



## Meeting Notes



### Noise Liaison Group Meeting No. 8

2 February 2012, 10:00 to 13:00

Venue: FRC Project Office, Rosyth

#### Attendees:

Steven Brown	FRC Employer's Delivery Team (EDT) (Chair)
Andrew Mackay	FRC Employer's Delivery Team (EDT)
Martin Butterfield	FRC Employer's Delivery Team (EDT)
David Condie	FRC Employer's Delivery Team (EDT)
Oliver Atack	FRC Employer's Delivery Team (EDT)
Steve Williamson	City of Edinburgh Council (CEC)
Dermot Connolly	City of Edinburgh Council (CEC)
David Redden	Fife Council (FC)
Brian Carmichael	West Lothian Council (WLC)
Niall Corbet	Scottish Natural Heritage (SNH)
Colin Megginson	Marine Scotland (MS)
Rory McFadden	John Graham (Dromore) Ltd (JG)
Sean O'Neill	John Graham (Dromore) Ltd (JG)
Mark MacLagan	John Graham (Dromore) Ltd (JG)
Roland Tarrant	SRB Civil Engineering Ltd (SRB)
Micheal O'Connell	SRB Civil Engineering Ltd (SRB)
Barry O'Riordan	SRB Civil Engineering Ltd (SRB)
Meinolf Droste	Forth Crossing Bridge Constructors (FCBC)
Neil Abraham	Forth Crossing Bridge Constructors (FCBC)
Paul Hillman	Forth Crossing Bridge Constructors (FCBC)
Ray Browne	Forth Crossing Bridge Constructors (FCBC)
Stephen Glynn	Forth Crossing Bridge Constructors (FCBC)

#### Apologies for Absence:

David Climie	FRC Employer's Delivery Team (EDT)
Richard Greer	FRC Employer's Delivery Team (EDT)
Tracy Wyllie	Fife Council (FC)
David Brewster	West Lothian Council (WLC)
Mike Bland	Marine Scotland (MS)

Item	Subject	Description	Action
1	Introductions and Apologies	EDT welcomed all parties to the meeting. Apologies were received from those parties listed above.	
2	Safety Procedures	EDT advised regarding safety and evacuation procedures.	
3	Minutes and Actions from Previous Meeting	The minutes of Meeting No. 7 held on 1 December 2011 were agreed. Actions from the previous meeting are as noted in items 4(a) to 4(c) below.	
4(a)	Fife ITS	<u>Actions from Previous Meeting No. 7</u>	
	(i)	EDT confirmed having finalised the template for noise monitoring and	

		the noise monitoring note. EDT to issue the final version to the NLG.	EDT
	(ii)	EDT advised that maps of the monitoring locations would be placed on the web site but that due to limitations on the web site it would not be an interactive map.	EDT
	(iii)	JG confirmed having finalised PCNV0015 which was now approved.	
	(iv)	JG confirmed having finalised PCNV0016 Piling Works at Gantry 10F which was now approved.	
	(v)	JG confirmed that data from the fixed monitors at Park Lea would be downloaded and issued to the Employer and NLG.	JG
	(vi)	EDT advised that final amendments to the baseline monitoring report were necessary and JG confirmed these would be completed.	JG
		<u>Plans for Control of Noise and Vibration</u>	
	(vii)	JG advised that work was continuing on the following PCNVs: <ul style="list-style-type: none"> <li>• 0009 – Gantry Installation</li> <li>• 0010 – Southbound carriageway resurfacing</li> <li>• 0013 – Hard Shoulder widening</li> <li>• 0014 – Existing gantry removal</li> </ul>	JG
		<u>Monitoring</u>	
	(viii)	JG confirmed that noise monitoring data up to December 2011 was on the project web site.	
	(ix)	EDT to provide monitoring data for January, including data from the fixed monitors recently installed at Park Lea, to the NLG.	JG
	(x)	EDT requested that JG provide photographs of the fixed monitors for issue to the NLG.	JG
		<u>Community Engagement</u>	
	(xi)	JG advised NLG that they had received positive feedback from residents at Park Lea regarding their engagement.	
	(xii)	JG confirmed that no noise related complaints had been received.	
		<u>Working Hours</u>	
	(xiii)	JG advised that they sought approval to work outside of normal working hours for certain activities, including commencing at 7am and if required working until 10pm. JG advised that working within the evening period was sought for critical works such as piling and concreting which could not be completed within the normal working hours but which were necessary to be completed once commenced.	
	(xiv)	JG advised that they had discussed their proposal with the Employer and Fife Council and that the locations where working outside normal working hours was proposed were those areas which were not close to noise sensitive receptors. EDT and JG confirmed that they were content with the proposal from JG. EDT advised that a formal request to modify the appropriate PCNVs should be submitted.	JG
	(xv)	EDT advised that JG would be required to report at the next NLG on the times that working outside normal working hours was undertaken.	JG
		<u>Forward Programme</u>	
	(xvi)	EDT requested a programme of the intended dates for gantry installation for issue to the NLG members indicating when works outside normal working hours would be undertaken.	JG
	(xvii)	EDT requested a copy of the 3 month look ahead programme be provided for the next meeting.	JG
	(xviii)	EDT asked that JG ensure that adequate consultation and notification was undertaken for the future works outside normal working hours, particularly gantry installation and surfacing works.	JG

4(b)	M9 Junction 1a	<u>Actions from Previous Meeting No. 7</u>	
	(i)	EDT confirmed having finalised the template for noise monitoring and the noise monitoring note. EDT to issue the final version to the NLG.	EDT
	(ii)	SRB confirmed having issued the noise monitoring information for September and October. EDT confirmed this was on the project website.	
	(iii)	EDT advised that final amendments to the baseline monitoring report were necessary and SRB confirmed these would be completed.	SRB
	(iv)	SRB confirmed that conduct of workers, particularly in relation to shouting/talking loudly was being addressed through toolbox talks.	
	(v)	SRB advised that PCNVs in progress at the last meeting were complete with the exception of PCNV0023 covering earthworks to the M9 eastbound on-slip road.	SRB
	(vi)	SRB confirmed that a cumulative noise assessment had been provided to the NLG for discussion at the meeting. The assessment was noted and SRB are to include in the assessment for the next meeting an evening and night time assessment.	SRB
	(vii)	EDT requested a report on short term monitoring carried out in February be provided at the next meeting. SRB advised this would be undertaken and noted that part of the short term monitoring would include monitoring at culvert works at Niddry Burn.	SRB
	(viii)	EDT advised that monitoring results for November and December provided by SRB were being reviewed.	EDT
	(ix)	SRB advised that there was no reasonable alternative to the monitoring location at Buie Rigg and that it was intended to retain it for monitoring purposes. SRB advised that they retained copies of audio recordings from the monitor to support any reviews necessary when thresholds were exceeded.	
	(x)	SRB confirmed having undertaken property condition surveys at locations in King Edwards Way.	
		<u>Noise and Vibration Management Plan</u>	
	(xi)	SRB advised that they intended to update their NVMP with minor modifications necessary.	SRB
		<u>Plans for Control of Noise and Vibration</u>	
	(xii)	SRB provided a schedule of PCNVs for the meeting and advised that all PCNVs anticipated to be required were covered in the schedule.	
	(xiii)	SRB indicated that PCNV0023 covering the last section of earthworks would be revised and resubmitted.	SRB
	(xiv)	SRB advised that they sought agreement of the NLG to SRB's proposed use of monitored data for evening and night time assessments of construction noise as no data existed in the Environmental Statement. SRB noted that they had assumed Category A levels to date but monitoring indicated that higher category levels were appropriate. The NLG noted that the Assessment Category levels principally determine when, using the methodology described in the Environmental Statement, an impact may occur based on the assessed construction noise levels and that if the assessment was accepted additional consent of the relevant local authority would be needed. EDT advised that the Assessment Category levels were, in its view, process related and that this would not affect the scrutiny given to the PCNVs simply because the assessed construction noise was below the relevant threshold. EDT advised that it was necessary for the Contractor to demonstrate in its PCNV that Best Practicable Means were proposed and that the resulting noise was justified and that the Assessment Category levels were not the main focus of the	

		EDT or NLG in this regard. SRB agreed that this was the case. NLG accepted SRBs proposal to use monitored noise levels to determine evening and night time assessment category levels.	
		<u>Monitoring</u>	
	(xv)	SRB advised that they wished to move towards fortnightly issuing of noise data to the Employer. EDT advised that weekly issue of data would be necessary to remain consistent with the other contracts.	SRB
	(xvi)	SRB advised that they had identified night time exceedences of thresholds at Buie Rigg and included this in their monitoring reports.	SRB
	(xvii)	EDT queried whether any exceedences of the 5mm/s vibration threshold were due to continuous working or if all works were intermittent and thus within the 10mm/s vibration threshold. SRB to review.	SRB
		<u>Community Engagement</u>	
	(xviii)	SRB advised that the community forum meeting was held on 1 February 2012 and that meetings with residents of Gateside were planned for w/c 6 February 2012. NLG asked for an update on the Gateside meeting for the next NLG meeting.	SRB
	(xix)	SRB advised that enquiries and complaints had been received in relation to vibratory sheet piling works at Newmains Bridge. SRB confirmed that information had been passed to the Employer and CEC and noted monitored levels were within the permitted thresholds. SRB confirmed that discussions had been held with adjacent residents, including home-workers regarding the works and that it was intended to complete the works later that week. CEC advised that it understood that the prior notification issued relating to the works was not ideal and SRB agreed that further notification to residents would be issued advising of the likely continuation and anticipated completion of the piling works. SRB also advised that it would be progressing to driven piling and that attended monitoring would also be undertaken for this new phase of work. No additional mitigation was proposed at this time.	
		<u>Forward Programme</u>	
	(xx)	SRB noted the following forthcoming works relating to the forward programme: <ul style="list-style-type: none"> <li>• Piling works at the M9 overbridge would commence. These will be bored piles.</li> <li>• Culvert works at Niddry Burn were due to commence. SRB advised they were looking at temporary screening around the northern working area at the culvert.</li> <li>• Earthworks were due to commence again in March or April.</li> </ul>	SRB
4(c)	Principal Contract	<u>Actions from Previous Meeting No. 7</u>	
	(i)	EDT confirmed having finalised the template for noise monitoring and the noise monitoring note. EDT to issue the final version to the NLG.	EDT
	(ii)	FCBC advised that they had yet to complete installation of monitors but that they were reaching agreement with property owners to allow completion of the installations.	FCBC
	(iii)	EDT advised that NLG approval in relation to weather station locations was not necessary. FCBC to close out with any submissions to the Employer as necessary.	FCBC
	(iv)	EDT confirmed that PCNVs 0007 and 0008 relating to works south of the Forth were completed	
	(v)	FCBC issued a copy of their PCNV schedule for review at the meeting.	
	(vi)	EDT confirmed having approved the modification to PCNV0002 to	

		cover trial piling works. However, FCBC indicated that they were reviewing their proposed foundation design and that it was no longer intended to carry out the piling trial. A further update on proposed working methods would be provided at the next NLG meeting.	FCBC
	(vii)	EDT confirmed that discussions with FCBC and SNH had been held separately regarding blasting works on Beamer Rock and that the works had progressed based on the agreed approach and mitigation measures.	
	(viii)	EDT confirmed it was carrying out a review of the Contractor's management systems and procedures and would report to the NLG at the next meeting regarding the findings. EDT noted that it was likely it would ask FCBC to update its NVMP based on the findings to date.	EDT
	(ix)	EDT expressed concern that finalised monitoring data covering November and December had yet to be provided and that it had identified additional exceedences of thresholds in its review of data provided to date. EDT also noted that investigation reports were not being provided as quickly as was necessary, particularly in relation to night time working. The NLG agreed that increased efforts were required from FCBC in relation to providing monitoring data and that significant improvement was expected before the next meeting with data provided to allow it to be placed on the project website.	FCBC
	(x)	EDT asked that in addition to providing data from fixed monitoring locations, FCBC provided an update at the next NLG meeting on attended monitoring carried out in February.	FCBC
	(xi)	FCBC confirmed having consulted with communities at the community forum in January 2012.	
	(xii)	FCBC confirmed that no works had been undertaken over the Christmas and New Year holiday period.	
	(xiii)	EDT noted that a revised PCNV for dredging works was still to be provided by FCBC.	FCBC
	(xiv)	FCBC confirmed that work on the batching plant at the dockyard was progressing.	
	(xv)	EDT confirmed having issued copies of photographs of the marine GI barge to the NLG.	
		<u>Plans for Control of Noise and Vibration</u>	
	(xvi)	FCBC provided an overview of their developing PCNV schedule and advised it would be updated and issued to the Employer w/c 6 February.	FCBC
	(xvii)	FCBC provided the following update regarding approved works: <ul style="list-style-type: none"> <li>• Marine GI would be completed in February</li> <li>• Blasting on Beamer Rock would continue with the next blast w/c 6 February</li> <li>• Excavation works were due to commence and FCBC would be seeking permission to undertake works outside of normal working hours as the works were restricted by tides.</li> <li>• A milling trial had been carried out on Beamer Rock and the underwater noise results from the trial would be provided to the Employer.</li> <li>• Dredging is expected to commence 13 February, subject to approval of the PCNV to be submitted. FCBC provided an overview of the dredging activities and proposals for working outside normal working hours.</li> </ul>	FCBC FCBC
	(xviii)	EDT noted the following in relation to the summary provided by FCBC: <ul style="list-style-type: none"> <li>• EDT confirmed that after difficulties associated with the trial blast on Beamer Rock, it was content that the works were progressing in accordance with the approved PCNV and that mitigation was being deployed to counteract the effects of underwater noise.</li> <li>• EDT requested a copy of the hydrophone and airborne noise readings from the milling trial as soon as possible.</li> <li>• EDT advised that in accordance with the CoCP and Contract FCBC would need to provide sufficient justification to support its request</li> </ul>	FCBC FCBC

		<p>for approval to work outside normal working hours to carry out excavations on Beamer Rock and dredging works. EDT emphasised the need to explain the nature of the works properly ie if they are tidal or continual working as this would assist the NLG understand the works and review and comment on the PCNVs.</p> <ul style="list-style-type: none"> <li>• EDT noted that one of the hydrophones was still not operational and emphasised the need for this to be resolved. FCBC advised that if it could not be repaired it would be replaced.</li> </ul>	FCBC
	(xix)	FCBC advised that PCNV0011 had been issued to the Employer. EDT confirmed that comments were awaited from the NLG on the PCNV.	NLG
	(xx)	FCBC advised that minor works to an access on the A904 were being carried out during the evening of 2 February. CEC asked that information regarding the works were passed to them for issue to their night noise team.	EDT/FCBC
	(xxi)	FCBC advised that PCNV0015 covering blasting at the north abutment and pier N2 of the northern main crossing approach viaduct were being prepared.	FCBC
		<u>Monitoring</u>	
	(xxii)	FCBC provided an update regarding monitoring installations.	
	(xxiii)	FCBCs draft monitoring results were reviewed. NLG suggested that for presentation purposes and to show where high baseline levels existed the charts included data on days where no construction works were carried out. EDT noted that the investigation reports needed to explain in more detail exceedences of LAeq and LAFmax criteria, including what actions were taken where exceedences were due to construction works. CEC noted that difficulties in providing data and analysing exceedences would be resolved by more frequent downloading and review of data from the noise monitors. FCBC to action.	FCBC FCBC FCBC
	(xxiv)	FCBC confirmed that January data would be provided w/c 6 February.	FCBC
	(xxv)	EDT requested a meeting with FCBC to review noise monitoring results and reports.	EDT/FCBC
		<u>Community Engagement</u>	
	(xxvi)	FCBC advised that no concerns regarding construction noise or vibration were received at the community forum meetings held in January.	
	(xxvii)	FCBC confirmed that following their response to the complaint relating to the marine GI, no further comments had been received and the complaint was closed.	
		<u>Forward Programme</u>	
	(xxviii)	Dredging works – NLG suggested that if dredging works would reduce the extent of any piling activities, this should be covered in the PCNV.	FCBC
	(xxix)	FCBC advised that the future foundation works at piers S2 and S3 of the main crossing approach viaduct may include vibratory piling with some limited driving if necessary at the end.	
5	Next Meeting	The next Meeting (No. 9) will be held on 1 March 2012, 10am, Ferrytoll site office.	
6	Any Other Business	None	