

Using MUSIC-link for Blacktown City Council

When Blacktown City Council are assessing a development proposal, we must check that it complies with our Water Sensitive Urban Design policies. While eWater's MUSIC software makes it possible to achieve compliance with the targets and parameters, the assessment and refinement process has traditionally been iterative and time-consuming.

The main benefit of MUSIC-link is that developers and consultants can design their stormwater management infrastructure and then immediately validate it (within the software) to ensure that parameters fall within the limits of Blacktown City Council's requirements. On receiving a submitted design and related validation report, our Development Assessment team can immediately check for compliance with our standards. If the design is compliance, it can be passed onto engineers for detailed evaluation.

MUSIC-link streamlines the process of achieving a match between the Blacktown City Council's specific guidelines and urban developers' water sensitive designs. This shortcut bypasses the traditionally iterative process, where assessing authorities returned models to developers to be amended and re-submitted until they are suitable for engineering evaluation.

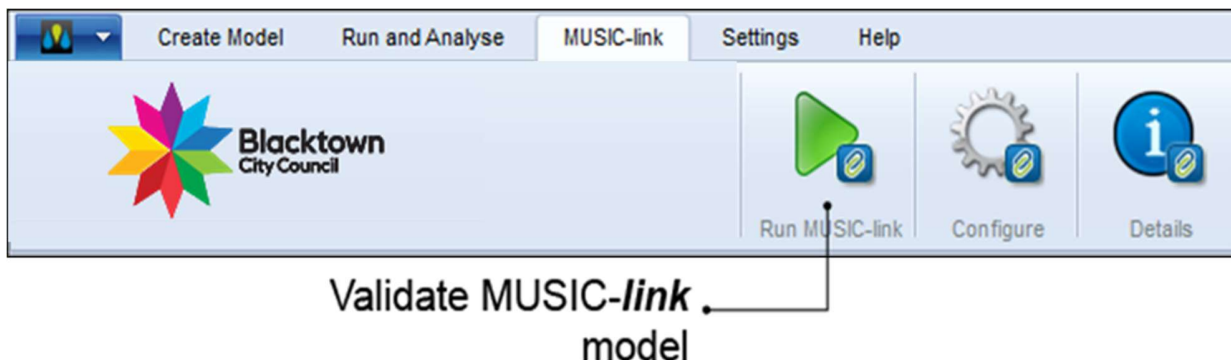
MUSIC-link allows Blacktown City Council to:

- Apply a simple, robust and quicker process of WSUD assessment, helped by the compliance report that MUSIC-link provides with designs;
- Communicate clearly and directly with developers and designers, providing locally specific WSUD requirements and modelling parameters;
- Provide increased levels of redundancy for model assessment; and
- Build capacity and support policy redundancy to support longevity.

Using MUSIC-link

MUSIC-link forms part of the standard MUSIC 6 interface, and can be accessed using the MUSIC-link tab (shown below) in the main interface.

MUSIC-link tab



Working with MUSIC-link is a two-step process:

1. Create and run your MUSIC model; and
2. Validate you model against the set of pre-defined parameters for a particular assessing authority.

Creating a MUSIC model

When creating a MUSIC model for inclusion in the validation process, you can choose one of two methods: either create a standard model, or directly create a MUSIC-link model, as described below.

Create a standard model

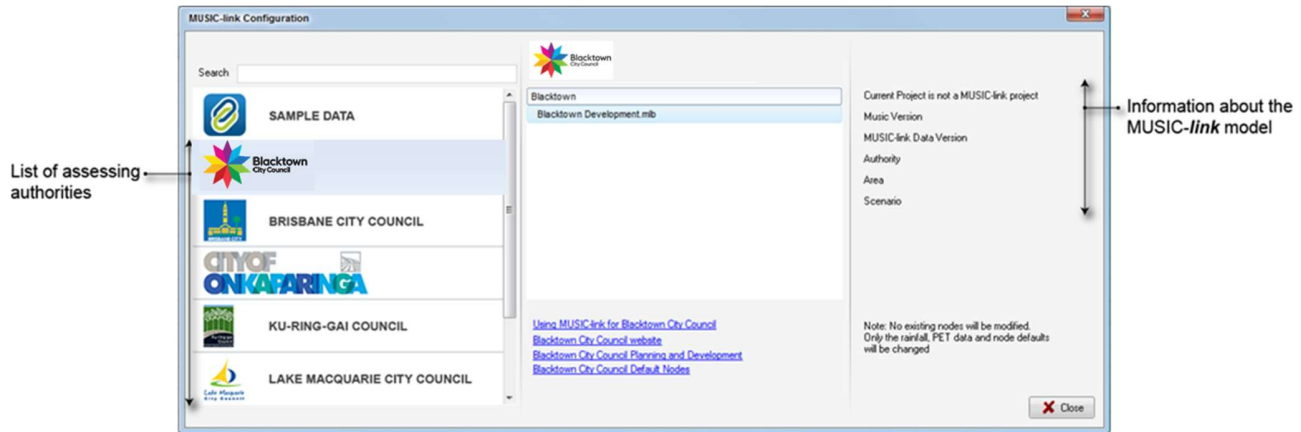
- Choose a standard meteorological template that is available with MUSIC;
- Build and run your MUSIC model;
- In the MUSIC-link tab, click **Configure** and choose **Yes** to convert the existing model to a MUSIC-link model;
- Choose Blacktown City Council and the associated meteorological template from the MUSIC-link Configuration window that opens (as per below diagrams); and
- Then, initiate the validation process. Refer to Validating the MUSIC-link model for details.

Directly create a MUSIC-link model

- Choose New MUSIC-link from the main MUSIC tab;
- Choose the Blacktown City Council option from the drop down list and the associated meteorological template (as shown below);

- Build your model; and
- Then, initiate the validation process. Refer to Validating the MUSIC-*link* model for details.

Note: When using MUSIC-*link*, nodes with import flows do not contribute to the total area or the impervious percentage calculations.



Self-Validating the MUSIC-*link* model (Prior to lodgement with Blacktown City Council)

Ensure that your MUSIC model has been created with Blacktown City Council inputs prior to validating it. Once you have created your model:

1. Choose the MUSIC Link tab and click **Run MUSIC-link**; and
2. Once the model has been run, the MUSIC-*link* window appears showing the validation report (see below).

Validation report

A report is generated on completion of a validation run (as shown below). The top half of the report provides details of the validation result. It shows the compliance status of each parameter, which indicates whether the result is within the allowable range. An unchanged result indicates that this value has not been modified by the user (default value used during model run), and hence, it has no effect on overall compliance.

You can now do the following with the report:

- Click **Create Report** to expand a form, where you can enter details of the project & associated notes as well as contact details for those who are submitting the model & report. A report will only be generated (and can be saved in a PDF format) if all the parameters are compliant, or you have provided an explanation to justify why parameters are non-compliant (using the **Comment** field).
- Click **Next Steps** to expand the report for Blacktown City Council lodgement Instructions (as outlined in the below diagram).

Blacktown City Council **music-link**

Parameter	Min	Max	Actual	Result
Uncategorised Parameters				
% Reuse Demand Met	None	None	0	Passed
Evaporative Loss as % of PET	75	75	75	Unchanged
Exfiltration Rate (mm/hr)	0	0	0	Unchanged
Extended detention depth (m)	0.25	1	2	Failed
Threshold Hydraulic Loading for C** (m/yr)	3500	3500	3500	Unchanged
Total Nitrogen - C* (mg/L)	1	1	1	Unchanged

Next Steps

Once you have used the MUSIC-*link* self-validation functionality for your MUSIC model and it either:

A) Meets the reportable parameter requirements for Blacktown City Council's setup configuration and targets, then;

STEP 1) Generate a Blacktown City Council MUSIC-*link* PDF report for submission with your model.
 STEP 2) Submit your self-validated MUSIC model along with the Blacktown City Council MUSIC-*link* PDF report to Blacktown City Council as part of your Development Application. All material submitted must be in accordance with Blacktown City Council DA submission requirements.

Create Report

Project Summary: Contact Name:
 Company Name: Phone:
 Address: Email:
 Reporting Node:
 Comment:

Lodgement of your MUSIC model and MUSIC-*link* Report to Blacktown City Council

If the MUSIC model meets the reportable parameter requirements for Blacktown City Council's setup configuration and targets, proceed as follows:

1. Create/Generate a Blacktown City Council MUSIC-*link* PDF report for submission with your model;
2. Submit your self-validated MUSIC model along with the Blacktown City Council MUSIC-*link* PDF report to Blacktown City Council as part of your Development Application.

If the parameters and/or targets are outside the required ranges and you believe the use of these parameters or the output results can be justified, please follow the steps below:

1. Generate a Blacktown City Council MUSIC-*link* PDF report for submission with your model. **NOTE:** Any parameter breaches must be justified for the model to be considered by Blacktown City Council;
2. Provide reasons for model assumptions that are outside of default parameter ranges in the **Comments** section; and/or
3. Submit your self-validated MUSIC model along with the Blacktown City Council MUSIC-*link* PDF report to Blacktown City Council as part of your Development Application.



All material submitted must be in accordance with Blacktown City Council DA submission requirements.

Further Assistance:

If you require further assistance with utilising MUSIC-link Blacktown City Council, please contact eWater support on 1300 92837 support@ewater.com.au or Blacktown City Council on (02) 9839-9600, during office hours .