

CONSTRUCTION WASTE MANAGEMENT SUB PLAN (CWMSPP)

*CEMP APPENDIX 8 SUB PLAN*

# Kyeemagh Public School

Jacobson Avenue & Beehag Street,  
Kyeemagh NSW 2216





E-PLAN-01 (Rev. July 2020) | Approved by Andrew Andreou  
Uncontrolled copy once printed

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## 1. INTRODUCTION

### 1.1 PROJECT INFORMATION TABLE

PROJECT INFORMATION TABLE			
PROJECT NAME	Kyeemagh Public School		
LOCATION	Jacobson & Beehag Streets, Kyeemagh NSW 2216		
CLIENT	NSW Department of Education		
DURATION OF CONTRACT	80 Weeks		
TAYLOR CONTACT INFORMATION			
COMPANY NAME	Taylor Construction Group Pty Ltd		
ABN	25 067 428 344		
ADDRESS	Level 13, 157 Walker Street, North Sydney 2060		
TELEPHONE & FAX	Ph.: 02 8736 9000 Fax: 02 8736 9090		
POSITION	CONTACT NAME	PHONE NUMBERS	
CHIEF OPERATING OFFICER	Clive Wickham	02 8736 9000	
GENERAL MANAGER	Tim Christie	02 8736 9000	
CONSTRUCTION MANAGER	Ross Rooke	0438 398 895	
SR PROJECT MANAGER	Steve Ziazaris	0413 182 641	
SITE MANAGER	David Pereira	0415 241 170	
HSE MANAGER	Andrew Andreou	0404 492 614	
SAFETY ADVISOR	TBC	TBC	
QUALITY MANAGER	Stephen Player	02 8736 9000	
CONTRACT MANAGER	TBC	TBC	
CONTRACT ADMINISTRATOR	Scott Dobson	0414 984 567	
PROJECT COORDINATOR	Shanil Prasad	0432 870 855	
SITE ENGINEER	TBC	TBC	
FOREMAN/ LEADING HAND	TBC	TBC	
CADET	TBC	TBC	
DOCUMENT CONTROL	NAME & POSITION		SIGNATURE & DATE
PREPARED BY:	Shanil Prasad – Project Coordinator		 29.07.2020
REVIEWED BY:	Steve Ziazaris – Senior Project Manager		 29.07.2020
REVIEWED BY:			
REVIEWED BY:			
REVISED BY	REV. No.	DATE	CHANGES MADE
Shanil Prasad	Draft	17.07.20	Initial draft
Shanil Prasad	Final	29.07.20	Revised as per comments.

## 1.2 PURPOSE OF THE CONSTRUCTION WASTE MANAGEMENT SUB PLAN

Taylor Construction Group Pty Ltd has a documented Quality, Health, Safety and Environmental (QSE) Management System. The management systems are integrated, and this management plan forms part of the Construction Environmental Management Plan (CEMP) and should be read in conjunction with the CEMP.

One of the Environmental Factors Objectives identified in the CEMP is to:

*Ensure that wastes are contained and isolated from land, ground and surface water surrounds and treatment or collection does not result in long-term impacts on the natural environment.*

With a requirement to:

*Identify sources of solid and liquid waste and estimate the proposed amount generated. Propose measures to manage and/ or mitigate impacts.*

Further to this, the CEMP details the following Objective and Target relating to Waste Management:

Objectives	Targets
Increase amount of waste being recycled, reduce waste cost.	Eighty-five per cent (85%) of waste to be recycled.

This plan will provide further details regarding satisfying these items for this project.

## 1.3 DEVELOPMENT CONDITIONS CONSENT

Condition	Description	Page Number
B16 (a)	The Construction Waste Management Sub-Plan (CWMSP) must address, but not be limited to, the following: (a) detail the quantities of each waste type generated during construction and the proposed reuse, recycling and disposal locations; and	Section 2.3 Page 7
B16 (b)	The Construction Waste Management Sub-Plan (CWMSP) must address, but not be limited to, the following: (b) removal of hazardous materials, particularly the method of containment and control of emission of fibres to the air, and disposal at an approved waste disposal facility in accordance with the requirements of the relevant legislation, codes, standards and guidelines, prior to the commencement of construction.	Section 3 Appendix 1

## 2. GENERAL WASTE MANAGEMENT PLAN

### 2.1 INTRODUCTION

TCG and Subcontractors shall adopt the hierarchy of waste – avoid, reduce, recycle/reprocess and dispose to maximise resource recovery and minimise disposal wherever possible and practical. TCG is responsible for creating and managing the waste management education process, including correct separation of garbage and recycling items. The importance of appropriate waste management practices is to be included in the site induction.

The site will be provided with suitable bins and skips for appropriate collection and separation of waste and recyclables, and these are to be collected with appropriately qualified and licensed waste contractors.

When selecting and using waste recycling and disposal centres, the following factors will be considered:

- Quantity and type of material (including its re-use and recyclability)
- Cost to dispose material
- Geographical location of waste centre
- Legal issues such as if the waste centre is able to lawfully accept the waste material

Recycling and disposal of bulk waste materials will be by excavators, forklifts & cranes to load trucks and transport to the appropriate waste or recycling facility. Excavated materials would be removed off site each day, except where removal is impeded on that day. Stockpiling of materials would involve the provision of a bund and plastic covering over the stockpile, which is secured against wind.

Prior to disposal, wastes must be classified in accordance with the DECCW's Waste Classification Guidelines (April 2008) prior to transporting waste off site. Waste receipts must be kept for legal requirements and details of waste separated and disposed of is to be documented in the Waste and Recycling Register.

TCG will ensure that all waste service providers submit monthly reports on all equipment movements and weights of any waste and recycling products removed from the development.

#### References:

- SE-F-23 KPI Monthly Report Form
- E-F-03 Waste and Recycling Register

### 2.2 COMPANY WASTER PROFILE

TCG receives monthly waste statistics reports from its waste management contractor and is able to forecast waste generation estimates for other similar projects from this historical data. The table below summarises waste statistics from five current school works projects being undertaken by TCG in Sydney, having a project value between \$5-30m.

Project	Pendle Hill High School	Willoughby Girls High School	Greenwich Public School	Knox Grammar	Yagoona Public School	All Project Average
Status	Completed	Completed	Completed	Complete	Completed	
Waste Record Period (Mths)	12	11	12	7	6	
Total Waste Collected (T)	302.49	281.84	294.6	495.62	21.26	<b>279.16</b>
Total Waste Recycled (T)	298.54	278.12	291.84	486.59	20.54	<b>275.13</b>
Total Waste Recycled (%)	98.70%	98.68%	99.07%	98.18%	96.65%	<b>98.25%</b>

Project	Pendle Hill High School	Willoughby Girls High School	Greenwich Public School	Knox Grammar	Yagoona Public School	All Project Average
Total Waste Landfill (T)	3.94	3.71	2.75	9.0261	0.7162	<b>4.03</b>
Total Waste Landfill (%)	1.30%	1.32%	0.93%	1.82%	3.37%	<b>1.75%</b>
Project	Pendle Hill High School	Willoughby Girls High School	Greenwich Public School	Knox Grammar	Yagoona Public School	All Project Average
Vegetation waste	9.14%	6.78%	5.5%	0.11%	13.33%	<b>6.97%</b>
Concrete, Brick, Tiles	30.99%	36.91%	41.41%	20.87%	23.33%	<b>30.70%</b>
Fill/VENM	9.76%	0.92%	3.76%	0.00%	0.00%	<b>2.89%</b>
Asphalt	2.17%	1.37%	1.69%	0.00%	0.00%	<b>1.05%</b>
Timber	18.03%	19.13%	19.40%	37.22%	20.00%	<b>22.76%</b>
Glass	0.00%	0.00%	0.00%	0.00%	0.00%	<b>0.00%</b>
Paper & Cupboard	5.95%	10.79%	1.70%	15.32%	23.33%	<b>13.22%</b>
Plastic	3.7%	2.39%	2.49%	0.00%	0.00%	<b>1.72%</b>
Plasterboard	11.03%	6.36%	4.28%	15.23%	0.00%	<b>7.38%</b>
Steel / Iron	6.51%	11.24%	8.93%	7.82%	13.33%	<b>9.57%</b>
Non -Ferrous Metal	0.73%	0.00%	0.00%	0.00%	0.00%	<b>0.15%</b>
Food – Organics	0.07%	0.15%	0.18%	0.00%	0.00%	<b>0.08%</b>
Other	0.29%	0.33%	0.27%	0.00%	0.00%	<b>.018%</b>
Other-Mixed	1.63%	3.63%	1.38%	3.44%	6.67%	<b>3.35%</b>

This data indicates that the Kyeemagh Public School project could generate a greater than 85% recyclable waste by volume of total construction waste generated, and less than 15% landfill waste. This estimated amount of recyclable waste is above TCG's corporate target of 85%.

## 2.3 ESTIMATED PROJECT WASTE SCHEDULE

The following schedule provides a breakdown of the expected waste for the project based on a comparable project with actual waste records.

Project	Comparable Project Pendle Hill High School (%)	Comparable Project Pendle Hill High School (T)	Recycle or Disposal Destination & EPA Licence	Recycle or Disposal Address
Total Waste Recycled (%)	98.70%	298.55		
Total Waste Landfill (%)	1.30%	3.94		
Vegetation Waste	9.14%	27.64	Cleanaway 20937	35-37 Frank St, Wetherill Park
Concrete, Brick, Tiles	30.99%	93.75	Boral 11815	38a Wildermere Rd, Wetherill Park
Fill/VENM	9.76%	29.51	Cleanaway 20937	35-37 Frank St, Wetherill Park
Asphalt	2.17%	6.58	Boral 11815	38a Wildermere Rd, Wetherill Park
Timber	18.03%	54.55	Cleanaway 20937	35-37 Frank St, Wetherill Park
Glass	0.00%	0	Dump It Centre	13 Long Street, Smithfield NSW 2164
Paper & Cupboard	5.95%	18	Grima 20648	88 Redfern St, Wetherill Park
Plastic	3.70%	11.19	Grima 20648	88 Redfern St, Wetherill Park
Plasterboard	11.03%	33.35	Grima 20648	88 Redfern St, Wetherill Park
Steel / Iron	6.51%	19.69	Sell & Parker 11556	45 Tattersall Rd, Kings Park
Non-Ferrous Metal	0.73%	2.20	Sell & Parker 11556	45 Tattersall Rd, Kings Park
Food - Organics	0.07%	0.21	Dump It Centre	13 Long Street, Smithfield NSW 2164
Other	0.29%	0.87	Dump It Centre	13 Long Street, Smithfield NSW 2164
Other - Mixed	1.63%	4.94	Dump It Centre	13 Long Street, Smithfield NSW 2164

## 2.4 WASTE & RECYCLING REGISTER

This below register was used to collate the information above. Taylor have ceased using dump it. Bing industries are now the preferred supplier for bins.

 					
Client	Taylor Construction Group				
Site	2908 - Pendle Hill				
Site Address	Pendle Way				
Month - Start	3/03/20	Finish	31/03/20		
Construction & Demolition Waste Material	Total Waste Generated (Tonnes)	Total Recycled (Tonnes)	Destination	Total To Landfill (Tonnes)	Destination
Vegetation Waste	0.05	0.05	Cleanaway 29937	0.00	
Concrete, Bricks, Tiles	15.01	15.01	Boral 11015	0.00	
FILL/ENRM	13.55	13.55	Cleanaway 29937	0.00	
Asphalt	0.00	0.00	Boral 11015	0.00	
Timber	1.56	1.56	Cleanaway 29937	0.00	
Glass	0.00	0.00	Cleanaway 29937	0.00	
Paper & Cardboard	0.41	0.41	Voy 4106	0.00	
Plastic	0.69	0.69	Cleanaway 29937	0.00	
Plasterboard	2.38	2.38	Cleanaway 29937	0.00	
Steel / Iron	0.94	0.94	Sell & Parker 11555	0.00	
Non-ferrous metal	0.00	0.00	Sell & Parker 11555	0.00	
Food - Organics	0.00	0.00	Suez - 5065	0.00	Suez - 5065
Other - mixed	0.38	0.00	Suez - 12889	0.38	Suez - 12889
TOTALS	34.97	34.59		0.38	
Percentage	100.00%	98.91%		1.09%	
Office/Crib Waste Material	Total Waste Generated (Tonnes)	Total Recycled (Tonnes)	Total To Landfill (Tonnes)		
General Waste	0.00	0.00	0.00		
Paper & Cardboard	0.00	0.00	0.00		
Commingled	0.00	0.00	0.00		
Plastic	0.00	0.00	0.00		
Dry Waste	0.00	0.00	0.00		
Organics	0.00	0.00	0.00		
TOTALS	0.00	0.00	0.00		
Destination & EPA licence No.	Site Address		Waste Stream		
Boral Recycling Pty Ltd (Wetherill Park) - 11015	35a Wetherill Rd, Wetherill Park		Concrete, Brick, Tiles		
Cleanaway ResourceCo PPF Pty Ltd - 29937	15-27 Frank St, Wetherill Park		Vegetation, FILL/ENRM / Timber / Plastics		
Suez Resources and Recovery Centre Australia - 5065	Oral Hill Link Olympic Park		Organics / Landfill		
Fortfield City Council - Sustainable Resource Centre - 5715	Cnr Macquarie St & Wetherill Rd, Wetherill Park		Concrete		
Voy Paper Pty Ltd - 4300	6 Herbert Place, Smithfield		Cardboard, Paper		
Sell and Parker Pty Ltd - 11555	45 Tattersall Rd, Kings Park		Metals		
Suez Recycling & Recovery Pty Ltd - 12889	725 Elizabeth Dr, Kemps Creek		Hazardous/Robust Waste		

The below register will be utilised through the project in order to track the waste produced on the project and provide a progressive benchmark score in order to track against overall goal of 85% recycled waste.



Monthly Waste Report  
Ironmark/Taylor Construction Group  
Site: Sydney Opera House, SYDNEY

Waste Type (tonnes)	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	Totals
Recyclable Bricks/ Tiles	0.000	2.400	1.512											3.912
Recyclable Concrete	1.380	1.500	0.945											3.825
Recyclable Soil / Sand / Rubble Fines	1.288	1.400	0.882											3.570
Recyclable Metals (ferrous)	2.300	5.000	3.150											10.450
Recyclable Metals (non-ferrous)	0.000	0.750	0.945											1.695
Recyclable Timber	3.450	5.700	2.835											11.985
Recyclable Green Waste	0.000	0.300	0.945											1.245
Recyclable Cardboard / Paper	0.782	2.200	1.260											4.242
Recyclable Plastic	0.874	2.100	0.945											3.919
Recyclable Plasterboard	0.460	0.000	0.630											1.090
General Waste (landfill)	0.920	2.000	1.260											4.180
Total Recycled Waste (tonnes)	10.534	21.350	14.049	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	45.933
Total Landfill Waste (tonnes)	0.920	2.000	1.260	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	4.180
Total Waste (tonnes)	11.454	23.350	15.309	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	50.113
Total Waste (cubic metres)	46	100	63											209.000
Total Recycled Waste (percentage) By Month	91.97%	91.43%	91.77%	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Total Recycled Waste (percentage) To Date														91.66%



(Refer to appendix 2)

[illegible]

### 3. APPENDIX 1 WASTE MANAGEMENT PLAN:

## 4. APPENDIX 2 RECYCLING RESULTS:

**Taylor Construction Group Pty Ltd**

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**TAYLOR**