To: Swale Joint Transportation Board

By: KCC Highways and Transportation

Date: 26th June 2017

Subject: Highway Works Programme 2017/18

Classification: Information Only

Summary: This report updates Members on the identified schemes approved for construction in 2017/18

1. Introduction

This report provides an update and summarises schemes that have been programmed for delivery in 2017/18

Footway and Carriageway Improvement Schemes – see Appendix A

Drainage Repairs & Improvements – see Appendix B

Street Lighting – see Appendix C

Traffic Systems – see Appendix D

Developer Funded Works – see Appendix E

Transportation, PROW and Safety Schemes – see Appendix F

Public Rights of Way – see Appendix G

Bridge Works – see Appendix H

Member Highway Fund – see Appendix I

Conclusion

1. This report is for Members information.

Contact Officers:

The following contact officers can be contacted on **03000 418181**

Kirstie Williams Highway Manager (Mid) Alan Blackburn Swale District Manager

Alan Casson Road & Footway Asset Manager
Kevin Gore Interim Drainage Manager
Paul Hopkins Interim Structures Manager
Sue Kinsella Street Lighting Manager

Toby Butler Intelligent Transport Systems Manager
Andrew Hutchinson Transportation, PROW and Safety Schemes

Appendix A – Footway and Carriageway Improvement Schemes

The delivery of these schemes is weather dependent; should it prove not possible to carry out these works on the planned dates, new dates will be arranged and the residents will be informed by a letter drop to their homes.

Machine Resurfacing – Contact Officer Byron Lovell					
Road Name	Parish	Extent of Works	Current Status		
A2 London Rd	Sittingbourne	Lydbrook Close area	Completed		
A299 Herne Hill Slip Road	Hernhill	Overbridge and on-slip at Sandhole	Programmed 21st June		
A250 Halfway Rd	Halfway	Power Station Road Roundabout	Rescheduled due to bad weather		
A2 West St	Sittingbourne	Park Road junction	Completed		
A2 St Michaels Road	Sittingbourne	Approaches to signalised crossing point	Completed		
Footway Improvement	- Contact Officer Neil Tree)			
Road Name	Parish	Extent and Description of Works	Current Status		
Chilton Avenue	Sittingbourne	Between No's. 2 and 72 Chilton Avenue. (Footway Reconstruction)	To be Programmed		
A251 Ashford Road	From the junction with the A2 London Road to O/S No. 91 Ashford Road. (Footway Protection).		To be Programmed		
Ashtead Drive	Bapchild	Entire length (Footway Protection).	To be Programmed		
School Lane	Bapchild	From the junction with Ashtead Drive to the junction with St.Laurence Close. (Footway Protection).	To be Programmed		
St Lawrence Close	Bapchild	Entire length (Footway Protection).	To be Programmed		
Wihtred Road	Bapchild	Entire length (Footway Protection).	To be Programmed		

Surface	Treatments -	Contact Officer	Jonathan Dean

Micro Surfacing Road Name	Parish	Extent of Works	Current Status		
Addington Rd	Sittingbourne	From Ufton Lane To Park Road	Programmed for the 07/08/2017 for 1 day		
The Street	Oare	Oare Road To Colegates Road	Programmed for the 09/08/2017 for 2 days		
Perry Wood	Chilham / Perry Wood	Selling Road To Perrywood	Programmed for the 19/08/2017 for 2 days		
Perry Wood	Chilham / Perry Wood	Grove Road To Perry Wood	Programmed for the 19/08/2017 for 2 days		
Elm Lane	Minster	Whole Road	Programmed for the 13/07/2017 for 3 working days		
B2008 Back Lane & High Street	Minister	Whole Road	Programmed for the 11/07/2017 for 3 days		
Rodmersham Green / Bottles Lane	Rodmersham	Whole Road	Programmed for the 07/08/2017 for 2 days		
Stalisfield Road	Rodmersham	From Kettle Hill To Haywards Hill	Programmed for the 09/08/2017 for 1 day		
Wormdale Hill	Newington	From Bridge To Shadow Motors	Programmed for the 27/07/2017 for 1 day		
Forge Lane	Upchurch	Oak Lane To The Street	Programmed for the 03/08/2017 for 2 days		
The Knole	Faversham	Whole Length	Initial Works Completed Further Investigations Ongoing		
Surface Treatments - Contact Officer Jonathan Dean					
Surface Dressing					
Eastchurch Road	Eastchurch	Plough Road To Roundabout	Programmed for the 15/06/2017 for 1 day		
Eastling Road	Eastling	Everland Lane To Scotts Lane	Programmed for the 12/06/2017 for 1 day		

Lynsted Lane	Lynsted	Bogle Road To Batteries Close	Programmed for the 13/06/2017 for 1 day
B2045 Western Link	Faversham	From Roundabout To Lamp Column Ewfh038	Programmed for the 13/06/2017 for 1 day
Selling Road	Selling	From Trench To Either Farm Entrance Or To End Of Road	Programmed for the 12/06/2017 for 1 day
Dawes Road	Dunkirk	Whole Length	Programmed for the 12/06/2017 for 2 days
A2 London Road	Tonge	From Hempstead Lane To Claxfield Road	Programmed for the 13/06/2017 for 2 days
A2 London Road	Boughton	Between Brenley Corner To Love Lane	Programmed for the 15/06/2017 for 1 day
A2 London Road	Norton And Buckland	From Provender Lane To Faversham Road	Programmed for the 14/06/2017 for 1 day
A2 London Road	Teynham	From Provender Lane To Hempstead Lane	Programmed for the 14/06/2017 for 2 days

Appendix B – Drainage Repairs & Improvements

Drainage Repairs & Improvements - Contact Officer Katie Lewis				
Road Name	Parish	Description of Works	Current Status	
Cryalls Lane	Borden	Installation of new soakaway	Works at design stage	
A2 Dully Road	Bapchild	Installation of new drainage system	Works at design stage	
Noreen Avenue	Sheerness	Installation of new drainage system	Works at Design Stage	

Appendix C - Street Lighting

Structural testing of KCC owned street lights has identified the following as requiring replacement. A status of complete identifies that the column replacement has been carried out. Programme dates are identified for those still requiring replacement.

Street Lighting Column Replacement – Contact Officer Sue Kinsella			
Road Name	Parish	Description of Works	Status
			12 x COMPLETED
Winstanley Road	Sheerness	Replacement of 15 no street lights	Remaining 3 columns need to be done under another road closure
,		complete with LED Lanterns	Road closure currently being re- programmed & expected for completion by the end of JULY 2017
London Road	Newington	Replacement of 9 no street lights complete with LED Lanterns	Completed
Key Street	Sittingbourne	Replacement of 6 no street lights complete with LED Lanterns	Works are currently being programmed & expected for completion by the end of JULY 2017
Kingsferry Bridge	Iwade	Replacement of 1 no street light complete with LED Lantern following RTC.	COMPLETED
Bellevue Road	Minster	Replacement of 1 no street light complete with LED Lantern following RTC.	Works are currently being programmed & expected for completion by the end of JULY 2017
Thanet Way	Forstall	Replacement of 2 no sign posts complete with LED Downfloods following RTC's.	COMPLETED
Commonwealth Close	Murston	Replacement of 1 no sign post complete with LED Downflood	COMPLETED
Fountain Street	Sittingbourne	Replacement of 1 no sign post complete with LED Downflood	COMPLETED
Waterham Road	Dargate	Replacement of 1 no sign post complete with LED Downflood	COMPLETED
Victory Street	Sheerness	Replacement of 1 no sign post complete with LED Downflood	COMPLETED
Manor Way	Leysdown	Replacement of 1 no sign post	COMPLETED

		complete with LED Downflood	
Main Road	Queenborough	Replacement of 1 no street light complete with LED Lantern	COMPLETED
Whiteway Road	Queenborough	Replacement of 1 no street light complete with LED Lantern	COMPLETED
Whitstable Road	Graveney	Replacement of 2 no street lights complete with LED Lanterns	Works are currently being programmed & expected for completion by the end of JULY 2017
Bonham Drive	Sittingbourne	Replacement of 1 no street light complete with LED Lantern	Works are currently being programmed & expected for completion by the end of JULY 2017
Heard Way	Sittingbourne	Replacement of 1 no street light complete with LED Lantern	Works are currently being programmed & expected for completion by the end of JULY 2017
The Leas	Faversham	Replacement of 1 no street light complete with LED Lantern	Works are currently being programmed & expected for completion by the end of JULY 2017
Rowetts Way	Eastchurch	Replacement of 1 no street light complete with LED Lantern	Works are currently being programmed & expected for completion by the end of JULY 2017
Thanet Way	Dargate	Replacement of 1 no sign post complete with LED Downflood	Works are currently being programmed & expected for completion by the end of JULY 2017
Arundel Avenue	Sittingbourne	Replacement of 1 no street light complete with LED Lantern	Works are currently being programmed & expected for completion by the end of JULY 2017
Burnup Bank	Sittingbourne	Replacement of 1 no street light complete with LED Lantern	Works are currently being programmed & expected for completion by the end of JULY 2017
Appleford Drive	Minster	Replacement of 1 no street light complete with LED Lantern	Works are currently being programmed & expected for completion by the end of JULY 2017

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Faversham	Replacement of 1 no street light complete with LED Lantern	Works are currently being programmed & expected for completion by the end of JULY 2017
Sheerness	Replacement of 1 no street light complete with LED Lantern	Works are currently being programmed & expected for completion by the end of JULY 2017
Sittingbourne	Replacement of 1 no street light complete with LED Lantern	Works are currently being programmed & expected for completion by the end of JULY 2017
Kemsley	Replacement of 2 no street lights complete with LED Lanterns	Works are currently being programmed & expected for completion by the end of JULY 2017
Faversham	Replacement of 2 no street lights complete with LED Lanterns	Works are currently being programmed & expected for completion by the end of JULY 2017
Boughton	Replacement of 2 no street lights complete with LED Lanterns	Works are currently being programmed & expected for completion by the end of JULY 2017
Minster	Replacement of 1 no street light complete with LED Lantern	Works are currently being programmed & expected for completion by the end of JULY 2017
Sittingbourne	Replacement of 1 no street light complete with LED Lantern	Works are currently being programmed & expected for completion by the end of JULY 2017
Sittingbourne	Replacement of 1 no street light complete with LED Lantern	Works are currently being programmed & expected for completion by the end of JULY 2017
Faversham	Replacement of 1 no street light complete with LED Lantern	Works are currently being programmed & expected for completion by the end of JULY 2017
Sittingbourne	Replacement of 1 no street light complete with LED Lantern	Works are currently being programmed & expected for completion by the end of JULY 2017
	Sheerness Sittingbourne Kemsley Faversham Boughton Minster Sittingbourne Faversham	Sheerness Replacement of 1 no street light complete with LED Lantern Replacement of 1 no street light complete with LED Lantern Replacement of 2 no street lights complete with LED Lanterns Replacement of 2 no street lights complete with LED Lanterns Replacement of 2 no street lights complete with LED Lanterns Replacement of 2 no street lights complete with LED Lanterns Replacement of 1 no street light complete with LED Lantern Replacement of 1 no street light complete with LED Lantern Sittingbourne Replacement of 1 no street light complete with LED Lantern Replacement of 1 no street light complete with LED Lantern Replacement of 1 no street light complete with LED Lantern Replacement of 1 no street light complete with LED Lantern

Clarence Road	Sheerness	Replacement of 1 no street light complete with LED Lantern	Works are currently being programmed & expected for completion by the end of JULY 2017
Manor Way	Eastchurch	Replacement of 1 no overhead pole bracket complete with LED Lantern following RTC.	COMPLETED
St Katherines Road	Halfway	Replacement of 1 no overhead pole bracket complete with LED Lantern	COMPLETED
Scocles Road	Minster	Replacement of 1 no overhead pole bracket complete with LED Lantern	COMPLETED
Southsea Avenue	Minster	Replacement of 1 no overhead pole bracket complete with LED Lantern	COMPLETED
Sea Approach	Warden Bay	Replacement of 1 no overhead pole bracket complete with LED Lantern	COMPLETED
Highsted Road	Sittingbourne	Replacement of 1 no overhead pole bracket complete with LED Lantern	COMPLETED
Shurland Avenue	Leysdown	Replacement of 1 no overhead pole bracket complete with LED Lantern	COMPLETED
Union Road	Minster	Replacement of 1 no overhead pole bracket complete with LED Lantern	COMPLETED
Warden Road	Eastchurch	Replacement of 1 no overhead pole bracket complete with LED Lantern following damage caused by the recent Storm Katie.	Works are currently being programmed & expected for completion by the end of JULY 2017
Manor Way	Eastchurch	Replacement of 1 no overhead pole bracket complete with LED Lantern following RTC.	COMPLETED
St Katherines Road	Halfway	Replacement of 1 no overhead pole bracket complete with LED Lantern	COMPLETED
Scocles Road	Minster	Replacement of 1 no overhead pole bracket complete with LED Lantern	COMPLETED

Southsea Avenue	Minster	Replacement of 1 no overhead pole bracket complete with LED Lantern	COMPLETED
Sea Approach	Warden Bay	Replacement of 1 no overhead pole bracket complete with LED Lantern	COMPLETED
Highsted Road	Sittingbourne	Replacement of 1 no overhead pole bracket complete with LED Lantern	COMPLETED
Shurland Avenue	Leysdown	Replacement of 1 no overhead pole bracket complete with LED Lantern	COMPLETED
Union Road	Minster	Replacement of 1 no overhead pole bracket complete with LED Lantern	COMPLETED

<u>Appendix D – Traffic Systems</u>

There is a programme of scheduled maintenance to refurbish life expired traffic signal equipment across the county based upon age and fault history. The delivery of these schemes is dependent upon school terms and holiday periods; local residents, businesses and schools will be informed verbally and by a letter drop of the exact dates when known.

Traffic Systems - Contact Officer: Toby Butler			
Location	Description of Works	Current Status	
High Street/ B2163 Bell Road, Sittingbourne	Refurbishment of traffic signal controlled junction	Proposed July 2017	

Appendix E – Developer Funded Works

	Developer Funded	Works (Section	278 Works)	
File Ref.			Description of	
	Road Name	Parish	Works	Current Status
SW/2047			Provision of New	
			Junction /Access	
			for Housing	Remedial and maintenance
	School Lane Iwade	Iwade	Development	works underway
SW/3038			Provision of	Works completed – minor
			Footway./Junction	remedial works and Stage
	Land at Chequers		for Housing	3 Road Safety Audit to be
	Hill Doddington	Doddington	Development	carried out
SW/003028	Ospringe Cof E		Provision of	Certificate 1 Issued on 12
	School Water Lane		Revised Vehicle	Months Maintenance
	Faversham	Ospringe	Access	Period
SW/2045				Works Completed
			New traffic signals	Adoption will take place
	Mill Way,		associated with	once retail park UKPN
	Sittingbourne	Sittingbourne	new supermarket	account resolved
SW/3037			Provision of	
			Passing places	
			and new access	
			for Brick Clay	Certificate 1 Issued on 12
	Stickfast Lane		extraction Orchard	Months Maintenance
	Iwade	Iwade/Bobbing	Farm	Period
SW/3027			New School	
			access Traffic	
			calming changes	Certificate 1 Issued on 12
	Tunstall Road		and footway	Months Maintenance
	Tunstall	Tunstall	Connection	Period
SW/003055			New access to	
			Private Housing	
	Scocles Court	Minster on Sea	development	Technical vetting underway
SW/003056	Sittingbourne			
	Community			
	College		New access for	
	Canterbury Road		School bus drop	
	Murston	Sittingbourne	off park	Technical Vetting underway
SW/003025			Provision of New	
			Junction/Access	
	Sheppey Way		for Housing	
	Iwade	Iwade	Development	Works Underway
SW/003003	Thomsett Way			
	Queenborough -		Drainage diversion	
	Morrisons Store -		within Highway	
	PFS Junction	Queenborough	verge	Design of works agreed
	1		1 9 -	_ = = 5.5

SW/3046			Provision of	
			Private Housing	
	Power Station		development	
	Road Halfway		Junction and	
	Sheppey	Minster on Sea	Traffic Calming	Agreement being prepared
SW/003007			Replacement of	
			Footway on	
	Rushenden Road		frontage to HA	Final inspection to be
	Queenborough	Queenborough	Development	carried out then Adoption
SW/003009			Reconstruction of	
			existing Turning	0 115 1 1 1
	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	B 4:14	area for Housing	Certificate 1 issued on 12
011//02/40	Wyllie Court	Milton	development	Months maintenance period
SW/3043	04.40.5		Reconstruction of	
	34-40 Rushenden		existing lay-by as	l
011//000074	Road	Queenborough	new Footway	Works underway
SW/003054			Provision of New	
			Housing site	Technical Vetting being
014//00004=	Ceres Court	Sittingbourne	access road	carried out
SW/003047			Provision of New	
	TI OLID.:		entrance to	Technical Vetting
	The Old Dairy	01	Private Housing	completed awaiting return
0)4/000040	Halfway	Sheppey	Site	of signed Agreement.
SW003048			Provision of New	
	Danis and Harris		Access to Housing	
	Parsonage House		site and Traffic	A suppose that is a large very less
	School Lane	Novinaton	Calmed footway	Agreement in place works
C)M//002040	Newington	Newington	crossing Provision of	underway
SW/003049	Sunny View Scocles Road		entrance to Private	Works completed sweiting
	Minster	Minster on Sea		Works completed awaiting
SW/003050	IVIIIISTEI	Willister on Sea	Housing Site Provision of New	Stage 3 Safety Audit
344/003030			Signalised	
			Junction to A2	
	Love		Junctions to Love	
	Lane/Graveney		Lane/Graveney	Initial design submission
	Road Faversham	Faversham	Road	received
SW/003051	Trodd i dversiidiii	1 aversnam	Provision of	received
311,000001			Revised Railway	
	Sprit of		Station Access	
	Sittingborne		and Highway	
	Railway Station		Layouts For New	
	/Town Centre		Cinema -M/S Car	Initial Design Submission
	Highway Revisions	Sittingbourne	Park	received
SW/003052	, , , ,	<u> </u>	Provision of New	
			Industrial Estate	
	Eurolink Phase 5		Road Junction	
	Swale Way Great		Arm to Existing	
	Easthall	Sittingbourne	Roundabout	Agreement Instructed
L	1	1	1	

SW/003053			Provision of	
			Revised Access	
	Barge Way		Arm from Existing	Revised design submission
	Kemsley	Sittingbourne	Roundabout	awaited
SW/003035	·		Provision of	
			revised traffic	
			calming and	
	109-111		vehicle access for	
	Staplehurst Road		Housing	
	Sittingbourne	Sittingbourne	developments	Works underway
SW/003026			Provision of	-
			revised traffic	
			calming and	Works completed
	Attlee Way/Wyvern		vehicle access for	Certificate 1 to be issued
	Close		Housing	then 12 months
	Sittingbourne	Milton	developments	maintenance period
SW/0033024	_		Revision of	
			Vehicle Access to	
	Dover Street		Lidl Store and	Works complete awaiting
	Sittingbourne	Sittingbourne	footway revisions	Safety Audit
SW/003029			Provision of new	Certificate 1 Issued on 12
	Thistle Hill Way		Primary School	Months Maintenance
	Minster Sheppey	Minster on Sea	Exit and Footpath	Period
SW/003067	11. 7		Provision of new	
			roundabout/access	
	Western Link Road		for housing	Initial design submission
	Faversham	Faversham	development	received
SW/003031			Provision of new	
			footway for	
	Lower Road		housing	Certificate 1 Issued - in
	Teynham	Teynham	development	Maintenance Period
SW/003033	Grove Ave/The	,	Revision of	
	Promenade		Surface Water	Certificate 1 Issued - in
	Leysdown on Sea	Leysdown	Drainage	Maintenance Period
			Provision of HGV	
			Delivery Vehicle	
SW/003030			Lay-By for	Completion works still
	West Street	Sittingbourne	Restaurant	required
SW/003040			Provision of Right	•
			Turn Lane /	
			Junction and	
			Footway for	
	Otterham Quay		Housing	Agreement in place, Works
	Lane Upchurch	Upchurch	Develoment	underway
SW/003041	,	•	Provision of	
			footway to Small	
	Larkrise Conyer		Housing	Agreement instructed and
	Road Conyer	Teynham	Development	being prepared
SW/003034	1 2 2 2 2 2 3 2 2 2 2 2 2 2 2 2 2 2 2 2	- ,	Provision of	Letter of Agreement Signed
	Selling Road		Access into	awaiting programme of
	Faversham	Faversham	Proposed Public	works
	raversnam	raversnam	Proposed Public	WOFKS

			House/Restaurant	
0)4//000000			Duninian of	
SW/003036			Provision of	
			Revised Footway	Works completed
			and Access to	Certificate 1 to be issued
	Wyvern Close		Housing	then 12 months
	Sittingbourne	Milton	Development	maintenance period
SW/003032			Provision of	
			Revised Footway	
	Old Water Works		and Access to	
	Site Rook Lane		Housing	Technical Vetting of Design
	Keycol Bobbing	Bobbing	Development	Submission

Appendix F - Transportation, PROW and Safety Schemes

The Schemes Planning & Delivery Team is implementing a number of schemes within the Swale District, in order to meet Kent County Council's strategic targets (for example, addressing traffic congestion, or improving road safety). Contact Officer – **Jamie Watson**

CASUALTY REDUCTION MEASURES Identified to address a known history of personal injury crashes Road Name Parish Description of Works Current Status None to report at this time

INTEGRATED TRANSPORT SCHEMES Local Transport Plan funded non-casualty reduction schemes **Road Name Description of Works Current Status Parish** KCC are carrying out revised traffic modelling, around the two options of roundabout or traffic lights, in order to further inform the decision of which construction option Junction KCC would want to pursue. A2 / A251 junction Faversham improvement, to ease congestion Discussions are still ongoing with regards localised developments, including Perry Court, and S106 contributions. Advisory 20mph limit and other school safety measures School safety zone. **Bobbing Village** Provision of part time complete. Speed survey has Bobbing School 20mph zone been completed and the results are being analysed. A2 Canterbury Rd Pedestrian crossing Handed over for construction Sittingbourne in the Summer of 2017 (adj. Murston Rd) island There are a number of locations where the Handed over for construction The Brents area Faversham provision of dropped in the Summer of 2017 kerbs is required

THIRD PARTY TRANSPORT SCHEMES Third party funded non-casualty reduction schemes Road Name Parish Description of Works Current Status None to report at this time

Appendix G - Public Rights Of Way

Path No	Parish	Description of Works	Current Status
ZF3	Faversham	Surface Improvements	Works scheduled Summer 2017
ZR614	Boughton under Blean	Revetments works to stop path sliding into stream	Planned for 2017/18- specifications currently being drawn up
ZR171	Bredgar	Surface improvements	Works complete
ZR147	Tunstall	Surface improvements- had to halt works through winter due to wet ground conditions	Works underway

Appendix H – Bridge Works

Bridge Works – Contact Officer Katie Moreton				
Road Name Parish Description of Works Current Status				
No works planned				

Highway Improvement Schemes Progress Report

Appendix F – Combined Member Fund

Combined Member Grant programme update for Swale Borough Council

The following schemes are those which have been approved for funding by both the relevant Member and by Roger Wilkin, Director of Highways, Transportation and Waste. The list only includes schemes, which are

- in design
- · at consultation stage
- Handed over for delivery
- Recently completed on site.

The list is up to date as of 7th June 2017

The details given below are for highway projects only. This report does not detail

- Contributions Members have made to other groups such as parish councils
- Highway studies
- Traffic / non-motorised user surveys funded by Members.

More information on the schemes listed below can be found via Kent Gateway, the online database for all Combined Member Grant schemes and studies, or by contacting the Schemes Project Manager for the Swale District.

2016/17 Combined Member Grant Highway Schemes

Roger Truelove

Details of Scheme	Status
16-MHF-SW-7 & 16 Homewood Avenue	
Install measures to deter parking at junction	Double Yellow Lines with SBC to progress Traffic Regulation Order
16-MHF-SW-6 Albany Road	
Install pedestrian warning signs	Completed
16 - MHF-SW- 12 Regis Crescent	
Dropped Kerbs x 2	Completed

Mike Baldock

Details of Scheme	Status
15-MHF-SW – 15 Various locations	
Implement double yellow lines	Completed

Lee Burgess and Roger Truelove (shared scheme)

Details of Scheme	Status
15-MHF-SW – 10 School Lane Iwade	Lining works completed. Further
School Keep Clear Marking	signage still to be installed.

1.1 Legal Implications

- 1.1.1 Not applicable.
- **1.2** Financial and Value for Money Considerations
- 1.2.1 Not applicable.
- 1.3 Risk Assessment
- 1.3.1 Not applicable

Contact: Kirstie Williams / Alan Blackburn 03000 418181