

MAINTENANCE SCHEME DATA FORM

General Information

Route **A77** Change Sheet Required **No**
Work code **0301 Patching** Scheme number **14/SW/0301/440**
Scheme Name **A77 DALRYMPLE STREET - GIRVAN**

Key Dates

Date Works completed **13 August 2016** Issue Days **-42595**
Date MSD Issued to TS **[Redacted]**

Additional Comments

Please add any additional comment below including details of any treatments not available in drop down lists or where 'Other' has been chosen in the construction data. Please add new lines if required.

[Redacted area for additional comments]

Checking and Approvals

For Operating Company

MSD Completed by **[Redacted]**
MSD Checked by **[Redacted]**

For Transport Scotland

MSD Checked by **[Redacted]**
IRIS Updated by **[Redacted]**

Guidance notes

	Cells coloured amber require data entry
	Cells coloured grey do not require data entry
	Cells coloured white generally need previous cells to be populated first before valid information can be chosen.
	Cells coloured red are contain data that may not be valid i.e. chainage greater than the length of the section. Please
	Cells coloured red are calculation fields and do not require any data entry

The spreadsheet does contain Macros. It will work without the macros being enabled. Enabling the Macros will enable a significant number of cells to be prepopulated with valid values.

A separate spreadsheet should be used for each scheme.

General information regarding each scheme shall be entered into the "MSD - Cover Page" tab.

A new line for each layer shall be entered into the "MSD - Construction data" tab

It is suggested that all layers of the same Link/Section & start & end chainage are grouped together on consecutive lines with layers entered in order i.e. surface layer on top, then binder, then base.

Any removed material only needs to be recorded in the first line of each group. The "Material removed" box should grey out if link/section/chainage cells are the same in subsequent rows indicating further entry is not required, See example below.

Start Link/Section Chainage		End Link/Section Chainage		Intermediate Sections			XSP (enter all valid XSP)	Material Removed
Link	Ch	Link	Ch	Link	Link	Link		
10105/12	0	10105/54	960	10105/22			CL1,CL2	
10105/12	0	10105/54	960	10105/22			CL1,CL2	

Entering multiple link/sections with the same treatment

Multiple link/sections with the same treatment can be entered, see example above. If start and End link/section is the same the intermediate sections should grey out, see example below.

Start Link/Section Chainage		End Link/Section Chainage		Intermediate Sections			XSP (enter all valid XSP)
Link	Ch	Link	Ch	Link	Link	Link	
10105/12	0	10105/12	960				CL1,CL2
10105/12	0	10105/12	960				CL1,CL2

Please note that the list of valid links/sections may not include the most up to date list held in IRIS thus if a link/section is not in the list you will not be able to enter it. In this case please leave the link/section field empty and make some relevant notes in the comments cell

The chainage field will highlight red if the value entered is greater than the section length. Please note the section length contained in this spreadsheet may not be up to date list held in IRIS so please enter the value you think is correct but also check the section length recorded in IRIS and consider if TS need to be notified of a network change.

In the XSP, please enter all valid XSP for each treatment, see example above of multiple XSP entry.

Relevant values for the fields "Layer" to "Material type" can then be selected. Valid options for each drop down will change based on the selections of the previous cells. This will enable only valid combinations to be selected.

If Macros are enabled, many cells will be pre populated based on the default values contained in the Lookups tabs. If Macros are not enabled the contents of each cell will need to be populated and checked.

For cells that have been pre populated, please check the values are still valid and change or delete them if they are not valid.

Design PSV

For TS2010 surface courses this should be Class1, Class2 or Class 3. For all other surface courses this should be e.g. 50, 55, 60, 65 etc.

As built PSV

Thus should be the actual PSV of the as built material and should be obtained from the latest PSV certificates from the Quarry. For OC As or Right Works, the PSV certificates should be obtained used lime to lime from the coarse aggregate quarry supplier and it is anticipated that the actual PSV may vary slightly over time. It is important that the most recent PSV certificates are obtained and any slight variations in PSV are captured.

Material Source

TS are now collecting the plant, coarse aggregate source and fine aggregate source for all materials. Please complete as much information as you are reasonable certain of. The plant and coarse aggregate source for surface course materials is considered mandatory information. If you are not sure, please leave as "- Pick from list -" or blank

Other materials properties

Please enter as much information as you are reasonably certain of. If you are not sure, please leave as "- Pick from list -" or blank

Potential Tar

Where Tar is indicated or has been confirmed it shall be recorded by selecting "Potential Tar" from the Binder Spec column. The MSD record should reflect the depth/layers where potential Tar has been found. It is essential that any potential Tar material that is either left In-Situ or is incorporated into treated layers (e.g. In-Situ Recycling) are recorded for future reference and inclusion in future Health and Safety Files

Cut / Copy / Paste

Cut should have been disabled but do not use Cut / Paste as it will break the formulae in the spreadsheet

Copy / Paste should work but it is preferable that only single rows are copied at any one time.

Deleting and Inserting columns and rows should also be disabled but please do not insert columns and rows as it will break the spreadsheet.

TS2010 TAIT progress
As at January 2016

Can be used without further restriction
Can be used but with restrictions (check certificate)
Can be promoted for a further Stage 3 TAIT trial. Not approved for general use
Stage 3 trial in progress. Not yet approved
No Stage 3 TAIT trial. Not yet approved



Supplier	Ref No	Plant	Coarse agg.	Fine agg.	Aggregate Size	TAIT Declared PSV	TAIT Approval			Comments
							Class 1	Class 2	Class 3	
		Duntilland	Duntilland 0/10	Duntilland	10	62	Green	Blue	Blue	
		Chryston			10	62	Green	Blue	Blue	
		Mid-Lairgs	Grey 0/10	Mid-Lairgs	10	62	Green	Blue	Blue	Not used
		Chryston	Millom 0/10	Duntilland	10	68	Green	Blue	Blue	
		Duntilland			10	68	Green	Blue	Blue	
		Chryston	Duntilland 0/10	Duntilland	10	62	Green	Blue	Blue	Now Ai01a
		Duntilland	Duntilland 0/6	Duntilland	6	62	Green	Red	Red	
		Chryston			6		Green	Red	Red	
		Duntilland	Dunduff 0/10	Duntilland	10	65	Green	Blue	Blue	
		Chryston			10		Green	Blue	Blue	
		Duntilland	Cloburn	Duntilland	10	68	Green	Blue	Blue	
		?	Glenfin	Duntilland	6	?	Green	Blue	Blue	
		?	Glenfin	Duntilland	10	?	Green	Blue	Blue	
		Tongland	Tongland	Tongland	10?	65	Green	Blue	Blue	No longer used, replaced by Breedon mixes
		Killoch	Sorn	Sorn	10?	64	Green	Blue	Blue	
		Orrock			10		Green	Blue	Blue	
		Clatchard	Clatchard 0/10	Shierglas	10	60	Green	Blue	Blue	
		Ethiebeaton			10		Green	Blue	Blue	
		Bonawe			10		Green	Blue	Blue	
		Netherglen	Netherglen 0/10	Netherglen	10	55	Green	Red	Red	
		Daviot			10		Green	Red	Red	
		Clatchard	Devon 0/10	Orrock	10	65	Green	Blue	Blue	No longer available
		Clatchard	Tormitchell 0/10	Orrock	10	68	Green	Blue	Blue	
		Orrock			10		Green	Blue	Blue	
		Clatchard	Balmullo 0/14	Shierglas	14	60	Green	Red	Red	
		Clatchard	Balmullo 0/10	Shierglas	10	60	Green	Red	Red	
		Ethiebeaton			10		Green	Red	Red	
		Clatchard	Goathill 0/10	Shierglas	10	66	Green	Red	Red	
		Orrock			10		Green	Red	Red	
		Orick	Orrock 0/10	Shierglas	10	55	Green	Blue	Blue	Not Used
		Clatchard	Cloburn grey 0/10	Shierglass	10	68	Green	Blue	Blue	
		Ethiebeaton			10		Green	Blue	Blue	
		Daviot	Daviot 0/10	Daviot	10	55	Green	Blue	Blue	
		Clatchard			10		Green	Blue	Blue	
		Shierglas	Shierglas 0/10	Shierglas	10	55	Green	Blue	Blue	
		Craigenlow	Craigenlow 0/10	Craigenlow	10	55	Green	Blue	Blue	
		Ethiebeaton			6		Green	Blue	Blue	
		Clatchard	Balmullo 0/6	Shierglas	6	55	Green	Blue	Blue	
		Orrock			6		Green	Blue	Blue	
		Bonawe	Bonawe 0/10	Bonawe	10	55	Green	Blue	Blue	No TAIT2 yet
		Tongland			10		Green	Blue	Blue	
		Barlockhart	Tongland	Tongland	10	65	Green	Blue	Blue	Barr mix replacements
		Kiloch			10		Green	Blue	Blue	
			Netherglen 0/6	Netherglen	6		Green	Blue	Blue	
			Shierglas 0/6	Shierglas	6		Green	Blue	Blue	
			Furnace 0/10	Furnace	10		Green	Blue	Blue	
		Cowieslinn	Cowieslinn 0/10	Cowieslann	10	68	Green	Blue	Blue	
		Hillhouse	Hillhouse 0/10	Hillhouse	10	52	Green	Blue	Blue	
		Glasgow AP	Hillhouse 0/10	Hillhouse	10	52	Green	Blue	Blue	
		Hillhouse	Hillhouse 0/14	Hillhouse	14	52	Green	Blue	Blue	Not progressed
		New-Forres	New-Forres 0/10	New-Forres	10	50	Green	Blue	Blue	Not progressed
		Blackhills	Blackhills 0/10	Blackhills	10	55	Green	Blue	Blue	
		Blackhills	Blackhills 0/6	Blackhills	6	55	Green	Blue	Blue	
		Hillwood	Cairneyhill 0/10	Cairneyhill	10	61	Green	Blue	Blue	
		Cairneyhill			10		Green	Blue	Blue	
		Cairneyhill	Ballystockart 0/10	Cairneyhill	10	70	Green	Blue	Blue	Not progressed
		Hillwood			10		Green	Blue	Blue	
		Cairneyhill	Ballystockart 0/10	Ravelrig	10	70	Green	Blue	Blue	
		Cairneyhill	Cairneyhill 0/10	Cairneyhill	10	61	Green	Blue	Blue	Now Tar01a
		Cairneyhill	Ballystockart 0/10	Ravelrig	10	70	Green	Blue	Blue	Now Tar03a
		?	Jerico Bridge	Jerico Bridge	6	?	Green	Blue	Blue	
		?	Cairneyhill 0/14	Cairneyhill	14	?	Green	Blue	Blue	
		Collace	Collace 0/10	Bitmac sand?	10	?	Green	Blue	Blue	
		?	Collace 0/14	?	14	?	Green	Blue	Blue	Not progressed

		?	Tillicoultry 0/6	?	6	?			Not progressed
		?	Tillicoultry 0/10	?	10	?			Not progressed

VERSION	ISSUED	CHANGE
1	05/05/2010	Original document
1.1	10/05/2010	Electronic signature comments amended
1.2		Design life field reformatted, [REDACTED] added to material source
1.3	14/02/2011	EU Specification for Bituminous materials included under Material Specification
		Concrete grades included under Material Specification
		Proprietary product names moved from Material Specification to Material Type
		Binder Specification included
		Guidance notes to complete MSD form included
1.4	04/03/2011	An extra row for "additional layers" included.
		[REDACTED] added to material type
		[REDACTED] added to material source
		Erroneous (locked) cells in previous version was fixed.
1.5	22/07/2011	M77 DBFO and M80 DBFO added to Unit selection
		Change of material name fro [REDACTED]
		Change of material name fro [REDACTED]
1.6	13/01/2012	SAMI (Stress Absorbing Membrane Interface) added to Additional Layers
		[REDACTED] added to material source
1.6a	18/01/2012	[REDACTED] added to material type
1.7		[REDACTED] added to material type
1.8	04/12/2013	Inserted Structural Inlay as an option.
		Inserted various TS2010 Material Types.
2	01/04/2014	First issue of new format
2.1	08/04/2014	Updates to TSC names, Quarries and correction of macro errors.
2.2	29/04/2014	Added start/ed & intermediate sections, comments & summary fields
		fixed bug in autocomplete macro to fill in source columns
		Changes to bardon & breedon product lists
2.3	16/07/2014	Updates to latest TS2010
		Updates Section with new A83 sections
2.4	08/12/2014	"Design PSV" Column added along with change to "As Built PSV".
		TS2010 list added as tab
		TS2010 list amended in materials lookup
2.5	07/01/2015	Crinlarich Bypass Sections added
		Brdiges Work Codes added
2.6	07/08/2015	"Potential Tar" added to Binder Spec picklist. Guidance notes updated.
		TS2010 new mixes added.
		Ringway Gripfibre - removed from AntiSkid options, left in Microsurfacing only
		Major rationalisation of "Material type" and "Material Spec" fields to match tidyup of PMS data.
2.7	02/09/2015	Fixed bug in autocomplete macro
		Added conditional formatting to highlight some cells where values have been changed from defaults
2.8	?	
2.9	?	
2.10	15/06/2016	TS2010 List and material lookups data updateed
		Correction to Material Spec lookup range

Layer	Treatment Type default	Treat_ID 2	Treat_ID	Treatment Type
- Pick from List -		1	1-1	
Surface Treatment	- Pick from List -	1	2-1	- Pick from List -
		2	2-2	Anti skid (HFS)
		3	2-3	Surface dressing
		4	2-4	Microsurfacing
		5	2-5	Surface dressing
		6	2-6	Retexturing
		6	2-6	
		6	2-6	
Reinforcement layer	Reinforcement	1	3-1	Reinforcement
		1	3-1	
		1	3-1	
Bridge Deck Waterproofing	Bridge Deck Waterproofing	1	4-1	Bridge Deck Waterproofing
		1	4-1	
		1	4-1	
Stress Absorbing Membrane	Stress Absorbing Membrane	1	5-1	Stress Absorbing Membrane
		1	5-1	
		1	5-1	
Surface Course	- Pick from List -	1	6-1	- Pick from List -
		2	6-2	INLAY
		3	6-3	STRUCTURAL INLAY
		4	6-4	OVERLAY
		5	6-5	RECONSTRUCTION
		6	6-6	NEW CONSTRUCTION
		6	6-6	
		6	6-6	
Binder Course	- Pick from List -	1	7-1	- Pick from List -
		2	7-2	INLAY
		3	7-3	STRUCTURAL INLAY
		4	7-4	OVERLAY
		5	7-5	RECONSTRUCTION
		6	7-6	NEW CONSTRUCTION
		6	7-6	
		6	7-6	
Base Course	- Pick from List -	1	8-1	- Pick from List -
		2	8-2	INLAY
		3	8-3	STRUCTURAL INLAY
		4	8-4	OVERLAY
		5	8-5	RECONSTRUCTION
		6	8-6	NEW CONSTRUCTION
		6	8-6	
		6	8-6	
Sub Base	- Pick from List -	1	9-1	- Pick from List -
		2	9-2	RECONSTRUCTION
		3	9-3	NEW CONSTRUCTION
		3	9-3	
		3	9-3	
Other Layer	- Pick from List -	1	10-1	- Pick from List -
		2	10-2	INLAY
		3	10-3	STRUCTURAL INLAY
		4	10-4	OVERLAY
		5	10-5	RECONSTRUCTION
		6	10-6	NEW CONSTRUCTION
		6	10-6	