle Courthouse, external, northern perimeter, adjacent entry door, attached temporary fencing, 1.7m above ground level.
- 2 Newcastle Courthouse, external, north western perimeter, attached temporary fencing, 1.7m above ground level.
- 3 Newcastle Courthouse, external, north eastern perimeter, adjacent vehicle entrance gate, attached temporary fencing, 1.7m above ground level.
- 4 Newcastle Courthouse, external, south eastern corner, attached to boundary fence, 1.7m above ground level.
- 5 Newcastle Courthouse, internal, hallway adjacent office, attached to framework, 1.7m above ground level.

Remarks:

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Approved Counter:*Signature*

Matthew Deegan

Approved Signatory:*Signature*

Ross Nefodov

AIRBORNE ASBESTOS MONITORING REPORT

Date: 19.02.2020
Reference: DRD-87-17254/AAM16
Client: Drumderg Services
Removal Contractor: Drumderg Services
Job Location: Newcastle Court House, Church Street, Newcastle East, NSW
Sampler Name: Matthew O'Connor
Analytical Method: AAM based on Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres [NOHSC: 3003 (2005)]

Date	Sample Code	Sample Type	Monitor Location	Airflow, L/min			Time			Concentration, fibres/mL
				On	Off	Aver.	On Hr	Off Hr	Total min	
	Blank	-	0	-	-	-	-	-	-	-
18.02.2020	A66	1	1	2.00	2.00	2.00	0739	1525	466	<0.01
18.02.2020	A67	1	2	2.00	2.00	2.00	0705	1410	545	<0.01
18.02.2020	A68	1	3	2.00	2.00	2.00	0710	1412	542	<0.01
18.02.2020	A69	1	4	2.00	2.00	2.00	0711	1414	543	<0.01
18.02.2020	A70	1	5	2.00	2.00	2.00	0734	1513	459	<0.01

Sample Type:

- 1 Removal Monitoring
- 4 Clearance Monitoring
- 5 Background Monitoring



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Monitoring Locations:

- 0 Blank
- 1 Newcastle Courthouse, external, northern perimeter, adjacent entry door, attached temporary fencing, 1.8m above ground level.
- 2 Newcastle Courthouse, external, north western perimeter, attached temporary fencing, 1.7m above ground level.
- 3 Newcastle Courthouse, external, north eastern perimeter, adjacent vehicle entrance gate, attached temporary fencing, 1.7m above ground level.
- 4 Newcastle Courthouse, internal, hallway adjacent office, attached to framework, 1.7m above ground level.
- 5 Newcastle Courthouse, external, south eastern corner, attached to boundary fence, 1.7m above ground level.

Remarks:

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Approved Counter:*Signature*

Matthew Deegan

Approved Signatory:*Signature*

Ross Nefodov

AIRBORNE ASBESTOS MONITORING REPORT

Date: 18.03.2020
Reference: DRD-87-17254 /AAM17
Client: Drumderg Services
Removal Contractor: Drumderg Services
Job Location: Old Newcastle Courthouse, Church Street, Newcastle NSW
Sampler Name/Certificate ID: Matthew O'Connor/CON-020
Analytical Method: AAM based on Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres [NOHSC: 3003 (2005)]

Date	Sample Code	Sample Type	Monitor Location	Airflow, L/min			Time			Concentration, fibres/mL
				On	Off	Aver.	On Hr	Off Hr	Total min	
16.03.2020	Blank	-	0	-	-	-	-	-	-	-
16.03.2020	A71	1	1	2.00	2.00	2.00	0808	1635	507	<0.01
16.03.2020	A72	1	2	2.00	2.00	2.00	0804	1637	513	<0.01
16.03.2020	A73	1	3	2.00	2.00	2.00	0807	1638	511	N/A*
16.03.2020	A74	1	4	2.00	2.00	2.00	0809	1645	516	<0.01
16.03.2020	A75	1	5	2.00	2.00	2.00	0802	1633	511	<0.01

* Air filter overloaded with dust.

Sample Type:

- 1 Removal Monitoring
- 4 Clearance Monitoring
- 5 Background Monitoring



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Monitoring Locations:

- 0 Blank
- 1 Old Newcastle courthouse, northern perimeter, 5m west of north eastern gate, attached to temporary fence, 1.8m above ground level.
- 2 Old Newcastle courthouse, south eastern corner, attached to metal ball, 1.5m above ground level.
- 3 Old Newcastle courthouse, eastern perimeter, approximately 20m south of Church Street, attached to metal fencing, approximately 1.3m above ground level.
- 4 Old Newcastle courthouse, northern parameter, 20m west of main entrance, attached to temporary fencing, 1.8m above ground level.
- 5 Old Newcastle courthouse, south western corner of exclusion zone, adjacent to toilets, attached to temporary fencing, 1.8m above ground level.

Remarks:

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Approved Counter:*Signature*

Bing Han

Approved Signatory:*Signature*

Bing Han

AIRBORNE ASBESTOS MONITORING REPORT

Date: 19.03.2020
Reference: DRD-87-17254 /AAM18
Client: Drumderg Services
Removal Contractor: Drumderg Services
Job Location: Church Street, Newcastle NSW
Sampler Name/Certificate ID: Cameron Mitchell/CON-023
Analytical Method: AAM based on Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres [NOHSC: 3003 (2005)]

Date	Sample Code	Sample Type	Monitor Location	Airflow, L/min			Time			Concentration, fibres/mL
				On	Off	Aver.	On Hr	Off Hr	Total min	
17.03.2020	Blank	-	0	-	-	-	-	-	-	-
17.03.2020	A76	5	1	2.00	2.00	2.00	0712	1557	525	<0.01
17.03.2020	A77	5	2	2.00	2.00	2.00	0714	1609	535	<0.01
17.03.2020	A78	5	3	2.00	2.00	2.00	0714	1606	532	<0.01
17.03.2020	A79	5	4	2.00	2.00	2.00	0715	1604	529	<0.01

Sample Type:

- 1 Removal Monitoring
- 4 Clearance Monitoring
- 5 Background Monitoring



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Monitoring Locations:

- 0 Blank
- 1 Church Street site southern boundary, eastern decontamination zone, southwest entrance gate temporary fence, 1.8m above ground level.
- 2 Church Street site eastern boundary, eastern decontamination zone, southeast corner metal gate, 1.8m above ground level.
- 3 Church Street site eastern boundary, eastern decontamination zone, 20m from north east corner, metal fence, 1.8m above ground level.
- 4 Church Street site southern boundary, eastern decontamination zone, northeast entry gate temporary fence, 1.8m above ground level.

Remarks:

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Approved Counter:*Signature*

Bing Han

Approved Signatory:*Signature*

Bing Han

AIRBORNE ASBESTOS MONITORING REPORT

Date: 18.03.2020
Reference: DRD-87-17407/AAM3
Client: Drumderg Services
Removal Contractor: Dromderg Services
Job Location: Church Street, Newcastle, NSW
Sampler Name/Certificate ID: Matthew O'Connor/CON-020
Analytical Method: AAM based on Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres [NOHSC: 3003 (2005)]

Date	Sample Code	Sample Type	Monitor Location	Airflow, L/min			Time			Concentration, fibres/mL
				On	Off	Aver.	On Hr	Off Hr	Total min	
13.03.2020	Blank	-	0	-	-	-	-	-	-	-
13.03.2020	A11	1	1	2.00	2.00	2.00	0759	1634	515	N/A*
13.03.2020	A12	1	2	2.00	2.00	2.00	0805	1638	513	<0.01
13.03.2020	A13	1	3	2.00	2.00	2.00	0806	1639	513	<0.01
13.03.2020	A14	1	4	2.00	2.00	2.00	0811	1626	495	<0.01
13.03.2020	A15	1	5	2.00	2.00	2.00	0809	1629	500	<0.01

*Air filter overloaded with dust.

Sample Type:

- 1 Removal Monitoring
- 4 Clearance Monitoring
- 5 Background Monitoring



Accreditation No.14664.

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Monitoring Locations:

- 0 Blank
- 1 External, northern border, temporary fence adjacent building B entrance, 1.8m above ground level.
- 2 External, northern border, adjacent vehicle entrance, temporary fence, 1.8m above ground level.
- 3 External, eastern boundary attached to boundary fence adjacent driveway, 1.8m above ground level.
- 4 External, southern section of site, attached to stair fence, 1.8m above ground level.
- 5 Internal building B, southern access, attached to metal pole, 1.8m above ground level.

Remarks:

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Approved Counter:*Signature*

Bing Han

Approved Signatory:*Signature*

Bing Han

AIRBORNE ASBESTOS MONITORING REPORT

Date: 20.03.2020
Reference: DRD-87-17407/AAM4
Client: Drumderg Services
Removal Contractor: Drumderg Services
Job Location: Church Street, Newcastle, NSW
Sampler Name/Certificate ID: Matthew Deegan/CON-015
Analytical Method: AAM based on Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres [NOHSC: 3003 (2005)]

Date	Sample Code	Sample Type	Monitor Location	Airflow, L/min			Time			Concentration, fibres/mL
				On	Off	Aver.	On Hr	Off Hr	Total min	
18.03.2020	Blank	-	0	-	-	-	-	-	-	-
18.03.2020	A16	1	1	2.00	2.00	2.00	0736	1732	596	<0.01
18.03.2020	A17	1	2	2.00	2.00	2.00	0735	1730	595	<0.01
18.03.2020	A18	1	3	2.00	2.00	2.00	0739	1739	600	<0.01
18.03.2020	A19	1	4	2.00	2.00	2.00	0741	1737	596	N/A*
18.03.2020	A20	1	5	2.00	2.00	2.00	0743	1736	593	N/A*

*Air filter overloaded with dust.

Sample Type:

- 1 Removal Monitoring
- 4 Clearance Monitoring
- 5 Background Monitoring



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Monitoring Locations:

- 0 Blank
- 1 Internal building B, southern access, attached to metal pole, 1.8m above ground level.
- 2 External, southern section of site, attached to stair fence, 1.8m above ground level.
- 3 External, northern border, temporary fence adjacent building B entrance, 1.8m above ground level.
- 4 External, northern border, adjacent vehicle entrance, temporary fence, 1.8m above ground level.
- 5 External, eastern boundary attached to boundary attached to boundary fence adjacent driveway, 1.8m above ground level.

Remarks:

Sydney Laboratory Services is responsible for all the information in the report, except that provided by the customer. All sampling information included in the report has been provided by customer, ADE Consulting Group.

Information provided by ADE Consulting Group can affect the validity of the results.

Sample analysed as received.

Approved Counter:*Signature*

Bing Han

Approved Signatory:*Signature*

Bing Han

AIRBORNE ASBESTOS MONITORING REPORT

Date: 24.03.2020
Reference: DRD-87-17407/AAM5
Client: Drumderg Services
Removal Contractor: Drumderg Services
Job Location: Church Street, Newcastle, NSW
Sampler Name/Certificate ID: Matthew Deegan/CON-015
Analytical Method: AAM based on Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres [NOHSC: 3003 (2005)]

Date	Sample Code	Sample Type	Monitor Location	Airflow, L/min			Time			Concentration, fibres/mL
				On	Off	Aver.	On Hr	Off Hr	Total min	
19.03.2020	Blank	-	0	-	-	-	-	-	-	-
19.03.2020	A21	1	1	2.00	2.00	2.00	0755	1559	484	<0.01
19.03.2020	A22	1	2	2.00	2.00	2.00	0754	1559	485	<0.01
19.03.2020	A23	1	3	2.00	2.00	2.00	0759	1602	483	<0.01
19.03.2020	A24	1	4	2.00	2.00	2.00	0801	1605	484	<0.01
19.03.2020	A25	1	5	2.00	2.00	2.00	0803	1608	485	<0.01

Sample Type:

- 1 Removal Monitoring
- 4 Clearance Monitoring
- 5 Background Monitoring



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Monitoring Locations:

- 0 Blank
- 1 Internal building B, southern access, attached to metal pole, 1.8m above ground level.
- 2 External, southern section of site, attached to stair fence, 1.8m above ground level.
- 3 External, northern border, temporary fence adjacent building B entrance, 1.8m above ground level.
- 4 External, northern border, adjacent vehicle entrance, temporary fence, 1.8m above ground level.
- 5 External, eastern boundary attached to boundary attached to boundary fence adjacent driveway, 1.8m above ground level.

Remarks:

Sydney Laboratory Services is responsible for all the information in the report, except that provided by the customer. All sampling information included in the report has been provided by customer, ADE Consulting Group. Information provided by ADE Consulting Group can affect the validity of the results. Sample analysed as received.

Approved Counter:*Signature*

Bing Han

Approved Signatory:*Signature*

Bing Han

AIRBORNE ASBESTOS MONITORING REPORT

Date: 24.03.2020
Reference: DRD-87-17407/AAM6
Client: Drumderg Services
Removal Contractor: Drumderg Services
Job Location: Church Street, Newcastle, NSW
Sampler Name/Certificate ID: Matthew Deegan/CON-015
Analytical Method: AAM based on Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres [NOHSC: 3003 (2005)]

Date	Sample Code	Sample Type	Monitor Location	Airflow, L/min			Time			Concentration, fibres/mL
				On	Off	Aver.	On Hr	Off Hr	Total min	
20.03.2020	Blank	-	0	-	-	-	-	-	-	-
20.03.2020	A26	1	1	2.00	2.00	2.00	0742	1553	491	<0.01
20.03.2020	A27	1	2	2.00	2.00	2.00	0743	1550	487	<0.01
20.03.2020	A28	1	3	2.00	2.00	2.00	0748	1601	493	<0.01
20.03.2020	A29	1	4	2.00	2.00	2.00	0749	1602	493	<0.01

Sample Type:

- 1 Removal Monitoring
- 4 Clearance Monitoring
- 5 Background Monitoring



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Monitoring Locations:

- 0 Blank
- 1 External, southern side of building, attached to stair fence, 1.8m above ground level.
- 2 Internal, building B, south access, attached to mental pole, 1.8m above ground level.
- 3 External, northern border, adjacent vehicle entrance, temporary fence, 1.8m above ground level.
- 4 External, eastern boundary attached to boundary attached to fence adjacent driveway, 1.8m above ground level.

Remarks:

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Approved Counter:*Signature*

Bing Han

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Bing Han

AIRBORNE ASBESTOS MONITORING REPORT

Date: 26.03.2020
Reference: DRD-87-17407/AAM7
Client: Drumderg Services
Removal Contractor: Drumderg Services
Job Location: Old Court House ,9 Church Street, Newcastle, NSW
Sampler Name/Certificate ID: Matthew Deegan/CON-015
Analytical Method: AAM based on Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres [NOHSC: 3003 (2005)]

Date	Sample Code	Sample Type	Monitor Location	Airflow, L/min			Time			Concentration, fibres/mL
				On	Off	Aver.	On Hr	Off Hr	Total min	
23.03.2020	Blank	-	0	-	-	-	-	-	-	-
23.03.2020	A30	1	1	2.00	2.00	2.00	0739	1509	450	<0.01
23.03.2020	A31	1	2	2.00	2.00	2.00	0741	1510	449	<0.01
23.03.2020	A32	1	3	2.00	2.00	2.00	0742	1515	453	<0.01
23.03.2020	A33	1	4	2.00	2.00	2.00	0745	1521	456	<0.01
23.03.2020	A34	1	5	2.00	2.00	2.00	0747	1522	455	<0.01

Sample Type:

- 1 Removal Monitoring
- 4 Clearance Monitoring
- 5 Background Monitoring



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Monitoring Locations:

- 0 Blank
- 1 External, southern section attached to stair fence, 1.8m above ground level.
- 2 Internal, building B, southern access, attached to mental pole, 1.8m above ground level.
- 3 External, building B, northern access fence, 1.8m above ground level.
- 4 External, northern border adjacent vehicle entrance, temporary fence, 1.8m above ground level.
- 5 External, northern border, adjacent former building A, 1.8m above ground level.

Remarks:

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Information provided by ADE Consulting Group can affect the validity of the results.

Sample analysed as received.

Approved Counter:*Signature*

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AIRBORNE ASBESTOS MONITORING REPORT

Date: 31.03.2020
Reference: DRD-87-17407/AAM8
Client: Drumderg Services
Removal Contractor: Drumderg Services
Job Location: Old Court House ,9 Church Street, Newcastle, NSW
Sampler Name/Certificate ID: Matthew Deegan/CON-015
Analytical Method: AAM based on Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres [NOHSC: 3003 (2005)]

Date	Sample Code	Sample Type	Monitor Location	Airflow, L/min			Time			Concentration, fibres/mL
				On	Off	Aver.	On Hr	Off Hr	Total min	
24.03.2020	Blank	-	0	-	-	-	-	-	-	-
24.03.2020	A35	1	1	1.50	1.50	1.50	0755	1615	500	<0.01
24.03.2020	A36	1	2	2.00	2.00	2.00	0756	1616	500	<0.01
24.03.2020	A37	1	3	2.00	2.00	2.00	0759	1618	499	<0.01
24.03.2020	A38	1	4	2.00	2.00	2.00	0801	1624	500	<0.01
24.03.2020	A39	1	5	2.00	2.00	2.00	0805	1623	498	<0.01

Sample Type:

- 1 Removal Monitoring
- 4 Clearance Monitoring
- 5 Background Monitoring



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Monitoring Locations:

- 0 Blank
- 1 External, building B southern section of site, attached to temporary fencing, 1.8m above ground level.
- 2 Internal, building B, southern access, attached to mental pole, 1.8m above ground level.
- 3 External, building B, northern side of building B, front fence, 1.8m above ground level.
- 4 External, northern border adjacent vehicle entrance, temporary fence, 1.8m above ground level.
- 5 External, northern border, adjacent building A, attached to site fence, 1.8m above ground level.

Remarks:

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Approved Counter:*Signature*

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AIRBORNE ASBESTOS MONITORING REPORT

Date: 31.03.2020
Reference: DRD-87-17407/AAM9
Client: Drumderg Services
Removal Contractor: Drumderg Services
Job Location: Old Court House ,9 Church Street, Newcastle, NSW
Sampler Name/Certificate ID: Matthew Deegan/CON-015
Analytical Method: AAM based on Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres [NOHSC: 3003 (2005)]

Date	Sample Code	Sample Type	Monitor Location	Airflow, L/min			Time			Concentration, fibres/mL
				On	Off	Aver.	On Hr	Off Hr	Total min	
25.03.2020	Blank	-	0	-	-	-	-	-	-	-
25.03.2020	A40	1	1	2.00	2.00	2.00	0735	1555	500	<0.01
25.03.2020	A41	1	2	2.00	2.00	2.00	0738	1554	496	<0.01
25.03.2020	A42	1	3	2.00	2.00	2.00	0740	1558	498	<0.01
25.03.2020	A43	1	4	2.00	2.00	2.00	0743	1605	502	<0.01
25.03.2020	A44	1	5	2.00	2.00	2.00	0744	1603	499	<0.01

Sample Type:

- 1 Removal Monitoring
- 4 Clearance Monitoring
- 5 Background Monitoring



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Monitoring Locations:

- 0 Blank
- 1 External, southern section of site, attached to temporary fence, 1.8m above ground level.
- 2 Internal, building B, southern access, attached to mental pole, 1.8m above ground level.
- 3 External, northern aspect metal fence of building B entrance, 1.8m above ground level.
- 4 External, northern border adjacent vehicle entrance, temporary fence, 1.8m above ground level.
- 5 External, northern boundary attached to boundary fence, adjacent former building A, 1.8m above ground level.

Remarks:

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Information provided by ADE Consulting Group can affect the validity of the results.

Sample analysed as received.

Approved Counter:*Signature*

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AIRBORNE ASBESTOS MONITORING REPORT

Date: 02.04.2020
Reference: DRD-87-17407/AAM10
Client: Drumderg Services
Removal Contractor: Drumderg Services
Job Location: 9 Church Street, Newcastle, NSW
Sampler Name/Certificate ID: Cameron Mitchell/CON-023
Analytical Method: AAM based on Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres [NOHSC: 3003 (2005)]

Date	Sample Code	Sample Type	Monitor Location	Airflow, L/min			Time			Concentration, fibres/mL
				On	Off	Aver.	On Hr	Off Hr	Total min	
30.03.2020	Blank	-	0	-	-	-	-	-	-	-
30.03.2020	A45	1	1	2.00	2.00	2.00	0715	1613	538	<0.01
30.03.2020	A46	1	2	2.00	2.00	2.00	0716	1614	538	<0.01
30.03.2020	A47	1	3	2.00	2.00	2.00	0716	1614	538	<0.01
30.03.2020	A48	1	4	2.00	2.00	2.00	0717	1615	538	<0.01
30.03.2020	A49	1	5	2.00	2.00	2.00	0720	1615	535	<0.01

Sample Type:

- 1 Removal Monitoring
- 4 Clearance Monitoring
- 5 Background Monitoring



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Monitoring Locations:

- 0 Blank
- 1 9 Church street, building A, southwest corner, temporary fence 1.8m above ground level.
- 2 9 Church street, building A, southeast corner, metal gate, 1.8m above ground level.
- 3 9 Church street, building A, eastern boundary, 20m south of northeast corner, metal fence, 1.8m above ground level.
- 4 9 Church street, building A, 3m west of north east corner, precast concrete panel, 1.8m above ground level.
- 5 9 Church street, building A, 40m west of north east corner, precast concrete panel, 1.8m above ground level.

Remarks:

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Approved Counter:*Signature*

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Approved Signatory:*Signature*

Bing Han

AIRBORNE ASBESTOS MONITORING REPORT

Date: 08.04.2020
Reference: DRD-87-17407/AAM11
Client: Drumderg Services
Removal Contractor: Drumderg Services
Job Location: 9 Church Street, Newcastle, NSW
Sampler Name/Certificate ID: Cameron Mitchell/CON-023
Analytical Method: AAM based on Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres [NOHSC: 3003 (2005)]

Date	Sample Code	Sample Type	Monitor Location	Airflow, L/min			Time			Concentration, fibres/mL
				On	Off	Aver.	On Hr	Off Hr	Total min	
31.03.2020	Blank	-	0	-	-	-	-	-	-	-
31.03.2020	A50	1	1	2.00	2.00	2.00	0714	1632	558	<0.01
31.03.2020	A51	1	2	2.00	2.00	2.00	0726	1634	548	<0.01
31.03.2020	A52	1	3	2.00	2.00	2.00	0727	1636	549	<0.01
31.03.2020	A53	1	4	2.00	2.00	2.00	0728	1636	548	<0.01
31.03.2020	A54	1	5	2.00	2.00	2.00	0729	1637	548	<0.01

Sample Type:

- 1 Removal Monitoring
- 4 Clearance Monitoring
- 5 Background Monitoring



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Monitoring Locations:

- 0 Blank
- 1 9 Church street, building A, southwest corner, temporary fence 1.8m above ground level.
- 2 9 Church street, building A, southeast corner, metal gate, 1.8m above ground level.
- 3 9 Church street, building A, eastern boundary, 20m south of northeast corner, metal fence, 1.8m above ground level.
- 4 9 Church street, building A, 3m west of north east corner, precast concrete panel, 1.8m above ground level.
- 5 9 Church street, building A, 40m west of north east corner, precast concrete panel, 1.8m above ground level.

Remarks:

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Approved Counter:*Signature*

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Approved Signatory:*Signature*

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AIRBORNE ASBESTOS MONITORING REPORT

Date: 08.04.2020
Reference: DRD-87-17407/AAM12
Client: Drumderg Services
Removal Contractor: Drumderg Services
Job Location: 9 Church Street, Newcastle, NSW
Sampler Name/Certificate ID: Cameron Mitchell/CON-023
Analytical Method: AAM based on Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres [NOHSC: 3003 (2005)]

Date	Sample Code	Sample Type	Monitor Location	Airflow, L/min			Time			Concentration, fibres/mL
				On	Off	Aver.	On Hr	Off Hr	Total min	
01.04.2020	Blank	-	0	-	-	-	-	-	-	-
01.04.2020	A55	1	1	2.00	2.00	2.00	0725	1445	440	<0.01
01.04.2020	A56	1	2	2.00	2.00	2.00	0726	1445	439	<0.01
01.04.2020	A57	1	3	2.00	2.00	2.00	0727	1446	439	<0.01
01.04.2020	A58	1	4	2.00	2.00	2.00	0727	1446	439	<0.01
01.04.2020	A59	1	5	2.00	2.00	2.00	0728	1447	439	<0.01

Sample Type:

- 1 Removal Monitoring
- 4 Clearance Monitoring
- 5 Background Monitoring



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Monitoring Locations:

- 0 Blank
- 1 9 Church street, building A, southwest corner, temporary fence 1.8m above ground level.
- 2 9 Church street, building A, southeast corner, metal gate, 1.8m above ground level.
- 3 9 Church street, building A, eastern boundary, 20m south of northeast corner, metal fence, 1.8m above ground level.
- 4 9 Church street, building A, 3m west of north east corner, timber stud wall, 1.8m above ground level.
- 5 9 Church street, building A, 40m west of north east corner, timber stud wall, 1.8m above ground level.

Remarks:

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Approved Counter:*Signature*

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Approved Signatory:*Signature*

Bing Han

AIRBORNE ASBESTOS MONITORING REPORT

Date: 08.04.2020
Reference: DRD-87-17407/AAM13
Client: Drumderg Services
Removal Contractor: Drumderg Services
Job Location: 9 Church Street, Newcastle, NSW
Sampler Name/Certificate ID: Cameron Mitchell/CON-023
Analytical Method: AAM based on Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres [NOHSC: 3003 (2005)]

Date	Sample Code	Sample Type	Monitor Location	Airflow, L/min			Time			Concentration, fibres/mL
				On	Off	Aver.	On Hr	Off Hr	Total min	
02.04.2020	Blank	-	0	-	-	-	-	-	-	-
02.04.2020	A60	1	1	2.00	2.00	2.00	0729	1621	532	N/A*
02.04.2020	A61	1	2	2.00	2.00	2.00	0730	1622	532	<0.01
02.04.2020	A62	1	3	2.00	2.00	2.00	0731	1625	534	<0.01
02.04.2020	A63	1	4	2.00	2.00	2.00	0731	1625	534	<0.01
02.04.2020	A64	1	5	2.00	2.00	2.00	0732	1626	534	<0.01

*Air filter overloaded with dust.

Sample Type:

- 1 Removal Monitoring
- 4 Clearance Monitoring
- 5 Background Monitoring



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Monitoring Locations:

- 0 Blank
- 1 9 Church street, building A, southwest corner, temporary fence 1.8m above ground level.
- 2 9 Church street, building A, southeast corner, metal gate, 1.8m above ground level.
- 3 9 Church street, building A, eastern boundary, 20m south of north east corner, metal fence, 1.8m above ground level.
- 4 9 Church street, building A, 3m west of north east corner, timber stud wall, 1.8m above ground level.
- 5 9 Church street, building A, 40m west of north east corner, timber stud wall, 1.8m above ground level.

Remarks:

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Approved Counter:*Signature*

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Approved Signatory:*Signature*

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AIRBORNE ASBESTOS MONITORING REPORT

Date: 08.04.2020
Reference: DRD-87-17407/AAM14
Client: Drumderg Services
Removal Contractor: Drumderg Services
Job Location: 9 Church Street, Newcastle, NSW
Sampler Name/Certificate ID: Cameron Mitchell/CON-023
Analytical Method: AAM based on Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres [NOHSC: 3003 (2005)]

Date	Sample Code	Sample Type	Monitor Location	Airflow, L/min			Time			Concentration, fibres/mL
				On	Off	Aver.	On Hr	Off Hr	Total min	
03.04.2020	Blank	-	0	-	-	-	-	-	-	-
03.04.2020	A65	1	1	2.00	2.00	2.00	0726	1615	529	<0.01
03.04.2020	A66	1	2	2.00	2.00	2.00	0728	1617	529	<0.01
03.04.2020	A67	1	3	2.00	2.00	2.00	0730	1617	527	<0.01
03.04.2020	A68	1	4	2.00	2.00	2.00	0730	1618	528	<0.01
03.04.2020	A69	1	5	2.00	2.00	2.00	0731	1618	527	<0.01

Sample Type:

- 1 Removal Monitoring
- 4 Clearance Monitoring
- 5 Background Monitoring



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Monitoring Locations:

- 0 Blank
- 1 9 Church street, building A, southwest corner, temporary fence 1.8m above ground level.
- 2 9 Church street, building A, southeast corner, metal gate, 1.8m above ground level.
- 3 9 Church street, building A, eastern boundary, 20m south of north east corner, metal fence, 1.8m above ground level.
- 4 9 Church street, building A, 3m west of north east corner, timber stud wall, 1.8m above ground level.
- 5 9 Church street, building A, 40m west of north east corner, timber stud wall, 1.8m above ground level.

Remarks:

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Approved Counter:*Signature*

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Approved Signatory:*Signature*

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AIRBORNE ASBESTOS MONITORING REPORT

Date: 15.04.2020
Reference: DRD-87-17407/AAM15
Client: Drumderg Services
Removal Contractor: Drumderg Services
Job Location: 9 Church Street, Newcastle, NSW.
Sampler Name/Certificate ID: Cameron Mitchell/CON-023
Analytical Method: AAM based on Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres [NOHSC: 3003 (2005)]

Date	Sample Code	Sample Type	Monitor Location	Airflow, L/min			Time			Concentration, fibres/mL
				On	Off	Aver.	On Hr	Off Hr	Total min	
07.04.2020	Blank	-	0	-	-	-	-	-	-	-
07.04.2020	A70	1	1	2.00	2.00	2.00	0904	1617	433	<0.01
07.04.2020	A71	1	2	2.00	2.00	2.00	0905	1617	432	<0.01
07.04.2020	A72	1	3	2.00	2.00	2.00	0907	1618	431	<0.01
07.04.2020	A73	1	4	2.00	2.00	2.00	0908	1619	431	<0.01
07.04.2020	A74	1	5	2.00	2.00	2.00	0908	1619	431	<0.01

Sample Type:

- 1 Removal Monitoring
- 4 Clearance Monitoring
- 5 Background Monitoring



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Monitoring Locations:

- 0 Blank
- 1 9 Church street, former buildings 'A', south west corner, side of shipping container, 1.8m above ground level.
- 2 9 Church street, former buildings 'A', south west corner, metal gate, 1.8m above ground level.
- 3 9 Church street, former buildings 'A', eastern boundary, 20m south of north east corner, metal fence, 1.8m above ground level.
- 4 9 Church street, former buildings 'A', northern boundary, 20m west of north east corner, timber stud wall, 1.8m above ground level.
- 5 9 Church street, former buildings 'A', western boundary adjacent east of buildings 'B', windowsill, 1.8m above ground level.

Remarks:

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Approved Counter:*Signature*

Bing Han

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Bing Han

AIRBORNE ASBESTOS MONITORING REPORT

Date: 15.04.2020
Reference: DRD-87-17407/AAM16
Client: Drumderg Services
Removal Contractor: Drumderg Services
Job Location: Church Street, Newcastle, Old Newcastle Courthouse, NSW
Sampler Name/Certificate ID: Matthew O'Connor/CON-020
Analytical Method: AAM based on Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres [NOHSC: 3003 (2005)]

Date	Sample Code	Sample Type	Monitor Location	Airflow, L/min			Time			Concentration, fibres/mL
				On	Off	Aver.	On Hr	Off Hr	Total min	
08.04.2020	Blank	-	0	-	-	-	-	-	-	-
08.04.2020	A75	1	1	2.00	2.00	2.00	0724	1657	573	<0.01
08.04.2020	A76	1	2	2.00	2.00	2.00	0727	1658	571	<0.01
08.04.2020	A77	1	3	2.00	2.00	2.00	0731	1655	564	<0.01
08.04.2020	A78	1	4	2.00	2.00	2.00	0734	1659	565	<0.01
08.04.2020	A79	1	5	2.00	2.00	2.00	0735	1653	558	<0.01

Sample Type:

- 1 Removal Monitoring
- 4 Clearance Monitoring
- 5 Background Monitoring



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Monitoring Locations:

- 0 Blank
- 1 Old Newcastle Courthouse, eastern perimeter, 20m north of Church Street, attached too fencing.
- 2 Old Newcastle Courthouse, northern perimeter, 5m west of north-eastern gate, top pf wooden fence strut.
- 3 Old Newcastle Courthouse, south-eastern corner, attached to metal fencing/ gate.
- 4 Old Newcastle Courthouse, northern perimeter, 30m west of gate, on top of electrical box.
- 5 Old Newcastle Courthouse, southern part of site, slipping container adjacent male toilets, attached to eastern green support.

Remarks:

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Information provided by ADE Consulting Group can affect the validity of the results.

Sample analysed as received.

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AIRBORNE ASBESTOS MONITORING REPORT

Date: 20.04.2020
Reference: DRD-87-17407/AAM17
Client: Drumderg Services
Removal Contractor: Drumderg Services
Job Location: Old Newcastle Courthouse, Church Street, Newcastle, NSW
Sampler Name/Certificate ID: Matthew O'Connor/CON-020
Analytical Method: AAM based on Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres [NOHSC: 3003 (2005)]

Date	Sample Code	Sample Type	Monitor Location	Airflow, L/min			Time			Concentration, fibres/mL
				On	Off	Aver.	On Hr	Off Hr	Total min	
09.04.2020	Blank	-	0	-	-	-	-	-	-	-
09.04.2020	A80	1	1	2.00	2.00	2.00	0723	1551	508	<0.01
09.04.2020	A81	1	2	2.00	2.00	2.00	0727	1541	494	<0.01
09.04.2020	A82	1	3	2.00	2.00	2.00	0730	1544	494	<0.01
09.04.2020	A83	1	4	2.00	2.00	2.00	0735	1546	491	<0.01
09.04.2020	A84	1	5	2.00	2.00	2.00	0738	1547	489	<0.01

Sample Type:

- 1 Removal Monitoring
- 4 Clearance Monitoring
- 5 Background Monitoring



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Monitoring Locations:

- 0 Blank
- 1 Old Newcastle Courthouse worksite, southern side slipping container adjacent male toilets, attached to green Custer, metal support.
- 2 Old Newcastle Courthouse, south-eastern corner of site, attached to metal fence/gate.
- 3 Old Newcastle Courthouse worksite, eastern perimeter, 15m south of Church Street, attached to metal fencing.
- 4 Old Newcastle Courthouse worksite, northern perimeter, 5m west of entrance gate, on top of timber fence support.
- 5 Old Newcastle Courthouse worksite, northern perimeter, 5m east of main entrance gate, on top of electrical box.

Remarks:

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AIRBORNE ASBESTOS MONITORING REPORT

Date: 22.04.2020
Reference: DRD-87-17407/AAM18
Client: Drumderg Services
Removal Contractor: Drumderg Services
Job Location: Old Newcastle Courthouse, Church Street, Newcastle, NSW
Sampler Name/Certificate ID: Matthew O'Connor/CON-020
Analytical Method: AAM based on Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres [NOHSC: 3003 (2005)]

Date	Sample Code	Sample Type	Monitor Location	Airflow, L/min			Time			Concentration, fibres/mL
				On	Off	Aver.	On Hr	Off Hr	Total min	
16.04.2020	Blank	-	0	-	-	-	-	-	-	-
16.04.2020	A85	1	1	2.00	2.00	2.00	0825	1651	506	<0.01
16.04.2020	A86	1	2	2.00	2.00	2.00	0833	1652	499	<0.01
16.04.2020	A87	1	3	2.00	2.00	2.00	0834	1653	499	<0.01
16.04.2020	A88	1	4	2.00	2.00	2.00	0841	1647	486	<0.01
16.04.2020	A89	1	5	2.00	2.00	2.00	0844	1648	484	<0.01

Sample Type:

- 1 Removal Monitoring
- 4 Clearance Monitoring
- 5 Background Monitoring



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Monitoring Locations:

- 0 Blank
- 1 Old Newcastle Courthouse, north perimeter, 10m east of main entrance, on top of electrical box.
- 2 Old Newcastle Courthouse, eastern perimeter, 10m south of Church Street, attached to metal fencing.
- 3 Old Newcastle Courthouse, southern side of site, shipping container adjacent male toilet, attached to eastern green support stick.
- 4 Old Newcastle Courthouse, main entrance, eastern side, attached to metal fence.
- 5 Old Newcastle Courthouse, interior, north-western courtroom, western side, top of bench.

Remarks:

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Information provided by ADE Consulting Group can affect the validity of the results.

Sample analysed as received.

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AIRBORNE ASBESTOS MONITORING REPORT

Date: 23.04.2020
Reference: DRD-87-17407/AAM19
Client: Drumderg Services
Removal Contractor: Drumderg Services
Job Location: Old Newcastle Courthouse, Church Street, Newcastle, NSW
Sampler Name/Certificate ID: Matthew O'Connor/CON-020
Analytical Method: AAM based on Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres [NOHSC: 3003 (2005)]

Date	Sample Code	Sample Type	Monitor Location	Airflow, L/min			Time			Concentration, fibres/mL
				On	Off	Aver.	On Hr	Off Hr	Total min	
17.04.2020	Blank	-	0	-	-	-	-	-	-	-
17.04.2020	A90	1	1	2.00	2.00	2.00	1002	1631	389	<0.01
17.04.2020	A91	1	2	2.00	2.00	2.00	1007	1632	385	<0.01
17.04.2020	A92	1	3	2.00	2.00	2.00	1010	1634	384	<0.01
17.04.2020	A93	1	4	2.00	2.00	2.00	1013	1625	372	<0.01
17.04.2020	A94	1	5	2.00	2.00	2.00	1017	1627	370	N/A*

*Air filter overloaded with dust.

Sample Type:

- 1 Removal Monitoring
- 4 Clearance Monitoring
- 5 Background Monitoring



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Monitoring Locations:

- 0 Blank
- 1 Old Newcastle Courthouse, southern site, shipping container adjacent male toilet, attached to eastern green support strut.
- 2 Old Newcastle Courthouse, eastern perimeter, 10m south of Church Street, attached to metal fencing.
- 3 Old Newcastle Courthouse, northern perimeter, 10m east of main entrance gate, top of electrical box.
- 4 Old Newcastle Courthouse, main entrance staircase, eastern side, attached to metal fencing.
- 5 Old Newcastle Courthouse, level 2 interior multipurpose wall, attached to scaffolding.

Remarks:

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AIRBORNE ASBESTOS MONITORING REPORT

Date: 23.04.2020
Reference: DRD-87-17407/AAM20
Client: Drumderg Services
Removal Contractor: Drumderg Services
Job Location: Old Newcastle Courthouse, Church Street, Newcastle, NSW
Sampler Name/Certificate ID: Matthew O'Connor/CON-020
Analytical Method: AAM based on Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres [NOHSC: 3003 (2005)]

Date	Sample Code	Sample Type	Monitor Location	Airflow, L/min			Time			Concentration, fibres/mL
				On	Off	Aver.	On Hr	Off Hr	Total min	
18.04.2020	Blank	-	0	-	-	-	-	-	-	-
18.04.2020	A95	1	1	2.00	2.00	2.00	0730	1232	302	<0.01
18.04.2020	A96	1	2	2.00	2.00	2.00	0734	1233	299	<0.01
18.04.2020	A97	1	3	2.00	2.00	2.00	0739	1234	295	<0.01
18.04.2020	A98	1	4	2.00	2.00	2.00	0743	1235	292	<0.01
18.04.2020	A99	1	5	2.00	2.00	2.00	0744	1236	292	<0.01

Sample Type:

- 1 Removal Monitoring
- 4 Clearance Monitoring
- 5 Background Monitoring



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Monitoring Locations:

- 0 Blank
- 1 Old Newcastle Courthouse, level 2, multipurpose wall, middle of room, attached to scaffolding.
- 2 Old Newcastle Courthouse, main entrance staircase, eastern side, attached to metal fencing.
- 3 Old Newcastle Courthouse, northern perimeter, 10m east of main entrance gate, top of electrical box.
- 4 Old Newcastle Courthouse, eastern perimeter, 10m south of Church Street, attached to metal fencing.
- 5 Old Newcastle Courthouse, southern site, shipping container adjacent male toilet, attached to eastern green support strut.

Remarks:

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AIRBORNE ASBESTOS MONITORING REPORT

Date: 24.04.2020
Reference: DRD-87-17407/AAM21
Client: Drumderg Services
Removal Contractor: Drumderg Services
Job Location: Old Newcastle Courthouse, Church Street, Newcastle, NSW
Sampler Name/Certificate ID: Matthew O'Connor/CON-020
Analytical Method: AAM based on Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres [NOHSC: 3003 (2005)]

Date	Sample Code	Sample Type	Monitor Location	Airflow, L/min			Time			Concentration, fibres/mL
				On	Off	Aver.	On Hr	Off Hr	Total min	
20.04.2020	Blank	-	0	-	-	-	-	-	-	-
20.04.2020	A100	1	1	2.00	2.00	2.00	0727	1636	549	N/A*
20.04.2020	A101	1	2	2.00	2.00	2.00	0734	1637	543	<0.01
20.04.2020	A102	1	3	2.00	2.00	2.00	0737	1639	542	<0.01
20.04.2020	A103	1	4	2.00	2.00	2.00	0740	1640	540	<0.01
20.04.2020	A104	1	5	2.00	2.00	2.00	0741	1641	540	<0.01

*Air filter overloaded with dust.

Sample Type:

- 1 Removal Monitoring
- 4 Clearance Monitoring
- 5 Background Monitoring



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Monitoring Locations:

- 0 Blank
- 1 Old Newcastle Courthouse, level 2, multipurpose wall, centre of room, attached to scaffolding.
- 2 Old Newcastle Courthouse, main entrance staircase, eastern side, attached to metal fencing.
- 3 Old Newcastle Courthouse, northern perimeter, approximately 8m east of main entrance gate, on top of electrical box.
- 4 Old Newcastle Courthouse, eastern perimeter, approximately 10m south of Church Street, attached to metal fencing.
- 5 Old Newcastle Courthouse, southern site, shipping container adjacent male toilet, eastern green support strut.

Remarks:

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AIRBORNE ASBESTOS MONITORING REPORT

Date: 24.04.2020
Reference: DRD-87-17407/AAM22
Client: Drumderg Services
Removal Contractor: Drumderg Services
Job Location: Old Newcastle Courthouse, Church Street, Newcastle, NSW
Sampler Name/Certificate ID: Matthew O'Connor/CON-020
Analytical Method: AAM based on Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres [NOHSC: 3003 (2005)]

Date	Sample Code	Sample Type	Monitor Location	Airflow, L/min			Time			Concentration, fibres/mL
				On	Off	Aver.	On Hr	Off Hr	Total min	
21.04.2020	Blank	-	0	-	-	-	-	-	-	-
21.04.2020	A105	1	1	2.00	2.00	2.00	0759	1643	524	<0.01
21.04.2020	A106	1	2	2.00	2.00	2.00	0800	1644	524	<0.01
21.04.2020	A107	1	3	2.00	2.00	2.00	0803	1647	524	<0.01
21.04.2020	A108	1	4	2.00	2.00	2.00	0803	1648	525	<0.01
21.04.2020	A109	1	5	2.00	2.00	2.00	0804	1649	525	<0.01

Sample Type:

- 1 Removal Monitoring
- 4 Clearance Monitoring
- 5 Background Monitoring



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Monitoring Locations:

- 0 Blank
- 1 Old Newcastle Courthouse, interior, level 2, multipurpose wall, centre of room, attached to scaffolding.
- 2 Old Newcastle Courthouse, main entrance gate, eastern side, attached to metal fencing.
- 3 Old Newcastle Courthouse, northern perimeter, approximately 8m east of main entrance gate, on top of electrical box.
- 4 Old Newcastle Courthouse, eastern perimeter, approximately 10m south of Church Street, attached to metal fencing.
- 5 Old Newcastle Courthouse, southern site, shipping container adjacent male toilet, attached to eastern green support strut.

Remarks:

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AIRBORNE ASBESTOS MONITORING REPORT

Date: 24.04.2020
Reference: DRD-87-17407/AAM23
Client: Drumderg Services
Removal Contractor: Drumderg Services
Job Location: Old Newcastle Courthouse, Church Street, Newcastle, NSW
Sampler Name/Certificate ID: Matthew O'Connor/CON-020
Analytical Method: AAM based on Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres [NOHSC: 3003 (2005)]

Date	Sample Code	Sample Type	Monitor Location	Airflow, L/min			Time			Concentration, fibres/mL
				On	Off	Aver.	On Hr	Off Hr	Total min	
22.04.2020	Blank	-	0	-	-	-	-	-	-	-
22.04.2020	A110	1	1	2.00	2.00	2.00	0744	1627	523	<0.01
22.04.2020	A111	1	2	2.00	2.00	2.00	0747	1628	521	N/A*
22.04.2020	A112	1	3	2.00	2.00	2.00	0754	1631	517	<0.01
22.04.2020	A113	1	4	2.00	2.00	2.00	0756	1632	516	N/A*
22.04.2020	A114	1	5	2.00	2.00	2.00	0757	1632	515	<0.01

*Air filter overloaded with dust.

Sample Type:

- 1 Removal Monitoring
- 4 Clearance Monitoring
- 5 Background Monitoring



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Monitoring Locations:

- 0 Blank
- 1 Old Newcastle Courthouse, interior, level 2, multipurpose wall, centre of room, attached to scaffolding.
- 2 Old Newcastle Courthouse, main entrance, eastern side, attached to metal fencing.
- 3 Old Newcastle Courthouse, northern perimeter, 8m east of main entrance gate, top of electrical box.
- 4 Old Newcastle Courthouse, eastern perimeter, 10m south of Church Street, attached to metal fencing.
- 5 Old Newcastle Courthouse, southern site, shipping container adjacent male toilet, attached to eastern green support beam.

Remarks:

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AIRBORNE ASBESTOS MONITORING REPORT

Date: 30.04.2020
Reference: DRD-87-17407/AAM24
Client: Drumderg Services
Removal Contractor: Drumderg Services
Job Location: Old Newcastle Courthouse, Church Street, Newcastle, NSW
Sampler Name/Certificate ID: Matthew O'Connor/CON-020
Analytical Method: AAM based on Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres [NOHSC: 3003 (2005)]

Date	Sample Code	Sample Type	Monitor Location	Airflow, L/min			Time			Concentration, fibres/mL
				On	Off	Aver.	On Hr	Off Hr	Total min	
23.04.2020	Blank	-	0	-	-	-	-	-	-	-
23.04.2020	A115	1	1	2.00	2.00	2.00	0753	1659	546	<0.01
23.04.2020	A116	1	2	2.00	2.00	2.00	0756	1701	545	<0.01
23.04.2020	A117	1	3	2.00	2.00	2.00	0759	1656	537	<0.01
23.04.2020	A118	1	4	2.00	2.00	2.00	0759	1659	540	<0.01
23.04.2020	A119	1	5	2.00	2.00	2.00	0801	1654	533	<0.01

Sample Type:

- 1 Removal Monitoring
- 4 Clearance Monitoring
- 5 Background Monitoring



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Monitoring Locations:

- 0 Blank
- 1 Old Newcastle Courthouse, interior, multipurpose wall, centre of room, attached to scaffolding.
- 2 Old Newcastle Courthouse, northern exterior, main entrance, eastern side, attached gate.
- 3 Old Newcastle Courthouse, northern perimeter, 8m east of main entrance, top of electrical box.
- 4 Old Newcastle Courthouse, eastern perimeter, 10m south of Church Street, attached to metal fencing.
- 5 Old Newcastle Courthouse, southern site, shipping container adjacent male toilet, attached to eastern green support strut.

Remarks:

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AIRBORNE ASBESTOS MONITORING REPORT

Date: 01.05.2020
Reference: DRD-87-17407/AAM25
Client: Drumderg Services
Removal Contractor: Drumderg Services
Job Location: Old Newcastle Courthouse, Church Street, Newcastle, NSW
Sampler Name/Certificate ID: Matthew O'Connor/CON-020
Analytical Method: AAM based on Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres [NOHSC: 3003 (2005)]

Date	Sample Code	Sample Type	Monitor Location	Airflow, L/min			Time			Concentration, fibres/mL
				On	Off	Aver.	On Hr	Off Hr	Total min	
24.04.2020	Blank	-	0	-	-	-	-	-	-	-
24.04.2020	A120	1	1	2.00	2.00	2.00	0824	1607	463	<0.01
24.04.2020	A121	1	2	2.00	2.00	2.00	0827	1607	460	<0.01
24.04.2020	A122	1	3	2.00	2.00	2.00	0833	1614	461	<0.01
24.04.2020	A123	1	4	2.00	2.00	2.00	0838	1615	457	<0.01
24.04.2020	A124	1	5	2.00	2.00	2.00	0842	1616	454	<0.01

Sample Type:

- 1 Removal Monitoring
- 4 Clearance Monitoring
- 5 Background Monitoring



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Monitoring Locations:

- 0 Blank
- 1 Old Newcastle Courthouse, interior, multipurpose wall, centre of room, attached to scaffolding.
- 2 Old Newcastle Courthouse, main entrance, top of stairs, attached to eastern gate/fence.
- 3 Old Newcastle Courthouse, southern exterior, eastern side of shipping container adjacent to male toilets.
- 4 Old Newcastle Courthouse, eastern perimeter, 10m south of Church Street, attached to metal (red) fence.
- 5 Old Newcastle Courthouse, northern exterior, 10m east of main entrance, a top orange electricity box.

Remarks:

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AIRBORNE ASBESTOS MONITORING REPORT

Date: 01.05.2020
Reference: DRD-87-17407/AAM26
Client: Drumderg Services
Removal Contractor: Drumderg Services
Job Location: Old Newcastle Courthouse, Church Street, Newcastle, NSW
Sampler Name/Certificate ID: Matthew O'Connor/CON-020
Analytical Method: AAM based on Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres [NOHSC: 3003 (2005)]

Date	Sample Code	Sample Type	Monitor Location	Airflow, L/min			Time			Concentration, fibres/mL
				On	Off	Aver.	On Hr	Off Hr	Total min	
28.04.2020	Blank	-	0	-	-	-	-	-	-	-
28.04.2020	A125	1	1	2.00	2.00	2.00	0808	1700	532	<0.01
28.04.2020	A126	1	2	2.00	2.00	2.00	0814	1658	524	N/A*
28.04.2020	A127	1	3	2.00	2.00	2.00	0818	1703	525	N/A*
28.04.2020	A128	1	4	2.00	2.00	2.00	0822	1705	523	<0.01
28.04.2020	A129	1	5	2.00	2.00	2.00	0827	1706	519	<0.01

*Air filter overloaded with dust.

Sample Type:

- 1 Removal Monitoring
- 4 Clearance Monitoring
- 5 Background Monitoring



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Monitoring Locations:

- 0 Blank
- 1 Old Newcastle Courthouse, church street, northern perimeter, attached to temporary fencing adjacent to main temporary entrance.
- 2 Old Newcastle Courthouse, church street, interior, western corridor, adjacent to Drumderg office, attached to wooden pole/beam next to site notice board.
- 3 Old Newcastle Courthouse, church street, exterior, southern side, attached to side of shipping container.
- 4 Old Newcastle Courthouse, church street, eastern area/ perimeter, attached to far perimeter red fence.
- 5 Old Newcastle Courthouse, church street, northern perimeter, attached temporary wooden exclusion zone, adjacent exterior construction area.

Remarks:

Sydney Laboratory Services is responsible for all the information in the report, except that provided by the customer. All sampling information included in the report has been provided by customer, ADE Consulting Group. Information provided by ADE Consulting Group can affect the validity of the results. Sample analysed as received.

Approved Counter:*Signature*

Bing Han

Approved Signatory:*Signature*

Bing Han

AIRBORNE ASBESTOS MONITORING REPORT

Date: 20.05.2020
Reference: DRD-87-17407/AAM27
Client: Drumderg Services
Removal Contractor: Drumderg Services
Job Location: Old Newcastle Courthouse, Church Street, Newcastle, NSW
Sampler Name/Certificate ID: Cameron Mitchell/CON-023
Analytical Method: AAM based on Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres [NOHSC: 3003 (2005)]

Date	Sample Code	Sample Type	Monitor Location	Airflow, L/min			Time			Concentration, fibres/mL
				On	Off	Aver.	On Hr	Off Hr	Total min	
19.05.2020	Blank	-	0	-	-	-	-	-	-	-
19.05.2020	A130	1	1	2.00	2.00	2.00	1101	1632	331	<0.01
19.05.2020	A131	1	2	2.00	2.00	2.00	1101	1632	331	N/A*
19.05.2020	A132	1	3	2.00	2.00	2.00	1108	1631	323	<0.01
19.05.2020	A133	1	4	2.00	2.00	2.00	1110	1621	319	<0.01
19.05.2020	A134	1	5	2.00	2.00	2.00	1117	1630	313	<0.01

*Air filter overloaded with dust.

Sample Type:

- 1 Removal Monitoring
- 4 Clearance Monitoring
- 5 Background Monitoring



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Monitoring Locations:

- 0 Blank
- 1 Church Street, Buildings C, Northern boundary, 10m west of north west corner, attached to Stud Wall, 1.9m above ground level.
- 2 Church Street, building C, western boundary, 30m south of north west corner, attached to fence, 2.0m above ground level.
- 3 Church Street, building C, south east corner, attached temporary fence, 1.8m above ground level.
- 4 Church Street, building C, northern boundary, 5m east of access gate, attached to Stud Wall, 1.9m above ground level.
- 5 Church Street, building C, south west corner, attached to mental Fence, 1.9m above ground level.

Remarks:

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Approved Counter:*Signature*

Bing Han

Approved Signatory:*Signature*

Bing Han

AIRBORNE ASBESTOS MONITORING REPORT

Date: 22.05.2020
Reference: DRD-87-17407/AAM28
Client: Drumderg Services
Removal Contractor: Drumderg Services
Job Location: Old Newcastle Courthouse, Church Street, Newcastle, NSW
Sampler Name/Certificate ID: Cameron Mitchell/CON-023
Analytical Method: AAM based on Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres [NOHSC: 3003 (2005)]

Date	Sample Code	Sample Type	Monitor Location	Airflow, L/min			Time			Concentration, fibres/mL
				On	Off	Aver.	On Hr	Off Hr	Total min	
20.05.2020	Blank	-	0	-	-	-	-	-	-	-
20.05.2020	A135	1	1	2.00	2.00	2.00	0715	1611	536	<0.01
20.05.2020	A136	1	2	2.00	2.00	2.00	0718	1611	533	<0.01
20.05.2020	A137	1	3	2.00	2.00	2.00	0720	1612	532	N/A*
20.05.2020	A138	1	4	2.00	2.00	2.00	0721	1613	532	<0.01

*Air filter overloaded with dust

Sample Type:

- 1 Removal Monitoring
- 4 Clearance Monitoring
- 5 Background Monitoring



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Monitoring Locations:

- 0 Blank
- 1 Church Street, Northern boundary, 5m west of Access Gate, building C, attached to Stud Wall, 1.9m above ground level.
- 2 Church Street, building C, south east corner, attached to temporary fence, 1.8m above ground level.
- 3 Church Street, building C, north west corner, attached PLN wood wall, 1.9m above ground level.
- 4 Church Street, building C, south west corner, attached to western boundary fence, approximately 1.8m above ground level.

Remarks:

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Information provided by ADE Consulting Group can affect the validity of the results.

Sample analysed as received.

Approved Counter:*Signature*

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Approved Signatory:*Signature*

Bing Han

AIRBORNE ASBESTOS MONITORING REPORT

Date: 28.05.2020
Reference: DRD-87-17407/AAM29
Client: Drumderg Services
Removal Contractor: Drumderg Services
Job Location: 9 Church Street, Newcastle NSW
Sampler Name/Certificate ID: Cameron Mitchell/CON-023
Analytical Method: AAM based on Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres [NOHSC: 3003 (2005)]

Date	Sample Code	Sample Type	Monitor Location	Airflow, L/min			Time			Concentration, fibres/mL
				On	Off	Aver.	On Hr	Off Hr	Total min	
23.05.2020	Blank	-	0	-	-	-	-	-	-	-
23.05.2020	A139	1	1	2.00	2.00	2.00	0705	1318	373	N/A*
23.05.2020	A140	1	2	2.00	2.00	2.00	0707	1318	371	N/A*
23.05.2020	A141	1	3	2.00	2.00	2.00	0707	1319	372	N/A*
23.05.2020	A142	1	4	2.00	2.00	2.00	0708	1319	371	N/A*
23.05.2020	A143	1	5	2.00	2.00	2.00	0710	1320	370	<0.01

* Air filter overloaded with dust.

Sample Type:

- 1 Removal Monitoring
- 4 Clearance Monitoring
- 5 Background Monitoring



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Monitoring Locations:

- 0 Blank
- 1 Building B, outside 'built' office, entry hallway, 1.9m above ground level.
- 2 Building B, courtroom 4, central doorway, 1.7m above ground level.
- 3 Building B, lunchroom, entry doorway, 1.9m above ground level.
- 4 Building B, courtroom 3 north doorway, 1.8m above ground level.
- 5 Building B, entry, western doorway, 1.7m above ground level.

Remarks:

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Approved Counter:*Signature*

Matthew Deegan

Approved Signatory:*Signature*

Bing Han

AIRBORNE ASBESTOS MONITORING REPORT

Date: 28.05.2020
Reference: DRD-87-17407/AAM30
Client: Drumderg Services
Removal Contractor: Drumderg Services
Job Location: 9 Church Street, Newcastle NSW
Sampler Name/Certificate ID: Cameron Mitchell/CON-023
Analytical Method: AAM based on Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres [NOHSC: 3003 (2005)]

Date	Sample Code	Sample Type	Monitor Location	Airflow, L/min			Time			Concentration, fibres/mL
				On	Off	Aver.	On Hr	Off Hr	Total min	
25.05.2020	Blank	-	0	-	-	-	-	-	-	-
25.05.2020	A144	1	1	2.00	2.00	2.00	0713	1557	524	N/A*
25.05.2020	A145	1	2	2.00	2.00	2.00	0715	1557	522	<0.01
25.05.2020	A146	1	3	2.00	2.00	2.00	0717	1556	519	N/A*
25.05.2020	A147	1	4	2.00	2.00	2.00	0719	1554	515	N/A*

*Air filter overloaded with dust

Sample Type:

- 1 Removal Monitoring
- 4 Clearance Monitoring
- 5 Background Monitoring



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Monitoring Locations:

- 0 Blank
- 1 9 Church Street Newcastle, old Newcastle Courthouse, interior, doorway of lunchroom, 1.8m above ground level.
- 2 9 Church Street Newcastle, old Newcastle Courthouse, interior, attached to metal temporary fencing, 1.8m in hallway outside lunchroom.
- 3 9 Church Street Newcastle, old Newcastle Courthouse, interior, above doorway, in hallway, 1.8m next to entrance to Courtroom(centre).
- 4 9 Church Street Newcastle, old Newcastle Courthouse, interior, 1.8m in main hallway, attached to build safe signage (white storage).

Remarks:

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Approved Counter:*Signature*

Matthew Deegan

Approved Signatory:*Signature*

Bing Han

AIRBORNE ASBESTOS MONITORING REPORT

Date: 04.06.2020
Reference: DRD-87-17407/AAM31
Client: Drumderg Services
Removal Contractor: Drumderg Services
Job Location: 9 Church Street, Newcastle NSW
Sampler Name/Certificate ID: Cameron Mitchell/CON-023
Analytical Method: AAM based on Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres [NOHSC: 3003 (2005)]

Date	Sample Code	Sample Type	Monitor Location	Airflow, L/min			Time			Concentration, fibres/mL
				On	Off	Aver.	On Hr	Off Hr	Total min	
02.06.2020	Blank	-	0	-	-	-	-	-	-	-
02.06.2020	A148	1	1	2.00	2.00	2.00	0736	1558	502	N/A*
02.06.2020	A149	1	2	2.00	2.00	2.00	0738	1559	501	N/A*
02.06.2020	A150	1	3	2.00	2.00	2.00	0741	1600	499	N/A*
02.06.2020	A151	1	4	2.00	2.00	2.00	0742	1601	499	N/A*

*Air filter overloaded with dust.

Sample Type:

- 1 Removal Monitoring
- 4 Clearance Monitoring
- 5 Background Monitoring



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Monitoring Locations:


- 0 Blank
- 1 Nihon University, 9 Church Street interior, building B, adjacent admin office& lecture hall, in hallway, attached to Exit sign, 1.8m above ground level.
- 2 Nihon University, 9 Church Street interior, building B, in hallway above door '17', adjacent work area entry, 1.9m above ground level.
- 3 Nihon University, 9 Church Street interior, building B, in hallway in door frame, adjacent former toilets & lunchroom, 1.9m above ground level.
- 4 Nihon University, 9 Church Street interior, building B, attached to door frame of former lunchroom, 1.9m above ground level.

Remarks:

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Information provided by ADE Consulting Group can affect the validity of the results.
Sample analysed as received.

Approved Counter:
Signature

Matthew Deegan

Approved Signatory:
Signature

Bing Han

AIRBORNE ASBESTOS MONITORING REPORT

Date: 04.06.2020
Reference: DRD-87-17407/AAM32
Client: Drumderg Services
Removal Contractor: Drumderg Services
Job Location: 9 Church Street, Newcastle NSW
Sampler Name/Certificate ID: Joshua Foy/CON-054
Analytical Method: AAM based on Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres [NOHSC: 3003 (2005)]

Date	Sample Code	Sample Type	Monitor Location	Airflow, L/min			Time			Concentration, fibres/mL
				On	Off	Aver.	On Hr	Off Hr	Total min	
02.06.2020	Blank	-	0	-	-	-	-	-	-	-
02.06.2020	A152	1	1	2.00	2.00	2.00	0751	1606	495	<0.01
02.06.2020	A153	1	2	2.00	2.00	2.00	0753	1608	495	<0.01
02.06.2020	A154	1	3	2.00	2.00	2.00	0755	1609	494	<0.01
02.06.2020	A155	1	4	2.00	2.00	2.00	0757	1610	493	<0.01

Sample Type:

- 1 Removal Monitoring
- 4 Clearance Monitoring
- 5 Background Monitoring



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Monitoring Locations:

- 0 Blank
- 1 Nihon University, 9 Church Street Newcastle, area C, north west corner, on top of white perimeter wall, adjacent sliding gate, 1.9m above ground level.
- 2 Nihon University, 9 Church Street Newcastle, area C, north east corner, attach to black metal fencing, 1.7m above ground level.
- 3 Nihon University, 9 Church Street Newcastle, area C, south east corner, on top of cement perimeter, 1.9m above ground level.
- 4 Nihon University, 9 Church Street Newcastle, area C, south west corner, on top of great wall, at corner of building B, adjacent aircon unit, 1.7m above ground level.

Remarks:

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Approved Counter:*Signature*

Matthew Deegan

Approved Signatory:*Signature*

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AIRBORNE ASBESTOS MONITORING REPORT

Date: 04.06.2020
Reference: DRD-87-17407/AAM33
Client: Drumderg Services
Removal Contractor: Drumderg Services
Job Location: 9 Church Street, Newcastle NSW
Sampler Name/Certificate ID: Cameron Mitchell/CON-023
Analytical Method: AAM based on Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres [NOHSC: 3003 (2005)]

Date	Sample Code	Sample Type	Monitor Location	Airflow, L/min			Time			Concentration, fibres/mL
				On	Off	Aver.	On Hr	Off Hr	Total min	
03.06.2020	Blank	-	0	-	-	-	-	-	-	-
03.06.2020	A156	1	1	2.00	2.00	2.00	0727	1143	256	N/A*
03.06.2020	A157	1	2	2.00	2.00	2.00	0729	1145	256	<0.01
03.06.2020	A158	1	3	2.00	2.00	2.00	0730	1147	257	<0.01
03.06.2020	A159	1	4	2.00	2.00	2.00	0732	1149	257	N/A*

*Air filter overloaded with dust.

Sample Type:

- 1 Removal Monitoring
- 4 Clearance Monitoring
- 5 Background Monitoring



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Monitoring Locations:

- 0 Blank
- 1 Nihon University, 9 church Street, interior, building B, between 'Built' office (Admin) and court 4/Lecture hall, attached to exit sign, 1.9m above ground level.
- 2 Nihon University, 9 church Street, interior, building B, in main Hallway, outside door 13, adjacent 'Built' site Notice board, 1.9m above ground level.
- 3 Nihon University, 9 church Street, interior, building B, Former lunchroom attached to door frame, 1.9m above ground level.
- 4 Nihon University, 9 church Street, interior, building B, between former toilets and former change room, 1.9m above ground level.

Remarks:

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Approved Counter:*Signature*

Matthew Deegan

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Bing Han

AIRBORNE ASBESTOS MONITORING REPORT

Date: 16.06.2020
Reference: DRD-87-17407/AAM34
Client: Drumderg Services
Removal Contractor: Drumderg Services
Job Location: 9 Church Street, Newcastle NSW
Sampler Name/Certificate ID: Joshua Foy/CON-054
Analytical Method: AAM based on Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres [NOHSC: 3003 (2005)]

Date	Sample Code	Sample Type	Monitor Location	Airflow, L/min			Time			Concentration, fibres/mL
				On	Off	Aver.	On Hr	Off Hr	Total min	
03.06.2020	Blank	-	0	-	-	-	-	-	-	-
03.06.2020	A160	1	1	2.00	2.00	2.00	0743	1545	482	<0.01
03.06.2020	A161	1	2	2.00	2.00	2.00	0744	1547	483	<0.01
03.06.2020	A162	1	3	2.00	2.00	2.00	0746	1548	482	<0.01
03.06.2020	A163	1	4	2.00	2.00	2.00	0747	1549	482	<0.01

Sample Type:

- 1 Removal Monitoring
- 4 Clearance Monitoring
- 5 Background Monitoring



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Monitoring Locations:

- 0 Blank
- 1 Area C, north west corner, on top of white perimeter wall, adjacent sliding gate, 1.9m above ground level.
- 2 Area C, north east corner, attached to black metal fencing, 1.7m above ground level.
- 3 Area C, south east corner, on top of cement perimeter, 1.9m above ground level.
- 4 Area C, south west corner, on top of green wall at corner of building B, adjacent air conditioning unit 1.7m above ground level.

Remarks:

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Approved Counter:*Signature*

Matthew Deegan

Approved Signatory:*Signature*

Bing Han

AIRBORNE ASBESTOS MONITORING REPORT

Date: 16.06.2020
Reference: DRD-87-17407/AAM35
Client: Drumderg Services
Removal Contractor: Drumderg Services
Job Location: 9 Church Street, Newcastle NSW
Sampler Name/Certificate ID: Joshua Foy/CON-054
Analytical Method: AAM based on Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres [NOHSC: 3003 (2005)]

Date	Sample Code	Sample Type	Monitor Location	Airflow, L/min			Time			Concentration, fibres/mL
				On	Off	Aver.	On Hr	Off Hr	Total min	
04.06.2020	Blank	-	0	-	-	-	-	-	-	-
04.06.2020	A164	1	1	2.00	2.00	2.00	0752	1559	487	<0.01
04.06.2020	A165	1	2	2.00	2.00	2.00	0754	1559	485	<0.01
04.06.2020	A166	1	3	2.00	2.00	2.00	0756	1600	484	<0.01

Sample Type:

- 1 Removal Monitoring
- 4 Clearance Monitoring
- 5 Background Monitoring



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Monitoring Locations:


- 0 Blank
- 1 Building B, Internal, lunchroom, south west corner of site, attached to doorway, 1.9m above ground level.
- 2 Building B, interior, southern hallway, between court four (4) and 'Built' office, attached to door frame 1.9m above ground level.
- 3 Building B, southern area of site, southern hallway, attached to door frame, 1.9m above ground level.

Remarks:

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Information provided by ADE Consulting Group can affect the validity of the results.
Sample analysed as received.

Approved Counter:
Signature

Matthew Deegan

Approved Signatory:
Signature

Bing Han

AIRBORNE ASBESTOS MONITORING REPORT

Date: 16.06.2020
Reference: DRD-87-17407/AAM36
Client: Drumderg Services
Removal Contractor: Drumderg Services
Job Location: 9 Church Street, Newcastle NSW
Sampler Name/Certificate ID: Joshua Foy/CON-054
Analytical Method: AAM based on Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres [NOHSC: 3003 (2005)]

Date	Sample Code	Sample Type	Monitor Location	Airflow, L/min			Time			Concentration, fibres/mL
				On	Off	Aver.	On Hr	Off Hr	Total min	
05.06.2020	Blank	-	0	-	-	-	-	-	-	-
05.06.2020	A167	1	1	2.00	2.00	2.00	0727	1541	494	<0.01
05.06.2020	A168	1	2	2.00	2.00	2.00	0728	1540	492	<0.01
05.06.2020	A169	1	3	2.00	2.00	2.00	0730	1542	492	<0.01
05.06.2020	A170	1	4	2.00	2.00	2.00	0732	1543	491	<0.01

Sample Type:

- 1 Removal Monitoring
- 4 Clearance Monitoring
- 5 Background Monitoring



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Monitoring Locations:

- 0 Blank
- 1 Building B, level two (2), interior, eastern end of corridor seven (7), adjacent former lunchroom, attached to door frame, 1.8m above ground level.
- 2 Building B, level two (2), interior, court room four (4), eastern entry, attached to door frame, 1.8m above ground level.
- 3 Building B, level 2, Internal, kitchenette, off corridor seven (7), south west end, sitting on windowsill, 1.6m above ground level.
- 4 Building B, level two (2), interior, site office, sitting on bookshelf 1.7m above ground level.

Remarks:

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Approved Counter:*Signature*

Matthew Deegan

Approved Signatory:*Signature*

Bing Han

AIRBORNE ASBESTOS MONITORING REPORT

Date: 16.06.2020
Reference: DRD-87-17407/AAM37
Client: Drumderg Services
Removal Contractor: Drumderg Services
Job Location: 9 Church Street, Newcastle NSW
Sampler Name/Certificate ID: Joshua Foy/CON-054
Analytical Method: AAM based on Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres [NOHSC: 3003 (2005)]

Date	Sample Code	Sample Type	Monitor Location	Airflow, L/min			Time			Concentration, fibres/mL
				On	Off	Aver.	On Hr	Off Hr	Total min	
05.06.2020	Blank	-	0	-	-	-	-	-	-	-
05.06.2020	A171	1	1	2.00	2.00	2.00	0736	1555	499	<0.01
05.06.2020	A172	1	2	2.00	2.00	2.00	0737	1556	499	<0.01
05.06.2020	A173	1	3	2.00	2.00	2.00	0739	1558	499	<0.01

Sample Type:

- 1 Removal Monitoring
- 4 Clearance Monitoring
- 5 Background Monitoring



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Monitoring Locations:

- 0 Blank
- 1 Area C, north west corner, on top of white perimeter wall, adjacent sliding gate, 1.9m above ground level.
- 2 Area C, north east corner, attached to black metal fence, 1.7m above ground level.
- 3 Area C, south east corner, on top of cement perimeter, 1.9m above ground level.

Remarks:

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Approved Counter:*Signature*

Matthew Deegan

Approved Signatory:*Signature*

Bing Han

AIRBORNE ASBESTOS MONITORING REPORT

Date: 23.06.2020
Reference: DRD-87-17407/AAM38
Client: Drumderg Services
Removal Contractor: Drumderg Services
Job Location: 9 Church Street, Newcastle NSW
Sampler Name/Certificate ID: Joshua Foy/CON-054
Analytical Method: AAM based on Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres [NOHSC: 3003 (2005)]

Date	Sample Code	Sample Type	Monitor Location	Airflow, L/min			Time			Concentration, fibres/mL
				On	Off	Aver.	On Hr	Off Hr	Total min	
10.06.2020	Blank	-	0	-	-	-	-	-	-	-
10.06.2020	A174	1	1	2.00	2.00	2.00	0728	1406	398	<0.01
10.06.2020	A175	1	2	2.00	2.00	2.00	0729	1403	394	<0.01
10.06.2020	A176	1	3	2.00	2.00	2.00	0730	1400	390	<0.01
10.06.2020	A177	1	4	2.00	2.00	2.00	0731	1401	390	<0.01

Sample Type:

- 1 Removal Monitoring
- 4 Clearance Monitoring
- 5 Background Monitoring



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Monitoring Locations:

- 0 Blank
- 1 Building B, Interior, southern end, 'kitchenette' adjacent corridor seven (7) on windowsill, 1.6m above ground level.
- 2 Building B, Interior, courtroom four (4)/lecture hall, southern wall, attached to protective white covering, 1.9m above ground level.
- 3 Building B, Interior, in corridor, outside door thirteen (13) adjacent 'built' site notice board, 1.8m above ground level.
- 4 Building B, Interior, in short hallway between former men's toilet and former lunch room, attached to door frame, 1.8m above ground level.

Remarks:

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Approved Counter:*Signature*

Matthew Deegan

Approved Signatory:*Signature*

Bing Han

AIRBORNE ASBESTOS MONITORING REPORT

Date: 23.06.2020
Reference: DRD-87-17407/AAM39
Client: Drumderg Services
Removal Contractor: Drumderg Services
Job Location: 9 Church Street, Newcastle NSW
Sampler Name/Certificate ID: Joshua Foy/CON-054
Analytical Method: AAM based on Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres [NOHSC: 3003 (2005)]

Date	Sample Code	Sample Type	Monitor Location	Airflow, L/min			Time			Concentration, fibres/mL
				On	Off	Aver.	On Hr	Off Hr	Total min	
10.06.2020	Blank	-	0	-	-	-	-	-	-	-
10.06.2020	A178	1	1	2.00	2.00	2.00	0750	1548	478	<0.01
10.06.2020	A179	1	2	2.00	2.00	2.00	0751	1549	478	<0.01
10.06.2020	A180	1	3	2.00	2.00	2.00	0753	1551	478	<0.01

Sample Type:

- 1 Removal Monitoring
- 4 Clearance Monitoring
- 5 Background Monitoring



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Monitoring Locations:

- 0 Blank
- 1 Area C, north west corner, attached to black metal fence, 1.6m above ground level.
- 2 Area C, north east corner, adjacent sliding gate, on top of white wall, 1.9m above ground level.
- 3 Area C, south west corner, on top of cement wall, 1.9m above ground level.

Remarks:

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Information provided by ADE Consulting Group can affect the validity of the results.
Sample analysed as received.

Approved Counter:*Signature*

Matthew Deegan

Approved Signatory:*Signature*

Bing Han

AIRBORNE ASBESTOS MONITORING REPORT

Date: 23.06.2020
Reference: DRD-87-17407/AAM40
Client: Drumderg Services
Removal Contractor: Drumderg Services
Job Location: 9 Church Street, Newcastle NSW
Sampler Name/Certificate ID: Joshua Foy/CON-054
Analytical Method: AAM based on Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres [NOHSC: 3003 (2005)]

Date	Sample Code	Sample Type	Monitor Location	Airflow, L/min			Time			Concentration, fibres/mL
				On	Off	Aver.	On Hr	Off Hr	Total min	
13.06.2020	Blank	-	0	-	-	-	-	-	-	-
13.06.2020	A181	1	1	2.00	2.00	2.00	0721	1302	341	<0.01
13.06.2020	A182	1	2	2.00	2.00	2.00	0723	1303	340	<0.01
13.06.2020	A183	1	3	2.00	2.00	2.00	0725	1304	339	N/A*

*Air filter overloaded with dust.

Sample Type:

- 1 Removal Monitoring
- 4 Clearance Monitoring
- 5 Background Monitoring



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Monitoring Locations:

- 0 Blank
- 1 Area C, north west corner, adjacent sliding gate, on top of white wall, 1.9m above ground level.
- 2 Area C, north east corner, attached to black metal fence, 1.8m above ground level.
- 3 Area C, south west corner, sitting on green wall, corner of area B, 1.6m above ground level.

Remarks:

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Approved Counter:*Signature*

Matthew Deegan

Approved Signatory:*Signature*

Bing Han

AIRBORNE ASBESTOS MONITORING REPORT

Date: 23.06.2020
Reference: DRD-87-17407/AAM41
Client: Drumderg Services
Removal Contractor: Drumderg Services
Job Location: 9 Church Street, Newcastle NSW
Sampler Name/Certificate ID: Joshua Foy/CON-054
Analytical Method: AAM based on Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres [NOHSC: 3003 (2005)]

Date	Sample Code	Sample Type	Monitor Location	Airflow, L/min			Time			Concentration, fibres/mL
				On	Off	Aver.	On Hr	Off Hr	Total min	
15.06.2020	Blank	-	0	-	-	-	-	-	-	-
15.06.2020	A184	1	1	2.00	2.00	2.00	0729	1547	498	<0.01
15.06.2020	A185	1	2	2.00	2.00	2.00	0731	1548	497	<0.01
15.06.2020	A186	1	3	2.00	2.00	2.00	0733	1549	496	<0.01

Sample Type:

- 1 Removal Monitoring
- 4 Clearance Monitoring
- 5 Background Monitoring



Accreditation No.14664.

Accredited for compliance with ISO/IEC 17025 - Testing.
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This document shall not be reproduced, except in full.

Monitoring Locations:

- 0 Blank
- 1 Area C, north east corner, on top of white wall, 1.9m above ground level.
- 2 Area C, north west corner, attached to metal fence (black), 1.8m above ground level.
- 3 Area C, south west corner, sitting on green wall, corner of area B, 1.6m above ground level.

Remarks:

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Approved Counter:*Signature*

Matthew Deegan

Approved Signatory:*Signature*

Bing Han

AIRBORNE ASBESTOS MONITORING REPORT

Date: 23.06.2020
Reference: DRD-87-17407/AAM42
Client: Drumderg Services
Removal Contractor: Drumderg Services
Job Location: 9 Church Street, Newcastle NSW
Sampler Name/Certificate ID: Joshua Foy/CON-054
Analytical Method: AAM based on Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres [NOHSC: 3003 (2005)]

Date	Sample Code	Sample Type	Monitor Location	Airflow, L/min			Time			Concentration, fibres/mL
				On	Off	Aver.	On Hr	Off Hr	Total min	
16.06.2020	Blank	-	0	-	-	-	-	-	-	-
16.06.2020	A187	1	1	2.00	2.00	2.00	0736	1624	528	<0.01
16.06.2020	A188	1	2	2.00	2.00	2.00	0737	1626	529	<0.01
16.06.2020	A189	1	3	2.00	2.00	2.00	0738	1629	531	<0.01

Sample Type:

- 1 Removal Monitoring
- 4 Clearance Monitoring
- 5 Background Monitoring



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Monitoring Locations:

- 0 Blank
- 1 Area C, northern boundary, northeast corner, on top of white wall, 1.9m above ground level.
- 2 Area C, northern boundary, northwest corner, attached to black fence, 1.6m above ground level.
- 3 Area C, southern boundary, southeast corner, on top of green foam wall, corner of building B, 1.9m above ground level.

Remarks:

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Approved Counter:*Signature*

Matthew Deegan

Approved Signatory:*Signature*

Bing Han

AIRBORNE ASBESTOS MONITORING REPORT

Date: 23.06.2020
Reference: DRD-87-17407/AAM43
Client: Drumderg Services
Removal Contractor: Drumderg Services
Job Location: 9 Church Street, Newcastle NSW
Sampler Name/Certificate ID: Joshua Foy/CON-054
Analytical Method: AAM based on Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres [NOHSC: 3003 (2005)]

Date	Sample Code	Sample Type	Monitor Location	Airflow, L/min			Time			Concentration, fibres/mL
				On	Off	Aver.	On Hr	Off Hr	Total min	
17.06.2020	Blank	-	0	-	-	-	-	-	-	-
17.06.2020	A190	1	1	2.00	2.00	2.00	0730	1608	518	<0.01
17.06.2020	A191	1	2	2.00	2.00	2.00	0731	1609	518	<0.01
17.06.2020	A192	1	3	2.00	2.00	2.00	0732	1610	518	<0.01

Sample Type:

- 1 Removal Monitoring
- 4 Clearance Monitoring
- 5 Background Monitoring



Accreditation No.14664.

Accredited for compliance with ISO/IEC 17025 - Testing.
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

This document shall not be reproduced, except in full.

Monitoring Locations:

- 0 Blank
- 1 Area C, northern boundary, northeast corner, on top of white wall, 1.9m above ground level.
- 2 Area C, northern boundary, northwest corner, attached to black fence, 1.6m above ground level.
- 3 Area C, southern boundary, corner of Area B, on top of green foam protection wall, 1.9m above ground level.

Remarks:

Sydney Laboratory Services is responsible for all the information in the report, except that provided by the customer. All sampling information included in the report has been provided by customer; ADE Consulting Group. Information provided by ADE Consulting Group can affect the validity of the results. Sample analysed as received.

Approved Counter:*Signature*

Bing Han

Approved Signatory:*Signature*

Bing Han

AIRBORNE ASBESTOS MONITORING REPORT

Date: 23.06.2020
Reference: DRD-87-17407/AAM44
Client: Drumderg Services
Removal Contractor: Drumderg Services
Job Location: 9 Church Street, Newcastle NSW
Sampler Name/Certificate ID: Joshua Foy/CON-054
Analytical Method: AAM based on Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres [NOHSC: 3003 (2005)]

Date	Sample Code	Sample Type	Monitor Location	Airflow, L/min			Time			Concentration, fibres/mL
				On	Off	Aver.	On Hr	Off Hr	Total min	
18.06.2020	Blank	-	0	-	-	-	-	-	-	-
18.06.2020	A193	1	1	2.00	2.00	2.00	0752	1636	524	<0.01
18.06.2020	A194	1	2	2.00	2.00	2.00	0754	1637	523	<0.01
18.06.2020	A195	1	3	2.00	2.00	2.00	0759	1641	522	<0.01

Sample Type:

- 1 Removal Monitoring
- 4 Clearance Monitoring
- 5 Background Monitoring



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Monitoring Locations:

- 0 Blank
- 1 Area C, northeast corner, placed on top of white wall, 1.9m above ground level.
- 2 Area C, northwest corner, attached to western fence, 1.9m above ground level.
- 3 Area C, southeast corner, placed on cement wall, 1.9m above ground level.

Remarks:

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Information provided by ADE Consulting Group can affect the validity of the results.

Sample analysed as received.

Approved Counter:*Signature*

Bing Han

Approved Signatory:*Signature*

Bing Han

AIRBORNE ASBESTOS MONITORING REPORT

Date: 23.06.2020
Reference: DRD-87-17407/AAM45
Client: Drumderg Services
Removal Contractor: Drumderg Services
Job Location: 9 Church Street, Newcastle NSW
Sampler Name/Certificate ID: Joshua Foy/CON-054
Analytical Method: AAM based on Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres [NOHSC: 3003 (2005)]

Date	Sample Code	Sample Type	Monitor Location	Airflow, L/min			Time			Concentration, fibres/mL
				On	Off	Aver.	On Hr	Off Hr	Total min	
19.06.2020	Blank	-	0	-	-	-	-	-	-	-
19.06.2020	A196	1	1	2.00	2.00	2.00	0831	1556	445	<0.01
19.06.2020	A197	1	2	2.00	2.00	2.00	0832	1554	442	<0.01
19.06.2020	A198	1	3	2.00	2.00	2.00	0833	1558	445	<0.01

Sample Type:

- 1 Removal Monitoring
- 4 Clearance Monitoring
- 5 Background Monitoring



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Monitoring Locations:

- 0 Blank
- 1 Area C, northern boundary, northeast corner, white wall, 1.9m above ground level.
- 2 Area C, northern boundary, northwest corner, metal fence 1.6m above ground level.
- 3 Area C, southern boundary, southeast corner, cement foundation, 1.8m above ground level.

Remarks:

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Information provided by ADE Consulting Group can affect the validity of the results.

Sample analysed as received.

Approved Counter:*Signature*

Bing Han

Approved Signatory:*Signature*

Bing Han

AIRBORNE ASBESTOS MONITORING REPORT

Date: 09.07.2020
Reference: DRD-87-17407/AAM46
Client: Drumderg Services
Removal Contractor: Drumderg Services
Job Location: 9 Church Street, Newcastle NSW
Sampler Name/Certificate ID: Joshua Foy/CON-054
Analytical Method: AAM based on Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres [NOHSC: 3003 (2005)]

Date	Sample Code	Sample Type	Monitor Location	Airflow, L/min			Time			Concentration, fibres/mL
				On	Off	Aver.	On Hr	Off Hr	Total min	
06.07.2020	Blank	-	0	-	-	-	-	-	-	-
06.07.2020	A199	1	1	2.00	2.00	2.00	0718	1549	511	<0.01
06.07.2020	A200	1	2	2.00	2.00	2.00	0722	1551	509	<0.01
06.07.2020	A201	1	3	2.00	2.00	2.00	0726	1553	507	<0.01
06.07.2020	A202	1	4	2.00	2.00	2.00	0730	1555	505	<0.01

Sample Type:

- 1 Removal Monitoring
- 4 Clearance Monitoring
- 5 Background Monitoring



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Monitoring Locations:

- 0 Blank
- 1 Old Newcastle courthouse, area A, northwest corner, adjacent orange main switch board, attached to temporary fence, 1.8m above ground level.
- 2 Old Newcastle courthouse, area A, northeast corner, attached to red fence, adjacent vehicle entry, 1.8m above ground level.
- 3 Old Newcastle courthouse, area A, southeast perimeter, approximately 50m south of vehicle entry, attached to red fence, behind bin, 1.8m above ground level.
- 4 Old Newcastle courthouse, area A, southwest corner, adjacent corner of building B and brick wall, attached to housing on brick wall, 1.8m above ground level.

Remarks:

Sydney Laboratory Services is responsible for all the information in the report, except that provided by the customer. All sampling information included in the report has been provided by customer; ADE Consulting Group.

Information provided by ADE Consulting Group can affect the validity of the results.

Sample analysed as received.

Approved Counter:*Signature*

Bing Han

Approved Signatory:*Signature*

Bing Han

AIRBORNE ASBESTOS MONITORING REPORT

Date: 28.08.2020
Reference: DRD-87-17407/AAM47
Client: Drumderg Services
Removal Contractor: Drumderg Services
Job Location: 9 Church Street, Newcastle NSW
Sampler Name/Certificate ID: Joshua Foy/CON-054
Analytical Method: AAM based on Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres [NOHSC: 3003 (2005)]

Date	Sample Code	Sample Type	Monitor Location	Airflow, L/min			Time			Concentration, fibres/mL
				On	Off	Aver.	On Hr	Off Hr	Total min	
26.08.2020	Blank	-	0	-	-	-	-	-	-	-
26.08.2020	A203	1	1	4.00	3.90	3.95	0941	1316	215	<0.01
26.08.2020	A204	1	2	4.00	4.00	4.00	0942	1317	215	<0.01
26.08.2020	A205	1	3	4.00	3.90	3.95	0946	1318	212	<0.01
26.08.2020	A206	1	4	4.00	3.85	3.93	0947	1319	212	<0.01

Sample Type:

- 1 Removal Monitoring
- 4 Clearance Monitoring
- 5 Background Monitoring



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Monitoring Locations:

- 0 Blank
- 1 9 Church Street Newcastle, Nihon University, south, on top of back wall, 1.6m above ground level.
- 2 9 Church Street Newcastle, Nihon University south, attached to scaffold on right side, 1.6m above ground level.
- 3 9 Church Street Newcastle, Nihon University, north, on top of temporary cement, fencing by footpath, 1.6m above ground level.
- 4 9 Church Street Newcastle, Nihon University, north, on top of cement wall, beneath red fence, left side, 1.6m above ground level.

Remarks:

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Information provided by ADE Consulting Group can affect the validity of the results.

Sample analysed as received.

Approved Counter:*Signature*

Bing Han

Approved Signatory:*Signature*

Bing Han

Appendix D

Stormwater Easement Report (DP, 2020b)

Nihon Daigaku Australia Newcastle Pty Ltd
C/- Built Pty Limited
Suite 1, 155-157
Lambton Road, NSW 2292

Project 91667.03
6 July 2020
R.001.Rev1
CB:kd

Attention: Ben Moss/Robert McLaughlin

Email: benmoss@built.com.au / robertmclaughlin@built.com.au

Stormwater Easement Management Strategy
Proposed Nihon University
9 Church Street, Newcastle

1. Introduction

This report presents the proposed strategy for the management of the stormwater easement located within the Nihon University development at 9 Church Street, Newcastle. The work was commissioned by Robert McLaughlin of Built Pty Limited (Built) on behalf of Nihon Daigaku Australia Newcastle Pty Ltd (NG).

Site redevelopment has included the replacement of the existing stormwater pipe within the easement adjacent to the eastern wall of Building B (central building). The easement and stormwater pipe will be a Council asset. The stormwater pipe within the easement has not been installed in strict accordance with the Remediation Action Plan (RAP) (DP, 2020), however, the proposed management strategy has been developed to achieve the objectives of remediation and minimise the possible contaminated land risks associated with future maintenance/repairs (if required).

The site development is part of a statutory site audit being conducted by the NSW EPA accredited site auditor Mr Ian Gregson of GHD Pty Ltd (GHD). The proposed strategy for management of the stormwater easement was prepared in consultation with the site Auditor.

Development of the management strategy comprised the following:

- Review of RAP (DP, 2020);
- Site inspections on 2 and 3 July 2020;
- Provision of photos and information from Built Pty Ltd (builder) regarding construction activities and site conditions;
- Consultation with Built Pty Ltd and the site Auditor.

2. Background

The previous site investigations identified bonded asbestos containing materials (ACM) within filling across the site above the adopted site assessment criteria which require remediation or management to render the site suitable for the proposed development.

A RAP was prepared by Douglas Partners Pty Ltd (DP, 2020) to describe the remediation strategy via on-site management of bonded asbestos impacted filling beneath existing and proposed concrete pavements, buildings and associated landscape areas (ie capping of entire site).

The proposed remediation strategy related to the stormwater easement in the RAP (ie DP, 2020: Section 10.1 - Steps 11, 12 and 13) comprised the following:

- Where service easements are proposed to be re-instated with clean materials to minimise restrictions for future maintenance (ie proposed stormwater easement shown on the Cardno's Stormwater Diversion plans attached), the service trench sides and floor will need to be lined with a geotextile marker layer and backfilled with clean soils;
- Capping of contaminated soils will not be conducted over this easement;
- Prior to backfill of service trenches, the site surface must be surveyed to confirm that appropriate levels have been achieved;
- Following survey confirmation of site levels, place a high visibility orange geofabric marker/separation layer (Bidim A34 or similar) over the impacted fill materials across the site. The geofabric should extend at least 0.5 m beyond the impacted filling along the sides of service trenches.

Drawing 2 in the RAP also provided a concept schematic for proposed capping strategy associated with the easement (reproduced in Figure 1 below).

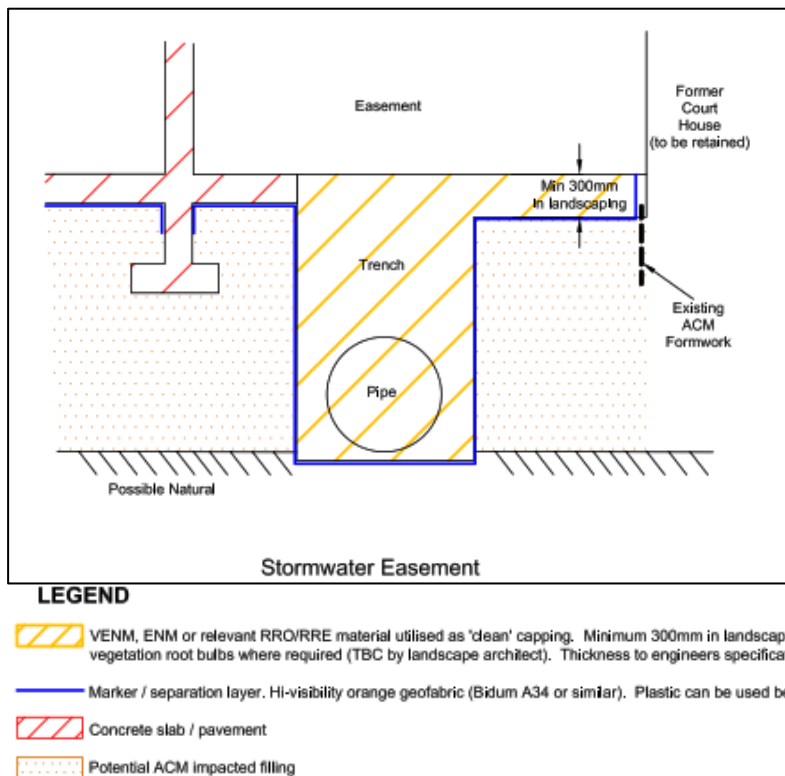


Figure 1: Proposed Capping Strategy – Stormwater Easement (DP 2020 – Drawing 2)

Built Pty Ltd noted that due to an oversight during construction the geotextile marker layer was not installed in the base of the trench prior to installation of the stormwater pipe. The stormwater pipe has therefore not been installed in strict accordance with the RAP.

3. Existing Site Conditions – Pipe Installation

The proposed stormwater pipe and easement is shown on Cardno Stormwater Diversion Plans (CI-310, CI-312 and CI-315). The following construction activities relating to stormwater pipe installation were provided by Built:

- The easement is approximately 3 m wide;
- A 1.2 m wide trench was excavated for the installation of the 900 mm diameter stormwater pipe;
- The base of the trench was at least 300 mm into natural ground at the northern end of the easement, and at least 1 m into natural ground at the southern end (ie the base of the trench was well within natural (clean) clayey soils);
- Survey was conducted on the base and trench walls;
- Blue metal bedding gravel (supplied by quarry) was placed at the base (at least 200mm) prior to installation of the concrete stormwater pipe;
- The 900 mm diameter concrete stormwater pipe has been installed between the junction pits shown in the Cardno drawings attached;
- Sand backfill (supplied by quarry) was placed around the pipe within the trench to at least 300mm above the top of pipe;

- Council conducted inspections during pipe installation works.

Figure 2 from Built Pty Ltd shows the typical profile observed during pipe installation.



Figure 2: Pipe installation well within natural clays looking north (provided by Built Pty Ltd)

Figure 3 below shows the clean imported sands used as backfill around the pipe to a level of about 300 mm above the pipe obvert as indicated by Built Pty Ltd.



Figure 3: Imported “clean” sand over stormwater pipe looking north (building B on the left) (provided by DP – 3 July 2020), current trench condition.

The following is noted from Built Pty Ltd:

- No excavation works or pipe installation is proposed north of the stormwater junction pits at the northern end of the easement (ie adjacent to the northern site boundary). The existing stormwater infrastructure north of the stormwater junction pits will remain. This part of the easement will be capped as per the remainder of the Nihon site in regard to on-site management of potentially contaminated soils (ie there is no opportunity to place “clean” soils within the easement north of these junction pits);
- A heritage wall/footing is currently present within the easement (but outside the pipe trench) adjacent to the south east corner of Building B. Built are currently seeking clarification if this wall can be removed;
- Imported FCR (fine crushed rock) from an approved quarry source will be utilise for trench backfill over the sands within the trench;
- The pipe trench will only contain approved “clean” materials and will be finished at the surface as shown in the Cardno drawings.

4. Proposed Trench Backfill

Built indicated that it would not be practical or achievable to remove the concrete stormwater pipe and associated backfill which is currently in place in order to install geofabric at the base of the trench in accordance with the RAP, considering the ongoing construction works including the completed pipe connections to the stormwater junction pits at the southern and northern ends of the easement.

Although the geotextile marker layer was not installed in the base of the trench prior to installation of the stormwater pipe, Built indicated that a white geofabric will be placed over the side walls of the trench as a marker/separator generally as shown in the sketch below (Figure 4). The geofab will be installed to a maximum depth of 300mm into sand backfill along the extent of the walls along the length of the stormwater trench. In most instances, this will see the geofab laid into natural. It is noted that the fill was generally stable under temporary excavation conditions so the risk of “fall in” during future excavation works (if any) is considered to be low, as discussed in Section 5 below.

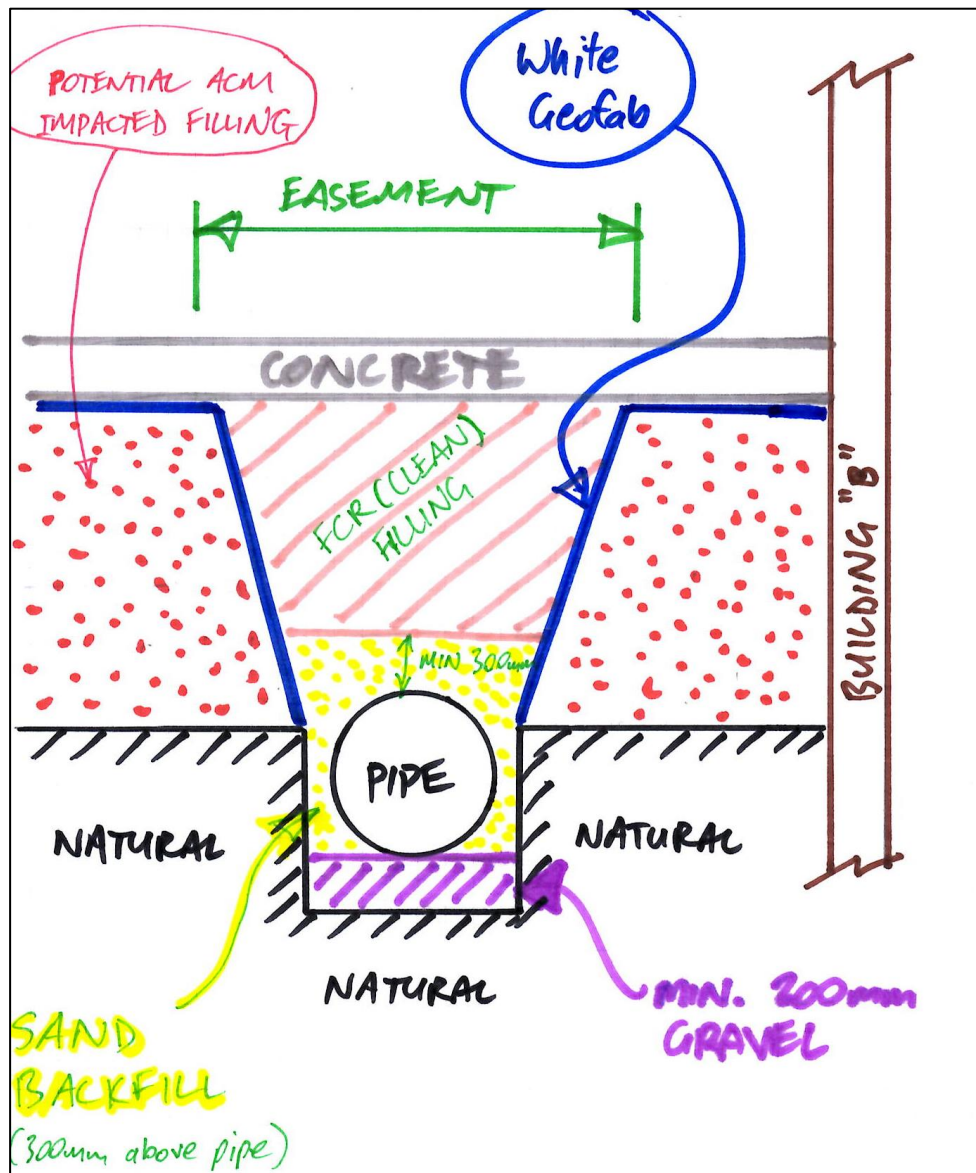


Figure 4: Proposed stormwater trench backfill (Sketch)

5. Discussion

Although the base of the trench was not inspected or validated by DP, the information and photos provided by Built indicated that the trench was excavated to well within natural soils. Built also reported that there were no obvious indications of gross contamination within the natural soils (ie no obvious staining, odours, anthropogenic inclusions). It is noted that the contaminant of concern is bonded ACM. There were also no indications of potential migration or leaching of contaminants from overlying filling into underlying natural soils. It is noted that the underlying natural soils comprised low permeability clays which would also reduce the potential risk for migration. The risk of contamination associated with the base of the stormwater pipe trench within natural clay soils is therefore considered to be low.

Prior to redevelopment, contamination within the site was limited to the presence of trace bonded ACM in overlying fill (generally up to 1 m deep across the site, with localised deeper fill associated with foundation/structures). During initial demolition/construction activities, a significant portion of this fill was removed to facilitate earthworks construction. Imported fine crushed rock (FCR) from a commercial supplier and on-site validated crushed concrete/brick was utilised for temporary support of piling operations. The upper fill materials currently present on-site therefore contain a significant portion of materials that do not contain ACM (ie further reducing the risk of contamination within fill materials remaining on-site). The degree of contamination present within the site is therefore considered to be low.

It is noted that the stormwater pipe has been newly installed together with new junction pits and access points to facilitate cleaning/maintenance should it be required in future. The likelihood that the pipe will need to be removed/replaced in future is therefore considered to be low. Access to the pipe between the two buildings to facilitate pipe removal and replacement would also be difficult.

In the event that the stormwater pipe requires complete removal and reinstallation, there is a minor risk that adjacent fill materials may “fall into” the trench excavation at the fill/natural interface. As indicated in Figure 2 above, the fill was generally stable under temporary excavation conditions. The risk of “fall in” during future excavations (if any) is considered to be low. It is noted, however, that the degree of contamination within fill is considered to be low, and the likelihood of complete removal and reinstallation of the pipe is also considered to be low, as discussed above.

Although there is no geofabric marker layer at the base of the stormwater trench, a layer of gravel (blue metal) is present at least 200 mm deep. This gravel layer can be considered to be the marker layer at the base of the excavation. This detail will be included in the long-term environmental management plan (EMP) for the site.

As discussed, the easement will be included in the long-term EMP associated with the capping/management of site contamination. The EMP will include construction details associated with the stormwater easement including the geofabric over the walls of the trench excavation, gravel fill at the base and “clean sand and FCR backfill” within the trench.

6. Conclusion

The following is noted regarding the proposed strategy for the management of the stormwater easement located within the Nihon University development:

- The stormwater pipe has not been installed in strict accordance with the RAP;
- The geofabric marker layer was not installed in the base of the trench prior to installation of the stormwater pipe;
- A gravel layer was placed at the base of the trench which can perform the role as a marker material;
- Geofabric will be placed over the walls of the trench excavation where practical and trench backfill will comprise approved “clean” materials as shown in Figure 4 above;
- The base of the trench was excavated well within “clean” natural soils (refer to Figure 2);
- The degree of contamination remaining within filling at the site is considered to be low;
- The risk of disturbing contaminated soils outside the pipe trench excavation during routine maintenance and cleaning of the stormwater pipe is considered to be minimal;

- The likelihood of complete pipe removal/reinstallation and therefore the risk of disturbing adjacent contaminated soils is considered to be low;
- Possible risks associated with the disturbance of contaminated soils within the site can be effectively managed through the implementation of the EMP which will encompass the stormwater easement.

Although the methodology presented in the RAP was not strictly followed, potentially contaminated soils present within upper fill within the stormwater easement (outside the pipe trench excavation) can be effectively managed as proposed above.

The above strategy is subject to Auditor review and approval. We also recommend that Council are consulted to confirm their acceptance of the proposed management strategy as presented above.

Regular inspections and photographs will be required for validation purposes during construction activities associated with the approved easement works. The results will be presented in the site validation report at the completion of the works for Auditor review and approval.

7. Reference

DP (2020), Remediation Action Plan, Proposed Nihon University, 9 Church Street, Newcastle, 91667.02.R.004.Rev1, Douglas Partners Pty Ltd.

8. Limitations

Douglas Partners Pty Ltd (DP) has prepared this report for this project at 9 Church Street, Newcastle with reference to DP's proposal NCL190520.P.001.Rev1 dated 16 September 2019 and acceptance received from Robert McLaughlin of Built Pty Ltd on behalf of Nihon Daigaku Australia Newcastle Pty Ltd. The work was carried out under DP's Conditions of Engagement. This report is provided for the exclusive use of Nihon Daigaku Australia Newcastle Pty Ltd and Built Pty Limited for this project only and for the purposes as described in the report. It should not be used by or relied upon for other projects or purposes on the same or other site or by a third party. Any party so relying upon this report beyond its exclusive use and purpose as stated above, and without the express written consent of DP, does so entirely at its own risk and without recourse to DP for any loss or damage. In preparing this report DP has necessarily relied upon information provided by the client and/or their agents.

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

It is noted that DP were not present during excavations or installation of the stormwater pipe within the easement. DP have therefore relied upon information provided by Built Pty Ltd. DP accepts no responsibility or liability for information provided by third parties.

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

Asbestos has been detected by observation and by laboratory analysis, either on the surface of the site, or in filling materials at the test locations sampled and analysed. Building demolition materials, such as concrete, brick, tile, wood, glass, metal and bitumen, were located in below-ground filling, and these are considered as indicative of the possible presence of hazardous building materials (HBM), including asbestos.

Although the sampling plan adopted for this investigation is considered appropriate to achieve the stated project objectives, there are necessarily parts of the site that have not been sampled and analysed. This is either due to undetected variations in ground conditions or to budget constraints (as discussed above), or to parts of the site being inaccessible and not available for inspection/sampling, or to vegetation preventing visual inspection and reasonable access. It is therefore considered possible that HBM, including asbestos, may be present in unobserved or untested parts of the site, between and beyond sampling locations, and hence no warranty can be given that asbestos is not present.

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

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

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

Please contact the undersigned if you have any questions on this matter.

Yours faithfully

Douglas Partners Pty Ltd

Reviewed by



Chris Bozinovski
Principal

Matthew Blackert
Senior Associate

Attachments: About this Report
 Cardno Stormwater Diversion Plans (CI-310, CI-312 and CI-315)

About this Report

Douglas Partners



Introduction

These notes have been provided to amplify DP's report in regard to classification methods, field procedures and the comments section. Not all are necessarily relevant to all reports.

DP's reports are based on information gained from limited subsurface excavations and sampling, supplemented by knowledge of local geology and experience. For this reason, they must be regarded as interpretive rather than factual documents, limited to some extent by the scope of information on which they rely.

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This report is the property of Douglas Partners Pty Ltd. The report may only be used for the purpose for which it was commissioned and in accordance with the Conditions of Engagement for the commission supplied at the time of proposal. Unauthorised use of this report in any form whatsoever is prohibited.

Borehole and Test Pit Logs

The borehole and test pit logs presented in this report are an engineering and/or geological interpretation of the subsurface conditions, and their reliability will depend to some extent on frequency of sampling and the method of drilling or excavation. Ideally, continuous undisturbed sampling or core drilling will provide the most reliable assessment, but this is not always practicable or possible to justify on economic grounds. In any case the boreholes and test pits represent only a very small sample of the total subsurface profile.

Interpretation of the information and its application to design and construction should therefore take into account the spacing of boreholes or pits, the frequency of sampling, and the possibility of other than 'straight line' variations between the test locations.

Groundwater

Where groundwater levels are measured in boreholes there are several potential problems, namely:

- In low permeability soils groundwater may enter the hole very slowly or perhaps not at all during the time the hole is left open;

- A localised, perched water table may lead to an erroneous indication of the true water table;
- Water table levels will vary from time to time with seasons or recent weather changes. They may not be the same at the time of construction as are indicated in the report; and
- The use of water or mud as a drilling fluid will mask any groundwater inflow. Water has to be blown out of the hole and drilling mud must first be washed out of the hole if water measurements are to be made.

More reliable measurements can be made by installing standpipes which are read at intervals over several days, or perhaps weeks for low permeability soils. Piezometers, sealed in a particular stratum, may be advisable in low permeability soils or where there may be interference from a perched water table.

Reports

The report has been prepared by qualified personnel, is based on the information obtained from field and laboratory testing, and has been undertaken to current engineering standards of interpretation and analysis. Where the report has been prepared for a specific design proposal, the information and interpretation may not be relevant if the design proposal is changed. If this happens, DP will be pleased to review the report and the sufficiency of the investigation work.

Every care is taken with the report as it relates to interpretation of subsurface conditions, discussion of geotechnical and environmental aspects, and recommendations or suggestions for design and construction. However, DP cannot always anticipate or assume responsibility for:

- Unexpected variations in ground conditions. The potential for this will depend partly on borehole or pit spacing and sampling frequency;
- Changes in policy or interpretations of policy by statutory authorities; or
- The actions of contractors responding to commercial pressures.

If these occur, DP will be pleased to assist with investigations or advice to resolve the matter.

About this Report

Site Anomalies

In the event that conditions encountered on site during construction appear to vary from those which were expected from the information contained in the report, DP requests that it be immediately notified. Most problems are much more readily resolved when conditions are exposed rather than at some later stage, well after the event.

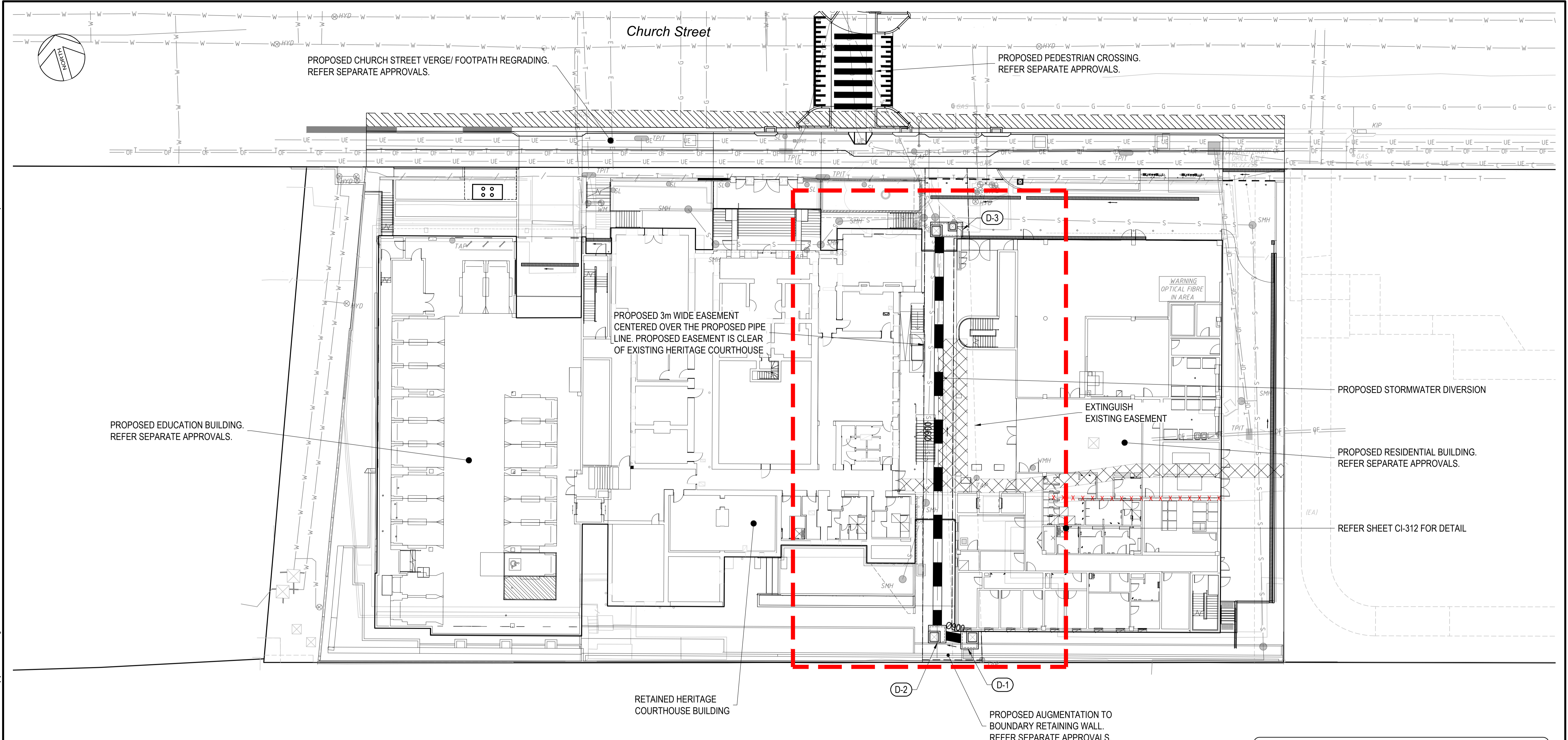
Information for Contractual Purposes

Where information obtained from this report is provided for tendering purposes, it is recommended that all information, including the written report and discussion, be made available. In circumstances where the discussion or comments section is not relevant to the contractual situation, it may be appropriate to prepare a specially edited document. DP would be pleased to assist in this regard and/or to make additional report copies available for contract purposes at a nominal charge.

Site Inspection

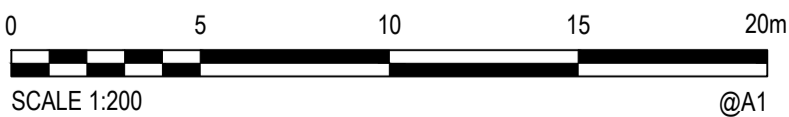
The company will always be pleased to provide engineering inspection services for geotechnical and environmental aspects of work to which this report is related. This could range from a site visit to confirm that conditions exposed are as expected, to full time engineering presence on site.

CTB File: Gp_Cardno_Full.ctb Device Name: DWG To PDF.pc3
DATE PLOTTED: 19-Mar-20 11:58:17 AM BY: BENJAMIN REDFERN
SAVE DATE: 19-Mar-20 11:53:05 AM BY: Benjamin redferr
XREFs: x81019007_Survey, x81019007_Civil, x81019007_Arch, x81019007_Struct, x81019007_Plan
CAD File: \\cardno-cop\global\AU\NSW\Wireframe\Drawings\Build\300 Series\81019007_Ci-310 [A] SW Div Plan.dwg



PLAN
SCALE 1:200

Rev.	Date	Description	Des.	Verif.	Appd.
A	19/03/2020	FOR CONSTRUCTION	TH	SGB	SGB



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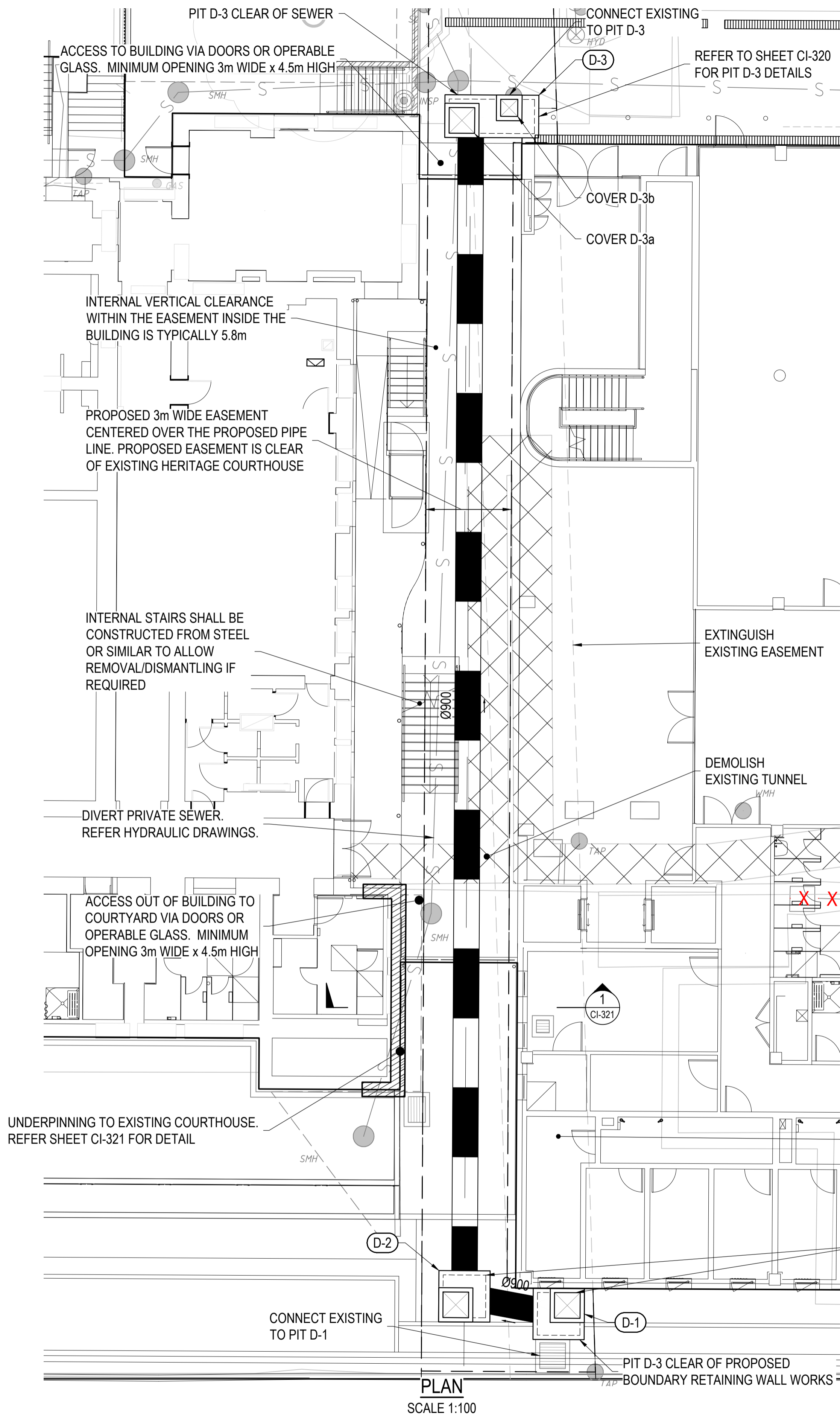
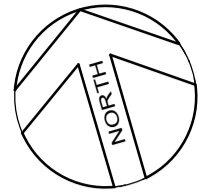
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Shaping the Future

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Drawn	LDB	Date	FEB 2020
Checked	SGB	Date	FEB 2020
Designed	JK	Date	FEB 2020
Verified	SGB	Date	FEB 2020
Approved		Date	FEB 2020
SGB			

Client	AZUSA SEKKEI
Project	NIHON UNIVERSITY AUSTRALIA NEWCASTLE CAMPUS PROJECT 9 CHURCH STREET, NEWCASTLE
Title	STORMWATER DIVERSION SITE PLAN

Status				FOR CONSTRUCTION			
Datum		Register		Scale		Size	
AHD		-				A1	
Drawing Number						Revision	
81019007-CI-310						A	



- NOTE:**
1. PROPOSED BUILDING AND ASSOCIATED WORKS SUBJECT TO SEPARATE APPROVALS.
 2. REFER ARCHITECT DRAWINGS FOR BUILDING DETAILS.
 3. WORKS MUST BE INSPECTED BY COUNCIL DURING CONSTRUCTION. REFER 'COUNCIL CONSTRUCTION SUPERVISION' NOTES ON DWG 305.

Rev.	Date	Description	Des.	Verif.	Appd.
A	19/03/2020	FOR CONSTRUCTION	TH	SGB	SGB



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Verified	SGB	Date	FEB 2020
Approved		Date	FEB 2020
SGB			

Client	AZUSA SEKKEI
Project	NIHON UNIVERSITY AUSTRALIA NEWCASTLE CAMPUS PROJECT 9 CHURCH STREET, NEWCASTLE
Title	STORMWATER DIVERSION LAYOUT PLAN

FOR CONSTRUCTION			
Status			
Datum	Register	Scale	Size
AHD	-		A1
Drawing Number			Revision
81019007-CI-312			A

JUNCTION
STRUCTURE LABEL
STRUCTURE TYPE

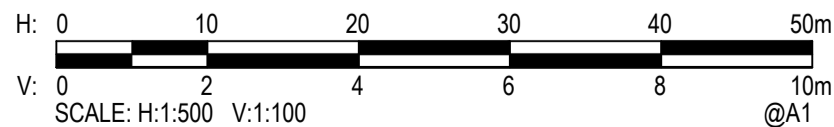
PIPE SIZE (mm) and (CLASS)
PIPE SUPPORT
PIPE GRADE (%)

DATUM RL

DEPTH TO INVERT	4.0			
	3.350	3.384	3.384	
EXISTING SURFACE LEVEL	22.578	22.733		22.264
TOP OF PIT LEVEL	23.000	23.000		22.350
INVERT LEVEL	19.650	19.616	19.616	19.354
PIPE CHAINAGE	0.000	3.373		45.076

STORMWATER LONGITUDINAL SECTION

SCALE: H 1:500
V 1:100



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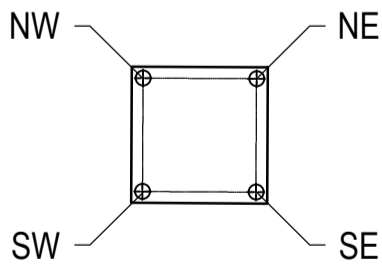
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Checked	SGB	Date	FEB 2020
Designed	JK	Date	FEB 2020
Verified	SGB	Date	FEB 2020
Approved		Date	FEB 2020
	SGB		-

Client	AZUSA SEKKEI		
Project	NIHON UNIVERSITY AUSTRALIA NEWCASTLE CAMPUS PROJECT 9 CHURCH STREET, NEWCASTLE		
Title	STORMWATER DIVERSION STORMWATER LONGITUDINAL SECTION		

Status	FOR CONSTRUCTION			
Datum	AHD	Register	-	Scale
Size	A1			Revision
Drawing Number	81019007-CI-315			A

CHAMBERS SET OUT		
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NW	386162.333	6355761.704
SE	386163.347	6355759.840
SW	386161.908	6355760.265
D-2 CHAMBER	EASTING	NORTHING
NE	386160.758	6355762.794
NW	386159.320	6355763.219
SE	386160.333	6355761.355
SW	386158.895	6355761.780
D-3 CHAMBER	EASTING	NORTHING
NE	386173.889	6355801.997
NW	386171.012	6355802.847
SE	386173.549	6355800.846
SW	386170.672	6355801.696

PIT COVER DETAILS	
PIT	COVER
D-1	REFER TO THE CITY OF NEWCASTLE STANDARD DRAWING A2102 FOR PIT DETAILS
D-2	REFER TO THE CITY OF NEWCASTLE STANDARD DRAWING A2102 FOR PIT DETAILS
D-3a	900SQ MASCOT ENGINEERING CLASS D PAVER INFILL COVER AND FRAME (CODE: MFPI99D) OR APPROVED EQUAL. COVER INFILL TO MATCH ADJOINING PAVEMENT
D-3b	600SQ MASCOT ENGINEERING CLASS D PAVER INFILL COVER AND FRAME (CODE: MFPI66D) OR APPROVED EQUAL. COVER INFILL TO MATCH ADJOINING PAVEMENT



PIT SETOUT DIAGRAM

SCALE 1:50

NOTE:
PIPE CHAINAGES APPROXIMATE ONLY
DUE TO OVERSIZE PIT CHAMBERS