# APPENDIX D Site Work Plan



# SITE WORK PLAN

## FOR

## **Extension of Utility Services to the Lease Area**

## **No.1 Grand Ave**

## Camellia

Project No: 3263

CLIENT: Remondis Pty Ltd, P.O. Box 885, Mascot NSW 1460

#### PROJECT DESCRIPTION:

Extension of Utility Services and stormwater line to service the proposed Waste Processing Facility at No.1 Grand Avenue, Camellia.

 Plan approved by:
 Date: 25/06/10

(Project Manager)

| Revision<br>No. | Date    | Description of Revision     | EMR Certification       |      |
|-----------------|---------|-----------------------------|-------------------------|------|
|                 |         |                             | Reference (e.g. letter) | Date |
| Rev 0           | June 10 | Initial Draft               | N/A                     | N/A  |
| Rev 1           | May 11  | Air Quality issues expanded | DECC review             | N/A  |
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|                 |         |                             |                         |      |

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### ATTACHMENTS

ATTACHMENT 1 - Safe Work Method Statement ATTACHMENT 2 – Site Plan ATTACHMENT 3 – Sediment and Erosion Control Plan

### SECTION 1 Introduction

#### 1.1 Purpose and Scope

The purpose of this Site Work Plan is to describe how Billbergia Pty Limited proposes to manage and control:

- Excavation below the capping layer
- Handling and disposal of Contaminated Soils, and
- Soil and Water Management

associated with the provision of utility services and extension of the stormwater system for the proposed construction of the Waste Processing Facility by Remondis Pty Ltd.

A key objective of this Site Work Plan is to ensure appropriate environmental controls and procedures are implemented during construction activities. The objective is to handle any contaminated soil safely, minimise soil erosion, contain sediment within the site and to minimise the impact of construction below the capping layer.

This Site Work Plan is applicable to all Billbergia activities during the construction phase of the Project. In particular, this Plan has been prepared to address the requirements of the:

- Site Management Plan (SMP) Eastern Portion Former James Hardie Site Grand Avenue Camellia (dated 17 March 2004)
- NSW Department of Housing (2004) Guideline *Managing Urban Stormwater Soils & Construction* (also known as the "Blue Book") and other applicable regulation.

#### **1.2** Proposed Site Works

The proposed development works involves the construction of two large industrial buildings, including excavation of services trenches to the proposed buildings, filling of the land underneath the proposed buildings and construction of concrete access roads and carpark surrounding the proposed buildings. The excavation for services will be generally 1m to 3.7m below existing ground levels within the site.

Geotechnical investigations carried out by various environmental companies over the past 10 to 15 years indicate that parts of the site have been filled with asbestos waste. The investigations show that the buried asbestos is generally limited to the western portion of the site nearest to the railway line. The site has been capped with a layer of impermeable material and is under the protection of a legally binding Site Management Plan. The Site Management Plan generally prohibits excavation below the capping layer without the written approval of the **Department of Environment and Climate Change**. (DECC). The service trenches will be excavated through the site to extend the services from the boundary at Grand Avenue to the perimeter of the proposed building/lease area. These include trenches for stormwater, sewer, electricity and potable water. The excavation and laying works will be carried out by Billbergia Pty Limited as part of its commitment to providing services to Remondis' lease area. Excavation of any contaminated soil will be carried out as recommended by the Site Management Plan with all excesss material being taken off site to a pre-determined tip site.

Appropriate handling and supervision of the contaminated soil will be carried out as outlined in the Safe Work Method Statement (SWMS) attached as Attachment 1. The work will be supervised by a licensed asbestos removal (AS1) contractor. The AS1 Contractor will prepare and implement asbestos hazard reduction measures as part of their safe work method statements and will provide experienced personnel to supervise excavation of any asbestos impacted fill or asbestos waste. A suitably qualified occupational hygienist will be engaged to prepare an air monitoring program for the excavation, storage and offsite removal of fill material containing asbestos in accordance with the Australian Code of Practice for the Safe Removal of Asbestos (NOHSC: 2002 (2005). This air monitoring program will assess the nature of the asbestos material, different wind movements across the site, location of nearby receptors such as child care centre, Train Station and residential housing.

The work area will be limited to the line of trenching for the stormwater pipes and the incoming services as shown on the site plan in Attachment 2. There is approximately 550m of trenching to be excavated which will yield approximately 1200m<sup>3</sup> of spoil. This spoil will be disposed of to an approved landfill site. The geotechnical reports indicate that the material below the cap comprises silty clay with traces of fine to course sand with asbestos present in parts. The asbestos is expected to be located in the top 900mm of the excavation for the majority of the work area. The depth of asbestos is expected to be up to 5m deep in the vicinity of the sewer manhole.

Excavated concrete and roadbase will be stripped off the surface and set aside for recycling. The contaminated soil will be set aside in controlled stockpiles and tested for classification for disposal. Any surplus soil will be disposed off site to a licensed landfill depot such as SITA's site at Kemps Creek. Pipe embedment material comprising clean sand and gravel will be imported to site and compacted around the pipes and services. Clean imported material will be used to backfill the remainder of the trench and the trench will then be capped with roadbase.

Investigations are still being undertaken to determine the suitability of using a pumped sewer collection system to avoid a deep trench excavation near the manhole.

The construction period is expected to last 6 weeks to 8 weeks with approximately 80 truck and dogs of contaminated soil to be

removed from site over a 20 day period. Once the spoil is removed there will only be deliveries to site.

It is likely that Alkene Pty Ltd will be appointed as the AS1 contractor to supervise excavation and remove the soil from the site. Alkene Pty Ltd was previously engaged to supervise remediation works on site and worked well with Billbergia staff. Decontamination units and site facilities will be provided by Billbergia Pty Ltd.

It is expected to have 4 to 5 of Billbergia's full time staff on site at anyone time to carry out the excavation and pipe laying tasks. There will be a site foreman, two labourers and a machine operator.

#### **1.3** Site Construction Sequence

Prior to commencing construction on site, the statutory notifications shall be made and approval sought from DECC to carry out the excavation work as required by the SMP.

Once approval has been obtained establishment of the site office and diversion of stormwater flows from areas upstream of the work area will be carried out as part of the preliminaries prior to commencing excavation.

It is proposed that the works will generally be carried out in the following stages:-

- Stage 1: Erect barrier fencing around the work area, construct sediment traps where required, delineate the construction access route and install sediment and erosion control measures.
- Stage 2: Carry out trench excavation for the stormwater line below the cap.
- Stage 3: Carry out trench excavation for the remaining service lines below the cap.
- Stage 4: Carry out trench excavation for the remaining service lines above the cap or in non-contaminated areas.

It is expected that there will be overlaps in the timing of these activities and that the works will be undertaken in the following sequence:-

#### Stage 1:

- a) Construct barrier fencing around the work area to prevent access to areas not to be disturbed,
- b) Isolate the construction access route from the rest of the site,
- c) Provide sediment traps downstream of the work area in the outlet channel,
- d) Provide all other sediment and erosion control measures that may be required to ensure that no run-off from disturbed areas is directly discharged to down slope areas or drainage lines

#### Stage 2:

- e) Establish decontamination procedures as identified in the SWMS in conjunction with the hygienist. Install air monitors as indicated in air monitoring plan.
- f) Excavate the line of the stormwater pipe and gross pollutant trap.
- g) Place contaminated excavated material in stockpiles on HDPE plastic sheeting for classification and in preparation for transport off site.
- h) Maintain sediment traps as required.
- i) Construct required drainage lines as works progress including temporary and permanent sediment and litter arrestors as detailed on the drawings.
- j) Load and transport excavated material to suitably licensed disposal sites as outlined in the SWMS.
- k) Restore trenches and capping.

#### Stage 3:

- I) Continue with the general procedures as for Stage 2.
- m) Construct required service lines as works progress as detailed on the drawings.
- n) Load and transport excavated material to suitably licensed disposal sites as outlined in the SWMS.
- o) Restore trenches and capping.

#### Stage 4:

- p) Continue with the general procedures as for Stage 2 without the requirements of handling contaminated soil.
- q) Construct required service lines as works progress as detailed on the drawings.
- r) Re-use on site if suitable or load and transport excavated material to suitably licensed disposal sites as outlined in the SWMS.
- s) Restore trenches.

### **SECTION 2** Legislative and regulatory Requirements

#### 2.1 **Protection of the Environment Operations Act**, 1997

Construction activities during the Project are required to be effectively managed to ensure Billbergia complies with the water quality goals and criteria outlined in the *Protection of the Environment Operations Act 1997.* The objectives of this Act include the reduction of risk and prevention of degradation of the environment through the use of measures that promote the prevention of pollution, and environmental monitoring and reporting.

#### 2.2 Contaminated Land Management Act, 1997

Construction activities during the Project are required to be effectively managed to ensure Billbergia complies with the criteria outlined in the *Contaminated Land Management Act 1997*. The objectives of this Act are to establish a process for investigating and (where appropriate) remediating land that the EPA considers to be contaminated significantly enough to require regulation under Division 2 of Part 3.

Particular objects of this Act are:

- (a) to set out accountabilities for managing contamination if the EPA considers the contamination is significant enough to require regulation under Division 2 of Part 3, and
- (b) to set out the role of the EPA in the assessment of contamination and the supervision of the investigation and management of contaminated sites, and
- (c) to provide for the accreditation of site auditors of contaminated land to ensure appropriate standards of auditing in the management of contaminated land, and
- (d) to ensure that contaminated land is managed with regard to the principles of ecologically sustainable development.

A Site Management Plan was prepared for the site to manage the contamination issues and achieve the objectives of the Act. All excavation work to establish the necessary services and stormwater control for the site are to be carried out in accordance with the procedures identified in that SMP.

### **SECTION 3** Project Impacts

#### 3.1 Environmental Aspects

The aspects of the project works that could contribute to erosion, offsite sedimentation, impact on downstream water quality and the handling of contaminated material include the following:

- construction works in high rainfall periods;
- slow or ineffective design and/or installation of erosion and sediment control measures
- ineffective maintenance of environmental control measures
- stripping and clearing of vegetation
- stripping of topsoil
- working in waterways
- access/egress points
- disturbance of contaminated soils
- transport and disposal of contaminated soils
- slow rehabilitation/ re-vegetation of works
- fuel and chemical storage and handling
- pollutants from plant wash down activities, including washing out of trucks
- areas of concentrated flows (eg batter drains, culvert construction)
- litter
- spillage/leakage of oil, grease, fuels and other chemicals from equipment operation and maintenance
- effluent from site offices and compounds.

These issues are addressed in the SWMS. A detailed **Erosion and Sediment Control Plan** (ESCP) is to be produced during construction.

#### 3.2 Potential Impacts on Hydrology, Water Quality and Soil

The Project will not involve any significant modifications to the existing drainage systems or generation of substantial quantities of wastewater during construction. Disturbance of landform geology and soils will be minimal during the construction phase.

The site is contaminated as a result of past activities. Disturbance of contaminated material during construction is addressed in the SWMS and the procedures contained therein are to be implemented during the excavation phase. The potential for migration of contaminants does exist and will need to be managed.

Groundwater impacts during construction may occur during excavation of the gross pollutant trap and deeper sections of the stormwater line. The potential impacts include:

• groundwater contamination due to accidental spillage or leakage of materials associated with construction activities;

These issues are addressed in Section 4 of this Plan.

### **SECTION 4** Environmental Mitigation Measures

#### 4.1 Air, Soil and Water Management Strategy

This section of the Plan outlines the overall strategy for managing project-wide risks related to air, soil and water.

#### 4.2 Safe Work Method Statement (SWMS)

The Safe Work Method Statement for work areas and activities requiring detailed pollution control strategies due to potential environmental impacts has been developed for the work. The SWMS includes detailed environmental management information such as proposed pollution controls, handling of contaminated soils, sequence of events and tool boxing requirements.

#### 4.3 Primary Erosion and Sediment Control Plan

A **Primary** Erosion and Sediment Control Plan (Primary ESCP) is to be developed to serve as a broad based plan to outline the intentions and fundamental principles that will be followed in the planning and implementation of control measures, for the entire work area.

# 4.4 Progressive Erosion and Sedimentation Control Plans (ESCP)

**Progressive** Erosion and Sedimentation Control Plans (Progressive ESCP) shall be developed using the principles provided in the Primary ESCP for each stage of the project prior to commencement of construction at each individual stage of the project.

The ESCP's will be developed for areas identified as having possible risk and will contain detailed erosion and sediment control information for various construction stages, including location of sediment fences, drainage systems and discharge and monitoring specifications, if required. The ESCPs may also contain other pollution controls and procedures in regard to noise and air aspects of the environment.

The ESCP's will be developed prior to the commencement of site works for each stage of the work. ESCP's will be amended progressively to accommodate changed construction activities, landforms, drainage paths and other conditions. ESCP's will be based on construction/design drawings or aerial photographs with the following types of soil and water management aspects identified, if applicable:

- controls for different stages of construction (i.e. initial clearing to trench excavation to restoration of backfill);
- heavy machinery access paths, positioning and associated hardstand and clearance requirements;
- areas of high erosion hazard;
- specific activities that may occur outside the project area (e.g. compound, stockpile sites, access roads);
- site and works layout, including the extent of clearing and disturbance, controlled access routes and stockpile sites;

- proposed temporary and permanent erosion and sediment control measures and reference to procedures, including dewatering procedures if necessary;
- reference to monitoring and maintenance procedures;
- location of other pollution controls such as noise walls and dust and odour control devices
- environmental management procedures; and
- temporary site rehabilitation measures.

Mitigation measures and responsibilities for identified actions to minimise and mitigate soil and water quality impacts during construction are outlined in **Table 4.1**.

#### 4.5 Water Management Strategy

The proposed water management strategy during the construction for the services includes:

- surface water management;
- wastewater management
- groundwater management;
- water treatment and potential reuse; and
- sewage treatment and disposal.

Site-specific strategies for water management shall be detailed in the relevant SWMS and ESCPs.

#### 4.5.1 Surface Water Management

The effective control of surface water quality will be achieved through the use of erosion and sediment control and mitigation measures listed in **Section 4.6**.

Erosion and sediment controls will be designed and operated to ensure they do not exacerbate existing flood conditions. Permanent drainage systems will be developed to ensure that permanent construction features do not cause an adverse flooding effect.

#### 4.5.2 Wastewater Management

The majority of wastewater generated on-site will be produced from:

- site runoff water, especially from excavations and ponded areas;
- chemical and fuel storage compounds;
- concrete saw cutting activities;
- concrete curing;
- run off from concreting activities; and
- washdown of concrete haul trucks and agitators.

All activities that generate wastewater will, where practical, utilise controls including bunding to contain wastewater to enable its removal or treatment in an environmentally acceptable manner.

All sub-contractors, particularly those who undertake activities that generate or handle potential pollutants will be made aware of their environmental responsibilities during the induction and regular inspections will be undertaken to ensure that they are complying with all relevant legislation. All potentially contaminated wastewater will be contained and disposed of in accordance with DECC Guidelines 'Assessment, Classification and Management of Liquid and Non-liquid Waste' and the requirements of the POEO Act.

Concrete washout areas/pits will be adequately sized, regularly maintained and located in a position where wastewater will not enter any drainage lines/waterways.

#### 4.5.3 Groundwater Management

Works associated with the excavation for the services are not anticipated to adversely impact groundwater quality or levels. If groundwater accumulates in excavation trenches it will be directed or pumped into a sump, analysed for any potential contaminants and appropriately treated/disposed of before discharge to ensure it does not present a pollution hazard to any waterways.

Construction zones will have above ground and bunded refueling areas and storage areas for contaminated soils. The bunded areas will have impermeable bases of HDPE plastic sheeting and in the case of liquid storage areas a capacity of 110% of the volume of the largest container stored within the bund.

During excavation water will be diverted around the excavation area to avoid unnecessary flooding of the trench and cross contamination with asbestos material. Clean water will be kept separated from the work area as much as possible.

#### 4.5.4 Sewage Treatment and Disposal

Site amenities (portable buildings) will be connected directly to the sewer system. These facilities will be located/positioned towards the front boundary of the site well upstream of the work area.

#### 4.6 Erosion and Sediment Control and Mitigation Measures

The implementation of temporary erosion and sediment controls will be progressive and continual. Erosion control measures will be designed such that they are as close to the potential source of sediment as possible. The specifics of design, location and operation of each erosion and sediment control will be shown on the Progressive ESCPs. Key controls will be installed during site establishment and as the site evolves and changes, sediment controls will be adjusted accordingly. The Project Engineer, Site Foreman and Contractors will liaise with the Environmental Officer to ensure that appropriate controls are always in place and working effectively.

#### 4.6.1 Erosion and Sediment Controls Minimising Disturbance and Cleared Disturbed Areas

Erosion will be reduced through the minimisation of the cleared footprint, to areas immediately affected by the trench excavation. Concrete pavements will be sawcut to suit the width of the trench with minimal area of cap exposed at any one time.

Where practicable, progressive restoration of the trenches will occur to minimise the area of exposed surfaces following completion of works.

#### Sediment Fences

Sediment fences are a temporary barrier of geotextile filter fabric, supported by stakes to retain sediment on-site by filtration and reduction of surface water flow velocity. The position of sediment fences will be identified on Progressive ESCPs and also in various locations, which will become more apparent as site conditions evolve.

When appropriate, sediment fences will be attached to the site perimeter fencing and anchored into the ground before the commencement of other site establishment works. Sediment fences will also be used to assist in the control of runoff from topsoil and other stockpiles.

Sediment fences will be inspected for undercutting, sagging and overtopping, and repaired immediately. Accumulated sediment behind the sediment fence is to be removed before the level of accumulated sediment reaches one third of the original height of the fence.

#### Temporary Site Access

Site access will be from the site entrance to Grand Avenue. An access route from the work area will be identified and marked to maintain separation from the rest of the site. Trucks leaving the site will be covered and washed down as specified in the SWMS to minimise the tracking of soil from the site onto roads during the project.

#### Straw Bale Filter

Straw bale filters wrapped in geotextile fabric may be used as an alternative to a sediment fence where high surface water flows are anticipated. The straw bales are to be placed parallel to the contours of the site.

#### 4.7 Site Drainage

During design Billbergia will endeavour to keep clean water separated from turbid run-off from exposed areas. Where possible clean water will be diverted around the exposed areas directed to the nearest stormwater outlet. Drainage construction will obviously form an integral part of controlling water movement on site and the early commissioning of the permanent drainage line will be undertaken where practicable. Construction of the drainage line will commence from the downstream end and progress upstream.

#### 4.8 Maintenance of Controls

Regular maintenance of all erosion and sediment controls will be implemented and monitored by construction personnel and the Environmental Officer (refer to Section 5). Sediment cleaned from sediment controls will be relocated to locations where further pollution will not occur.

#### 4.9 Chemical & Fuel Storage

The storage and handling of fuels and chemicals has the potential to pollute surface waters and contaminate soils. Storage areas for fuels, oils and chemicals used during construction will be contained within an impervious bund with a volume of at least 110% of the volume of the largest container in the bunded area, to retain any spills. Any spillage will be immediately contained and absorbed with a suitable absorbent material.

Spill kits will be provided at areas of the worksite where handling and use of fuels, oils and chemicals occurs. Relevant staff will posses or be provided with appropriate training in spill response.

Materials Safety Data Sheets (MSDS) for all chemicals stored and used on-site will be available to site personnel. Site personnel will be informed of the location of the MSDS register as a part of the site induction.

In the event water is polluted by chemicals, fuels, oil, and/or fire fighting materials (e.g. foams) the water will be collected, and disposed at an approved Liquid Waste Treatment Facility in accordance with DECC guidelines.

#### 4.10 Control of Dust and Odour

Works will be undertaken in a manner that minimises fugitive dust and odour emissions. Given the size of the site a program of dust monitoring will be implemented during the works. A suitably qualified occupational hygienist will be engaged to prepare an air monitoring program for the excavation, storage and offsite removal of fill material containing asbestos in accordance with the Australian Code of Practice for the Safe Removal of Asbestos (NOHSC: 2002 (2005). This air monitoring program will assess the nature of the asbestos material, different wind movements across the site, location of nearby receptors such as child care centre, Train Station and residential housing.

The following measures shall be taken to control dust and odour:

Careful handling of material in a manner that minimises dust emissions;

Placement of screening material (eg. hessian) on perimeter fences adjacent to excavations;

Consideration of excavating asbestos containing material within a tent or other structure that can follow the excavation if recommended by the Hygienist;

Spraying dusty parts of the site with water;

Keeping excavations moist (where practical);

Use of Tarpaulins to cover loads (incoming and outgoing);

Restriction of stockpile hight to below the fence line where possible.

Where visual inspection indicates that dust levels may be unacceptable, work will cease until measures are taken to reduce emissions or until weather conditions improve. The site supervisor will be responsible for dust management. Where the hygienist advises that asbestos concentration levels exceed the permitted level, work will stop and revised methods of work will be adopted based on advise from the hygienist and AS1 contractor.

If odours are detected at the boundary of the site the following procedures may be engaged to minimise odours:

Covering of stockpiles where practical;

Use of fine mist sprays and hydrocarbon mitigating agent on impacted areas and materials;

Adequate maintenance of equipment and machinery to minimise exhaust emissions.

#### Table 4.1 Soil and Water Mitigation Measures

| Management and Mitigation Measures   | Responsibility | Timing           |
|--|----------------|------------------|
| General Construction   |                |                  |
| All personnel are to be inducted, and receive ongoing training via toolbox talks, regarding their responsibilities related to soil conservation issues, erosion and sediment control systems and the need for ongoing maintenance to prevent land degradation and water pollution.   | PM/EO          | Ongoing          |
| All sediment control measures (i.e. sediment fences, diversion drainage structures and bunding, where slope warrants significant energy dissipation etc) are to be designed and installed as per relevant ESCP prior to the commencement of construction works. Controls will be used in conjunction with one another to form the "treatment train approach" to managing erosion and sediment on site. | PM/EO/SF       | Ongoing          |
| The area of surface soil disturbed will be kept to the minimum area necessary to complete the works. Disturbed areas will be stabilised and restored as soon as practicable.   | PM/SF          | At all times     |
| Measures to be taken to prevent tracking of soils/sediments from the work site onto roadways and footpaths.  | PM/SF          | Ongoing          |
| Any sediment/soil transferred from the work site to adjacent roadways/footpaths is to be swept up progressively at the end of each work day.   | PM/SF          | Ongoing          |
| Chemicals, fuels and liquid wastes would be stored in accordance with AS 1940 Guidelines and in sealed vessels of appropriate volumes<br>and kept in bunded areas away from stormwater drainage lines. However, as the quantities of chemicals on site are likely to be very low it<br>is unlikely that this type of storage facility will be required.  | PM/SF          | Ongoing          |
| Specific training will be provided to engineers and labour teams responsible for construction and maintenance of, temporary controls including sediment fences and batter drains on fill batters etc.  | PM/SF/EO       | Ongoing          |
| Any fuel, lubricant or hydraulic fluid spills would be cleaned-up immediately using absorbent material and the contaminated material disposed of at a licensed waste depot.  | PM/SF          | At all times     |
| Spoil Management   |                |                  |
| Erosion and sediment control measures that secure the stockpile areas (eg diversions and sediment fence) must be in place prior to the commencement of any spoil stockpiling activities.   | PM/SF          | Pre-construction |
| Stockpiles of erodible material (including spoil and fill) are to be located as far away as practical from any storm-water system inlets and protected with appropriate erosion and sediment controls.   | PM/SF          | Ongoing          |
| Any soils contaminated from fuel, oil or chemical spills are to be excavated and transported by an appropriate licensed contractor to an appropriate licensed waste facility.  | PM/SF/EO       | Ongoing          |
| Excess soil that cannot be used on site will be tested and classified before removal from the site for reuse or disposal at a licensed waste facility.   | PM/SF/EO       | Ongoing          |
| Stockpiles are to be checked for stability, and erosion controls maintained as required.   | SF             | Daily            |
| Contaminated Soil Management   |                |                  |
| Erosion and sediment control measures that secure the stockpile areas (eg HDPE Liner, diversions and sediment fence) must be in place prior to the commencement of any spoil stockpiling activities.   | PM/SF          | Pre-construction |
| Stockpiles are to be located as far away as practical from any storm-water system inlets and within the designated area as outlined in the SWMP and protected with appropriate erosion and sediment controls.  | PM/SF          | Ongoing          |
| Contaminated soils are to be transported by an appropriate licensed contractor to an appropriate licensed waste facility as outlined in the SWMP.  | PM/SF/EO       | Ongoing          |
| Stockpiles are to be checked for stability, and erosion controls maintained as required.   | SF             | Daily            |

#### Table 4.1 Soil and Water Mitigation Measures

| Management and Mitigation Measures   | Responsibility | Timing             |
|--|----------------|--------------------|
| Surface Runoff Management  |                |                    |
| Sandbags or other suitable sediment traps would be placed around stormwater system inlets at risk of receiving surface runoff from the work area.  | PM/SF          | Ongoing            |
| Sediment fences/traps would be cleaned out before 30% capacity is reached. The resultant sediment material would either be stored for re-use on site or disposed of to an approved facility.   | SF             | Ongoing            |
| Any water treatment chemicals (flocculants) used on the project will be appropriately selected to ensure minimal impact on waterways.  | EO/PM/SF       | Ongoing            |
| All stormwater pits that lie within disturbed areas shall be protected or isolated to prevent run-off from disturbed areas entering the drainage system.   | AM/SF          | As required        |
| Any dewatering or water collected in excavation areas and sediment control structures will only be discharged to receiving waters when confirmed through recorded field tests/observations to comply with the requirements of the <i>Protection of the Environment Operations</i> Act, 1997. Where required, waters will be treated and then tested to confirm compliance. | PM/SF/EO       | Prior to discharge |
| Groundwater Management Measures  |                |                    |
| Management of any excess groundwater will involve collection, analysis, and treatment to ensure the water is compliant with the requirements of the <i>Protection of the Environment Operations Act</i> 1997.  | PM/SF/EO       | As required        |
| Contaminated Water Management  |                |                    |
| Concrete washout areas / pits will be adequately sized, regularly maintained and located in a position where wastewater will not enter any drainage lines / waterways.   | PM/SF          | Ongoing            |
| All potentially contaminated wastewater will be contained and disposed of in accordance with DEC Guidelines Assessment, Classification and Management of Liquid and Non-liquid Waste.  | PM/SF/EO       | Ongoing            |
| Monitoring, Auditing and Reporting   |                |                    |
| The EO or delegate shall inspect erosion control devices following major rainfall events or on a weekly basis. Where controls deemed as inadequate additional controls will be installed e.g. sandbags, additional sed-fences, channels. Sediment removed from controls will be assessed and if suitable combined with stockpiled project spoil for reuse/disposal.        | EO/SF          | Weekly             |
|  |                |                    |
| In the event of a film, oil/grease stain or other indicator of pollution within site run-off being observed, the EO or delegate will inspect the work site to determine the source. Appropriate remedial measures to control the source will be determined for implementation by the Site Foreman in consultation with EO.   | EO/SF          | As required        |

### **SECTION 5** Inspection, Auditing and Monitoring

#### 5.1 Environmental Monitoring and Inspection

Monitoring and auditing will be organised and undertaken by the Environmental Officer. The reporting program for the Project is:

#### 5.2 Quarterly Environmental Auditing

Quarterly Environmental Audits to assess compliance with Sub Plans.

#### 5.3 Environmental Inspections

An inspection of active work sites will take place after heavy rainfall, or at least weekly, to ensure compliance with all environmental requirements. The Weekly Inspection Form Rec 56 shall be used.

#### 5.4 Daily Surveillance

The Site Foreman/Engineer will be responsible for ensuring day to day maintenance of environmental management measures and shall liaise with the EO on environmental matters as required.

The Site Foreman/Engineer shall inspect the site daily and shall;

- 1) ensure that all drains are operating effectively and shall make any necessary repairs,
- 2) remove any spilled material from area subject to runoff or concentrated flow,
- 3) remove trapped sediment where the capacity of the trapping device falls below 60%,
- 4) inspect the sediment basin after each rainfall event and/or weekly. Ensure that all sediment is removed once the sediment storage zone is full - refer to indicator pegs placed in accordance with construction sequence. Ensure that outlet works are maintained in fully operational condition at all times.
- 5) inspect discharge from proposed treatment system at regular intervals for any visible change in discharge quality. The frequency of the discharge checks will be determined based on the adopted treatment system.
- 6) maintain proprietary treatment systems in accordance with manufacturers/suppliers standards and specifications.

- ensure rehabilitated lands have effectively reduced the erosion hazard and initiate upgrading or repair as appropriate,
- construct additional erosion or sediment control works as may be appropriate to ensure the protection of down slope lands and waterways.
- maintain erosion and sediment control measures in a fully functioning condition until all earthwork activities are completed and the site is rehabilitated,
- 10) inspect the contaminated soil stockpile area and check the integrity of the HDPE liner for any damage and immediately instigate repairs to the liner if necessary.
- 11) remove temporary soil conservation structures as the last activity in the rehabilitation program.

#### 5.5 Incident Management Procedure

In the event of an occurrence:

- Action is taken commensurate to the incident or problem
- An Incident Report or Non-conformance is raised
- Personnel and authorities are advised, as required
- Remedies and/or corrective action is determined and instigated.

Examples of "Incidents" include fuel, oil and chemical spills, discharge of polluted waters, spillage of asbestos material, damage to protected flora and damage to archaeological sites, etc.

#### 5.6 Water Quality Monitoring

Water quality monitoring shall be required for groundwater and surface water.

If deemed necessary, water quality monitoring will be used in the event of an uncontrolled sediment or chemical discharge to ensure compliance with regulations and also to assess the water quality discharged from site works.

A summary of the water quality parameters that may be tested are outlined in **Table 5.1** below.

If necessary monitoring will be conducted by the EO or appropriately qualified personnel who have training and expertise in water sampling techniques. Monitoring criteria will be in accordance with the Environment Protection Licence requirements and laboratory analysis will occur as required.

| Parameter (and EPA limits)                | Sampling Method            | Analytical Method   |
|---|----------------------------|---|
| Colour (no visible)                       | Inspection and Grab Sample | Field Analysis and confirmed as required with lab assessment              |
| pH (6.5 –8.5)                             | Grab Sample                | Field Analysis and confirmed as required with lab assessment              |
| Turbidity (NTU)                           | Grab Sample                | Field Analysis  |
| TSS (50mg/L)                              | Grab Sample                | Laboratory Analysis (as required to calibrate field analyses)             |
| Conductivity (200-300µScm <sup>-1</sup> ) | Probe or Grab Sample       | Field Analysis or Laboratory Analysis<br>(testing to occur when required) |
| Oil and Grease (no visible)               | Grab Sample                | Field Analysis and confirmed as required with lab assessment              |

#### **Table 5.1 Water Quality Parameters**

No.1 Grand Avenue, Camellia SWP for laying of Services

## **ATTACHMENT 1**

TO THE

## SITE WORK PLAN

Project No. 3263

# SAFE WORK METHOD STATEMENT

|            | illbergia<br>ating communities                    | SAF                               | E WOR             | K METI            | HOD ST      | ATEMENT                                      | Activity       | ny: Billbergia Group<br>y Description: Excavation and layir<br>services   | ig of stc   | ormwater and       |
|------------|---|-----------------------------------|-------------------|-------------------|-------------|--|----------------|---|-------------|--------------------|
|            |   |                                   |                   |                   |             | minate, or reduce as<br>process will/has bee |                | e, the possibility of an accident occurring where perso<br>lete this SWMS   | ons may suf | fer injury or work |
|            |   |                                   | WORKER            | S SHALL           | FOLLOW      | THIS WORK N                                  | IETHOD W       | HEN CARRYING OUT THE NOMINAT<br>d in the preparation of this work method  | ED WOF      | łks                |
| Wr         | itten & Prep                                      | pared by:                         | Eddie Lu          | icas              | S           | Signature:                                   |                | Date:   | 24/6        | 5/10               |
|            | oject Name:<br>ncipal Cont<br>p.                  |                                   | 1 Grand<br>Eugene | Avenue C<br>McGee | <u> </u>    | Project Number<br>Signature:                 | 3263           | Principal<br>Contractor:<br>Date:   | Billb       | ergia Group        |
| Ris        | sk Class Ca                                       | alculator<br>Conseque<br>Disaster | nce<br>Very       | Serious           | Substantial | Minor  | The haz        | rood / Consequence<br>zard has the potential to:<br>ermanently disable or kill  |             | Risk Class         |
|            | Almost  | 1                                 | Serious<br>1      | 1                 | 2           | 2  | • c            | ause major damage to the structure<br>ave significant impact on the surrounding population and e  | environment | 1                  |
| Likelihood | certain<br>Likely<br>Possible                     | 1                                 | 1                 | 2                 | 2           | 2  | • te<br>• c    | zard has the potential to:<br>emporarily disable or seriously injury<br>ause minor damage to the structure<br>reach the site boundary and pollute local environment |             | 2                  |
| Likel      | Remotely<br>Possible<br>Practically<br>impossible | 2<br>2                            | 2<br>3            | 2<br>3            | 3<br>3      | 3 3  | The haz<br>• c | zard has the potential to:<br>ause minor injury<br>e contained within the site boundary   |             | 3                  |



## SAFE WORK METHOD STATEMENT

Company: Billbergia Group

Activity Description: Excavation and laying of stormwater and

#### utility services

| ACTIVITY STEPS<br>(Break the job down into steps) | <b>POTENTIAL HAZARDS</b><br>(What can harm you?) | RISK<br>CLASS | Safety Controls<br>(what you will do to make the job safe)  | Responsibility<br>(who is going to<br>ensure this<br>happens)                     |
|---|--|---------------|---|---|
| General planning                                  | Inadequate planning                              | 1             | Ensure that site specific risk assessment and safety plan have been drawn<br>up and that consultation has taken place with all appropriate<br>persons/authorities prior to start of job.<br>Ensure that service location plans have been obtained before<br>commencement.   | Project Manager   |
|   | Inadequate training                              | 1             | Ensure that a competent supervisor is engaged to direct the work and that all site personnel have undertaken required training.   | Project Manager   |
|   | Improvisation.                                   | 2             | Arrange for the most appropriate plant and equipment available to be used on the job.   | Project Manager /<br>Supervisor   |
|   | Exposure to ultra violet light, glare.           | 3             | Sunscreen 15+, shirt, hard hat flap and AS rated sunglasses to be provided and worn by all persons on site.   | All personnel   |
|   | Hot weather.                                     | 3             | Ensure adequate supply of cold drinking water to be provided to the work area.  | Supervisor  |
|   | Wet weather                                      | 3             | Generally work will stop in wet weather. If work must be completed in wet weather then appropriate wet weather clothing shall be provided. Supervisor to monitor conditions and suspend work if necessary.  | Supervisor  |
|   | Manual Handling                                  | 3             | Ensure that sufficient manpower and equipment are provided to undertake the required task and that job rotation occurs on a frequent basis.   | Supervisor  |
|   | Dust / Asbestos                                  | 2             | Works to be supervised by AS1 Contractor. AS1 Supervisor to ensure dust suppression measures such as hoses, sprinklers are used. Excavation area to be wetted down prior to excavation process commencing and then wetting process to be continued for the duration of the excavation process. Nearby personnel to wear dust masks / respirators, gloves, disposable overalls as required. All persons to be trained to correctly fit and use | AS1 supervisor<br>/Hygenist<br>Project Manager<br>AS1 Supervisor<br>All personnel |

| Billbergia<br>creating communities | SAFE WORK METHOD   | STATEMENT   | Company: Billbergia Group<br>Activity Description: Excavation and laying of stormwater and<br>utility services   |                                  |  |
|------------------------------------|--|---|--|----------------------------------|--|
|                                    |  | be dispos<br>approved<br>before lea<br>A suitably<br>monitoring<br>material of<br>Practice f<br>monitoring<br>different v<br>such as c<br>Air monito<br>monitoring<br>maintaine<br>Demarcat<br>and main<br>Signage s<br>placed at<br>in that are<br>All worked<br>only in lur | y devices. All asbestos contaminated materials, overalls, etc will<br>ed of at an EPA licensed landfill or buried on site in a location<br>by Environmental Engineer. Workers to wet decontaminate<br>aving the work area.<br>y qualified occupational hygienist will be engaged to prepare an air<br>g program for the excavation, storage and offsite removal of fill<br>containing asbestos in accordance with the Australian Code of<br>or the Safe Removal of Asbestos (NOHSC: 2002 (2005). This air<br>g program will assess the nature of the asbestos material,<br>wind movements across the site, location of nearby receptors<br>hild care centre, Train Station and residential housing.<br>ors to be set up to detect asbestos fibres adjacent to where<br>ns are occurring and at other locations identified in the air<br>g program, daily to ensure the suppression / wetting process is<br>d as effective during the excavation process.<br>tion barriers are to be installed at the edge of the excavation area<br>tained until the final clearance has been obtained for that area.<br>estating " Asbestos removal No unauthorised access" to be<br>the demarcation point and no unauthorised access to be allowed<br>ea.<br>"s to wash hands thoroughly prior to eating. Food to be consumed<br>nch shed. Soil to be removed from boots prior to entering lunch | AS1 Supervisor<br>AS1 Supervisor |  |
|                                    | Chemical Hazards such as<br>Heavy metals, Polycyclic<br>Aromatic Hydrocarbons<br>(PAHs), Total Petroleum<br>Hydrocarbons (TPH) and<br>Monocyclic Aromatic<br>Hydrocarbons ( benzene,<br>toluene, ethyl benzene,<br>xylenes, BTEX | Avoid ing<br>groundwa<br>Wear PPI<br>latex glov<br>No smoki<br>possibility<br>prior to ea   | ect contact with contaminated soils, surface water or groundwater.<br>estion or swallowing of with contaminated soils, surface water or<br>iter.<br>E as required for asbestos exposure above including disposable<br>es for personnel involved in soil or groundwater sampling.<br>ng, eating or drinking permitted on site in areas where the<br>of contamination exists. All workers to wash hands thoroughly<br>ating. Food to be consumed only in lunch shed. Soil to be<br>from boots prior to entering lunch shed.  | AS1 Supervisor                   |  |
| Set out of line                    | Impact with road vehicles or<br>plant  | 1 Assess si   | te prior to commencement and arrange traffic control if necessary  | Surveyor                         |  |
| Site establishment                 | Lack of awareness/orientation  |   | at all personnel have undertaken a site specific induction before ork. All persons to be made aware of asbestos and other  | Supervisor                       |  |

| Billbergia<br>creating communities   | AFE WORK METHOD   | STATE | MENT  | Company: Billbergia Group<br>Activity Description: Excavation and laying of stormwater and<br>utility services   |  |  |
|--------------------------------------|---|-------|---|--|--|--|
|                                      | Vehicles / persons entering<br>work area<br>Unsafe plant and equipment  | 1     | are familiar wil<br>Organise the f<br>be erected to v<br>vehicles/perso<br>Arrange for tra<br>Ensure that all<br>horns, reverse           | on the site and that all workers involved in Site remediation<br>th the Billbergia Safe Work Method Statement.<br>Fencing off of work area. Appropriate barriers and signs shall<br>warn of hazards (including Asbestos) and to direct<br>ons away from the work area.<br>Affic control plan to be drawn up and implemented if required. | AS1 Supervisor<br>Project manager<br>Supervisor                              |  |
| Delivery of Plant to site            | Unskilled plant operators<br>Injury to the general public<br>during transport of excavator to<br>the work site. | 2     | Excavator/ plan<br>and dogs.<br>Bucket and atta<br>falling during tr<br>Excavator/ plan<br>Excavator / plan                               | nt to be loaded onto the low loader by a competent operator.<br>ant to be transported to the worksite at times approved by the   | Supervisor<br>Float Driver   |  |
| Unload excavator / plant<br>at site. | Persons crushed by reversing<br>low loader and plant being<br>unloaded.   | 1     | those authoriti<br>Low Loader to<br>public.<br>Low loader to b<br>Spotter to be p<br>with the operat<br>Excavator / Pla<br>beacon in work | unload the excavator / plant inside the site away from the<br>be driven in the forward direction at all times.<br>wresent when the excavator/ Plant is driven off the low loader<br>tor's cabin to be in the forward facing direction.<br>ant to be fitted with travelling alarms and flashing orange                                    | Low Loader Driver,<br>Plant Operator,<br>Traffic controllers<br>and Spotter. |  |

| Billbergia<br>creating communities | SAFE WORK METHO           | D STATEN           | <b>MENT</b> Company: Billbergia Group Activity Description: Excavation and laying of stormwater and utility services  |
|------------------------------------|---------------------------|--------------------|---|
|                                    |                           | be<br>S<br>P       | potter and Low loader driver to be positioned in a way that prevents them<br>eing in the fall shadow of the excavator, during the unloading procedure.<br>potter, Low Loader Driver and others to remain in full view of the excavator /<br>lant operator at all times during this process and to ensure they are wearing<br>igh visibility vests at all times.   |
| Plant Operation                    | Unsafe Plant              | hi<br>pi           | Check that all plant is in good working order and fitted with functioning Operator orns, reverse beepers, flashing beacons, fire extinguishers and roll-over rotection on a daily basis.<br>Insure that plant receives regular maintenance. Operator  |
|                                    | Unskilled plant operators | C(                 | Only ticketed operators are to operate plant under unsupervised<br>onditions. Where non-ticketed personnel operate equipment they must be<br>verseen by a qualified person and record all details of their work in a<br>VorkCover training logbook.   |
|                                    | Difficult work space      | pe                 | Operator to check that mirrors are clean and undamaged and that<br>ersonnel are clear of slewing area before moving. Headlights and<br>oodlights are to be used in low light visibility.  |
|                                    | Impact with plant         | m<br>sl<br>A       | Operator to ensure that work area is cordoned off with high visibility barrier<br>hesh if non excavation personnel are likely to come within vicinity of<br>lewing radius.<br>Il personnel working in vicinity of plant must wear high visibility All personnel   |
|                                    | Machinery noise           | 2 A                | est/clothing.<br>Il workers must wear earmuffs/earplugs when working near hammers and All personnel oisy plant.   |
|                                    | Fume inhalation           |                    | Supervisor to ensure that, when working in areas of poor ventilation, plant Supervisor s fitted with catalytic converters and industrial fans provided if necessary.  |
|                                    | Dust / asbestos fibres    | SI<br>N<br>O'<br>A | Vorks to be supervised by AS1 Contractor. AS1 Supervisor to ensure dust<br>uppression measures such as hoses, sprinklers are used.<br>learby personnel to wear dust masks / respirators, gloves, disposable<br>veralls as required.<br>ir monitors to be set up to detect asbestos fibres as identified in air<br>nonitoring plan daily.Project Manager<br>AS1 Supervisor<br>AS1 Supervisor<br>AS1 Supervisor<br>AS1 Supervisor |

| <b>Billbergia</b><br>creating communities | SAFE WORK METHO         | D STATEMI                | ENT Company: Billbergia Group<br>Activity Description: Excavation and laying of stormwater and<br>utility services   |
|---|-------------------------|--------------------------|--|
|   | Moving Machinery        | to t                     | perator to check path is clear, level and stable and that route is safe prior Operator travelling.   |
|   | Parking Plant           | 2 Op<br>bef<br>Op        | perator to ensure that plant is hand-braked with buckets on ground<br>fore leaving machine.<br>perator to ensure that plant is not parked within the zone of influence of<br>excavation.   |
|   | Laser Use               |                          | erator to ensure that warning signage is in place whilst in use and that Operator er is not set up at eye level.   |
| Power Tool Operatio                       | n Inadequate Training   | 2 Sup<br>the<br>use      | pervisor to ensure that all personnel are given suitable instructions in<br>e operation of tools before use. Explosive Power Tools (EPTs) are to be<br>ed by ticketed personnel only. Concrete cutting of existing pavement to<br>carried out by approved experienced subcontractor.   |
|   | Unsafe equipment        | and                      | pervisor and worker to ensure that all guards are in place before use<br>d that equipment is in good working order. Electrical tools must have a<br>rrent tag.   |
|   | Nature of job/equipment |                          | orkers to wear eye protection, hearing protection, gloves or other PPE as All personnel commended by the operation manual.   |
|   | Dust                    |                          | nere dust suppression equipment is inadequate or impractical all All personnel rsonnel must wear appropriate dust masks or respirators.  |
| Concrete breaking                         | Noise                   | 2 Op                     | perator to keep cab closed and wear hearing protection.Operatorarby personnel to wear hearing protection.All personnel   |
|   | Dust / Asbestos         | sup<br>Nea<br>ove<br>Air | brks to be supervised by AS1 Contractor. AS1 Supervisor to ensure dust<br>opression measures such as hoses, sprinklers are used.<br>arby personnel to wear dust masks / respirators, gloves, disposable<br>eralls as required.<br>monitors to be set up to detect asbestos fibres as identified in air<br>pritoring plan daily.<br>AS1 Supervisor<br>All personnel<br>AS1 Supervisor |

| Billbergia<br>creating communities | SAFE WORK METHO                    | O STATI | EMENT Company: Billbergia Group<br>Activity Description: Excavation and layin<br>utility services   | Activity Description: Excavation and laying of stormwater an |  |  |
|------------------------------------|------------------------------------|---------|---|--|--|--|
| Excavation                         | Overhead hazards                   | 1       | Operator to observe safe distances from overhead electrical wires as stated on compliance plate. If safe distance cannot be maintained the shall be covered or isolation arranged with the relevant electrical utility  |  |  |  |
|                                    | Existing in-ground service rupture | 1       | Project manager to check with relevant authorities and arrange on-site service location.<br>Project manager is to ensure that the project instruction for "Service Location, Identification and Excavation is followed.   | Project manager<br>Project manager                           |  |  |
|                                    |                                    |         | Supervisor to check on service location prior to commencement. All services to be exposed during excavation. When in close vicinity to services, and where in doubt, hand-digging should be used.   | Supervisor   |  |  |
|                                    | Excavation collapse                | 1       | <ul> <li>Supervisor to assess stability of all excavations taking into account the following:</li> <li>a) the depth of excavation</li> <li>b) nature and faults in the earth or rock</li> <li>c) presence of water</li> <li>d) loads in the zone of influence of the excavation</li> <li>e) vibration</li> <li>f) previous disturbances and excavations</li> <li>g) adjoining buildings and structures</li> </ul> | Supervisor   |  |  |
|                                    |                                    |         | Supervisor to ensure excavation is benched or shored as required, and depth is greater than 1.5m. Personnel are not to enter an excavation greater than 1.5m deep, without benching or shoring, in material other rock. Where necessary, the stability of slopes or rock faces should be certified by a geotechnical engineer.  | on<br>ther than  |  |  |
|                                    | Falls from heights                 | 1       | Supervisor to ensure that all excavations greater than 1.5m deep are fenced off. Where personnel are required to work close to the edge of deep excavation each worker must wear a suitable fall arrest harness other device.   |  |  |  |
|                                    | Unsecured work site                | 2       | Supervisor to check all fencing daily with particular care required befor finishing work for the day. If necessary night lighting and sentries shou used.   |  |  |  |

| Billbergia<br>reating communities | SAFE WORK METHOD                               | STATEME                                | Activity Description: Excavation and laying of stormwater an   |
|-----------------------------------|--|--|--|
|                                   |  |  | utility services   |
|                                   | Deep water collecting in excavation            | exca                                   | broject manager / supervisor should assess the likelihood of the vation collecting and retaining water. If the risk of drowning is high supervisor lifebuoys should be provided close to the excavation.   |
|                                   | Excavating adjacent to buildings or structures | engi                                   | project manager is to seek advice from appropriately qualified<br>neers prior to deep excavation close to buildings or structures. Where<br>ssary, existing structures should be underpinned or otherwise<br>ned.  |
|                                   | Inrush of water                                |  | <ul> <li>h of water may be countered by:</li> <li>) provision of sumps</li> <li>) increasing exit points e.g. increasing the number of ladders</li> <li>) lowering the water table (e.g. use of spear pumps)</li> <li>) provision of pumps</li> <li>&gt;) physical or mechanical barriers</li> </ul>   |
|                                   | Materials/traffic above or near excavation     | 1<br>Ope<br>unst<br>Ope                | ored excavation.<br>ator to ensure that no load is placed within the zone of influence of an<br>ored excavation.<br>ator to ensure that no load is placed closer to than a metre to an<br>opriately shored excavation.   |
|                                   | Falling objects                                | 1<br>Ope<br>the r<br>work              | Ators to ensure loads are secure and within the safe working limits of<br>nachinery. Loads are not to be suspended or travel over persons<br>ing below.OperatorOperatorOperator  |
|                                   |  | from<br>Han<br>pres                    | ator to ensure that all debris and loose excavated spoil is pulled away<br>the top and sides of the excavation.<br>Irails with kickboards should be provided where loose material is<br>ent above an excavation.<br>All personnel  |
|                                   | Unsafe access and untidy work areas            | 2<br>Sup<br>mair<br>Wor<br>from<br>Wor | nandatory that all personnel wear safety helmets.<br>rvisor to ensure that ladders, steps or ramp access are provided and<br>tained at entries to excavation.<br>ters to ensure that work areas and passageways are clear and free<br>obstructions.<br>ters to ensure that rubbish, including construction waste and excess<br>vated material are removed on engoing basis |
|                                   | Soil contaminants – gases,                     |  | vated material are removed on ongoing basis. AS1 Supervisor  |

| <b>Billbergia</b><br>creating communities  | AFE WORK METHOD  | STATE  | MENT   | Company: Billbergia Group<br>Activity Description: Excavation and laying of<br>utility services   | stormwater and  |
|--|--|--------|--|---|---|
|  | dusts, chemicals & biological substances         Contamination spread to non affected areas or offsite         Persons injured in contamination zone | 2      | suppression<br>Nearby perse<br>overalls as re<br>Air monitors<br>monitoring p<br>If odours are<br>monitored by<br>hydrocarbon<br>All clothing u<br>requirements<br>excavation a<br>Only areas th<br>disturbed.<br>Site to be de<br>trucks to con<br>All drivers ar<br>project site. If<br>to be washed<br>Soil to be se<br>Environment<br>Excavator ar | to be set up to detect asbestos fibres as identified in air<br>lan daily.<br>encountered during excavation then the excavation is to be<br>/ Environmental Engineer using PID monitor to detect<br>s.<br>tillised shall be managed, as per the decontamination<br>s of the NOHSC Standard 2002, at all times during the<br>nd removal process.<br>nat require excavation for services and stormwater are to be<br>signated with an internal road system that prevents access by<br>taminated areas.<br>e to ensure they remain on this road at all times while on the<br>Rails and flat spots on trucks to be checked for soil and trucks<br>d down prior to leaving site.<br>parated and stockpiled in designated areas as directed by<br>al Engineer.<br>nd other plant to be decontaminated, prior to departing site.<br>and qualified first aid person are to be located on site during | All personnel<br>AS1 Supervisor<br>Project Manager /<br>Environmental<br>Engineer<br>AS1 Supervisor<br>Project Manager<br>Truck drivers<br>AS1 supervisor<br>Project Manager/<br>Enviro. Engineer<br>AS1 Supervisor<br>AS1 Supervisor |
| Prior to Loading truck<br>with asbestos<br>contaminated material<br>for offsite disposal,<br>trucks are to be lined<br>with 200um plastic, use<br>duct tape to secure<br>plastic while loading<br>material. (Not required<br>if using sealed tarp<br>trucks) |  | 2<br>2 |  | lder on truck to gain access to truck body.<br>turned off prior to workers lining bodies.   | All personnel<br>Truck Driver   |

| Billbergia<br>creating communities | SAFE WORK METHOD STATEMENT  |   | Company: Billbergia Group         Activity Description: Excavation and laying of stormwater and utility services  |
|------------------------------------|---|---|---|
| Load truck                         | Asbestos fibres   |   | Works to be supervised by AS1 Contractor. AS1 Supervisor to ensure dust<br>suppression measures such as hoses, sprinklers are used.<br>Nearby personnel to wear dust masks / P3 respirators, gloves, disposable<br>overalls as required.<br>  |
|                                    | being loaded.<br>Move truck to safe<br>truck to begin load<br>covers. Use fixed I |   | Move truck to safe distance from spoil heap (allow enough space for next<br>truck to begin loading) before getting out of the cab and putting on load<br>covers. Use fixed ladder on truck to gain access to truck body.<br>Do not load truck if driver or other workers may be hit by spoil whilst |
| Haulage                            | Unsafe plant  |   | Ensure that trucks are in good working order and have load covers if Driver travelling on public roads.   |
|                                    | Hazardous site access   | 2 | Arrange for traffic control plan to be drawn up and implemented if required.<br>Appropriate barriers and signs shall be erected to warn of hazards. Only<br>ticketed traffic controllers wearing high visibility clothing are to direct traffic<br>as trucks enter and exit site if required.       |
|                                    | Asbestos fibres   |   | Trucks to have their load sealed with 200um plastic & secured with duct<br>tape. (Not required if using sealed tarp trucks). Trucks to be licensed to<br>carry asbestos contaminated material when travelling on public roads.  |
|                                    | Fall from bin<br>Hit by truck   |   | Use fixed ladder on truck to gain access to truck body.All personnelTrucks to be turned off prior to workers sealing loads.Truck Driver   |
|                                    | Spoil dropped on public roads   | 3 | Ensure truck tyres are washed and loads secured before truck leaves site. AS1 Supervisor  |

| Billbergia<br>creating communities           | SAFE WORK METHOD   | STATE | EMENT       Company: Billbergia Group         Activity Description: Excavation and laying of stormwater and utility services   |
|--|--|-------|--|
|  |  |       | Ticketed traffic controllers wearing high visibility clothing must be in position if public roads need cleaning by workers on foot.  |
|  | Uneven or soft ground (Truck overturning)  | 1     | Check that tip area is on even and solid ground before tipping load Driver   |
|  | Contamination as a result of<br>contaminated materials being<br>dumped at other than a<br>nominated waste disposal<br>depot. | 1     | A waste disposal depot is to be nominated by Billbergia.<br>A receipt of disposal is to be issued by the depot to the truck driver who in<br>turn, is to return the receipt to the Supervisor Project Manager<br>AS1 supervisor,<br>truck drivers.   |
| Taking samples for<br>Classification testing | Trench collapse  | 1     | Supervisor to ensure excavation is benched or shored as required, and if<br>depth is greater than 1.5m. Personnel are not to enter an excavation<br>greater than 1.5m deep, without benching or shoring, in material other than<br>rock.SupervisorOperator to ensure that no load is placed within the zone of influence of an<br>unshored excavation.Operator<br>Operator to ensure that no load is placed closer to than a metre to an<br>appropriately shored excavation.Operator                                   |
|  | Falls into trench  | 1     | Supervisor to organise the barricading of open trenches when no work is<br>taking place in the immediate area. Appropriate barriers and signs shall be<br>erected to warn of hazards and to direct vehicles/persons away from the<br>work area.Supervisor to ensure that ladders extending 1m or higher than the top of<br>the trench are provided and maintained at 20m intervals.Supervisor  |
|  | Soil contaminants – gases,<br>dusts, chemicals & biological<br>substances  | 1     | Works to be supervised by AS1 Contractor. AS1 Supervisor to ensure dust<br>suppression measures such as hoses, sprinklers are used.<br>Nearby personnel to wear dust masks / respirators, gloves, disposable<br>overalls as required.AS1 SupervisorAir monitors to be set up to detect asbestos fibres as identified in air<br>monitoring plan daily.<br>If odours are encountered during excavation then the excavation is to be<br>monitored by Environmental Engineer using PID monitor to detectAS1 Supervisor<br> |
|  | Contaminated groundwater   | 2     | Informored by Environmental Engineer using PID monitor to detect       Engineer         hydrocarbons.       Supervisor         Pump groundwater to detention basin for testing.       Supervisor   |

| <b>Billbergia</b><br>creating communities |   |   |  | EMENT  | Company: Billbergia Group<br>Activity Description: Excavation and laying of stormwater and<br>utility services   |  |  |
|---|---|---|--|--|--|--|--|
| Backfilling Excavati                      | ion   | Soil contaminants – gases,<br>dusts, chemicals & biological<br>substances |  | suppression<br>Nearby perso<br>overalls as re<br>Air monitors<br>monitoring pl | to be set up to detect asbestos fibres as identified in air an daily.  | AS1 Supervisor<br>AS1 Supervisor                                   |  |
|   | Trench collapse   |   | 1 Supervisor<br>depth is gro<br>greater tha<br>rock.<br>Operator to<br>unshored e<br>Operator to |  | rial to be clean imported material.<br>b ensure excavation is benched or shored as required, and if<br>iter than 1.5m. Personnel are not to enter an excavation<br>1.5m deep, without benching or shoring, in material other than<br>ensure that no load is placed within the zone of influence of an<br>cavation.<br>ensure that no load is placed closer to than a metre to an<br>a shored excavation. | Supervisor<br>Supervisor<br>Operator<br>Operator                   |  |
|   |   | Falls into trench   | 1  | taking place<br>erected to wa<br>work area.<br>Supervisor to                   | o organise the barricading of open trenches when no work is<br>in the immediate area. Appropriate barriers and signs shall be<br>arn of hazards and to direct vehicles/persons away from the<br>o ensure that ladders extending 1m or higher than the top of<br>e provided and maintained at 20m intervals.  | Supervisor<br>Supervisor   |  |
|   | Crushing Hazards<br>Load and Haul backfill material<br>Uneven or soft ground (Truck<br>overturning)<br>Overhead hazards |   | 2  |  | oped boots to be worn at all times<br>I to be instructed in the correct use of hand operated<br>plant.   | All personnel<br>All personnel                                     |  |
|   |   |   | 2<br>1<br>1  | Check that tip<br>Driver to obs  | lescribes in Load truck and Haulage above<br>p area is on even and solid ground before tipping load<br>erve safe distances from overhead electrical wires as stated<br>ce plate when tipping. Spotter to guide truck driver. If safe   | Supervisor<br>Driver , spotter<br>Driver / Supervisor<br>/ spotter |  |

| Billbergia<br>creating communities          | SAFE WORK METHOD   | STATEM   | ENT Company: Billbergia Group<br>Activity Description: Excavation and laying of stormwater and<br>utility services   |
|---|--|--|--|
|   | Plant rollover<br>Persons struck by movement of<br>Plant (Swing Area)  | arra<br>1 Fill<br>1 Edg<br>3 Swi<br>all p<br>No<br>any<br>10 p<br>the                  | tance cannot be maintained the wires shall be covered or isolation<br>anged with the relevant electrical utility.<br>/ pavement materials to be spread by grader /loader in uniform layers.<br>ges of batters are to be even prior to use of roller.<br>/ ing area to be determined prior to the operation of the Plant commencing,<br>persons to be informed of the swing area.<br>person to stand behind the Plant and in the blind spot of the operator at<br>/ time.<br>metre demarcation zone to be implemented in front of and to the sides of<br>Plant.<br>destrian traffic to utilise high visibility vests at all times.  |
| Delivery of backfill and materials to site. | Unsafe plant<br>Hazardous site access<br>Member of the General Public<br>injured during delivery of fill and<br>pavement materials | 2 trav<br>App<br>2 tick<br>as t<br>1 Spo<br>not<br>Play<br>fend<br>Spo<br>to p<br>truc | sure that trucks are in good working order and have load covers if<br>velling on public roads.<br>ange for traffic control plan to be drawn up and implemented if required.<br>propriate barriers and signs shall be erected to warn of hazards. Only<br>seted traffic controllers wearing high visibility clothing are to direct traffic<br>trucks enter and exit site if required.<br>otter to direct driver during delivery of fill / pavement materials. Deliveries<br>to enter site until pedestrian footpath is clear of pedestrians.<br>Incement of fill /pavement material only to occur within confines of temporary<br>ced area and clear of pedestrian traffic.<br>otter to be utilised to reverse truck and dog to the unloading point. Spotter<br>position himself and remain in a position where by he remains visible to the<br>ck driver at all times.<br>otter never to be placed in a position where his is between a reversing<br>nicle and any static object, inclusive of the parked Plant. |
| Tip backfill materials                      | Uneven or soft ground (Truck overturning)  |  | eck that tip area is on even and solid ground before tipping load Driver , spotter   |

| <b>Billbergia</b><br>creating communities            | AFE WORK METHOD  | STATE | EMENT Company: Billbergia Group<br>Activity Description: Excavation and laying or<br>utility services  | Activity Description: Excavation and laying of stormwater and |  |  |
|--|--|-------|--|---|--|--|
|  | Overhead hazards   | 1     | Driver to observe safe distances from overhead electrical wires as stated<br>on compliance plate when tipping. Spotter to guide truck driver. If safe<br>distance cannot be maintained the wires shall be covered or isolation<br>arranged with the relevant electrical utility.           | Driver / Supervisor<br>/ spotter                              |  |  |
|  | Spoil dropped on public roads/<br>asbestos fibres tracked onto<br>road | 3     | Ensure truck tyres are washed and loads secured before truck leaves site.<br>Ticketed traffic controllers wearing high visibility clothing must be in<br>position if public roads need cleaning by workers on foot. P3 respirator &<br>disposable overalls to be worn during washing down. | AS1 Supervisor /<br>driver                                    |  |  |
| Place and compact<br>trench backfill<br>and pavement | Plant rollover   | 1     | Fill / pavement materials to be spread by grader /loader in uniform layers.<br>Edges of batters are to be even prior to use of roller.   | Operator /<br>Supervisor<br>Operator,                         |  |  |
| Materials  | Persons struck by movement of<br>Plant (Swing Area)                    | 1     | Swing area to be determined prior to the operation of the Plant commencing,<br>all persons to be informed of the swing area.<br>No person to stand behind the Plant and in the blind spot of the operator at<br>any time.  | Supervisor and All  |  |  |
|  |  |       | 10 metre demarcation zone to be implemented in front of and to the sides of<br>the Plant.<br>Pedestrian traffic to utilise high visibility vests at all times.   |   |  |  |
| Work on public roads                                 | Road traffic   | 1     | Project manager to arrange for traffic control plan to be drawn up and implemented if required.  | Project manager   |  |  |
|  | Inadequate Training  | 1     | Supervisor to ensure that all personnel working on public roads have<br>undergone traffic control training.<br>Only ticketed traffic controllers wearing high visibility clothing are to direct<br>traffic.  | Supervisor  |  |  |
|  | Lack of visibility   | 1     | All personnel must wear high visibility vests/clothing.  | All personnel   |  |  |
|  | Vandalism/Theft  | 2     | Supervisor to check all signage, barriers, lights and other safety equipment on a daily basis and fix or replace if necessary.   | Supervisor  |  |  |

| <b>Billbergia</b><br>creating communities |        |                  | Company: Billbergia Group<br>Activity Description: Excavation and laying of stormwater an<br>utility services |  |  |                 |  |
|---|--------|------------------|---|--|--|-----------------|--|
| Work in confined spaces                   | Lac    | k of awareness   | 1   | Supervisor to ensure entry is by Confined Spaces trained personnel only and confined spaces procedures are followed.                             |  | Supervisor      |  |
|   | Gas    | ses from sewer   | 1   | Always verify that confined space procedures are followed, particularly the checking of the atmosphere inside the conduit with a gas meter.      |  | Supervisor      |  |
|   |        |                  |   | Rescue equi  | equipment to be set-up at connection point with First Aid Kit Supervisor                   |                 |  |
|   |        |                  |   |  | personnel with First Aid certificate to be on site at all times<br>anel are in the conduit | Supervisor      |  |
|   | Fun    | nes and foul air | 1   | Supervisor to ensure additional ventilation is provided if required.   |  | Supervisor      |  |
| Improvement to SW                         | MS Not | e                | 2   | 2 If SWMS is deemed to be unsuitable or unsafe, works regarding that activity Pr<br>will cease until the new strategy for control is implemented |  | Project Manager |  |
|   |        |                  |   | The SWMS v   | will be updated and reissued as necessary  | Project Manager |  |
|   |        |                  |   |  |  |                 |  |

| Ø                                  |                            | Company: Billbergia Group                                     |
|------------------------------------|----------------------------|---|
| Billbergia<br>creating communities | SAFE WORK METHOD STATEMENT | Activity Description: Excavation and laying of stormwater and |
|                                    |                            | utility services  |

| Handwrite site specific I | Handwrite site specific hazards and controls in space below if required |  |  |  |  |
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### SAFE WORK METHOD STATEMENT

Company: Billbergia Group

Activity Description: Excavation and laying of stormwater and

### utility services

| Personal Qualifications and Experience | Personnel, Duties and Responsibilities:  | Training needed to Carry-out Activity   |
|--|--|---|
| All Personnel                          |  | Consultation will be carried out via tool box meetings when<br>needed, with all personnel that will be involved or affected by<br>works relating to this SWMS.          |
| Project Manager                        | <ul> <li>Conduct risk assessment.</li> <li>Prepare site safety plan and SWMS.</li> <li>Oversee implementation of site safety plan &amp; SWMS.</li> <li>Ensure personnel have required training.</li> <li>Explain Safe Work Method Statement to Supervisor.</li> <li>Maintain project records.</li> </ul> | Workcover Construction Induction Certificate (White Card)<br>Site Specific Safety Induction<br>SWMS Induction   |
| Supervisor                             | <ul> <li>Conduct site specific safety induction.</li> <li>Carry out site specific risk assessment<br/>and amend this SWMS accordingly.</li> <li>Conduct SWMS induction Oversee site<br/>personnel.</li> <li>Implement site safety plan and ensure<br/>compliance with SWMS.</li> </ul>                   | Workcover Construction Induction Certificate (White Card)<br>Site Specific Safety Induction<br>SWMS Induction<br>Confined Spaces Training                               |
| Machine Operator                       | <ul> <li>Work in accordance with SWMS and<br/>supervisor's directions.</li> </ul>  | Workcover Construction Induction Certificate (White Card)<br>Site Specific Safety Induction<br>SWMS Induction<br>National Certificate of competency for plant operation |
| Pipe Layer                             | <ul> <li>Work in accordance with SWMS and<br/>supervisor's directions.</li> </ul>  | Workcover Construction Induction Certificate (White Card)<br>Site Specific Safety Induction<br>SWMS Induction<br>National Certificate of competency for plant operation |

| <b>Billbergia</b><br>creating communities | SAFE WORK MI             | ETHOD STATEMENT  | Company: Billbergia Group<br>Activity Description: Excavation and laying of stormwater and<br>utility services |   |  |
|---|--------------------------|--|--|---|--|
| Labourers                                 |                          | <ul> <li>Work in accordance with s<br/>supervisor's directions.</li> </ul>   | SWMS and   | Workcover Construction Induction Certificate (White Card)<br>Site Specific Safety Induction<br>SWMS Induction   |  |
| Personal Qualif<br>AS1 Contractor         | fications and Experience | <ul> <li>Personnel, Duties and Response</li> <li>Conduct risk assessment.</li> <li>Prepare site SWMS.</li> <li>Oversee implementation of plan &amp; SWMS.</li> <li>Ensure personnel have restraining.</li> <li>Explain Safe Work Method Supervisor.</li> <li>Set up air monitors</li> <li>Maintain project records.</li> </ul> | of site safety<br>quired   | Training needed to Carry-out Activity<br>Workcover Construction Induction Certificate (White Card)<br>Site Specific Safety Induction<br>SWMS Induction<br>AS1 Licence |  |
| AS1 Supervisor                            |                          | <ul> <li>Conduct site specific safe</li> <li>Carry out site specific risk<br/>and amend this SWMS ac</li> <li>Conduct SWMS induction<br/>personnel.</li> <li>Implement site safety plan<br/>compliance with SWMS.</li> </ul>   | assessment<br>cordingly.<br>Oversee site   | Workcover Construction Induction Certificate (White Card)<br>Site Specific Safety Induction<br>SWMS Induction<br>AS 1 Licence<br>First Aid Certificate.               |  |
| AS1 Labourers                             |                          | <ul> <li>Work in accordance with S supervisor's directions.</li> <li>Cleaning and decontamina tools employed in the asbe process</li> </ul>  | ation of all   | Workcover Construction Induction Certificate (White Card)<br>Site Specific Safety Induction<br>SWMS Induction<br>AS 1 Licence   |  |

| Billbergia<br>creating communities                 | ETHOD STATEMENT  | Company: Billbergia Group<br>Activity Description: Excavation and laying of stormwater and<br>utility services |   |  |
|--|--|--|---|--|
| Concrete Sawcutting Contractor                     | <ul> <li>Work in accordance with own SWMS<br/>and supervisor's directions.</li> </ul>  |  | Workcover Construction Induction Certificate (White Card)<br>Site Specific Safety Induction<br>SWMS Induction<br>Training in operation of road saw  |  |
| Environmental Engineer / Occupational<br>Hygienist | <ul> <li>Conduct risk assessment.</li> <li>Prepare air monitoring Program</li> <li>Prepare site SWMS for validation<br/>testing.</li> <li>Conduct site specific induction of SWP.</li> <li>Monitor and test for contaminants</li> <li>Maintain project records.</li> </ul> |  | Training in operation of road saw<br>Degree in Environmental Engineering<br>Workcover Construction Induction Certificate (White Card)<br>Site Specific Safety Induction<br>SWMS Induction |  |
|  |  |  |   |  |

| Engineering Details / Certificates / WorkCover Approvals     | Codes of Practice / Australian Standards /<br>Legislation   |
|--|---|
| Supplier's Instructions<br>Sydney Water Site Management Plan | OHS Act 2000 No 40<br>OHS Regulations 2001<br>Code of Practice Amenities for construction work<br>Code of Practice: Excavation work<br>Codes of Practice – Moving Plant on construction Sites<br>NOHSC Documentation /Standards 1003, 2002 and<br>3008<br>WorkCover Authority NSW Publications Your Guide to<br>Working With Asbestos 2008 & Guidelines for Licensed<br>Asbestos Removal Contractors. |

| Billbergia<br>creating communities  | SAFE WORK METHOD STATEMENT | Company: Billbergia Group<br>Activity Description: Excavation and laying of stormwater an<br>utility services |   |  |
|---|----------------------------|---|---|--|
|   | Standard Drawings          |   |   |  |
|   | Plant / Equipment needed   |   | Maintenance logbooks and daily checklists up to date: |  |
| Excavator, backhoe, loader, roller, grader, water cart, bobcat, quick-cut saw, grinder, generator, hand operated compactors, spanners, hand tools, gas monitoring equipment, air monitoring equipment, PID monitor. |                            | at anti-  |   |  |

| Ø                                  |                            | Company: Billbergia Group                                     |
|------------------------------------|----------------------------|---|
| Billbergia<br>creating communities | SAFE WORK METHOD STATEMENT | Activity Description: Excavation and laying of stormwater and |
|                                    |                            | utility services  |

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| Ø                                  |                            | Company: Billbergia Group                                     |
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| Billbergia<br>creating communities | SAFE WORK METHOD STATEMENT | Activity Description: Excavation and laying of stormwater and |
|                                    |                            | utility services  |

| NAME | POSITION | SIGNATURE | DATE | EMPLOYER |
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## **ATTACHMENT 2**

TO THE

## SITE WORK PLAN

Project No. 3263

# SITE PLAN



## **ATTACHMENT 3**

### TO THE

## SITE WORK PLAN

Project No. 3263

# SEDIMENT & EROSION CONTROL PLAN

