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CONSTRUCTION WASTE MANAGEMENT PLAN

PROJECT:

[INSERT PROJECT NAME]

PROJECT LOCATION:

[INSERT PROJECT LOCATION]

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1 PURPOSE

1.1 GENERAL

This Construction Waste Management Plan (CWMP) details how A. Gabrielli Constructions will address waste management issues and requirements, as Principal Contractor, for this project – [CHECK - INSERT PROJECT NAME].

This CNWP identifies environmental risks that may be encountered on the project and control measures that are to be implemented in order to minimise and / or eliminate the risks.

This plan meets the requirements of:

- A. Gabrielli Constructions' Policies and Procedures
- Environmental Protection / Management Legislation
- ISO 14001 Environmental Management System

This CWMP, and supporting appendices, are to be made available to all employees and persons involved in the project.

1.2 PLAN APPROVAL

[CHECK – PROJECT PERSONNEL TITLES – MAY NEED TO BE UPDATED TO REFLECT ORGANISATION / PROJECT SPECIFIC REQUIREMENTS]

	NAME	POSITION	SIGNATURE	DATE
Plan Prepared by:		Project Manager		
Plan Reviewed by:		Environmental Advisor		
Plan Implemented by:		Site Manager		
Plan Approved by:		Managing Director / General Manager		

DATE OF PLAN

VERSION NO.

1.3 PLAN DISTRIBUTION

PERSON	ROLE	LOCATION

1.4 REVISION SCHEDULE

DATE	SECTION AMENDED	AUTHORISED BY	AMENDED BY
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1.5 PROJECT DESCRIPTION AND SCOPE

This CWMP applies to the construction phase of [CHECK - INSERT PROJECT NAME], which is described briefly as follows:

[CHECK - INSERT BRIEF OVERVIEW]

2 ENVIRONMENTAL POLICY

[CHECK - INSERT ENVIRONMENTAL POLICY]

3 PROJECT MANAGEMENT PLAN

The CWMP is a sub plan and is to be read in conjunction with A. Gabrielli Constructions' Environmental Management Manual, Construction Environmental Management Plan and Construction Health and Safety Plan.

The overall format and content of these plans has been structured to fully meet the requirements of AS/NZS ISO 14001:2004 Environmental Management Systems.

This CWMP has been developed in accordance with relevant Environmental legislation as detailed under the project specific Construction Environmental Management Plan, under subheading 'Legal and Other Requirements'.

Further this plan has been prepared to address where applicable the requirements of Conditions of Approval, Environmental Assessments and client specific requirements.

3.1 OBJECTIVES

[CHECK – ADD ANY ADDITIONAL SITE SPECIFIC REQUIREMENTS / DELETE REQUIREMENTS NOT RELEVANT]

The objective of this CWMP is to outline the predicted effects associated with waste created by the construction activities undertaken by A. Gabrielli Constructions on [CHECK - INSERT PROJECT NAME].

This plan will identify the type and quantities of waste that would be generated on the project. This plan outlines strategies and controls to be implemented during the construction phase of the project that will enable the waste products to be handled, stored, re-used, recycled, and if necessary, appropriately treated.

3.2 PROJECT SPECIFIC APPLICABLE LEGAL AND OTHER REQUIREMENTS

Refer to the site specific Construction Environmental Management Plan developed for this project. Subheading 'Legal and Other Requirements' within this plan outlines the relevant legislation applicable to this project.

3.3 PROJECT SPECIFIC CONDITIONS / RESTRICTIONS

[CHECK – ADD ANY ADDITIONAL SITE SPECIFIC REQUIREMENTS]

3.4 PROJECT SPECIFIC LICENSES AND PERMITS

All relevant licenses and permits relating to Environmental considerations are detailed in the project specific Construction Environmental Management Plan.

4 WASTE MANAGEMENT

A summary of the mitigation and management measures detailed below are summarised and included in the project specific Construction Environmental Management Plan, under subheading 'Environmental Control Plans'.

4.1 WASTE MANAGEMENT TARGETS

[CHECK – ADD ANY ADDITIONAL SITE SPECIFIC REQUIREMENTS / DELETE REQUIREMENTS NOT RELEVANT]

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The following performance criteria have been established for the project, with regard to waste:

- Waste products reused on site where possible
- Separation for recycling of 100% of recyclable materials such as steel, aluminium, paper and plastics from the site office areas
- Capture and recycling of 75% scrap steel from demolition and construction activities
- All residual waste products are sent to appropriately licensed destinations for either recycling, reuse, treatment or disposal
- No contamination incident occurring as a result of waste storage, transport or disposal
- No rejection of loads by the receiving facility for non-compliant wastes
- Regulated wastes stored, transported, tracked and disposed of as per regulated waste legislation
- No construction waste/litter to enter into stormwater system and or adjacent water courses (where applicable).

4.2 WASTE MINIMISATION STRATEGY

Environmental legislation, identified in the Construction Environmental Management Plan, govern the issues of waste generation, reuse, recycling, transport and disposal and establish a waste minimisation hierarchy (Refer Figure 4.2) that prioritises waste solutions, according to how successfully they conserve natural resources.

The first priority is given to reducing the overall amount of waste, followed by the reuse and then recycling of any wastes that are unavoidably created, with disposal as a last resort. The aim is to extract the maximum practical benefits from the products and to manage waste in the best possible way.

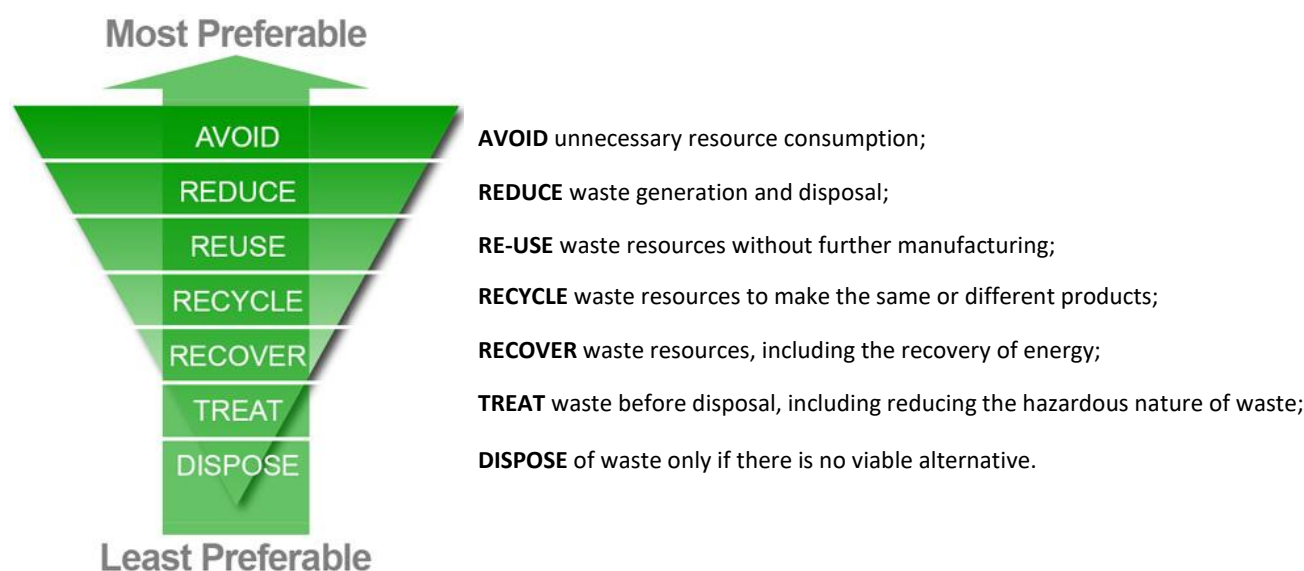


Figure 4.1 Waste Minimisation Hierarchy

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4.3 WASTE SOURCES (ENVIRONMENTAL ASPECTS)

The environmental aspects are those operations that may result in an environmental impact. Numerous waste sources' would be produced during the construction of the project with these summarised in the table below and includes potential reuse options for each. Where waste is identified for the project, it is to be updated to the Waste Management Register.

[CHECK – ADD ANY ADDITIONAL SITE SPECIFIC REQUIREMENTS / DELETE REQUIREMENTS NOT RELEVANT]

4.3.1 PROPOSED WASTE REUSE, RECYCLING AND DISPOSAL ARRANGEMENTS

KEY WASTE STREAM	SEGREGATION AREAS / CONTAINERS	REUSE/RECYCLING / DISPOSAL METHOD	WASTE TYPE	SUGGESTED RECEIVING FACILITY
WASTE SEPARATION ON SITE				
Topsoil – Weed-free and suitable for reuse on site or off site	Stockpile areas	Where possible, reserve land for topsoil stockpiling for duration of Project for use in landscaping.	Inert (Unreactive)	On-site
Spoil from excavations - suitable for reuse on site or off site (based on engineering suitability)	Stockpile areas	Beneficial reuse on site	Based on Contamination Investigation report findings	On-site
Other spoil from earthworks	Trucks	Used on site for landscaping/earth-bunding	Based on contamination assessment findings	On-site
Contaminated Soils	Trucks	Offsite disposal at approved facility	Based on contamination assessment findings	[CHECK - INSERT NAME OF COMPANY]
Paper /cardboard / plastic	Suitably sized bins (minimise no. Of truck movements)	Off site recycling	Inert (Unreactive)	[CHECK - INSERT NAME OF COMPANY]
Glass / bottles / cans	Suitably sized bins (minimise no. Of truck movements)	Off site recycling	Inert (Unreactive)	[CHECK - INSERT NAME OF COMPANY]
Cleared vegetation / green waste	Compactors	Chip and reuse on site	Green Waste	On-site or [CHECK - INSERT NAME OF COMPANY]

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KEY WASTE STREAM	SEGREGATION AREAS / CONTAINERS	REUSE/RECYCLING / DISPOSAL METHOD	WASTE TYPE	SUGGESTED RECEIVING FACILITY
Timber (Formwork, Building)	Suitably sized bins (minimise no. of truck movements)	Reuse on site where possible / off site recycling	Inert (Unreactive)	[CHECK - INSERT NAME OF COMPANY]
Concrete Products	Suitably sized bins (minimise no. of truck movements) Maximise quantity recycled by return of excess to be the concrete plant	Crushed and reused as backfill or as road base for site access / used for site levelling or stabilisation / sent off site.	Inert (Unreactive)	[CHECK - INSERT NAME OF COMPANY]
Steel (reinforcement, structural)	Suitably sized bins (minimise no. of truck movements)	Offsite recycling	Inert (Unreactive)	[CHECK - INSERT NAME OF COMPANY]
Asphalt	Suitably sized bins (minimise no. of truck movements)	Reused for road base during construction or off site recycling	Inert (Unreactive)	[CHECK - INSERT NAME OF COMPANY]
Hydrocarbons (oils / grease)	Sealed drums / containers, bunded area	Offsite recycling	Non-aqueous liquid waste	[CHECK - INSERT NAME OF COMPANY]
Paint / solvents	Sealed drums / containers, bunded area	Offsite disposal at approved facility	Hazardous	[CHECK - INSERT NAME OF COMPANY]
General Solid Waste (putrescible)	Suitably sized bins (minimise no. of truck movements)	Offsite disposal at approved facility	Solid	[CHECK - INSERT NAME OF COMPANY]
Chemical Wastes	Suitably sized bins (minimise no. of truck movements) lined with heavy duty plastic and covered	Offsite recycling	Various depending on type of chemicals	[CHECK - INSERT NAME OF COMPANY]
Printer Cartridges / Toners	Suitably sized bins (minimise no. of truck movements)	Offsite recycling	Hazardous	[CHECK - INSERT NAME OF COMPANY]
Sanitary Wastes	N/A	Sewer is available / remove from site for licensed disposal prior to connecting to sewer	N/A	N/A

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4.4 WASTE CONTROL MEASURES AND PROCEDURES

The following environmental control measures and safeguards will be implemented in order to minimise waste generated during with construction of the project.

[CHECK – ADD ANY ADDITIONAL SITE SPECIFIC REQUIREMENTS / DELETE REQUIREMENTS NOT RELEVANT – WILL ALSO NEED TO UPDATE RESPONSIBILITY COLUMN WHERE ORGANISATION USES DIFFERENT TITLES FOR PROJECT PERSONNEL]

4.4.1 PROJECT SPECIFIC ENVIRONMENTAL CONTROL MEASURES AND SAFEGUARDS

NO	CONTROL MEASURE AND SAFEGUARD	PHASE			TIMING	LOCATION	RESPONSIBILITY
		DESIGN PLANNING	SITE PREPARATION	CONSTRUCTION			
WM1	Waste management and minimisation will form part of the induction program (which includes environmental due diligence training). All Project and site personnel will be trained in the requirements of this document including minimising wastes, recognising which types of materials are recyclable and their obligations to use recycling facilities provided on site.		✓	✓	Prior to starting on site / Ongoing		Site Manager / Environmental Representative
WM2	Specific locations for waste management (e.g. sorting area locations, recycling bin locations, material stockpile locations) will be established on site.		✓	✓	Ongoing		Site Manager
WM3	Waste management areas will be adequately managed to prevent sediment runoff and dust generation.		✓	✓	Ongoing		Site Manager
WM4	Packaging minimisation and reuse initiatives will be implemented as part of the procurement.	✓	✓	✓	Ongoing		Project Manager Site Manager Subcontractors

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NO	CONTROL MEASURE AND SAFEGUARD	PHASE			TIMING	LOCATION	RESPONSIBILITY
		DESIGN PLANNING	SITE PREPARATION	CONSTRUCTION			
WM5	Segregated waste disposal containers for the collection and recycling/disposal of all waste streams generated during the construction works will be provided onsite. Waste disposal containers will have clear signage and instructions for use to avoid cross-contamination. No rubbish shall be disposed of on site.		✓	✓	Ongoing		Site Manager
WM6	Waste will be disposed to an appropriate licensed facility i.e. Local Council Refuse. Non recyclable liquid and hazardous will be collected and disposed of by a licensed Waste Company.		✓	✓	At all times		Site Manager
WM7	All waste being transported off site must be covered. The transportation must be appropriately licensed to carry that material.		✓	✓	At all times		Site Manager
WM8	Recycled materials will be considered for use in concrete, road base, asphalt and other construction materials		✓	✓	Ongoing		Site Manager
WM9	Ensure that waste is not mixed with spoil. Spoil unsuitable for onsite will be used in landscaping where practical.		✓	✓	Ongoing		Site Manager
WM10	Toilets will be serviced regularly.		✓	✓	Ongoing		Site Manager
WM11	The site will be cleaned of any litter		✓	✓	Ongoing		Site Manager Subcontractors
WM12	Topsoil will be stockpiled and reused for landscaping		✓	✓	Ongoing		Site Manager Subcontractors

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NO	CONTROL MEASURE AND SAFEGUARD	PHASE			TIMING	LOCATION	RESPONSIBILITY
		DESIGN PLANNING	SITE PREPARATION	CONSTRUCTION			
WM13	Stored stockpiles will be protected from water and wind erosion by using appropriate erosion controls such as spreading with weed-free hydro seed or by covering with a geotextile fabric. This treatment will be used on any pile that will be in place for a period longer than 4 weeks.		✓	✓	Ongoing		Site Manager Subcontractors
WM14	Storage of all hazardous substances and dangerous goods will be in accordance with SDS requirements in a bunded area. Solid and hazardous wastes will be contained and separated from inert waste.		✓	✓	Ongoing		Site Manager Subcontractors
WM15	Any hazardous waste (e.g. asbestos) will be managed and handled by an appropriately licensed contractor and transported for disposal to a [CHECK - INSERT NAME OF RELEVANT OR LOCAL AUTHORITY IE. EPA] approved site.		✓	✓	Ongoing		Site Manager Subcontractors
WM16	Any material contaminated by spills i.e. fuel, oil, lubricants etc, including empty fuel, oil and chemical containers, will be stored in a sealed secure container within a bunded area and will be transported to a waste disposal site, able to accept such material.		✓	✓	Ongoing		Site Manager Subcontractors
WM17	Incompatible wastes will not be mixed.		✓	✓	Ongoing		Site Manager Subcontractors
WM18	Storage areas would be located away from waterways and the stormwater system.		✓	✓	Ongoing		Site Manager Subcontractors
WM19	Biodegradable products will be used wherever practicable.		✓	✓	Ongoing		Site Manager Subcontractors

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NO	CONTROL MEASURE AND SAFEGUARD	PHASE			TIMING	LOCATION	RESPONSIBILITY
		DESIGN PLANNING	SITE PREPARATION	CONSTRUCTION			
WM20	Regular collection of wastes will ensure air emissions are at a satisfactory level. Inappropriate waste and wastewater management systems will be regularly inspected and audited.		✓	✓	Ongoing		Site Manager Subcontractors
WM21	Designated concrete washout areas will be provided and used. Washout on site will be minimised where ever possible.		✓	✓	Ongoing		Site Manager
WM22	Responsible for ensuring this Plan is implemented by site staff. Undertake and assess data from inspections, monitoring and reporting and provide project-wide advice to ensure consistent approach and outcomes are achieved.		✓	✓	Ongoing		Project Manager Site Manager
WM23	Fit secure lids to bins for food waste to prevent scavenging from birds and animals		✓	✓	Ongoing		Site Manager Subcontractors
WM24	Conduct regular site inspections to ensure all aspects are effectively controlled on site.		✓	✓	Ongoing		Site Manager Subcontractors

5 COMPLAINT HANDLING

The goal for the project is to have zero complaints. In order to achieve this goal the potential waste impacts of each construction task and activity are to be assessed and control measure are to be implemented as outlined above to minimise impacts.

The implementation of communication and consultation framework also contributes to the goal of zero complaints through the engagement of affected stakeholders in accordance with A. Gabrielli Constructions' Communication and Consultation process.

A. Gabrielli Constructions further implements a project specific Communication and Consultation Matrix with environmental communication and consultation requirements identified in this matrix. This project specific Communication and Consultation Matrix is available as an Appendices to the project specific Construction Work Health and Safety Management Plan.

Where a complaint is recorded this will be managed in accordance with the procedure as detailed under project specific Construction Environmental Management Plan, subheading 'Complaints Management'.

6 INDUCTION, TRAINING AND COMPETENCY

Refer to the site specific Construction Environmental Management Plan developed for this project. Subheading 'Induction, Training and Competency' within this plan outlines the awareness and training provisions in place for this project.

Training will be provided to all project personnel, including relevant subcontractors, on waste management requirements from this plan through inductions, toolboxes and targeted training.

Elements to be addressed include:

- Existence and requirements of this sub-plan;
- Relevant legislation;
- General waste management measures; and
- Specific responsibilities for waste management.

7 MONITORING AND REVIEW

7.1 MONITORING

To ensure the effectiveness of mitigation and management measures put in place in response to the environmental risk assessment, a schedule of environmental inspections, audits and other requirements will be detailed in the project specific Monitoring and Review Matrix.

This project specific Monitoring and Review Matrix is available as an Appendices to the project specific Construction Work Health and Safety Management Plan.

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Where additional monitoring requirements are identified during the course of the project, these will be updated to this project specific Monitoring and Review Matrix and undertaken in accordance with the frequency and other considerations detailed in this matrix.

7.2 REVIEW

The CWMP is reviewed as part of the initial development of this plan. The plan will be reviewed in accordance with the frequency identified in the project specific Monitoring and Review Matrix.

This project specific Monitoring and Review Matrix is available as an Appendices to the project specific Construction Work Health and Safety Management Plan.

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