Waste From Operations

## CREDIT 22

## INDIVIDUAL BUILDING PORTFOLIO

## PROJECT NAME: [NAME]

## PROJECT NUMBER: GS- [####]

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| --- | --- | --- | --- |
| TOTAL POINTS AVAILABLE: | 4 | POINTS CLAIMED: | [#] |

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| --- | --- | --- | --- | --- |
| **No.** | **Type** | **Criteria** | **Description** | **Claimed** |
| **22.1** | **Policy** | **Operational Waste Management Plan** | **1 point** is available where an Operational Waste Management Plan that specifically addresses the treatment of waste from operations is in place during the performance period. | [#] |
| **22.2** | **Data** | **Waste to Landfill Reduction** | Up to **3 points** are available, based on the amount of operational waste that is diverted from landfill during the performance period. | [#] |

# Project-specific technical questions

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| There are no project-specific technical questions for this credit. |  |
| There are project-specific technical questions for this credit and all responses received from the GBCA are attached. |  |

22.1 Operational Waste Management Plan

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| Indicate which compliance option has been selected for the Operational Waste Management Plan and fill in the corresponding section below. Select one option. | **22.1A** Operational Waste Management Plan has been completed; or |  |
| **22.1B** BBP Waste from Operations Guidelines has been used. |  |

22.1A Operational Waste Management Plan

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| The project achieved one (1) point at the Initial Certification, and **no changes** have been made to the building during the performance period that would have an impact on the scope and content of the OWMP.  ***Complete section 22.1A.4 only.*** |  |
| The project achieved one (1) point in the previous Certification and **changes have been made** to the building during the performance period that would have an impact on the scope and content of the OWMP; or a new OWMP was implemented during the performance period.  ***Complete sections 22.1A.1 to 22.1A.3.*** |  |
| One (1) point was not awarded / targeted in the previous Certification, or a new OWMP was implemented during the performance period.  ***Complete sections******22.1A.1 to 22.1A.3.*** |  |

Describe the Operational Waste Management Plan that specifically addresses the treatment of waste disposal and recycling from building operations, which has been in place during the performance period.

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| **22.1A.1** The OWMP is applicable to the site seeking Green Star certification. | | [Y/N] |
| Indicate the approach to an OWMP that has been adopted for this project: | A standalone plan; |  |
| A set of operational systems; |  |
| Comprehensive Environmental Management System; or |  |
| Other. |  |

If ‘other’ please describe the approach adopted:

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| **22.1A.2** Provide details of the scope of the OWMP and show how this covers all areas of operation under the building owner or building operators control. |
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| **Requirements** | **Supporting Evidence** |
| **22.1A.3** Provide details and describe the content of the OWMP clearly identifying and describing at least the following: | |
| a. The objectives of the plan; |  |
| b. The areas to which the OWMP applies; |  |
| c. The waste streams relevant to the building; |  |
| d. Identify at least one other waste stream that was recycled during the performance period, and for which recycling facilities are provided; |  |
| e. The individual roles responsible for delivering and reviewing the OWMP; |  |
| f. The monitoring and measurement-by-weight procedures for waste and recycling streams; and |  |
| g. Describe the review process to assess the success of the OWMP and identify any improvements, based on lessons learned. |  |

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| **Requirements** | **Supporting Evidence** |
| **22.1A.4** Provide details of the review process used to assess the success of the OWMP. | |
| When in the performance period was the assessment undertaken? |  |
| What improvements, if any, were identified? |  |
| How have the improvements, if any, been implemented? |  |

Identify where this information can be found within the supporting documentation provided.

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| **Supporting Documentation**  (Name / title / description of document) | **Reference**  (Page no. or section) |
| *####* | [####] |
| #### | [####] |

### DISCUSSION

Outline any issues you would like to highlight and clarify with the Certified Assessor(s).

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22.1B BBP waste from operations guidelines

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| The project achieved one (1) point at the Initial Certification, and **no changes** have been made to the building during the performance period that would have an impact on the scope and content of the OWMP.  ***Complete section 22.1B.2 only.*** |  |
| The project achieved one (1) point in the previous Certification and **changes have been made** to the building during the performance period that would have an impact on the scope and content of the OWMP; or a new OWMP was implemented during the performance period.  ***Complete section 22.1B.1 only.*** |  |
| One (1) point was not awarded / targeted in the previous Certification, or a new OWMP was implemented during the performance period.  ***Complete section******22.1B.1 only.*** |  |

For this pathway, the Better Buildings Partnership (BBP) Waste from Operations Guidelines were developed and implemented during the performance period as per the below.

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| **Requirements** | **Supporting Evidence** |
| **22.1B.1** Confirm that the Operational Waste Management Plan was developed in accordance with Part C of the BBP Operational Waste Guidelines and has been in place and operations during the performance period. |  |

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| **Requirements** | **Supporting Evidence** |
| **22.1B.2** Provide details of the review process used to assess the success of the OWMP. | |
| When in the performance period was the assessment undertaken? |  |
| What improvements, if any, were identified? |  |
| How have the improvements, if any, been implemented? |  |

Identify where this information can be found within the supporting documentation provided.

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| **Supporting Documentation**  (Name / title / description of document) | **Reference**  (Page no. or section) |
| *####* | [####] |
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### DISCUSSION

Outline any issues you would like to highlight and clarify with the Certified Assessor(s).

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22.2 waste to landfill reduction

Demonstrate that the amount of operational waste sent to landfill has been reduced through waste-to-landfill diversion practices, by referencing supporting evidence attached to the Submission Template.

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| Indicate which pathway has been used to demonstrate compliance and fill in the corresponding section below. Select one option. | **22.2A** Diversion Rates; |  |
| **22.2B** Peer Group Comparison; |  |
| **22.2C** Historical Baseline Comparison; or |  |
| **22.2D** BBP Waste Data Integrity Protocol. |  |

22.2A DIVERSION RATES

**22.2A.1 Waste Generated**

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| **Requirements** | **Supporting Evidence** | |
| 22.2A.1.1 Describe how the total waste generated for each waste stream has been collected throughout the performance period and the information has been documented in line with the waste management and data collection systems for the building. |  | |
| 22.2A.1.2 Operational waste data measurements have been collated by weight or by volume and entered into the Operational Waste Calculator. | |  |

**22.2A.2 Recycling and reuse**

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| 22.2A.2.1 Outline the nominated treatment for each waste stream entered into the Calculator: | | |
| Reused | | [####] |
| Recycled | | [####] |
| General waste sent to a materials recovery facility | | [####] |
| Waste sent to landfill | | [####] |
| 22.2A.2.2 Recycling efficiency due to contamination rates has been accounted for as follows: | | |
| Indicate how contamination rates have been detailed in the operational waste calculator. | Default contamination rate of 10%; or |  |
| Reduced contamination rate (supported by operational evidence). |  |

If a reduced contamination rate is claimed provide details of what the claimed rate is and attach operational evidence to the Submission Template to support the claims made:

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| 22.2A.2.3 What is the recovery rate for the general waste sent to the materials recovery facility calculated within the Operational Waste Calculator? | [##] |

**22.2A.3 Diversion rates**

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| Please indicate the type of building seeking Green Star certification: | Office building – refer to Table 22.1 below; or |  |
| Other building – refer to Table 22.2 below. |  |
| **Table 22.1 Diversion rates office** | | |
| Please indicate how many points are claimed – as detailed in the Operational Waste calculator: | 1 point: 60-75% |  |
| 2 points: 75-85% |  |
| 3 points: Greater than 85% |  |
| **Table 22.2 Diversion rate all other buildings** | | |
| Please indicate how many points are claimed – as detailed in the Operational Waste calculator: | 1 point: 40-55% |  |
| 2 points: 56-75% |  |
| 3 points: Greater than 75% |  |

Identify where this information can be found within the supporting documentation provided.

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| **Supporting Documentation**  (Name / title / description of document) | **Reference**  (Page no. or section) |
| *Green Star – Waste from Operations – Diversion Rates Calculator* | [####] |
| #### | [####] |

### DISCUSSION

Outline any issues you would like to highlight and clarify with the Certified Assessor(s).

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22.2B Peer Group Comparison

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| **Requirements** | **Supporting Evidence** | | |
| **22.2B.1 Establish a baseline** | | | |
| 22.2B.1.1 A waste to landfill performance baseline has been established, determined from historical waste data from at least three other comparable buildings. | | |  |
| 22.2B.1.2 The selection of comparable buildings and calculation of an average performance baseline has been carried out using the Operational Waste Calculator. | | |  |
| 22.2B.1.3 Describe how the historical waste data for the comparable buildings includes at least 3 continuous years of operational waste data from within 5 years of the performance period was collected. | |  | |
| 22.2B.1.4 Confirm that the historical waste data input into the Operational Waste calculator to establish a baseline is in line with 22.2B.2 and 22.2B.3. | | |  |
| **22.2B.2 Waste Generated** | | | |
| 22.2B.2.1 Outline the total waste generated for each waste stream has been collected throughout the performance period. Show that this information has been documented in line with the waste management and data collection systems for the building. |  | | |
| 22.2B.2.2 Operational waste data measurements have been collated by weight or by volume and entered into the Operational Waste Calculator. | | |  |

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| **22.2B.3 Recycling and reuse** | | | |
| 22.2B.3.1 Outline the nominated treatment for each waste stream entered into the Calculator | | | |
| Reused | |  | |
| Recycled | |  | |
| General waste sent to a materials recovery facility | |  | |
| Waste sent to landfill | |  | |
| 22.2B.3.2 Recycling efficiency due to contamination rates has been accounted for as follows. | | | |
| Indicate how contamination rates have been detailed in the Operational Waste Calculator: | Default contamination rate of 10%; or | |  |
| Reduced contamination rate (supported by operational evidence). | |  |

If a reduced contamination rate is claimed provide details of what the claimed rate is and the operational evidence attached to support this claim:

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| 22.2B.3.3 What is the recovery rate for the general waste sent to the materials recovery facility calculated within the Operational Waste Calculator? | [##] |

### 22.2B.4 Waste to landfill reduction

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| **Table 22.3 Reduction on Peer Group of Buildings** | | |
| Indicate how many points are claimed – as detailed in the Operational Waste Calculator and outlined in Table 22.3: | 1 point: 25% or greater reduction |  |
| 2 points: 50% or greater reduction |  |
| 3 points: 75% or greater reduction |  |

Identify where this information can be found within the supporting documentation provided.

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| **Supporting Documentation**  (Name / title / description of document) | **Reference**  (Page no. or section) |
| *Green Star – Waste from Operations – Peer Group Comparison Calculator* | [####] |
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### DISCUSSION

Outline any issues you would like to highlight and clarify with the Certified Assessor(s).

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22.2C Historical Baseline Comparison

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| **22.2C.1 Establish a baseline** | |
| 22.2C.1.1 A waste to landfill performance baseline has been established, determined from historical waste data from the building seeking Green Star certification. |  |
| 22.2C.1.2 The historical waste data for the building includes at least 5 continuous years of operational waste data from the within 10 years of the performance period. |  |
| 22.2C.1.3 Show that the historical waste data input into the Operational Waste Calculator to establish a baseline is in line with 22.2C.2 and 22.2C.3. |  |

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| **22.2C.2 Waste generated** | | |
| 22.2C.2.1 Provide details of the total waste generated, for each waste stream, has been collected throughout the performance period for the building seeking Green Star certification. |  | |
| 22.2C.2.2 Operational waste data measurements have been collated by weight or by volume and entered into the Operational Waste Calculator. | |  |

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| **22.2C.3 Recycling and reuse** | |
| 22.2C.3.1 Outline the nominated treatment for each waste stream entered into the Calculator: | |
| Reused |  |
| Recycled |  |
| General waste sent to a materials recovery facility |  |
| Waste sent to landfill |  |

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| 22.2C.3.2 Recycling efficiency due to contamination rates has been accounted for as follows. | | |
| Indicate how contamination rates have been detailed in the Operational Waste Calculator: | Default contamination rate of 10%; or |  |
| Reduced contamination rate (supported by operational evidence). |  |

If a reduced contamination rate is claimed please provide details of what the claimed rate is and the operational evidence attached to support this claim:

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| 22.2C.3.3 What is the recovery rate for the general waste sent to the materials recovery facility. | [##] |

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| **22.2C.4 Waste to landfill reduction** | | |
| What is the waste to landfill reduction when compared the average baseline? | | |
| Indicate how many points are claimed – as detailed in the Operational Waste Calculator and outlined in Table 22.4. | 1 point: 25% or greater reduction |  |
| 2 points: 50% or greater reduction |  |
| 3 points: 75% or greater reduction |  |

Identify where this information can be found within the supporting documentation provided.

|  |  |
| --- | --- |
| **Supporting Documentation**  (Name / title / description of document) | **Reference**  (Page no. or section) |
| *Green Star – Waste from Operations – Historical Baseline Calculator* | [####] |
| #### | [####] |

### DISCUSSION

Outline any issues you would like to highlight and clarify with the Assessment Panel.

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22.2D BBP Waste Data Integrity Protocol Rating

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| **22.2D.1 Data Integrity** | |
| 22.2D.1.1 Indicate the Better Buildings Partnership Waste Data Integrity rating was achieved during the performance period: | Gold/Silver/Bronze |
| 22.2D.1.2 Confirm that the data integrity has been documented in line with Part E of the BBP Operational Waste Guidelines and verified by an independent third party waste auditor. |  |

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| **22.2D.2 Diversion rates** | | |
| Please indicate the type of building seeking Green Star certification: | Office building – refer to Table 22.1; or |  |
| Other building – refer to Table 22.2. |  |
| **Table 22.1 Diversion rates office** | | |
| Please indicate how many points are being claimed as outlined in Table 22.1. | 1 point: 60-75% |  |
| 2 points: 75-85% |  |
| 3 points: Greater than 85% |  |
| **Table 22.2 Diversion rates all other buildings** | | |
| Please indicate how many points are being claimed as outlined in Table 22.2. | 1 point: 40-55% |  |
| 2 points: 56-75% |  |
| 3 points: Greater than 75% |  |

Identify where this information can be found within the supporting documentation provided.

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| **Supporting Documentation**  (Name / title / description of document) | **Reference**  (Page no. or section) |
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### DISCUSSION

Outline any issues you would like to highlight and clarify with the Certified Assessor(s).

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# DECLARATION

I confirm that the information provided in this document is truthful and accurate at the time of completion.

Provide author details, including name, position and email address:

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Click here to enter a date.