

# MINUTES OF MEETING

Meeting Number 14

CLG	Toombul Community Liaison Group				
Location:	Centro Toombul Training Room	Date:	10 November 09	Time:	6:00pm

Item	Action
1.0	<p><b>Meeting opened:</b></p> <ul style="list-style-type: none"> <li>• Apologies</li> <li>• Introduced Ray Barkmeyer, Project Officer for Coordinator General's Office and Sandra Robertson, Compliance Manager for Infrastructure Coordinator General's Office (Acting)</li> <li>• Introduced Shane Elkin, Environmental Acoustician from Heggies</li> <li>• Introduced Kurt Fallon, TJH Project Manager for Railway Underpass work</li> </ul> <p><b>Amendment to previous month's minutes:</b> The following inclusions to October's meeting minutes:</p> <ul style="list-style-type: none"> <li>• CLG member commented that he believed under no circumstances should 7 day-a week work be undertaken given that CLG members believe it is such a departure from the Coordinator General's conditions and the EIS.</li> <li>• CLG member requested that CNI raise directly with the Coordinator General and Minister for Infrastructure CLG member's concerns about the community's lack of protection from the Coordinator General's conditions and the EIS.</li> <li>• CLG member commented that the community is already frustrated with the approval of night shift, should Sunday work proceed public demonstrations are not far off.</li> </ul> <p>New approach to minutes going forward. Draft minutes will be sent to CLG members for their review. CLG members will have three days to make comments on the minutes prior to the final draft being uploaded to the web.</p>
2.0	<p><b>Last month action items:</b></p> <ul style="list-style-type: none"> <li>• Confirm proxy arrangements <ul style="list-style-type: none"> <li>◦ CLG members confirmed that the group agreed to proxies for the benefit of a member who represents special interest group.</li> </ul> </li> <li>• EIS ambient noise levels for Kalinga Park <ul style="list-style-type: none"> <li>◦ Noise levels will be addressed during tonight's presentation.</li> </ul> </li> </ul>
3.0	<p><b>24/7 work in Kalinga Park issues – addressed to Coordinator General representatives:</b></p> <ul style="list-style-type: none"> <li>• CLG member stated the CLG members have put a written statement together regarding their objections to 24/7 work in Kalinga Park. Statement read: <ul style="list-style-type: none"> <li>◦ <i>We (Toombul CLG members) feel the actions of Thiess John Holland (TJH) in its handling of a significant change of work practices to 24/7 general construction are not in the spirit of the Community Liaison Group Terms of Reference and Code of Conduct. The possibility of 24/7 work was flagged "sounding out" members in general business and unanimously rejected by community representatives at the meeting of 13/10/09. To automatically proceed to weekend work without further consultation or investigation of other options disregards the concerns of CLG members; displays disrespect for the role of members; and threatens open consultation.</i></li> <li>◦ <i>There is clear intent in the Coordinator General's conditions restricting general construction work on Sundays. At no stage in the Queensland Government's EIS consultation process or subsequent community engagement has 24/7 general construction work been openly discussed. The Toombul CLG members again unanimously reject 24/7 work and call for a halt of Saturday and Sunday night work and ask that this request is conveyed to the Coordinator General and Minister for Infrastructure.</i></li> <li>◦ <i>We would also like to register our concern that detailed information is not being provided in a timely manner when requested particularly in relation to site plans and drawings.</i></li> </ul> </li> <li>• CLG member believes the CoG conditions are failing the community and feels no one's listening to the community. Looking at drastic actions from this point. When CoG's office were approached with this, did they ask TJH to look at other options.</li> <li>• CLG member maintains there are loop holes in the existing CoG project conditions. <ul style="list-style-type: none"> <li>◦ CoG representative advised that it is not for the CoG to direct TJH in their programming.</li> </ul> </li> </ul>

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	<p>It's up to TJH to make those decisions within the guidelines.</p> <ul style="list-style-type: none"> <li>○ CoG representative advised there are no loopholes in the conditions – the guidelines are set. TJH is permitted to undertake 24/7 work as per the conditions. The conditions do not say they cannot work 24/7.</li> <li>○ The role of the CoG office is to look at the information that is provided prior to the start of such work including mitigation, consultation and management of activities. At this stage the CoG office is happy with the information that has been provided.</li> <li>○ CoG representative advised they have a monitoring and reporting role. They evaluate the information that comes through constantly.</li> <li>○ CoG representative advised they understand and empathise with the situation. If there are other alternatives to working 24/7 they'd like to hear about it. However at this stage they believe TJH are staying within the guidelines.</li> <li>○ CLG members can provide other alternatives to CoG's office for consideration.</li> </ul> <ul style="list-style-type: none"> <li>● CLG member commented that according to information that was presented to the community in the early days of construction the work hours were 6:30am to 6:30pm Monday to Saturday and little warning was given when these hours expanded. CLG member maintains that expectations got set accordingly and the community feels tricked. <ul style="list-style-type: none"> <li>○ CoG representative advised that the conditions allow for 24/7 work to occur. The CoG's office believes TJH have provided sufficient information at this stage and is happy with what's been provided.</li> </ul> </li> <li>● CLG member enquired whether CoG is satisfied with the information provided to the community or to CoG office. <ul style="list-style-type: none"> <li>○ CoG representative advised they are satisfied with both.</li> </ul> </li> <li>● CLG member commented that he does not agree with that statement.</li> <li>● CLG member stated that the CoG conditions clearly separates general construction work from 24/7 work. CLG member maintains that the conditions have failed the community and he wants that message delivered to both the CoG and Minister for Infrastructure.</li> <li>● CLG member requested that TJH look into their shift patterns to avoid ongoing work on Saturday and Sunday nights and Sunday during the day.</li> <li>● CLG member asked how many extra shifts have been introduced since the 24/7 work commenced. <ul style="list-style-type: none"> <li>○ TJH confirmed it is 3 shifts - Saturday night, Sunday and Sunday night</li> </ul> </li> <li>● CLG member requested that an additional shift be introduced on Saturdays and an extra shift on RDOs to replace the 24/7 work. CLG member commented that TJH should be looking outside of the square.</li> <li>● CLG member requested that CoG look into other ways to mitigate the impacts to the community. <ul style="list-style-type: none"> <li>○ CoG representative advised that she does not have the authority to take those requests back to the CoG. Process is to write to CoG directly.</li> </ul> </li> <li>● CLG facilitator advised that she will assist with submitting a formal letter to CoG office.</li> <li>● CLG member asked CNI whether a message can be sent to CoG through them. <ul style="list-style-type: none"> <li>○ CNI confirmed it could.</li> </ul> </li> <li>● CLG member requested that next time CoG representatives attend CLG meeting they be at a level where they can take issues raised back to the CoG for actioning.</li> <li>● CLG member asked whether CoG have been satisfied with TJH to date. <ul style="list-style-type: none"> <li>○ CoG representative advised the question was too open-ended.</li> </ul> </li> <li>● CLG member commented that they are afraid of what's coming next. The community doesn't know what else to expect.</li> <li>● CLG member commented that Wooloowin residents have been promised a range of things, but the Toombul community is seeing promises broken constantly – feel sorry for the Wooloowin community.</li> <li>● CLG member commented that the community can't trust anything that the CoG offers at the</li> </ul>

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	<p>moment.</p> <ul style="list-style-type: none"> <li>• CLG member reiterated the fact that the CLG members do not accept 24/7 work and asked TJH to review shift patterns as quickly as the shift was introduced. <ul style="list-style-type: none"> <li>○ TJH talked through the communication process for 24/7 work. Communications team were internally made aware of the proposal shortly before the October CLG meeting, CNI were advised, in a time not satisfactory to them. CLG were advised at the October meeting and members were informed of the process that TJH needed to go through to advise authorities. Meetings were then held with DERM and CoG. The community was then given 7 days notice prior to the start of work via a notification (which is not a requirement in the CoG conditions) and then held a number of one-on-one meetings with impacted residents.</li> </ul> </li> <li>• CLG member commented that at the last CLG meeting it was outright rejected by members and it was “sounded out” as an idea with no start date given. <ul style="list-style-type: none"> <li>○ TJH advised that the feedback received from a large section of the community has been that they don’t care about Sunday work as long as the project stops parking in local streets.</li> <li>○ TJH confirmed that no complaints were received on the weekend regarding the 24/7 work.</li> </ul> </li> <li>• CLG member believes that a concrete pour did not happen on Sunday so the full extent of the work wasn’t appreciated.</li> <li>• CLG member commented that the community is worn down which is why they’re not complaining. <ul style="list-style-type: none"> <li>○ TJH advised that the majority of people the project has spoken to have not had major issues with the work as long as it is managed appropriately.</li> <li>○ TJH confirmed that they have been proactively contacting directly affected community members to advise them of the upcoming work in advance of the notification and following up after the work to see how it went.</li> </ul> </li> <li>• CLG member commented that he feels the community is not represented at meetings where TJH approaches CoG about additional work activities. CLG member believes the CoG’s decisions continue to favour construction over the community. <ul style="list-style-type: none"> <li>○ CoG representative advised that the feedback provided tonight will help CoG to communicate with TJH and CNI. CoG representative confirmed that there is always openness of communication and CoG’s office will go back to CNI and ask if there are any alternative options to 24/7 work.</li> </ul> </li> <li>• CLG facilitator confirmed that she will send off the CLG member’s statement to CNI for forwarding on to the CoG. <ul style="list-style-type: none"> <li>○ CoG representative confirmed that nothing will change at this point in terms of work activities on site. 24/7 work will continue as planned. After consulting her colleague, the CoG representative stated she believed she could take the concerns back to higher authorities.</li> </ul> </li> </ul>
4.0	<p><b>Construction update – to December 09:</b></p> <ul style="list-style-type: none"> <li>• Diaphragm wall construction moving closer to Sandgate Road</li> <li>• Canopy tube installation underway west of railway line</li> <li>• CC410 excavation progressing deeper with installation of temporary props underway</li> <li>• TBM grout block at Lewis Street will be completed</li> <li>• Bored piling ongoing at Ventilation Station (just west of Sandgate Road)</li> <li>• Widening work for Sandgate Road bridge over Schulz Canal ongoing</li> <li>• Jacked box pit east of railway line will commence with a temporary piled end wall, followed by excavation and anchoring</li> <li>• Road embankment construction East-West Arterial Road east of Widdop St ongoing</li> <li>• New wall on north side of East-West Arterial Road between Sandgate Road and Widdop St in progress</li> </ul>

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	<ul style="list-style-type: none"> <li>• Flood mitigation work east of Widdop St will be completed</li> <li>• Work over Christmas:               <ul style="list-style-type: none"> <li>◦ Last day of work 23<sup>rd</sup> December, first day back 4<sup>th</sup> January</li> <li>◦ Skeleton crew on standby to deal with pumps and respond to rainfall events</li> </ul> </li> <li><b>Questions:</b></li> <li>• CLG member queried how long the rock will stay in the brook as a result of Sandgate Road work.               <ul style="list-style-type: none"> <li>◦ TJH confirmed the rock would remain until approximately February 2010</li> <li>◦ TJH noted that the work in the waterway is all approved by DPI</li> <li>◦ CNI advised that the flood modelling for the canal is based on a 100 year rain event. Noted that the bridges within the waterway are what really act as a hold point for water during a large rain event.</li> <li>◦ TJH advised that at final design, when the bridge is widened, there will still be a rock bed in the creek.</li> </ul> </li> <li>• CLG member queried whether the earth in the launch box is proving more difficult to remove than was anticipated?               <ul style="list-style-type: none"> <li>◦ TJH advised that the earth is as was always expected – soft.</li> </ul> </li> <li>• CLG member queried whether it includes any acid sulphate soils.               <ul style="list-style-type: none"> <li>◦ TJH confirmed that there are acid sulphate soils within the site, and these are treated according to appropriate guidelines.</li> </ul> </li> <li>• CLG member queried whether TJH is coming across rock in the excavation, as he believes he hears a rumble like rocks being dropped.               <ul style="list-style-type: none"> <li>◦ TJH confirmed they have not come across any rock in the launch box excavation as yet.</li> </ul> </li> </ul>
5.0	<p><b>TBM tunnelling update – to November 09</b></p> <p>Site mobilisation – November</p> <ul style="list-style-type: none"> <li>• Kalinga Park shed               <ul style="list-style-type: none"> <li>◦ Commencement of steel erection for bridge crane 23/11</li> </ul> </li> <li>• Site area               <ul style="list-style-type: none"> <li>◦ Relocation of hoarding and filling for TBM infrastructure (grout plant, water tank, water chiller and compressors)</li> </ul> </li> <li>• Conveyor               <ul style="list-style-type: none"> <li>◦ Commence screw piling for overland conveyor (late Nov)</li> </ul> </li> </ul> <p>Spoil conveyor and Nudgee Road facility</p> <ul style="list-style-type: none"> <li>• Spoil conveyor               <ul style="list-style-type: none"> <li>◦ Foundations/screw piling November to December 2009</li> <li>◦ Assembly preparation January 2010</li> <li>◦ Installation February to March 2010</li> </ul> </li> <li>• Nudgee Road               <ul style="list-style-type: none"> <li>◦ Clearing and grubbing November 2009</li> <li>◦ Piling and foundation works January to February 2010</li> <li>◦ Shed erection March 2010</li> <li>◦ Conveyor tripper installation April 2010</li> </ul> </li> </ul> <p>TBM manufacture - Germany</p> <ul style="list-style-type: none"> <li>• TBM 1               <ul style="list-style-type: none"> <li>◦ Shield components delivered to Kalinga Park by late November (currently expected 26-28 Nov).</li> <li>◦ Backup steelwork to be delivered to Nudgee Rd site</li> <li>◦ Assembly preparation commencing mid-January 2010</li> </ul> </li> <li>• TBM 2               <ul style="list-style-type: none"> <li>◦ Factory acceptance completed 28/10/09</li> <li>◦ Delivery to site mid-March 2010</li> </ul> </li> </ul> <p><b>Questions</b></p>

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	<ul style="list-style-type: none"> <li>• CLG member queried whether the TBM conveyor belt will be at surface level.               <ul style="list-style-type: none"> <li>○ TJH advised that the conveyor is inclined from inside the box up onto surface level.</li> </ul> </li> <li>• CLG member queried where the TBM cutter-head and tail will get welded together.               <ul style="list-style-type: none"> <li>○ TJH advised this will be done within an undercover area in the Kalinga Park site.</li> </ul> </li> <li>• CLG member queried whether the creek bed will be running at the end of Jackson Street.               <ul style="list-style-type: none"> <li>○ TJH advised the creek is running now, over the aqua-duct.</li> </ul> </li> <li>• CLG member stated that the area between the fence and the path in Kalinga Park has recently been absorbed into the site's work area.               <ul style="list-style-type: none"> <li>○ TJH advised that the area is part of the additional land acquired to serve as a laydown area for the TBM team.</li> </ul> </li> <li>• CLG member stated he has no recollection of that area ever being discussed.               <ul style="list-style-type: none"> <li>○ Action: CNI stated they would confirm arrangements for the use of this area</li> </ul> </li> <li>• CLG member stated that he believes the footprint of the work site has changed from the CoG's report.               <ul style="list-style-type: none"> <li>○ TJH advised that the piece of land has always been a part of the overall footprint and has been put to different uses.</li> </ul> </li> </ul>
6.0	<p><b>Environmental monitoring update:</b> Provided monthly update on noise and air quality monitoring results (see table at end of minutes for results).</p> <p><b>Questions:</b></p> <ul style="list-style-type: none"> <li>• CLG member queried what the dust baselines are according to CoG conditions?               <ul style="list-style-type: none"> <li>○ TJH advised that in areas where the existing dust fall out was 2mg, the TJH goal is 4mg. TJH work according to the air policy.</li> </ul> </li> <li>• CLG member advised that he believes dust is an issue, even if the monitoring results show that TJH is within the goals.               <ul style="list-style-type: none"> <li>○ TJH advised that dust management is undertaken across the project to stay within the goals. TJH appreciates that there will always be an impact on a construction project like this, which is why TJH employs dust management strategies and why there are goals in place.</li> <li>○ TJH advised that since he commenced on the project, the laws around levels of health dust (pm10) have changed, reducing to a third of what they once were. TJH still meets these reduced levels.</li> <li>○ TJH noted that the EPA also has monitors across the project alignment and their results consistently match TJH's own.</li> </ul> </li> <li>• CLG member queried whether the noise in the area is categorized as R1-3.               <ul style="list-style-type: none"> <li>○ TJH advised the category is R4-6 due to the road and rail corridor.</li> <li>○ Heggies confirmed that he also concurs with the R4-6 categorisation as all forms of transport must be considered including road and rail.</li> </ul> </li> <li>• CLG member stated that he would agree with that categorisation during the day when the trains run frequently, but not during the night when they don't run very often.               <ul style="list-style-type: none"> <li>○ CNI advised that the rail is still very busy at night, evidenced by the fact that it took up to 11 months for TJH to get a night time closure of the line from QR as it is their busiest route for northbound and freight rail traffic.</li> </ul> </li> <li>• CLG member stated that when the CLG was told that TJH would be working at night, it was to be only with limited use of heavy machinery, not the large cranes and other equipment being used now. He suggested that the reasons shown in the presentation for exceedances in night works, were all activities the CLG had been advised would not take place when nightworks were announced               <ul style="list-style-type: none"> <li>○ CNI advised that the CoG report does not nominate specific activities or equipment, only maximum noise levels.</li> <li>○ CNI advised that specific work activities are only mentioned under special circumstances</li> </ul> </li> </ul>

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	<p>work, which is different again.</p> <ul style="list-style-type: none"> <li>CLG member stated that the CoG conditions refer to maintaining a normal lifestyle. Questions how normal it is to have every window and door shut in his home seven days per week.</li> </ul>
7.0	<p><b>Kalinga Park ambient noise levels – from EIS</b> Provided Kalinga Park ambient noise levels taken from EIS document (see table at end of minutes for results).</p> <p><b>Questions:</b></p> <ul style="list-style-type: none"> <li>CLG member queried when the noise readings were taken? <ul style="list-style-type: none"> <li>SE advised they were taken during late November and early December 2005.</li> </ul> </li> <li>CLG member stated that he has seen baseline noise levels recorded that are lower than what the EIS results state. <ul style="list-style-type: none"> <li>SE advised that this is possible. The results just presented did not include the absolute minimum (Lmin) results, but rather the lowest 10 percentile of the readings.</li> <li>CNI advised that the readings just presented are external readings, so will differ to the environmental monitoring done presently, which is undertaken internally.</li> </ul> </li> <li>CLG member stated that the readings seem to imply that work has quietened down, which seems unlikely. <ul style="list-style-type: none"> <li>Heggies advised that he was out in the Kalinga Park area on Sunday night (first night of 24/7 work) and witnessed background noise results at or above the levels indicated in the EIS.</li> </ul> </li> <li>CLG member enquired about how the conditions fit in terms of the background noise plus a maximum value. <ul style="list-style-type: none"> <li>Heggies talked through CoG goals for daytime and night time noise – as described in the monthly monitoring data.</li> </ul> </li> </ul>
8.0	<p><b>Railway Underpass work overview:</b> Provided video animation of railway underpass work staging.</p> <p><b>Questions:</b></p> <ul style="list-style-type: none"> <li>CLG member enquired whether there would be another crane erected in Kalinga Park on the western side of the railway line. <ul style="list-style-type: none"> <li>TJH confirmed there would be another crane installed at that location later this month.</li> </ul> </li> <li>CLG member enquired how many cranes in total will there be through Kalinga Park. <ul style="list-style-type: none"> <li>TJH confirmed there would be up to six cranes located on the western side of the railway line.</li> </ul> </li> <li>CLG member enquired how long it will take to complete the railway under pass work. <ul style="list-style-type: none"> <li>TJH advised work will be complete in December 2010 with the boxes pushed through in Sept/Oct 2010.</li> </ul> </li> </ul>
9.0	<p><b>Community Relations review:</b></p> <ul style="list-style-type: none"> <li>Community complaints and enquiries/issues received via the project hotline and email during September 2009: <ul style="list-style-type: none"> <li>Complaints = 50</li> <li>Enquiries/issues = 44</li> </ul> </li> <li>Four notifications were distributed in Toombul in October including: <ul style="list-style-type: none"> <li>October monthly construction update</li> <li>Jackson Street sewer work</li> <li>Kalinga Park, Lewis Street, Jackson Street sewer work complete</li> <li>Kalinga Park work activities update (24/7 work)</li> </ul> </li> <li>Total of 3,675 flyers</li> <li>Community relations activities during October 2009 included: <ul style="list-style-type: none"> <li>Coffee Morning in Kalinga Street for local residents on Saturday 31<sup>st</sup> October</li> <li>10 local residents attended</li> </ul> </li> </ul>

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10.0	<p><b>General business:</b></p> <p>TJH requested more clarity from CLG members around what drawings/maps they would like access to as design drawings are very difficult to read and understand.</p> <ul style="list-style-type: none"> <li>● CLG member requested design drawings on landscaping and remediation               <ul style="list-style-type: none"> <li>○ TJH confirmed they will look to bring some next month.</li> </ul> </li> <li>● CLG member requested a tunnel alignment map overlaid on satellite imagery and design drawings of the VSO               <ul style="list-style-type: none"> <li>○ TJH advised they would bring such information as it is available.</li> </ul> </li> </ul>
10.0	<p><b>Next meeting:</b></p> <ul style="list-style-type: none"> <li>● Next meeting: Tuesday 8 December 6pm – 8pm Centro Toombul training room.</li> <li>● No meeting to be held in January due to Christmas holidays.</li> </ul>

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## October Monthly Environmental Monitoring Results

Toombul Construction Air Quality Monitoring – October Results			
Location	Measured Air Quality PM10 µ/m3	EPP (Air) 24gr Average PM10 µ/m3	Monitoring Period
68 Kalinga Street	36.2	50	13/10/2009
68 Kalinga Street	37.2	50	14/10/2009
68 Kalinga Street	21.6	50	15/10/2009
68 Kalinga Street	21.5	50	16/10/2009
68 Kalinga Street	21.6	50	17/10/2009
68 Kalinga Street	21.5	50	18/10/2009
68 Kalinga Street	17.1	50	19/10/2009
68 Kalinga Street	17.9	50	20/10/2009
68 Kalinga Street	13.2	50	21/10/2009
68 Kalinga Street	11.4	50	22/10/2009
68 Kalinga Street	13.2	50	23/10/2009
68 Kalinga Street	10.7	50	24/10/2009
68 Kalinga Street	17.6	50	25/10/2009
68 Kalinga Street	18.7	50	26/10/2009
68 Kalinga Street	13.5	50	27/10/2009
68 Kalinga Street	14.7	50	28/10/2009
68 Kalinga Street	12.9	50	29/10/2009
68 Kalinga Street	10.6	50	30/10/2009
68 Kalinga Street	9.4	50	31/10/2009
68 Kalinga Street	6.6	50	1/11/2009
68 Kalinga Street	6.5	50	2/11/2009
68 Kalinga Street	6.4	50	3/11/2009
68 Kalinga Street	16.5	50	4/11/2009
68 Kalinga Street	17.5	50	5/11/2009
68 Kalinga Street	18.5	50	6/11/2009
68 Kalinga Street	14.9	50	7/11/2009
68 Kalinga Street	15.3	50	8/11/2009
Kalinga Park adj Alma Road	12.9	50	8/10/2009
Kalinga Park adj Alma Road	21.5	50	9/10/2009
Kalinga Park adj Alma Road	5.4	50	10/10/2009
Kalinga Park adj Alma Road	0.4	50	11/10/2009
Kalinga Park adj Alma Road	49.3	50	12/10/2009
Kalinga Park adj Alma Road	33.7	50	13/10/2009
Kalinga Park adj Alma Road	55.9	50	14/10/2009
Kalinga Park adj Alma Road	33.1	50	15/10/2009
Kalinga Park adj Alma Road	13.8	50	22/10/2009
Kalinga Park adj Alma Road	12.8	50	23/10/2009
Kalinga Park adj Alma Road	14.3	50	24/10/2009
Kalinga Park adj Alma Road	15.7	50	25/10/2009
Kalinga Park adj Alma Road	18.7	50	26/10/2009
Kalinga Park adj Alma Road	18.1	50	27/10/2009
Kalinga Park adj Alma Road	20.9	50	28/10/2009
Kalinga Park adj Alma Road	18.6	50	29/10/2009
Kalinga Park adj Alma Road	18.0	50	30/10/2009
Kalinga Park adj Alma Road	17.6	50	31/10/2009
Kalinga Park adj Alma Road	24.8	50	2/11/2009

# MINUTES OF MEETING

Meeting Number 14

CLG	Toombul Community Liaison Group				
Location:	Centro Toombul Training Room	Date:	10 November 09	Time:	6:00pm

Toombul Construction Air Quality Monitoring – October Results			
Kalinga Park adj Alma Road	27.8	50	3/11/2009
Kalinga Park adj Alma Road	31.9	50	4/11/2009
Kalinga Park adj Alma Road	32.6	50	5/11/2009
Kalinga Park adj Alma Road	24.5	50	6/11/2009
Kalinga Park adj Alma Road	21.8	50	7/11/2009
Kalinga Park adj Alma Road	21.0	50	8/11/2009

Note: The high level recorded on the 14/10/2009 at Kalinga Park adj Alma Road can be attributed to an abnormal peak of atmospheric dust levels recorded in Brisbane. The EPA Air Quality Monitoring Station located in the CBD received results as high as 120g/m<sup>2</sup> throughout the 14th and 15th of October.

### Current month (Oct):

Location	Measured Air Quality TSP - g/m <sup>2</sup>	COG Goal TSP - g/m <sup>2</sup>	Monitoring Period
Kalinga Street	6.3	4	21/09/09 – 21/10/09
Kalinga Park Adj Alma Road	6.5	4	21/09/09 – 21/10/09
Toombul Indoor Sports – Bage Street*	2.5	4	21/09/09 – 21/10/09

### Previous month (Sept):

Location	Measured Air Quality TSP - g/m <sup>2</sup>	COG Goal TSP - g/m <sup>2</sup>	Monitoring Period
Kalinga Street	2.4	4	21/8/09 – 21/9/09
Kalinga Park Adj Alma Road	3.7	4	21/8/09 – 21/9/09
Toombul Indoor Sports – Bage Street*	1.2	4	21/8/09 – 21/9/09

Note: The increased levels over the September/October monitoring period can be primarily attributed to an abnormal series of elevated atmospheric dust levels that swept through Brisbane during this period. The increase from the previous month is 3.9 g/m<sup>2</sup>/month (Kalinga) and 2.8 g/m<sup>2</sup>/month (Kalinga Park Adj Alma). The increase at the Toombul Indoor Sports Complex is 1.2 g/m<sup>2</sup>/month to 2.5 g/m<sup>2</sup>/month – this location still met the COG Goal

Toombul Construction Noise Monitoring (Day Time) – October Results							
Location	Measured Noise Laeq	COG Goal Laeq	Measured Noise LA10	COG Goal LA10	Monitoring Period	Type	Comments
70 Kalinga St	33.6	45	34.1	55	26/10/2009 8:07-8:21am	Internal Attended	Monitoring indicates CoG goals are being met.
	32.9	45	36.0	55	26/10/2009 11:01-11:15am	Internal Attended	
	38.6	45	39.3	55	26/10/2009 2:58-3:12am	Internal Attended	
82 Elliott St	46.2	45	47.2	55	29/10/2009 1:43-1:57pm	Internal Attended	Windows open at request of resident. Exceedences as a result of TJH and external sources.
	44.8	45	45.1	55	29/10/2009 2:02-2:16pm	Internal Attended	Monitoring indicated CoG goals are being met.
Parkside Apartments, Level 6	43.1	45	43.5	55	30/10/2009 10:00-10:15am	Internal Attended	Monitoring indicates that COG Goals are being met.
	43.2	45	43.6	55	30/10/2009 10:20-10:35am	Internal Attended	

# MINUTES OF MEETING

Meeting Number 14

CLG	Toombul Community Liaison Group				
Location:	Centro Toombul Training Room	Date:	10 November 09	Time:	6:00pm

Location	Measured Noise Laeq	COG Goal Laeq	Measured Noise LA10	COG Goal LA10	Monitoring Period	Type	Comments
70 Kalinga Street	42.7	45	43.1	55	30/10/2009 1:36-1:51pm	Internal Attended	
	42.8	45	43.2	55	30/10/2009 1:56-2:11pm	Internal Attended	
	45.9	40	46.2	50	2/11/2009 8:07-8:21am	Internal Attended	Exceedences as a result of TJH and external sources.
70 Kalinga Street	36.7	40	37.1	50	2/11/2009 1:23-1:37pm	Internal Attended	Monitoring indicates that COG goals are being met.
	46.4	40	46.7	50	2/11/2009 2:04-2:18pm	Internal Attended	Exceedences as a result of TJH and external sources.
33 Kalinga Street	44.2	40	44.7	50	2/11/2009 10:18-10:32am	Internal Attended	Exceedences as a result of TJH and external sources. A truck not associated with the project was idling outside the address where monitoring was undertaken – this elevated noise levels.
	49.5	40	49.4	50	2/11/2009 1:47-2:01pm	Internal Attended	Exceedences as a result of TJH and external sources. Elevated noise levels can largely be attributed to noise from mowing of lawn.
	43.6	40	44.0	50	2/11/2009 2:27-2:41pm	Internal Attended	Exceedences as a result of TJH and external sources.

## Toombul Construction Noise Monitoring (Night Time) – October Results

Location	Measured Noise Laeq	COG Goal Laeq	Measured Noise LA10	COG Goal LA10	Monitoring Period	Type	Comments
68 Kalinga Street	39.5	40	63.0	50	20/10/2009	Internal Attended	Noise sources - crane, saw, reversing beeper, air compressor, banging, bell skip.
	40.8	40	60.8	50	22/10/2009	Internal Attended	Noise sources - crane, bell skip, loader, drill, banging, train.
	40.5	40	65.8	50	23/10/2009	Internal Attended	Noise sources - crane, bell skip, banging, hose, grinder, radio, crane.
70 Kalinga Street	38.8	40	39.2	50	26/10/2009 23:50 -00:06	Internal Attended	Noise sources included: Heavy Rain, General construction works stopped during this period.
33 Kalinga Street	32.5	40	43.1	50	7/11/2009	Internal Attended	Monitoring indicated that COG goals are being met.
	32.7	40	42.1	50	7/11/2009	Internal Attended	

# MINUTES OF MEETING

Meeting Number 14

CLG	Toombul Community Liaison Group				
Location:	Centro Toombul Training Room	Date:	10 November 09	Time:	6:00pm

44 Lewis Street	31.7	40	42	50	7/11/2009	Internal Attended	Monitoring indicates that COG goals are being met.
33 Kalinga Street	31.5	40	46.2	50	8/11/2009	Internal Attended	Monitoring indicates that COG goals are being met.
	32.2	40	43.1	50	8/11/2009	Internal Attended	
44 Lewis Street	28.9	40	51.3	50	8/11/2009	Internal Attended	LAmx caused by noise from a Gecko in the house.
	31.4	40	50.8	50	8/11/2009	Internal Attended	LAmx caused by banging of the crane.
Elliot Street	34.0*	40	43.0*	50	5/11/2009	External Attended	Monitoring indicated that COG goals are being met.
	34.7*	40	43.0*	50	5/11/2009	External Attended	

Note: \*10 dba reduction to account for property attenuation

## Kalinga Park Ambient Noise Levels – extracted from EIS

Table 16: Prevailing (Observed) Noise Sources			
Ref	Description	Dominant Daytime Noise Sources	Dominant Noise Sources Late at Night
1	Rear landing, detached dwelling at 30 Wongara Street, Clayfield, logger located on upper (2nd) storey, includes a facade reflection, facing East-West Arterial Road (behind noise barriers)	East West Arterial Road traffic	East West Arterial Road traffic
2	Rear yard, detached dwelling at 86 Alma Road, Clayfield	Sandgate Road traffic, North Coast Line and Air Train rail traffic Sandgate Road	Traffic, North Coast Line and Air Train rail traffic, insects
3	Southern property boundary facing parkland, detached dwelling at 27 Parkland Street, Nundah	Sandgate Road traffic, North Coast Line and Air Train rail traffic, construction work	Sandgate Road traffic, North Coast Line and Air Train rail traffic
4	Rear yard, eastern property boundary, detached dwelling at 72 Kalinga Street, Clayfield	Sandgate Road traffic, North Coast Line and Air Train rail traffic	Sandgate Road traffic, North Coast Line and Air Train rail traffic, insects

# MINUTES OF MEETING

Meeting Number 14

CLG	Toombul Community Liaison Group				
Location:	Centro Toombul Training Room	Date:	10 November 09	Time:	6:00pm

**Table 17: Existing Noise Levels - LAmax Parameter**

Ref	Address	Description	Day 6am – 6pm	Evening 6pm – 10pm	Night 10pm – 6am
1	30 Wongara Street, Clayfield	Rear landing, detached dwelling at 30 Wongara Street, Clayfield, logger located on upper (2nd) storey, includes a facade reflection, facing East-West Arterial Road (behind noise barriers)	76 (5.3)	71 (5.0)	64 (6.1)
2	86 Alma Road, Clayfield	Rear yard, detached dwelling at 86 Alma Road, Clayfield	70 (3.4)	69 (3.2)	66 (4.5)
3	Parkland Street, Nundah	Southern property boundary facing parkland, detached dwelling at 27 Parkland Street, Nundah	79 (3.8)	81 (4.2)	65 (9.5)
4	72 Kalinga Street, Clayfield	Rear yard, northern property boundary, detached dwelling at 72 Kalinga Street, Clayfield	72 (3.9)	70 (4.7)	62 (7.7)

**Table 18: Existing Noise Levels - LA10 Parameter**

Ref	Address	Description	LA10 Levels + (standard deviation)		
			Day 6am – 6pm	Evening 6pm – 10pm	Night 10pm – 6am
1	30 Wongara Street, Clayfield	Rear landing, detached dwelling at 30 Wongara Street, Clayfield, logger located on upper (2nd) storey, includes a facade reflection, facing East-West Arterial Road (behind noise barriers)	60 (3.4)	59 (58.5)	49 (3.0)
2	86 Alma Road, Clayfield	Rear yard, detached dwelling at 86 Alma Road, Clayfield	61 (3.2)	61 (61.2)	59 (1.8)
3	Parkland Street, Nundah	Southern property boundary facing parkland, detached dwelling at 27 Parkland Street, Nundah	63 (2.6)	61 (4.5)	50 (4.5)
4	72 Kalinga Street, Clayfield	Rear yard, northern property boundary, detached dwelling at 72 Kalinga Street, Clayfield	55 (3.0)	57 (6.7)	48 (3.5)

**Table 19: Existing Noise Levels - LAeq Parameter**

Ref	Address	Description	LAeq Levels + (standard deviation)		
			Day 6am – 6pm	Evening 6pm – 10pm	Night 10pm – 6am

# MINUTES OF MEETING

Meeting Number 14

CLG	Toombul Community Liaison Group				
Location:	Centro Toombul Training Room	Date:	10 November 09	Time:	6:00pm

1	30 Wongara Street, Clayfield	Rear landing, detached dwelling at 30 Wongara Street, Clayfield, logger located on upper (2nd) storey, includes a facade reflection, facing East-West Arterial Road (behind noise barriers)	59 (2.7)	61 (59.8)	48 (3.3)
2	86 Alma Road, Clayfield	Rear yard, detached dwelling at 86 Alma Road, Clayfield	59 (2.9)	60 (60.4)	58 (1.6)
3	Parkland Street, Nundah	Southern property boundary facing parkland, detached dwelling at 27 Parkland Street, Nundah	62 (2.3)	62 (62.1)	52 (5.9)
4	72 Kalinga Street, Clayfield	Rear yard, northern property boundary, detached dwelling at 72 Kalinga Street, Clayfield	54 (2.5)	59 (5.6)	49 (3.8)

**Table 20: Existing Noise Levels - LA90 Parameter**

Ref	Address	Description	LA90 Background Levels + (standard deviation)		
			Day 6am – 6pm	Evening 6pm – 10pm	Night 10pm – 6am
1	30 Wongara Street, Clayfield	Rear landing, detached dwelling at 30 Wongara Street, Clayfield, logger located on upper (2nd) storey, includes a facade reflection, facing East-West Arterial Road (behind noise barriers)	49 (2.2)	50 (4.0)	40 (2.8)
2	86 Alma Road, Clayfield	Rear yard, detached dwelling at 86 Alma Road, Clayfield	47 (4.5)	55 (2.4)	55 (3.2)
3	Parkland Street, Nundah	Southern property boundary facing parkland, detached dwelling at 27 Parkland Street, Nundah	53 (3.1)	50 (4.8)	42 (3.0)
4	72 Kalinga Street, Clayfield	Rear yard, northern property boundary, detached dwelling at 72 Kalinga Street, Clayfield	45 (2.5)	48 (5.0)	41 (2.3)