



Dunoon and Kilcreggan Ferry Terminals – Outline Business Case

Reference Group Meeting Kilcreggan Options Appraisal



Agenda

Dunoon and Kilcreggan Outline Business Case Overview

Kilcreggan – Baselining and Transport Planning Objectives

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5 Kilcreggan – Proposed Preferred Option

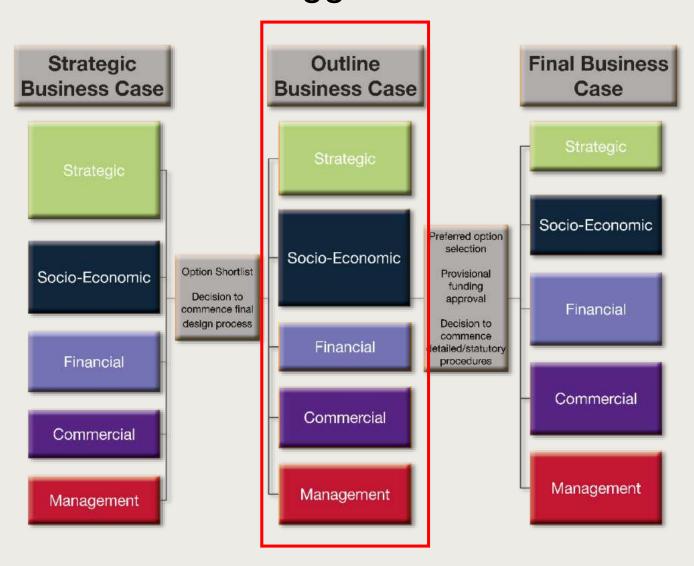
Next Stages & Inputs required from Reference Group





Dunoon and Kilcreggan – Outline Business Case Update

Dunoon & Kilcreggan – Outline Business Case Overview



- Mott MacDonald and Stantec Ltd appointed by Argyll & Bute Council to deliver the Dunoon and Kilcreggan OBC in Jan '21
- MML will be supported by Stantec to deliver all parts of the OBC as follows:
- Strategic Case i.e., confirm the case for change, infrastructure baselining and TPO setting
- Socio-economic Case i.e., Initial option development and appraisal, followed by selection and further development of preferred option for each terminal
- Financial, Commercial and Management Cases i.e., evidence commercial viability, procurement strategy, financial appraisal of preferred options and detail project management plans

Dunoon & Kilcreggan – Outline Business Case Programme

Task	Anticipated Timeline
MML and Stantec appointed to support the Dunoon and Kilcreggan OBC	January 2021
Review of SBC, Baselining and Setting TPOs	February – April 2021
Working Group Inception	February 2021
Working Group TPO Setting	April 2021
Develop Infrastructure Options and Costings	April – November 2021
Appraise Options against TPOs and STAG Criteria	November - December 2021
Working Group, Reference Group and Public Engagement on Proposed Preferred Options	December 2021 – February 2022
Confirmation of Preferred Options	February 2022
Development of Preferred Options to Outline Design	February – April 2022
Development of Commercial Financial and Management Cases	November 2021 – March 2022
March Harbour Board Reporting	March 2022
OBC Draft Reporting	April 2022
Working Group Report Review and Further Reference Group Liaison	May 2022
OBC Final Reporting	May – June 2022
September Harbour Board Reporting	September 2022

Dunoon & Kilcreggan – OBC Stakeholder Engagement

Working Group

Argyll & Bute Council is MML's immediate client for the project. However, the study has been guided by inputs from a wider Working Group which comprises:

- Argyll & Bute Council
- Transport Scotland
- CalMac Ferries Ltd
- CMAL

Stakeholder Consultation

Reference Group are to receive an update on the option development (this meeting) and selection of the preferred options once worked up in detail.

Public Engagement

It is fundamental to the OBC process that there is public engagement and an appropriate level of support for the preferred options. This will be online engagement in the form of a pre-recorded presentation, online Q&A and collection of feedback in early 2022.





Kilcreggan Recap – Baselining and TPOs

Kilcreggan – Baselining

Direct Problems

Life expiry of infrastructure (Timber Pier is over 120 years old, regular repairs to maintain structural capacity, question over residual life)

Berth facilities (Tidally constrained service, during high tides, vessel belting higher than top of fenders and vessel deck too high above pier deck)

Passenger access (Not suitable for use by all, steep gradients at high and low tides, boat steps require maintenance)

Landside facilities (Constrained parking)

Implications i.e. Indirect Problems

Reliability

- Tidal constraints, service does not operate at high tides
- Pier is exposed from south and south-west, which can cause problems including motion of the vessel against the pier
- Not accessible to all.

<u>Issues</u>

i.e. Uncertainties that the study may not be in a position to resolve but must work within the context of

Comparable levels of access at both ends of the route

Compatibility of berthing / mooring facilities with new vessels and facilities at Gourock

Programme uncertainty and timing of introduction of new vessels / facilities at Gourock

Kilcreggan – Baselining

Opportunities

i.e. Potential for improvements to the transport system and the way it is used

- Improved reliability of scheduled passenger service through provision of berth improvements
- Providing improved access to passenger only service to Gourock
- Provision of improved access to parking

Constraints

i.e. Physical, legal and institutional boundaries in which the study is being undertaken

- Timber Pier is Category B listed
- Continued use of timber pier by P.S. Waverley and other harbour users
- Swinging moorings in Kilcreggan Bay
- Ferry Terminal is not situated within A&BC's Statutory Harbour Authority (A&BC seeking to establish harbour limits at Kilcreggan)
- Land ownership

Kilcreggan – Transport Planning Objectives

Agreed with Working Group and used in options appraisal

- TPO 1 The provision of appropriate terminal infrastructure capable of accommodating the in-scope vessels for a minimum 60-year window.
- TPO 2 The future infrastructure including local approaches should improve the reliability and punctuality of scheduled services.
- TPO 3 The future terminal infrastructure should provide EA compliant access to ferry services, as far as reasonably practicable
- **TPO 4** Minimise negative service impacts by managing the construction works and phased introduction of new vessels.
- TPO 5 Infrastructure designs should maximise flexibility in future use by passenger ferry services and other users.





Kilcreggan – Options Carried Forward to Appraisal

Kilcreggan – Option 3a



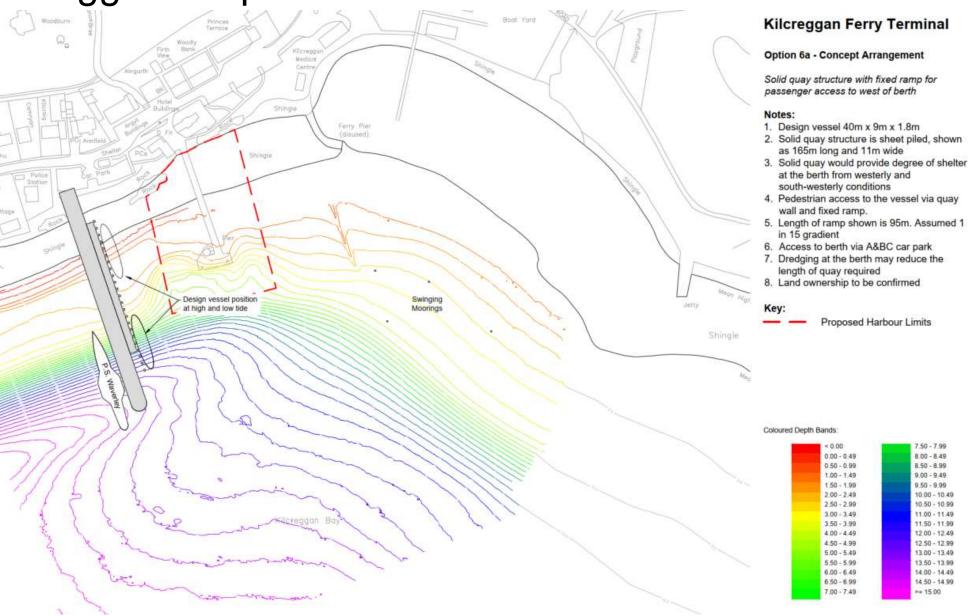
Kilcreggan – Option 4a



Kilcreggan – Option 5a



Kilcreggan – Option 6a







Kilcreggan – Appraisal of Options

Kilcreggan – Appraisal of Options

Options have been appraised against the five TPOs and STAG criteria.

This involves the appraisal of all options on a seven-point scale, as follows:

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✓✓✓ - Major Positive
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✓✓ - Moderate Positive

✓ - Minor Positive

O - Neutral

- Minor Negative

- Moderate Negative

******* - Major Negative

	Option 3a	Option 4a	Option 5a	Option 6a		
TPO1: The provision of appropriate terminal infrastructure capable of accommodating the in-scope vessels for a minimum 60-year window						
Adequacy of berth length to accommodate in-scope vessels	$\checkmark\checkmark\checkmark$	$\checkmark\checkmark\checkmark$	V V V	$\checkmark\checkmark\checkmark$		
Suitability and spacing of fendering to accommodate in-scope vessels	///	///	///	$\checkmark\checkmark\checkmark$		
Adequacy of moorings and access to moorings to accommodate inscope vessels	✓	√√√	√√√	√		
Adequacy of car parking for staff and passengers	O	О	О	О		
Adequacy of passenger waiting facilities	√ √	✓	√ √	✓		
Proximity of connection to sustainable travel links	×	xx	x	xx		

Summary

Overall, Option 5a scores the best as the pontoon provides improvements to moorings, and also provides access in a similar location as the existing and does not increase the distance needed to walk to the berth.

	Option 3a	Option 4a	Option 5a	Option 6a	
TPO2: The future infrastructure including local approaches should improve the reliability and punctuality of					
scheduled services					
Appropriate wave climate in manoeuvring areas and at berth	$\checkmark\checkmark\checkmark$	✓	О	$\checkmark\checkmark$	
Appropriate approaches and manoeuvring area for in-scope vessels	xx	√ √	√√	x	
Berth orientation	√√√	x	x	√√√	

Summary

Overall, the options with solid piers provide more shelter but are more difficult to manoeuvre onto, and those options with pontoons provide better manoeuvring but are less sheltered.

	Option 3a	Option 4a	Option 5a	Option 6a		
TPO3: The future terminal infrastructure should provide EA compliant access to ferry services, as far as reasonably						
practicable						
Provision of improved access to in-scope vessels, of similar standard	√	$\checkmark\checkmark\checkmark$	$\checkmark\checkmark\checkmark$	√		
to that being provided at Gourock		·				

Summary

Overall, all options improve access; however, the options with fixed ramps (3a and 6a) score lower due to ongoing maintenance requirements.

	Option 3a	Option 4a	Option 5a	Option 6a
TPO4: Minimise any negative service impacts by managing the construction works and the phased introduction of				
new vessels				
Minimise service disruption during construction of new facilities	✓	/ / /	xxx	$\checkmark\checkmark$
Compatibility between infrastructure and vessels throughout the introduction of new infrastructure and new vessels	xx	√ √	xx	x

Summary

Overall, Option 4a scores the best for TPO 4 as it is separated from the existing and should have no impact on service or navigation during the construction works.

	Option 3a	Option 4a	Option 5a	Option 6a	
TPO5: Infrastructure designs should maximise flexibility in future use by passenger ferry services and other users					
Flexibility of infrastructure to accommodate changes to vessels and/or services	O	√ √	✓	О	
Does not preclude redevelopment of existing timber pier facilities for use by others	x	√ √	xxx	0	
Ability to accommodate other harbour users now and in the future	✓	√ √	✓	√ √	

Summary

Overall, the options with fixed berths score lower due to constraints on future vessels and options 3a and 5a limit or make redundant the use of the existing timber pier.

Kilcreggan – Summary of Appraisal Against TPOs

	Option 3a	Option 4a	Option 5a	Option 6a		
Summary						
TPO1: The provision of appropriate terminal infrastructure capable of accommodating the in-scope vessels for a minimum 60-year window	√	✓	√ √	√		
TPO2: The future infrastructure including local approaches should improve the reliability and punctuality of scheduled services	√ √	√	О	√ √		
TPO3: The future terminal infrastructure should provide EA compliant access to ferry services, as far as reasonably practicable	✓	///	√√√	✓		
TPO4: Minimise any negative service impacts by managing the construction works and the phased introduction of new vessels	x	///	xxx	✓		
TPO5: Infrastructure designs should maximise flexibility in future use by passenger ferry services and other users	0	√ √	О	✓		
Summary	✓	√ √	0	✓		

Kilcreggan – Summary of Appraisal Against STAG Criteria

	Option 3a	Option 4a	Option 5a	Option 6a		
Summary						
Environment	xx	x	x	xx		
Safety	xx	√ √	/ / /	xx		
Economy	✓	✓	✓	✓		
Integration	O	O	О	O		
Accessibility and Social Inclusion	0	√√√	/ / /	x		
Summary	×	✓	✓	x		

Summary

Overall, the options that utilise pontoons (4a and 5a) score better due to reduced scale of works, better berth orientation and the shorter walk to access the vessel when compared to the fixed berth options (3a and 6a).





Kilcreggan - Proposed Preferred Option

Preferred Option from Assessment (TPOs and STAG Criteria)

	Option 3a	Option 4a	Option 5a	Option 6a
Summary				
TPO Summary	✓	√√	0	✓
STAG Summary	×	✓	\checkmark	x
Cost Estimate (excluding OB)	£12.5M	£9.3M	£5.7M	£11.0M
	Not considered further due to impact on swinging moorings, not ideal for conventional vessels, submerged ramp leads to maintenance obligations. Impact on approaches to existing structure. Significant environmental impact and unlikely to be consentable due to significant impact on setting of historic pier and wider village	To be considered further as shelter provided by breakwater (position to be finalised if breakwater required). Good approaches and manoeuvring for ferries. Can be designed to accommodate other harbour users, providing flexibility for future users. Minimal impact on timber pier, provides access for all. Subject to need for and position of breakwater, has impact on setting of historic pier and wider village, but could be softened through design	Not considered further as precludes use and limits future development of historic pier. Unlikely to be consentable due to proximity to listed structure and impact on wider setting. No improvement to shelter on berth.	Not considered further as not ideal for conventional vessels, submerged ramp leads to maintenance obligations. Significant environmental impact and unlikely to be consentable due to significant impact on setting of historic pier and wider village.

Preferred Option from Assessment (TPOs and STAG Criteria)

Based on discussions with A&BC, and subject to confirmation of wave modelling, the proposed preferred option for Kilcreggan is Option 4a.



Mott MacDonald





Next Steps

Next Stages

- Dunoon Reference Group Meeting (January 2022)
- Conclusion of wave modelling to assess impact on proposed preferred options
- Confirmation of design vessel parameters to allow further development of options
- Public engagement date to be confirmed, anticipate early 2022
- Confirmation of preferred options
- Refinement of preferred options and updated cost estimates
- Commercial, Financial and Management Cases anticipate Feb / March 2022
- Draft OBC report anticipate April / May 2022

Inputs from Reference Group

Provide feedback (if any) on the proposed preferred option presented





Thank you