



*Major Transport Projects Facilitation Act 2009*

# **East West Link (Eastern Section) Project**

**Assessment Committee Report**

**Volume 2 – Appendices**

**30 May 2014**



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## **Appendix A: Terms of Reference**



## EAST WEST LINK (EASTERN SECTION) PROJECT

### ASSESSMENT COMMITTEE APPOINTED UNDER SECTIONS 35 AND 235 OF THE MAJOR TRANSPORT PROJECTS FACILITATION ACT 2009

The Assessment Committee has been appointed under sections 35 and 235 of the *Major Transport Projects Facilitation Act 2009* (**the Act**) to assess the Comprehensive Impact Statement (**CIS**) for the East West Link (Eastern Section) Project (**the project**), and to make recommendations to the Minister for Planning (**the Minister**) whether or not to grant any applicable approval required for the project to be developed and if so to recommend appropriate conditions for applicable approvals. The Terms of Reference set out below have been prepared with consideration of the time requirements under the Act.

### TERMS OF REFERENCE

#### 1. TASK

Subject to these Terms of Reference, which are made under section 36 of the Act, the Assessment Committee has all the powers, functions and discretions conferred on an Assessment Committee under Parts 3 and 8 of the Act for the purposes of the project.

In accordance with section 36 of the Act, the Minister directs the Assessment Committee to undertake the following tasks

- (1) Prepare a summary of all public submissions made to the Assessment Committee regarding the CIS.
- (2) Prepare an Assessment Committee Recommendation in accordance with section 73 of the Act, supported by a report that evaluates all applicable law criteria for applicable law approvals sought for the project.
- (3) In preparing the Assessment Committee Recommendation and report, the Assessment Committee is directed to:
  - (a) assess the CIS in accordance with the Act, subject to these terms of reference
  - (b) consider the alignment, design and performance requirements for the project that may be implemented within the project boundary identified in Figure 1 (dated 2 October 2013) of the Mapbook in the CIS
  - (c) make recommendations as to appropriate conditions to be attached to any applicable law approvals: such conditions are to include conditions to address the environmental and urban design performance of the project, having regard to opportunities to manage environmental and urban design outcomes through contractual arrangements that the State may enter into, as outlined in the CIS.

## 2. PROCEDURE

The Assessment Committee is to adopt the following procedure, consistent with the provisions of the Act:

- (1) Commence its investigations from the date of receiving these Terms of Reference.
- (2) Consider:
  - the exhibited CIS
  - all properly made submissions made to the Assessment Committee relating to the CIS
  - any advice received from an applicable law decision-maker under section 65 of the Act
  - any information requested from a person or applicable law decision-maker under section 245(2) of the Act
  - other relevant information either provided to or obtained by the Assessment Committee that is necessary for the Assessment Committee to provide its Assessment Committee Recommendation and report in accordance with paragraphs 1(2) and 1(3) of these Terms of Reference.
- (3) Conduct an information session, preferably during the exhibition of the CIS, at which the proponent and its technical advisers outline the content of the CIS for the Assessment Committee, to which the public may at the discretion of the Assessment Committee be invited.
- (4) Make any request to the proponent in accordance with section 57(4) within 20 business days after the end of the public exhibition period for the CIS. The proponent's response to this request is to be provided within 20 business days of the Assessment Committee's request. Both the Assessment Committee's request and the proponent's response to it are to be published in a timely manner on a website accessible by the public. The Assessment Committee may permit submitters appearing before the Assessment Committee to address issues arising from the proponent's response to the Assessment Committee's request.
- (5) Conduct a Preliminary Hearing, in accordance with section 57 of the Act, for the purposes described in section 57(1). At the Preliminary Hearing the Assessment Committee may:
  - (a) outline the matters or further information (if any) that the Assessment Committee intends to request the proponent to address in accordance with section 57(4) of the Act
  - (b) provide appropriate directions to submitters and the proponent regarding the conduct of the Public Hearing, including any expert evidence that the Assessment Committee wishes to appear before it
  - (c) request the proponent, agencies and any submitter to provide information that may be required to assist the Assessment Committee to formulate a timetable for its Public Hearing, including a schedule for presentations by submitters and agencies and any expert evidence.



- (6) Commence a Public Hearing within 15 business days of the date by which the proponent's response to any request from the Assessment Committee under section 57(4) is to be provided.
- (7) Conduct a Public Hearing, in accordance with Division 2 of Part 8 of the Act, to hear properly made submissions confined to the following matters.

**Public Hearing Matters**

- (a) Whether the impacts of the project on the traffic performance of roads connecting to the project, and the surrounding road network, as well as on connectivity for public transport, cycling and pedestrians, have been appropriately addressed.
  - (b) Whether the impacts of the project on land use and infrastructure in its immediate environs, including on housing, recreation and community facilities, have been appropriately addressed.
  - (c) Whether the proposed Urban Design Framework in the CIS will appropriately manage visual impacts of the project on the surrounding area, including public open spaces.
  - (d) Whether the noise, vibration, air emission and light spill impacts of the project will be appropriately managed by proposed measures.
  - (e) Whether the impacts of the project on cultural heritage places have been appropriately addressed.
  - (f) Whether the impacts of the project on surface and ground waters have been appropriately addressed.
  - (g) Whether the impacts of the project on native vegetation and biodiversity have been appropriately addressed.
  - (h) Whether the risk from disturbance and disposal of solid wastes has been appropriately addressed.
  - (i) Whether the Environmental Management Framework in the CIS will provide an effective integrated approach to manage the environmental performance of the project.
- (8) At the discretion of the Assessment Committee, seek written or verbal information or advice from such experts or specialists, or retain the services of such experts or specialists, as the Assessment Committee considers would assist it to meet its purpose and carry out its functions. Any such information or advice must be publicly disclosed (unless it is of a confidential nature). Any associated costs and expenses are to be recoverable from the proponent in accordance with section 253 of the Act.
  - (9) At the discretion of the Assessment Committee, to retain legal counsel to assist the Assessment Committee to meet its purpose and carry out its functions. Any legal counsel appointed may assist in the questioning of witnesses, as required. Any associated costs and expenses are to be recoverable from the proponent in accordance with section 253 of the Act.
  - (10) To make available on a publicly accessible website all submissions, expert evidence, major presentations, the Hearing timetable and other information relevant to the Public Hearing.

## Conduct of Hearings

The Assessment Committee must conduct its Public Hearing in accordance with Division 2 of Part 8 of the Act and in accordance with the following directions.

- (1) The conduct of the Public Hearing is to be managed by the Chairperson or the presiding member nominated by the former. The Chairperson or presiding member may regulate proceedings in a manner that he/she considers appropriate to best allow the Assessment Committee to inform itself, and may give directions as to the conduct of the Public Hearing.
- (2) In scheduling the Public Hearing, the Assessment Committee is to provide any submitter a reasonable opportunity to make submissions on a Public Hearing Matter, having regard to both its task and time requirements under the Act.
- (3) The form of the presentation of any submissions which the Assessment Committee will be provided with may be the subject of direction by the Assessment Committee.
- (4) Questioning of submitters and any expert witnesses is to be controlled, and conducted primarily, by the Assessment Committee. At its discretion the Assessment Committee may accept questions received either verbally or in writing from participants at the Public Hearing. The Assessment Committee may prohibit or regulate such cross-examination if it considers that it is necessary or appropriate to do so in order to assist it to undertake its task.
- (5) The proponent must be given an opportunity to respond to submissions made during the Public Hearing at the conclusion of the Public Hearing.

### 3. TECHNICAL AND ADMINISTRATIVE SUPPORT

Planning Panels Victoria is to provide administrative support to the Assessment Committee. The Assessment Committee may also engage additional technical and administrative support.

### 4. FEES

The members of the Assessment Committee will receive the same fees and allowances as prescribed for a Panel appointed under Division 1 of Part 8 of the *Planning and Environment Act 1987*.

APPROVED: 

**MATTHEW GUY MLC**  
**Minister for Planning**

DATE:

## **Appendix B: List of Submitters**



| Sub. No. | Surname      | First name    | Organisation           |
|----------|--------------|---------------|------------------------|
| 1        | Tandora      | Michael       |                        |
| 2        | Stock        | Petra         |                        |
| 3        | Akehurst     | Jeff          | Glen Eira City Council |
| 4        | Lewis        | Adam          |                        |
| 5        | Douglas      | Paul          |                        |
| 6        | Rymer        | Burnie        |                        |
| 7        | Rankin       | Gregory       |                        |
| 8        | Jarvis       | C E           |                        |
| 9        | Ng           | Margaret      |                        |
| 10       | Rankin       | Gregory       |                        |
| 11       | Rankin       | Gregory       |                        |
| 12       | Pilkington   | Daniel        |                        |
| 13       | Wilkinson    | Michael       |                        |
| 14       | Manifold     | Marion        |                        |
| 15       | Vulin        | Julie         |                        |
| 16       | Pearl        | Maureen       |                        |
| 17       | Fisher       | Amity         |                        |
| 18       | Sambrook     | Gareth        |                        |
| 19       | Liston       | Bernadette    |                        |
| 20       | Bentley      | John          |                        |
| 21       | O'Donnell    | Jennifer      |                        |
| 22       | Assan        | Eugene Baiden |                        |
| 23       | Freeland     | Peter         |                        |
| 24       | Roberts      | Simon         |                        |
| 25       | Luckins      | Tanja         |                        |
| 26       | McClaren     | Andrew        |                        |
| 27       | Confidential |               |                        |
| 28       | Lovering     | Adam          |                        |
| 29       | McLean       | Robert        |                        |

|    |                 |                  |                           |
|----|-----------------|------------------|---------------------------|
| 30 | Taylor          | Hamish           |                           |
| 31 | Minicucci       | Daniela          |                           |
| 32 | Kershaw         | Pam              |                           |
| 33 | Hutson          | Betsa            |                           |
| 34 | Endean          | Raymond          |                           |
| 35 | Isaac           | Eve              |                           |
| 36 | McLeish         | Anne             | Grandparents Victoria Inc |
| 37 | Thwaites        | Michael Jonathan |                           |
| 38 | Bohan,Salvado   | Cindy & Trevor   |                           |
| 39 | Kalina          | Paul             |                           |
| 40 | Genc            | Sevgi            |                           |
| 41 | Teague          | Julie A          |                           |
| 42 | Gallagher       | Suzette          |                           |
| 43 | Frith           | Denis            |                           |
| 44 | McGaw           | Janet            |                           |
| 45 | Burton          | Liz              |                           |
| 46 | Petinos         | Jennifer         |                           |
| 47 | Petinos         | Peter            |                           |
| 48 | Oaten           | Roderick S V     |                           |
| 49 | Virgona,O'Toole | Crina & Nancy    |                           |
| 50 | Ingram          | Lisa             |                           |
| 51 | Rost            | Hendrik          |                           |
| 52 | Johns           | Kirsty           |                           |
| 53 | Flanagan        | Peter            |                           |
| 54 | Sinclair        | Paul             | Youlden Parkville CC      |
| 55 | Menis           | Frank            | RJFA Nominees             |
| 56 | Ray             | Darren           |                           |
| 57 | Kojic           | Vasvija          |                           |
| 58 | Jacob           | Ashok            | Mar Thoma Syrian Church   |

|    |               |                   |                                |
|----|---------------|-------------------|--------------------------------|
| 59 | Stewart       | Graeme            |                                |
| 60 | Page          | Christopher/Fiona |                                |
| 61 | Thom          | Lessa             |                                |
| 62 | Strasser      | Andreas           |                                |
| 63 | Yesuf         | Huda Mahadi       |                                |
| 64 | Mack          | Ian               |                                |
| 65 | Howden        | Nick              |                                |
| 66 | Hofer         | Karen             |                                |
| 67 | Stefanou      | Tony              |                                |
| 68 | Keel          | Monique           |                                |
| 69 | Cicala        | Robert            |                                |
| 70 | Cicala        | Claire            |                                |
| 71 | Halkin        | Janet             |                                |
| 72 | Allen         | Fred              |                                |
| 73 | Kahn          | Alec              | Mercantile Cricket Association |
| 74 | Angelis       | Jeremy            |                                |
| 75 | McKay         | Eric H            |                                |
| 77 | Allard        | Nicole            |                                |
| 78 | Jackson       | Mal               |                                |
| 79 | Rice          | Janet             |                                |
| 80 | Cusack, Avery | Julia & Steven    |                                |
| 81 | Bilby         | Chris             |                                |
| 82 | Heverin       | Greg              | Provans Timber & Hardware      |
| 83 | Taylor        | Wendy             |                                |
| 84 | Dowd          | Kylie             |                                |
| 85 | Johnson       | Josephine         |                                |
| 86 | Ethell        | Linda             |                                |
| 87 | Gordon        | Giovanna          |                                |
| 88 | Payton        | David Albert      |                                |
| 89 | Higgs         | Peter             |                                |

|     |                |              |   |
|-----|----------------|--------------|---|
| 90  | Martin         | Kerry        |   |
| 91  | Dwyer          | Chris        |   |
| 92  | Iser           | Rose         |   |
| 93  | Dobson         | Graeme       |   |
| 94  | Williams       | Jennifer     |   |
| 95  | Rogers         | Tony         | Parkville Gardens Residents Association |
| 96  | McCaw          | Douglas      |   |
| 97  | Thomas         | Sarah        |   |
| 98  | Gunn           | Meredith     |   |
| 99  | Cusack         | Brendan      |   |
| 100 | Harding        | Peter        |   |
| 101 | McKenzie       | Simon        |   |
| 102 | Roy            | Dr. S.       |   |
| 103 | Wynn-MacKenzie | Karen        |   |
| 104 | McHardy        | Pamela       |   |
| 105 | Smith          | Helen        |   |
| 106 | Greenbaum      | Geoffrey     |   |
| 107 | Fennell        | Naomi        |   |
| 108 | Green          | Dennis       |   |
| 109 | Petit          | Michael      |   |
| 110 | Trippas        | Johanne      |   |
| 111 | Unkles         | William      |   |
| 112 | Aplin          | Greg & Carol |   |
| 113 | Hooper         | Christine    |   |
| 114 | Pepper         | Susan        |   |
| 115 | Rubens         | Fleur        |   |
| 116 | O'Malley       | Joan         |   |
| 117 | Tregonning     | Mark         |   |
| 118 | Jungwirth      | Margaret     |   |
| 119 | Bradbeer       | Margaret     |   |

|            |                |                       |  |
|------------|----------------|-----------------------|--|
| <b>120</b> | Bocquet        | Stephen               |  |
| <b>121</b> | George         | Robert                | Owners Corporation 18 Lennon St Parkville 3052 |
| <b>122</b> | Pisano         | Francesca             |  |
| <b>123</b> | Vigus          | Ruth                  |  |
| <b>124</b> | Lowe           | Ralph                 |  |
| <b>125</b> | McQuilten      | Mark                  |  |
| <b>126</b> | Manzie         | Graeme                |  |
| <b>127</b> | Hunt           | Yvonne                |  |
| <b>128</b> | Sabato         | Antony & Josephine    |  |
| <b>129</b> | Baker          | Peter                 |  |
| <b>130</b> | Edmonds        | Joseph                |  |
| <b>131</b> | Howden         | Emma                  |  |
| <b>132</b> | Beckett        | Alexis                |  |
| <b>133</b> | Ashton Lomax   | Giulian               |  |
| <b>134</b> | Brumm          | Andrew                |  |
| <b>135</b> | Sinha          | Jogendra & Poonamrani |  |
| <b>136</b> | Burrows        | Roy                   |  |
| <b>137</b> | Ingleton       | Roxane                |  |
| <b>138</b> | Emslie         | Dianne                |  |
| <b>139</b> | Lewicki        | Chris                 |  |
| <b>140</b> | Gray           | Dr Stephen            |  |
| <b>141</b> | Lebetzis       | Amalia                |  |
| <b>142</b> | Isakson        | Meredith              |  |
| <b>143</b> | Flinn, Schultz | Bernard & Amina       |  |
| <b>144</b> | Padgham        | Lin                   |  |
| <b>145</b> | Slota-Kan      | Dr Simon              |  |
| <b>146</b> | Noonan         | Kate                  |  |

|            |                     |              |                                     |
|------------|---------------------|--------------|-------------------------------------|
| <b>147</b> | Cobb                | Danielle     |                                     |
| <b>148</b> | Moore               | Craig        |                                     |
| <b>149</b> | Waller              | Margaret     |                                     |
| <b>150</b> | Howden              | Rob          |                                     |
| <b>151</b> | Bunbury             | Ande         |                                     |
| <b>152</b> | Harrigan            | Kate         |                                     |
| <b>153</b> | Kelly               | Ruth         |                                     |
| <b>154</b> | Kennedy, Ettershank | Kate & David |                                     |
| <b>155</b> | Eldridge            | John         |                                     |
| <b>156</b> | Mantell             | Harriet      | Residents Against The Tunnel (RAT)  |
| <b>157</b> | Pearson             | Danny        |                                     |
| <b>158</b> | Bagwell             | Geraldine    | Bayside Climate Change Action Group |
| <b>159</b> | Bagwell             | Geraldine    |                                     |
| <b>160</b> | Dawson              | Ben          |                                     |
| <b>161</b> | Bowen               | Jennifer     |                                     |
| <b>162</b> | Rao                 | A            |                                     |
| <b>163</b> | Fotopoulos          | James        |                                     |
| <b>164</b> | O'Hanlon            | Seamus       |                                     |
| <b>165</b> | Triantafillou       | Apostolos    |                                     |
| <b>166</b> | Vandenberg          | Monica       |                                     |
| <b>167</b> | Morris              | Alan         |                                     |
| <b>168</b> | Taaffe              | Jenny        |                                     |
| <b>169</b> | Frost               | Pamela       |                                     |
| <b>170</b> | Richter             | Tim          |                                     |
| <b>171</b> | Bolt                | Carmel       |                                     |
| <b>172</b> | Rushworth           | Susan        |                                     |
| <b>173</b> | Bird                | Ian          | Carlton Residents Association Inc.  |
| <b>174</b> | Mullan              | Kerry        |                                     |

|            |                            |                   |                              |
|------------|----------------------------|-------------------|------------------------------|
| <b>175</b> | Hancock                    | Anna              |                              |
| <b>176</b> | Hanna                      | David             |                              |
| <b>177</b> | Ingram                     | Michael           |                              |
| <b>178</b> | Campbell                   | Peter             |                              |
| <b>179</b> | Ennis                      | Cynthia           |                              |
| <b>180</b> | Barco                      | Emile             |                              |
| <b>181</b> | Norris                     | James             | Heritage Council of Victoria |
| <b>182</b> | Di Muccio                  | Christine         |                              |
| <b>183</b> | Rogers                     | Susan             |                              |
| <b>184</b> | Sun                        | Jun               |                              |
| <b>185</b> | Mossonidis                 | Michael           |                              |
| <b>186</b> | Walker                     | Adrian            |                              |
| <b>187</b> | Walker                     | Barbara           |                              |
| <b>188</b> | Savage                     | Anne              |                              |
| <b>189</b> | Dixon                      | Carol & Mark      |                              |
| <b>190</b> | McInnes                    | James             |                              |
| <b>191</b> | Tozzi                      | Lee               |                              |
| <b>192</b> | Burnet                     | Robert & Judith   |                              |
| <b>193</b> | Coyne                      | Robyn             |                              |
| <b>194</b> | Moyle                      | Haydn             |                              |
| <b>195</b> | Fredericks                 | Bruce             |                              |
| <b>196</b> | Clarke                     | Victoria          |                              |
| <b>197</b> | Denis                      | Patricia          |                              |
| <b>198</b> | Yoshida, Anderson-McDonald | Aki & Jack        |                              |
| <b>199</b> | Bonanno                    | Tony              |                              |
| <b>200</b> | Saint                      | Fiona             |                              |
| <b>201</b> | Mantell                    | Harriet           |                              |
| <b>202</b> | Honan                      | Patrick & Liliane |                              |
| <b>203</b> | Geary                      | Peter             |                              |
| <b>204</b> | Ilyine                     | Frances           |                              |

|            |                   |                   |  |
|------------|-------------------|-------------------|--|
| <b>205</b> | Humphreys         | Robert            |  |
| <b>206</b> | Beauchamp         | David             |  |
| <b>207</b> | Graves            | Dr Kynan          |  |
| <b>208</b> | Ruwoldt           | Grant             |  |
| <b>209</b> | Lucas             | Janet             |  |
| <b>210</b> | Green             | Dennis            |  |
| <b>211</b> | Carmichael        | Anne & Rob        |  |
| <b>212</b> | Lee, Lovel        | Stephanie & Peter |  |
| <b>213</b> | Pretto            | Gabriella         |  |
| <b>214</b> | Withdrawn         |                   |  |
| <b>215</b> | Barclay           | Zoe & Benjamin    |  |
| <b>216</b> | Del Monaco        | Chris             |  |
| <b>217</b> | Mackenzie         | Janine            |  |
| <b>218</b> | Malkiewicz        | Justin            |  |
| <b>219</b> | Marshall          | Nicole            |  |
| <b>220</b> | Gibson            | John              |  |
| <b>221</b> | Peters            | Marilyn           |  |
| <b>222</b> | Bray              | Greg              |  |
| <b>223</b> | Bray              | Vienna Khaya      |  |
| <b>224</b> | Saunders          | Cheryl            |  |
| <b>225</b> | Chandra-Shekeran  | Kavitha           |  |
| <b>226</b> | Marshman          | Kay               |  |
| <b>227</b> | Galvin, Todd      | Pauline & Richard |  |
| <b>228</b> | Green, Golding    | Monica & Ben      |  |
| <b>229</b> | Batterbury        | Dr Simon          |  |
| <b>230</b> | Apperley, Jackson | Cheryl & Paul     |  |
| <b>231</b> | Castles           | Hannah            |  |
| <b>232</b> | Stephenson        | Andrew            |  |
| <b>233</b> | Confidential      |                   |  |
| <b>234</b> | Neilson           | Graham            |  |
| <b>235</b> | Elliott           | P                 |  |



|            |                   |                |   |
|------------|-------------------|----------------|---|
| <b>236</b> | Rimington         | Harry          |   |
| <b>237</b> | Thomson           | Bonnie         |   |
| <b>238</b> | Voon              | Tania          |   |
| <b>239</b> | Cicala            | Claire         |   |
| <b>240</b> | Scambler          | Diana          |   |
| <b>241</b> | Thomas            | Bronwyn        |   |
| <b>242</b> | Huynh             | Trieu          |   |
| <b>243</b> | Provis            | Beatka         |   |
| <b>244</b> | Chilianis         | Melanie        |   |
| <b>245</b> | Colasante         | Meg            |   |
| <b>246</b> | Milankovic        | Marina         |   |
| <b>247</b> | Toop              | Jessica        |   |
| <b>248</b> | Burton            | Ben            |   |
| <b>249</b> | Wilson            | Cameron        |   |
| <b>250</b> | Moore, O'Keefe    | Jo & Damian    |   |
| <b>251</b> | Muhlfeit          | Petra          |   |
| <b>252</b> | Nowak             | Lidia          |   |
| <b>253</b> | Swain             | Alexander      |   |
| <b>254</b> | Peyton            | Anthony        |   |
| <b>255</b> | Coleman           | Brett & Joanne |   |
| <b>256</b> | Powell            | Miriam         |   |
| <b>257</b> | Peyton            | Anthony        | Safety Net for Royal Park                         |
| <b>258</b> | Hatfield          | Bette          | Glen Eira Residents Association Inc               |
| <b>259</b> | Clarke            | Alison         | C/O Clifton Hill Child & Adolescent Therapy Group |
| <b>260</b> | Thomson           | Ross           |   |
| <b>261</b> | Cusack            | James          |   |
| <b>262</b> | LeGallez, England | Kate & Thomas  |   |
| <b>263</b> | Phefley           | Anne           |   |

|            |              |                     |  |
|------------|--------------|---------------------|--|
| <b>264</b> | Milne        | James               |  |
| <b>265</b> | Taylor       | Grant               |  |
| <b>266</b> | Kippin       | Paul                |  |
| <b>267</b> | Kippin       | Justine             |  |
| <b>268</b> | Summers      | A                   |  |
| <b>269</b> | Avotins      | Julie & Anthony     |  |
| <b>270</b> | Hoebartner   | Elisabeth           |  |
| <b>271</b> | Bell         | Dave                |  |
| <b>272</b> | Kinrade      | -                   |  |
| <b>273</b> | Confidential |                     |  |
| <b>274</b> | Loughlin     | Graeme              |  |
| <b>275</b> | Loveless     | Kerrie              |  |
| <b>276</b> | Temby        | Jonathon            |  |
| <b>277</b> | Marley       | Phil                |  |
| <b>278</b> | Gawne        | Jennifer            |  |
| <b>279</b> | Grant        | Robyn               |  |
| <b>280</b> | Worsnop      | Tom                 |  |
| <b>281</b> | O'Donnell    | Gerard              |  |
| <b>282</b> | Vernon       | Sarah               |  |
| <b>283</b> | Smith        | Dr Olivia & Michael |  |
| <b>284</b> | Quirk        | Susan               |  |
| <b>285</b> | Treloar      | Lucy                |  |
| <b>286</b> | Newton       | April               |  |
| <b>287</b> | Wakhlu       | Suresh              |  |
| <b>288</b> | Barnett      | Matthew             |  |
| <b>289</b> | McDonald     | Vivien              |  |
| <b>290</b> | Hobson       | Paul                |  |
| <b>291</b> | Watkin       | Freda               | Yarra Campaign for Action on Transport |
| <b>292</b> | Bransgrove   | Grant               |  |

|            |                 |               |  |
|------------|-----------------|---------------|--|
| <b>293</b> | Beckett         | Paul          |  |
| <b>294</b> | Bosler          | Danae         | Public Transport<br>Not Traffic          |
| <b>295</b> | Neville         | Jeffrey       |  |
| <b>296</b> | Mooney          | Russell       |  |
| <b>297</b> | Muir            | Rilke         | Kensington<br>Association (Inc)          |
| <b>298</b> | Plancarte Fexas | Maria         |  |
| <b>299</b> | Gallivan        | Jennifer      |  |
| <b>300</b> | Haynes          | Kerry         |  |
| <b>301</b> | Confidential    |               |  |
| <b>302</b> | Savage          | Geoffrey      |  |
| <b>303</b> | Zhou            | Shuai         |  |
| <b>304</b> | Keefe           | Hilary        |  |
| <b>305</b> | Mullan          | Marguerite    |  |
| <b>306</b> | Koufariotis     | Magda         |  |
| <b>307</b> | Longden         | Catherine     |  |
| <b>308</b> | Thomas          | Jan           |  |
| <b>309</b> | Grant           | Ramon         |  |
| <b>310</b> | Mills           | Julie & Denis |  |
| <b>311</b> | Nagels          | Peter         |  |
| <b>312</b> | Watson          | Denis         | Upgrade Upfield<br>Corridor<br>Committee |
| <b>313</b> | Smith           | Tony          | Kororoit Institute                       |
| <b>314</b> | Hindley         | Anne          |  |
| <b>315</b> | Ley             | Gordon        |  |
| <b>316</b> | Day             | Katherine     |  |
| <b>317</b> | Krelle          | Robert        | The Parkville<br>Association             |
| <b>318</b> | Bishop          | Nicholas      |  |
| <b>319</b> | Wayth           | Rod           |  |

|            |               |                       |   |
|------------|---------------|-----------------------|---|
| <b>320</b> | Gallivan      | Paul Anthony          |   |
| <b>321</b> | Lester        | Chris                 |   |
| <b>322</b> | Wright        | Kelly                 |   |
| <b>323</b> | Boyle, Jones  | Kentia & Nigel        |   |
| <b>324</b> | Komninos      | Peter                 |   |
| <b>325</b> | Tappe         | Andrea Leigh          |   |
| <b>326</b> | Goodman       | Chris                 | The 3068<br>Neighbourhood<br>Group (Inc)                      |
| <b>327</b> | Stewart       | Graeme                |   |
| <b>328</b> | Boyce         | Anthony               | University High<br>School, Vic<br>University Football<br>Club |
| <b>329</b> | Mickelborough | Peter                 |   |
| <b>330</b> | Klingspohn    | Britta                |   |
| <b>331</b> | Hindle        | Ben                   |   |
| <b>332</b> | Fischetto     | Michelle              | Vision Australia  |
| <b>333</b> | Summerton     | Michele               |   |
| <b>334</b> | Noble         | Margaret              |   |
| <b>335</b> | Masters       | Helen                 |   |
| <b>336</b> | Urban         | Milan                 |   |
| <b>337</b> | Thomas        | Anthony &<br>Margaret |   |
| <b>338</b> | Howden        | Lynette Mary          |   |
| <b>339</b> | Polack        | Sharelle              | Cultivating<br>Community                                      |
| <b>340</b> | Quirk         | Jill                  | Sustainable<br>Population Aust.<br>Vict & Tas. Branch         |
| <b>341</b> | Lee           | Albert                | Elderly Chinese<br>Home                                       |

|            |                       |                 |  |
|------------|-----------------------|-----------------|--|
| <b>342</b> | West                  | Terri           |  |
| <b>343</b> | Di Iallo              | Franc           |  |
| <b>344</b> | Minister for Planning |                 |  |
| <b>345</b> | Keogh                 | Janice          |  |
| <b>346</b> | Keogh                 | Neville         |  |
| <b>347</b> | Coppini               | Danielle        |  |
| <b>348</b> | Hardy                 | David & Lori    |  |
| <b>349</b> | Robinson              | Tony            | Environmental Protection Authority, Victoria |
| <b>350</b> | Boag                  | David           |  |
| <b>351</b> | Boag                  | Millicent       |  |
| <b>352</b> | Campbell              | Geoff           |  |
| <b>353</b> | Nataprawira           | Thomas          |  |
| <b>354</b> | McQuillan             | Kevin           | Travancore Park Users Group                  |
| <b>355</b> | Healy                 | Suzie           |  |
| <b>356</b> | West                  | Mark            |  |
| <b>357</b> | Bunbury               | Alisa           |  |
| <b>358</b> | Ross                  | Lorraine        |  |
| <b>359</b> | Bush                  | Asahel          |  |
| <b>360</b> | Preston               | Heath           |  |
| <b>361</b> | Keogh                 | Patrick         |  |
| <b>362</b> | Hindle                | Heather         |  |
| <b>363</b> | Rogers                | Tim & Melissa   |  |
| <b>364</b> | Wardell/Tuschke       | Rob/Hagen       |  |
| <b>365</b> | Ferguson              | Anthony Francis |  |
| <b>366</b> | Jones                 | Ronald          | Australian Institute of Landscape Architects |
| <b>367</b> | Bilyanska             | Julia           |  |
| <b>368</b> | Coat                  | John            |  |

|            |               |                        |   |
|------------|---------------|------------------------|---|
| <b>369</b> | Coat          | Sarah                  |   |
| <b>370</b> | den Hollander | Jason                  | Bicycle Network                             |
| <b>371</b> | Morel         | John                   |   |
| <b>372</b> | White         | Dr Susan & Mr Nicholas |   |
| <b>373</b> | Cummings      | Karen                  | Collingwood Historical Society, Inc         |
| <b>374</b> | Lanigan       | Anna                   |   |
| <b>375</b> | Cooper        | Dianne                 |   |
| <b>376</b> | Grant, Casey  | Rebecca & James        |   |
| <b>377</b> | Confidential  |                        |   |
| <b>378</b> | Hilton        | Alison                 |   |
| <b>379</b> | Confidential  |                        |   |
| <b>380</b> | Maroun        | Lina                   | Owners at 117 Manningham Street Parkville   |
| <b>381</b> | Barnett       | Matthew                |   |
| <b>382</b> | Bazelmans     | Dr Jeff                | Port of Melbourne Corporation               |
| <b>383</b> | Hasthorpe     | S                      |   |
| <b>384</b> | Herington     | Andrew                 |   |
| <b>385</b> | Schubert      | Paul                   |   |
| <b>386</b> | Cox           | John                   |   |
| <b>387</b> | Bourke        | Leon                   |   |
| <b>388</b> | Reece         | Mike                   | Victorian Transport Research & Action Group |
| <b>389</b> | Wallis        | Ian                    |   |
| <b>390</b> | Chachs        | David                  |   |
| <b>391</b> | Wingett       | Virginia               |   |
| <b>392</b> | Stewart       | Graeme                 |   |

|     |                     |                   |  |     |                       |                       |   |
|-----|---------------------|-------------------|--|-----|-----------------------|-----------------------|---|
| 393 | Munroe              | Angela            | Citizens for a Liveable Melbourne        | 417 | Gunn                  | Ian                   |   |
| 394 | O'Brien             | Dr Darragh        | Inner Melbourne Planning Alliance (IMPA) | 418 | Fitzgibbon, Swarbrick | Bernadette & Mark     |   |
| 395 | Bauld, Olsson       | Catherine & Craig |  | 419 | Inglis, Erber         | Susan & Norm          |   |
| 396 | -                   | -                 | Friends of Royal Park, Parkville Inc     | 420 | Araneda               | Maritza               |   |
| 397 | Schober             | Rod               |  | 421 | Confidential          |                       |   |
| 398 | Gibb, Blanch        | Sybil & Ian       |  | 422 | Clay                  | Marian                |   |
| 399 | Farag               | Samira            | Flemington Neighbourhood Renewal         | 423 | Barnett               | Julia                 |   |
| 400 | Naylor              | Michael           |  | 424 | Clay                  | Tess                  |   |
| 401 | Varigos             | Kathleen          |  | 425 | Clay                  | Richard               |   |
| 402 | Morel               | Theresa           |  | 426 | Angliss               | Tom                   | Asciano Limited                         |
| 403 | de Vietri           | Gabrielle         |  | 427 | Scott                 | James                 | Moreland City Council                   |
| 404 | Laurie              | Robyn             |  | 428 | McDonough             | Stephen               | Capella Capital                         |
| 405 | Bell                | Fiona             |  | 429 | Touzel                | Raphael               | West Brunswick Amateur Football Club    |
| 406 | Menhennet           | Naomi             |  | 430 | Stathis               | Christos              | Essendon Royals Soccer Club             |
| 407 | McDougall           | Andrew            |  | 431 | Miller                | Patricia              |   |
| 408 | Sholl               | Eddie             |  | 432 | Blyth                 | Jillian               |   |
| 409 | Long                | Patricia          |  | 433 | Blay                  | Stella                |   |
| 410 | Lueckenhausen       | Isolde            |  | 434 | Wynne, Tee MPs        | Richard & Brian       | Parliamentary Representatives           |
| 411 | Westwood            | John              |  | 435 | Choong, Tan           | Tina & Michael        |   |
| 412 | Villani             | Eleanor           |  | 436 | Arbuzova              | Olea                  |   |
| 413 | Nataprawira, Newell | Joanne & Dylan    |  | 437 | Moodie                | Dr Simon              |   |
| 414 | Ursida              | Carlo             |  | 438 | Anderson              | James                 |   |
| 415 | Elbourne            | Joel              | Banyule City Council                     | 439 | Peterson, Peck        | Lucinda & Christopher | Property Committee 46 Manningham Street |
| 416 | O'Donnell           | Graham            |  |     |                       |                       |   |

|     |              |                |                                       |     |                   |                |                                      |
|-----|--------------|----------------|---------------------------------------|-----|-------------------|----------------|--------------------------------------|
| 440 | Rio          | Robert         |                                       | 467 | Dunn              | Eileen         |                                      |
| 441 | Muir         | Rilke          |                                       | 468 | Connors           | Tim            |                                      |
| 442 | Lamb         | Allison        |                                       | 469 | Robinson          | Kathy          |                                      |
| 443 | Giudice      | Peter          |                                       | 470 | Confidential      |                |                                      |
| 444 | Empson       | Lucy           |                                       | 471 | Wood              | Renee          |                                      |
| 445 | Wilson       | Ian            |                                       | 472 | Thorne, Todhunter | Kay & Tim      |                                      |
| 446 | Volpe        | Maria          |                                       | 473 | Cruise            | Lachlan        |                                      |
| 447 | Harding      | Joel           |                                       | 474 | McCallum          | Graham         |                                      |
| 448 | Sheedy       | Katherine      |                                       | 475 | May               | Rebecca        | APT O&M Services Pty Ltd (APA Group) |
| 449 | Plaister     | Nicholas       |                                       | 476 | Lee               | Alexander      |                                      |
| 450 | Horacek      | Judy           |                                       | 477 | Tan               | Yew-Aik        |                                      |
| 451 | Lee-Archer   | Lachlan        |                                       | 478 | Kimm              | Anna           |                                      |
| 452 | Kociuba      | Greg           |                                       | 479 | Beechey           | Ann            |                                      |
| 453 | Moloney      | David          | Cardijn Community Australia (Inc)     | 480 | Walter            | Clare          |                                      |
| 454 | Isaac        | Anne           |                                       | 481 | Moodie            | Jane           |                                      |
| 455 | Smith        | Cheryl         |                                       | 482 | Nalepka           | Elizabeth      |                                      |
| 456 | Phelan       | Justine        |                                       | 483 | Malesic           | Anne Marie     |                                      |
| 457 | McCarthy     | Paula          |                                       | 484 | Macmillan         | Luisa          | Merri Creek Management Committee Inc |
| 458 | Russell      | Kate           |                                       | 485 | Kimm              | Joan           |                                      |
| 459 | Salmon-Lomas | Peter          |                                       | 486 | Gorman            | Brent & Harley |                                      |
| 460 | Rafter       | Anthony Stuart | Parkville District Cricket Club       | 487 | Lipsys            | Jonas          |                                      |
| 461 | Strain       | Susie          | Metropolitan Transport Forum          | 488 | Turner            | Denise         |                                      |
| 462 | Campbell     | Sylvia         |                                       | 489 | Agudo             | Roberto        | Acciona Infrastructure               |
| 463 | Withdrawn    |                |                                       | 490 | McCrohan          | Denis          | SPI Powernet Pty Ltd T/A SP AusNet   |
| 464 | Newton       | Elizabeth      |                                       | 491 | Savige            | Douglas        |                                      |
| 465 | Berry        | Maria          | Football Federation Victoria          | 492 | Kimm              | Geoff          |                                      |
| 466 | Esterhuizen  | Johan          | Jemena Electricity Networks (Vic) Ltd |     |                   |                |                                      |

|     |             |             |   |
|-----|-------------|-------------|---|
| 493 | Komba       | Hadia       |   |
| 494 | Cox         | Dr John     |   |
| 495 | Hassell     | John        |   |
| 496 | Southwell   | Jo          | Yarra Enviromental Sustainability Network |
| 497 | Barker      | Neil        |   |
| 498 | Kelly       | Andrew      |   |
| 499 | Siapikoudis | Peter       |   |
| 500 | Thong       | Hee-Liew    |   |
| 501 | Doherty     | Rebecca     |   |
| 502 | Harrington  | Morgan      |   |
| 503 | Tonson      | James       | Understandascope                          |
| 504 | Williams    | Dr Nicholas |   |
| 505 | Champion    | Barbara     |   |
| 506 | Volpe       | Rohan       |   |
| 507 | Cummings    | Karen       |   |
| 508 | Salisbury   | Gwyneth     |   |
| 509 | Spear       | Rose        |   |
| 510 | Roughana    | Kevin       |   |
| 511 | Bunbury     | Anna        |   |
| 512 | Carter      | Sam         |   |
| 513 | Coote       | Robyn       |   |
| 514 | Fooks       | William     |   |
| 515 | Pentony     | Anne        |   |
| 516 | Mortimer    | Derek       | Essendon Community Garden Inc             |
| 517 | D'Alesio    | Ricky       |   |
| 518 | D'Alesio    | Belinda     |   |
| 519 | Redfearn    | David       | Friends of Merri Creek                    |

|     |                    |                    |   |
|-----|--------------------|--------------------|---|
| 520 | Makin              | Jen                |   |
| 521 | Judd               | Valerie            |   |
| 522 | Dalli              | Christopher        |   |
| 523 | McNamara           | Helene             |   |
| 524 | Saunders           | Andrew             |   |
| 525 | Baker              | Drs Amy S. & Scott |   |
| 526 | O'Brien            | Damien             |   |
| 527 | Liddy              | Noela              |   |
| 528 |                    |                    | Friends of Moonee Ponds Creek Inc         |
| 529 | A'Hearn            | Meg                |   |
| 530 | Hughes             | Rachel             |   |
| 531 | Fitzgerald         | James              |   |
| 532 | Holmes             | Anne               |   |
| 533 | Dunn               | Eileen             |   |
| 534 | Wilkinson          | Carole             | Yarra Climate Action Now                  |
| 535 | Garrett, Kanis MPs | Jane & Jennifer    | State MPs for Brunswick & Melbourne resp. |
| 536 | Hardwick           | Benedict Tobin     | Slater & Gordon Lawyers                   |
| 537 | Johnston           | Egle               |   |
| 538 | Fox                | Christopher        |   |
| 539 | Boutsinis          | Christopher        |   |
| 540 | Ioannou            | Omni               |   |
| 541 | Smith              | Russell            |   |
| 542 | Withdrawn          |                    |   |
| 543 | Steinfort          | Tom, Paul & Noela  |   |
| 544 | Roberts            | Meaghan            |   |

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|-----|--------------|-------------------------|--|
| 545 | Benson       | Tony                    |  |
| 546 | Ellinghaus   | Rainer                  |  |
| 547 | -            | -                       | University of Melbourne Baseball Club    |
| 548 | Davies       | Brig. Phil & Mrs Sandra |  |
| 549 | Shanley      | Monica                  |  |
| 550 | Smith        | Ramsay                  |  |
| 551 | Barclay      | Zoe & Benjamin          |  |
| 552 | Kanis MP     | Jennifer                | State MP for Greens                      |
| 553 | Cruise       | Lachlan                 |  |
| 554 | Welsh, Naish | Elizabeth & Kieren      |  |
| 555 | Palmer       | Alice                   |  |
| 556 | Champion     | Barbara                 | Play Australia                           |
| 557 | Taylor       | Janet                   |  |
| 558 | White        | Chris                   | The University of Melbourne              |
| 559 | Thyer        | James                   |  |
| 560 | Logan        | Peter & Joan            |  |
| 561 | Albiston     | Craig                   | Melbourne University Rugby Football Club |
| 562 | Scott        | Penelope                |  |
| 563 | Carroll      | Maree                   |  |
| 564 | Stiles       | Pam                     |  |
| 565 | Weir         | Angela                  |  |
| 566 | O'Connor     | Gloria                  | Cardinia Ratepayers & Residents          |

|     |             |                   |  |
|-----|-------------|-------------------|--|
|     |             |                   | Association Inc.                           |
| 567 | Barnett     | Steven            | Yarra Bicycle Users Group                  |
| 568 | Milburn     | Nicole            |  |
| 569 | Araneda     | Francisca         |  |
| 570 | Metelman    | Mark              |  |
| 571 | Koufariotis | Magda             |  |
| 572 | Heyes       | Frank             | Moonee Valley Sporting Club                |
| 573 | Smail       | Mrs Annie J       |  |
| 574 | Negus       | Brian             | Royal Automobile Club of Victoria          |
| 575 | Analystis   | Penelope          |  |
| 576 | Manuell     | Dr Sally          |  |
| 577 | Roser       | Paul              | The National Trust of Australia (Victoria) |
| 578 | Rickards    | Anne              |  |
| 579 | Marjoram    | Professor Tony    |  |
| 580 | Menzies     | Teresa            |  |
| 581 | Phillips    | Dr Georgina       |  |
| 582 | Gherardin   | Elizabeth Frances |  |
| 583 | Canty       | Carol             |  |
| 584 | Barker      | Charlotte         |  |
| 585 | Howe        | Jenny             |  |
| 586 | Lenaghan    | Maggie            |  |
| 587 | Egli        | Markus            |  |
| 588 | Day         | Daniel            |  |
| 589 | Bandt       | Adam              | State MP for Greens                        |
| 590 | Liddy       | Noela             |  |
| 591 | Schultz     | Dr Mark B         |  |

|     |                   |                     |   |
|-----|-------------------|---------------------|---|
| 592 | Ervin-Ward        | Gisela              |   |
| 593 | Zenaty            | Marion              |   |
| 594 | Vowels            | Robin               |   |
| 595 | Bullen            | Andrew              |   |
| 596 | Jepp              | Michelle            |   |
| 597 | Allpici           | Lulzim              |   |
| 598 | Jha               | Nikhil              |   |
| 599 | Rooding, McIntosh | Annamarie & Russell |   |
| 600 | Jones             | Cait                | Public Transport Users Association                      |
| 601 | Nott              | Lynne               |   |
| 602 | Nott              | Alan                |   |
| 603 | Salathiel         | Tim                 | ALC, AiG, IPA, MBAV, PCA, RACV, VACC, VECCI, VTA & UDIA |
| 604 | Sismanis          | Sophie              |   |
| 605 | Maloney McCall    | Stacey              |   |
| 606 | Merkel            | Branca              |   |
| 607 | Brookes           | Michael             |   |
| 608 | Day               | Rhonda              |   |
| 609 | Raymond           | Lee-Anne            |   |
| 610 | Shore             | Malcolm K           |   |
| 611 | Hagger            | Baden & Margaret    |   |
| 612 | Handsaker         | Peter               |   |
| 613 | Vakras            | Demetrios           |   |
| 614 | Melzatesta        | Francis             |   |
| 615 | Falconer          | Brian               |   |
| 616 | Hyam              | Caitlyn             |   |
| 617 | Hore              | Ian                 |   |

|     |                |            |  |
|-----|----------------|------------|--|
| 618 | Andrew         | Neil       |  |
| 619 | Roche          | Michael    |  |
| 620 | Christie       | Robert     |  |
| 621 | Hannan         | Lorna      |  |
| 622 | Hill           | Jeremy     |  |
| 623 | Hiscock        | Fiona      |  |
| 624 | Wansbrough     | Dr Helen R |  |
| 625 | Sheedy         | Mavis      |  |
| 626 | Foundling      | Cheryl     |  |
| 627 | Hall           | Janet      |  |
| 628 | Iser           | Cheryl     |  |
| 629 | Qin            | Charles    |  |
| 630 | Confidential   |            |  |
| 631 | Hunt           | Nichol     |  |
| 632 | Shnookal       | Deborah    |  |
| 633 | O'Brien        | Jennifer   |  |
| 634 | O'Connell      | Dennis     | Friends of Banyule                           |
| 635 | O'Connor       | Bernadette |  |
| 636 | Salmon         | Gabriella  |  |
| 637 | Somers         | Penelope   |  |
| 638 | Rawlins        | Jeremy     |  |
| 639 | Zika, Loh      | Ben & Joe  | Royal Park Reds Cricket Club                 |
| 640 | Polesel        | John       |  |
| 641 | Pathmanandavel | Sukumar    | Coffey International Pty Ltd                 |
| 642 | Firkin         | Wendy      |  |
| 643 | Marcus         | Christian  |  |
| 644 | Cook           | R          | Inner Northern Suburbs Residents Association |



|     |                 |                      |   |     |                  |                  |  |
|-----|-----------------|----------------------|---|-----|------------------|------------------|--|
| 645 | Dominica        | Tannock              | Protectors of Public Lands Victoria Inc & Royal Park Protection Group Inc | 669 | Scott            | Nina             |  |
| 646 | Tesfay          | Fireweyni            | Youth Nights  | 670 | Nataprawira      | Roslyn           |  |
| 647 | Confidential    |                      |   | 671 | Abela            | Rachel           |  |
| 648 | Green           | Ritchie              | Bouygues Construction Australia Pty Ltd                                   | 672 | Dragicevic       | George           |  |
| 649 | Confidential    |                      |   | 673 | Keller           | Philip           |  |
| 650 | Magnusson       | Lisa                 |   | 674 | Lamb             | Brent            |  |
| 651 | Potts           | Julie                |   | 675 | Dare             | Anthony          |  |
| 652 | Dickie          | John                 |   | 676 | Fraser           | John             |  |
| 653 | Brown           | Jennifer             |   | 677 | Ingamells        | Adam             |  |
| 654 | Confidential    |                      |   | 678 | Anderson         | Karyn            |  |
| 655 | Farrah          | Tim                  |   | 679 | Bullen           | Andrew           | Melbourne University Soccer Club             |
| 656 | Chan            | Caesar               |   | 680 | Rudge            | Santana & Justin |  |
| 657 | Dyring          | Charles              |   | 681 | de Vietri        | Laurel           |  |
| 658 | Pill            | John                 |   | 682 | Potts            | Les              | Flemington Association Inc                   |
| 659 | Treleaven, Main | Jane & Michael       |   | 683 | Krivanek         | Rosamund         |  |
| 660 | McAleese        | Elizabeth            |   | 684 | Sheko            | Alexander        | Students Linking Melbourne Sustainability    |
| 661 | Attwood         | Rhonda               |   | 685 | O'Reilly         | Lorraine A       |  |
| 662 | Jokic           | Vera                 |   | 686 | Hogg             | Peter            | Residents About Integrated Development @3051 |
| 663 | Del Signore     | Adele                |   | 687 | Greco            | Cr Gaetano       | Darebin City Council                         |
| 664 | Oppenheim       | Dr Richard & Annette |   | 688 | Denmead          | Stewart          |  |
| 665 | Marchant        | David                | Lend Lease Engineering Pty Ltd  | 689 | Foley, Sowerwine | Susan & Charles  |  |
| 666 | Goldsworthy     | Rachel               |   | 690 | Coyne            | Tim              |  |
| 667 | Derriman        | Kim                  |   | 691 | Murtagh          | Damian           |  |
| 668 | Chong           | Soo                  |   |     |                  |                  |  |

|            |             |               |                                    |
|------------|-------------|---------------|------------------------------------|
| <b>692</b> | Huth        | Alister       |                                    |
| <b>693</b> | O'Hanlon    | Clare         |                                    |
| <b>694</b> | Corcoran    | E. Helen      |                                    |
| <b>695</b> | Cook        | Bill          |                                    |
| <b>696</b> | Dickinson   | Hannah        |                                    |
| <b>697</b> | Lindsay     | Carrie        |                                    |
| <b>698</b> | Leitinger   | Jane          |                                    |
| <b>699</b> | Roy         | John          |                                    |
| <b>700</b> | Roy         | Janice        | Fowlers Vacola<br>Australia P/L    |
| <b>701</b> | Philipp     | Kristine      |                                    |
| <b>702</b> | Johnstone   | Liz           | Planning Institute<br>of Australia |
| <b>703</b> | Pollock     | Alex          |                                    |
| <b>704</b> | Cosson      | Karen         |                                    |
| <b>705</b> | Jolic       | Anne          |                                    |
| <b>706</b> | Noonan      | Paul          |                                    |
| <b>707</b> | Rizio       | Dario & Chris |                                    |
| <b>708</b> | Smith       | Phillip       |                                    |
| <b>709</b> | Wallace     | R J           |                                    |
| <b>710</b> | Farrow      | David         | Boroondara Bicycle<br>Users Group  |
| <b>711</b> | Liefman     | Jane          |                                    |
| <b>712</b> | Lancaster   | Bryan         | Moonee Valley City<br>Council      |
| <b>713</b> | Gartner     | Clive         |                                    |
| <b>714</b> | Roberts     | Kenneth       |                                    |
| <b>715</b> | Wager       | John          |                                    |
| <b>716</b> | Wager       | Janet         |                                    |
| <b>717</b> | Croci       | Josephine     |                                    |
| <b>718</b> | van de Wiel | Remy          |                                    |
| <b>719</b> | Scott       | Trevor        |                                    |

|            |                |                  |  |
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| <b>720</b> | Lin            | David            |  |
| <b>721</b> | Fitzgerald     | Keith            |  |
| <b>722</b> | Phelan         | Robyn            |  |
| <b>723</b> | Bartlett       | Rodney           |  |
| <b>724</b> | Hughes         | Richard Anthony  |  |
| <b>725</b> | Tsingas        | Constantine      |  |
| <b>726</b> | Harrington     | Duncan           |  |
| <b>727</b> | Dunn           | Bernard          |  |
| <b>728</b> | Stone          | Dr John          | Urban Planning<br>Program,<br>University of<br>Melbourne |
| <b>729</b> | Bell           | Kristen          |  |
| <b>730</b> | Hay            | Patrick          |  |
| <b>731</b> | Hay            | Harry            |  |
| <b>732</b> | Hay            | Bill             |  |
| <b>733</b> | Drummond       | Pat              |  |
| <b>734</b> | Burrell        | Kim              |  |
| <b>735</b> | Hoban          | Anne             |  |
| <b>736</b> | Mackay         | Graham A         |  |
| <b>737</b> | McMahon        | Ann              |  |
| <b>738</b> | Foundling      | Michael          |  |
| <b>739</b> | Dickinson      | Gary & Christine |  |
| <b>740</b> | Howie-Hickmott | Ann              |  |
| <b>741</b> | Kennedy        | Katherine        |  |
| <b>742</b> | Byrne          | Peter & Maria    |  |
| <b>743</b> | D'Menzie       | Marcellene       |  |
| <b>744</b> | Kennedy        | Gregor           |  |
| <b>745</b> | Miller         | Noel             |  |
| <b>746</b> | Lance          | Stephen          |  |
| <b>747</b> | Aranha         | Albert           |  |
| <b>748</b> | Lew            | Michael J        |  |

|            |                 |                       |                               |
|------------|-----------------|-----------------------|-------------------------------|
| <b>749</b> | Findley         | Ann                   |                               |
| <b>750</b> | Miskella        | Tom                   |                               |
| <b>751</b> | Horsford        | Ro                    |                               |
| <b>752</b> | Confidential    |                       |                               |
| <b>753</b> | Zenaty          | Cheryl                |                               |
| <b>754</b> | Parkes          | Shirley               |                               |
| <b>755</b> | Widmer          | John                  |                               |
| <b>756</b> | Clemens         | Ruth                  |                               |
| <b>757</b> | Chooi           | Tech Sun              |                               |
| <b>758</b> | McIntyre        | Philip N              |                               |
| <b>759</b> | DeRango         | Melissa               |                               |
| <b>760</b> | Philip          | Dr Pradeep            | Department of Health Victoria |
| <b>761</b> | Alomes          | Adjunct Prof. Stephen |                               |
| <b>762</b> | Finger          | Margaret & Bill       |                               |
| <b>763</b> | Palmer          | I                     |                               |
| <b>764</b> | Sciacchitano    | Josie & Bob           |                               |
| <b>765</b> | Ciavarella      | Anna                  |                               |
| <b>766</b> | Paranavitane    | Channa                |                               |
| <b>767</b> | Croft           | Terry                 |                               |
| <b>768</b> | Stannus         | Gabrielle             |                               |
| <b>769</b> | Howes           | Dorothy               |                               |
| <b>770</b> | Petersen        | Beverley              |                               |
| <b>771</b> | Deasey          | Sarah                 |                               |
| <b>772</b> | Fetherstonhaugh | Amelia                |                               |
| <b>773</b> | Cook            | Scarlett              |                               |
| <b>774</b> | Corrie          | Alexander Benjamin    |                               |
| <b>775</b> | Putker          | Steph                 |                               |
| <b>776</b> | Miller          | Panayota              |                               |
| <b>777</b> | White           | Anna                  |                               |

|            |                  |             |                      |
|------------|------------------|-------------|----------------------|
| <b>778</b> | Brunning         | Kathy       |                      |
| <b>779</b> | O'Neill          | Christopher |                      |
| <b>780</b> | O'Neill          | Caroline    |                      |
| <b>781</b> | Lechte           | Toni        |                      |
| <b>782</b> | Norquay          | Fiona       |                      |
| <b>783</b> | Arndt            | Judith      |                      |
| <b>784</b> | Masterman        | Lindis      |                      |
| <b>785</b> | Griffith         | Julia       |                      |
| <b>786</b> | Fenelon          | Mary Ellen  |                      |
| <b>787</b> | Ward             | Michael     |                      |
| <b>788</b> | Rowland          | Karen       |                      |
| <b>789</b> | O'Neill          | Anne        |                      |
| <b>790</b> | Jones            | Dr M R      |                      |
| <b>791</b> | Ritchie          | Kate        |                      |
| <b>792</b> | Nguyen           | Tram        |                      |
| <b>793</b> | Howes            | Michael     |                      |
| <b>794</b> | Rhodes           | Katharine   |                      |
| <b>795</b> | Harvest          | Jane        |                      |
| <b>796</b> | Aldrick          | Robyn       |                      |
| <b>797</b> | Murphy           | Anthony     |                      |
| <b>798</b> | Sharp            | Heather R   |                      |
| <b>799</b> | Scheurer         | Dr Jan      |                      |
| <b>800</b> | Gwyther-McCuskey | Merlyn      |                      |
| <b>801</b> | Clarkson         | Georgia     |                      |
| <b>802</b> | Koppel           | Jill        |                      |
| <b>803</b> | Zovko            | Andrija     |                      |
| <b>804</b> | Dunlop           | Hannah      |                      |
| <b>805</b> | Kelly            | Siobhan     |                      |
| <b>806</b> | Jenkins          | Charles     |                      |
| <b>807</b> | Hanna            | David       |                      |
| <b>808</b> | Kahsay           | Semere      | Youth Nights - Girls |
| <b>809</b> | Duxbury          | Kenneth     |                      |

|            |              |            |  |
|------------|--------------|------------|--|
| <b>810</b> | Sande        | Anna       |  |
| <b>811</b> | Sherpherdley | Bruce      |  |
| <b>812</b> | Ansell       | Kay        |  |
| <b>813</b> | Broadhurst   | Vivienne   |  |
| <b>814</b> | Abernethy    | Leigh      |  |
| <b>815</b> | Wood         | David      |  |
| <b>816</b> | McKinnon     | Mark       |  |
| <b>817</b> | Strantzen    | Denyse     |  |
| <b>818</b> | Strantzen    | Peter      |  |
| <b>819</b> | Thomas       | Catherine  |  |
| <b>820</b> | Thomas       | Valerie    |  |
| <b>821</b> | Mamunya      | Xanya      |  |
| <b>822</b> | Leonard      | Kirk       |  |
| <b>823</b> | Walker       | Peter      |  |
| <b>824</b> | Macfarlan    | Alice      |  |
| <b>825</b> | Jessop       | Cath       |  |
| <b>826</b> | Tonkin       | Matilda    |  |
| <b>827</b> | Kahan        | Dena       |  |
| <b>828</b> | Silverman    | Julian     |  |
| <b>829</b> | Hunter       | Alistair   |  |
| <b>830</b> | Bowers       | David      |  |
| <b>831</b> | Wratten      | Geoffrey S |  |
| <b>832</b> | Stafford     | Tom        |  |
| <b>833</b> | Withdrawn    |            |  |
| <b>834</b> | McKeown      | Dion       |  |
| <b>835</b> | Prentice     | Paul D     |  |
| <b>836</b> | Noonan       | Gerald     |  |
| <b>837</b> | Hookey       | Enid       |  |
| <b>838</b> | Wallace      | Lynette    |  |
| <b>839</b> | Batley       | Amber      |  |
| <b>840</b> | Lechte       | Graeme     |  |
| <b>841</b> | Collin       | Denise     |  |

|            |              |                |                               |
|------------|--------------|----------------|-------------------------------|
| <b>842</b> | Christophers | Anne           |                               |
| <b>843</b> | Hosking      | Peter          |                               |
| <b>844</b> | Bates        | Llewella       |                               |
| <b>845</b> | Mason        | Lucinda        |                               |
| <b>846</b> | Hughes       | Keegan         |                               |
| <b>847</b> | Ellwood      | Sarah          |                               |
| <b>848</b> | Jakobsen     | Lene           |                               |
| <b>849</b> | Jacka        | Meredith       |                               |
| <b>850</b> | Skinner      | Carol          |                               |
| <b>851</b> | Strong       | Simon          |                               |
| <b>852</b> | Goguillon    | Brune          |                               |
| <b>853</b> | Heffernan    | Tamara         |                               |
| <b>854</b> | Zovko        | Eva            |                               |
| <b>855</b> | Naismith     | Michael        |                               |
| <b>856</b> | Treager      | Lynley         |                               |
| <b>857</b> | Crooke       | Marion I       |                               |
| <b>858</b> | Thomson      | Maximilian     |                               |
| <b>859</b> | Watkin       | Freda          |                               |
| <b>860</b> | Harua        | Alfred S       |                               |
| <b>861</b> | Meagher      | Rosemary       |                               |
| <b>862</b> | Chia         | Lee            |                               |
| <b>863</b> | Carmody      | Clare          |                               |
| <b>864</b> | Forester     | Melissa        |                               |
| <b>865</b> | Zoric        | Lauren         |                               |
| <b>866</b> | Stephens     | Jenny          |                               |
| <b>867</b> | Minogue      | Andy           |                               |
| <b>868</b> | Agar         | Alison Shelton |                               |
| <b>869</b> | Foster       | Patricia       |                               |
| <b>870</b> | Chen         | (Edith) SC     | Flemington Chinese Golden Age |
| <b>871</b> | Mathew       | Heather R      |                               |
| <b>872</b> | Lagzdin      | Eduard         |                               |

|     |               |            |                   |
|-----|---------------|------------|-------------------|
| 873 | Bell          | John       |                   |
| 874 | Brown         | Helen      |                   |
| 875 | Araneda       | Domingo    |                   |
| 876 | Ung           | Sok Eng    |                   |
| 877 | Haynes        | Ann        |                   |
| 878 | Confidential  |            |                   |
| 879 | Chen          | Shaio-Chi  |                   |
| 880 | Yie           | I Lan      |                   |
| 881 | Image         | Lindsay    |                   |
| 882 | Moroney       | Brian      |                   |
| 883 | Burns         | Michelle   |                   |
| 884 | Finlayson     | M          |                   |
| 885 | Baso          | Andi S     |                   |
| 886 | Ride          | Carol      |                   |
| 887 | Mahar         | Caitlin    |                   |
| 888 | Kacala        | Elizabeth  |                   |
| 889 | Nicholls      | Tony       |                   |
| 890 | Seterdal      | Bente      |                   |
| 891 | Onus-King     | Kelvin     |                   |
| 892 | Pantazopoulos | Olga       |                   |
| 893 | Zeevaarder    | Lynette    |                   |
| 894 | Palmer        | Iain       |                   |
| 895 | Lester        | Prue       |                   |
| 896 | McGarvie      | Andrew     |                   |
| 897 | Rolfe         | Margaret   |                   |
| 898 | Cross         | Amy        |                   |
| 899 | Peverell      | Geoff      |                   |
| 900 | Lim           | Tran H     |                   |
| 901 | -             | -          | City of Yarra     |
| 902 | Lawler        | Geoff      | City of Melbourne |
| 903 | Griffin       | Lyn & Paul |                   |
| 904 | Hardy         | John       |                   |

|     |               |              |   |
|-----|---------------|--------------|---|
| 905 | Hewitt        | Robyn        |   |
| 906 | Saint         | John Michael |   |
| 907 | Murley        | Megan        | Clifton Hill Primary School                   |
| 908 | Marshall      | Carol        |   |
| 909 | Kayser        | Deborah      |   |
| 910 | Confidential  |              |   |
| 911 | Araneda       | Mauricio     |   |
| 912 | Sumner        | Jason        | Apex Town Planning - for Schots Home Emporium |
| 913 | Scott         | Robert       |   |
| 914 | Dobson        | Bruce        | City of Boroondara                            |
| 915 | Saxon         | Kylie        |   |
| 916 | Scherder      | Isolde       |   |
| 917 | Marchionna    | Mirella      |   |
| 918 | O'Loughlin    | Patricia     |   |
| 919 | Zovko         | Marina       |   |
| 920 | Eason         | Nina & Bob   |   |
| 921 | Confidential  |              |   |
| 922 | Lee           | Gwen         |   |
| 923 | Brown         | Dr Malcolm   |   |
| 924 | Phandanouvong | Khamsane     |   |
| 925 | Nguyen        | Chinh        |   |
| 926 | Nguyen        | Mai Anh      |   |
| 927 | Nguyen        | Van Anh      |   |
| 928 | Huynh         | Truc         |   |
| 929 | Mui Duong     | Cun          |   |
| 930 | Osman         | Nfissa       |   |
| 931 | Ibrahim       | Salah        |   |
| 932 | Malik         | Mariem       |   |

|     |           |                   |                                  |
|-----|-----------|-------------------|----------------------------------|
| 933 | Ibrahim   | Arhet             |                                  |
| 934 | Ibrahim   | Salma             |                                  |
| 935 | Ali       | Haman<br>Mohammed |                                  |
| 936 | Ahmed     | Tarek             |                                  |
| 937 | Eshte     | Niqist            |                                  |
| 938 | Alayu     | Alemtsehay        |                                  |
| 939 | Grant     | Gerard            |                                  |
| 940 | Drummond  | Cathy             |                                  |
| 941 | Lauria    | Angela            |                                  |
| 942 | Keel      | Thomas            | Fitzroy Residents<br>Association |
| 943 | Clarke    | Phillip           |                                  |
| 944 | Wilson    | Paula             |                                  |
| 945 | Madden    | Angela            |                                  |
| 946 | Stainsby  | Bernadette        |                                  |
| 947 | Mullarvey | Annie Deirdre     |                                  |
| 948 | Ortega    | Vivienne          |                                  |
| 949 | Whaley    | Keith             |                                  |
| 950 | Pinan     | Michelle          |                                  |
| 951 | Rafferty  | Edel              |                                  |
| 952 | Blackman  | Ken               |                                  |
| 953 | O'Hara    | Vern Andrew       |                                  |
| 954 | Lloyd     | Pamela            |                                  |
| 955 | Wyeth     | Trish             |                                  |
| 956 | Nicoll    | Mac               |                                  |
| 957 | Bell      | John              |                                  |
| 958 | McClusky  | Sarah Louise      |                                  |
| 959 | Southby   | Justine           |                                  |
| 960 | Wookey    | Ann               |                                  |
| 961 | Moore     | Pauline & Muriel  |                                  |
| 962 | Gunner    | Andrew            |                                  |

|     |              |                     |                             |
|-----|--------------|---------------------|-----------------------------|
| 963 | Pennings     | Tamara              |                             |
| 964 | Lavender     | Jeremy              |                             |
| 965 | Fernando     | Ruwani              |                             |
| 966 | Elliott      | Rosemary            |                             |
| 967 | Confidential |                     |                             |
| 968 | Nankervis    | John                |                             |
| 969 | Watmough     | Paul                |                             |
| 970 | McClusky     | Kathleen            | Hobsons Bay City<br>Council |
| 971 | Confidential |                     |                             |
| 972 | Powell       | Miriam              |                             |
| 973 | DiLallo      | Raffaello           |                             |
| 974 | deWit        | Shane               |                             |
| 975 | Ryan, Mealor | Reannon &<br>Andrew |                             |
| 976 | Robinson     | Philip              |                             |
| 977 | Williamson   | Kathryn             |                             |
| 978 | Nolan        | Ross                | Confidential                |
| 979 | Hille        | Peter               |                             |
| 980 | Strating     | Corinn              |                             |
| 981 | Yates        | Nicholas            |                             |
| 982 | Quinn        | Shannon             |                             |
| 983 | Quijano      | Emilia              |                             |
| 984 | Villella     | Robert              |                             |
| 985 | Huva         | Denise              |                             |
| 986 | Chambers     | Lyndal              |                             |
| 987 | Dullard      | Jeremy              |                             |
| 988 | Ma           | Andrew              |                             |
| 989 | Taylor       | Pnina               |                             |
| 990 | Urban        | Maria               |                             |
| 991 | Liu          | Mika                |                             |
| 992 | Francis      | Julie               |                             |

|             |              |               |           |
|-------------|--------------|---------------|-----------|
| <b>993</b>  | Read         | Leанда        |           |
| <b>994</b>  | Croeser      | Thami         |           |
| <b>995</b>  | Hansper      | Vera          |           |
| <b>996</b>  | Pern         | Kate          |           |
| <b>997</b>  | Weisfelt     | Peter         |           |
| <b>998</b>  | Beuchat      | Daniel        |           |
| <b>999</b>  | Crellin      | Brittney      |           |
| <b>1000</b> | Hormann      | Peter         |           |
| <b>1001</b> | Chiew        | Angela Ashley |           |
| <b>1002</b> | Grigg        | Tamara        |           |
| <b>1003</b> | Damnics      | Melissa       |           |
| <b>1004</b> | Handley      | John          |           |
| <b>1005</b> | George       | Andrew        |           |
| <b>1006</b> | Rossner      | Matt          |           |
| <b>1007</b> | Rees         | Keith         |           |
| <b>1008</b> | Smithyman    | Dale          |           |
| <b>1009</b> | Chadderton   | John          |           |
| <b>1010</b> | Haydon       | Blair         |           |
| <b>1011</b> | Hartland     | Colleen       | Greens MP |
| <b>1012</b> | Kelly        | Andrew        |           |
| <b>1013</b> | Morris       | Christine     |           |
| <b>1014</b> | Gillies      | Greta         |           |
| <b>1015</b> | Miller       | Stephen       |           |
| <b>1016</b> | Rigg         | Peta          |           |
| <b>1017</b> | Fried        | Margaret      |           |
| <b>1018</b> | Stivens      | Maila         |           |
| <b>1019</b> | Siska        | Lorraine      |           |
| <b>1020</b> | Pritchard    | Evan          |           |
| <b>1021</b> | Rudner       | Julie         |           |
| <b>1022</b> | Hedger       | Brett         |           |
| <b>1023</b> | Wright       | Karen         |           |
| <b>1024</b> | Confidential |               |           |

|             |                    |             |                            |
|-------------|--------------------|-------------|----------------------------|
| <b>1025</b> | Ray                | Eile        |                            |
| <b>1026</b> | Watson             | Catherine   |                            |
| <b>1027</b> | Burgess            | Deborah     |                            |
| <b>1028</b> | Vivian             | Sally       |                            |
| <b>1029</b> | Russell            | Simon       |                            |
| <b>1030</b> | Chester            | Craig       |                            |
| <b>1031</b> | Costanzo           | Adrienne    |                            |
| <b>1032</b> | Said               | Aimee       |                            |
| <b>1033</b> | Macintyre          | Martha      |                            |
| <b>1034</b> | Crowther           | Melanie     |                            |
| <b>1035</b> | Grasso             | Suzanne     |                            |
| <b>1036</b> | Confidential       |             |                            |
| <b>1037</b> | Brew               | Gillian     |                            |
| <b>1038</b> | Thomas             | Josie       |                            |
| <b>1039</b> | Dodd               | Geoffrey    |                            |
| <b>1040</b> | Sprunt             | Beth        |                            |
| <b>1041</b> | Shepherd           | Dalene Mary |                            |
| <b>1042</b> | Casey, van Leeuwen | Sue & Peter |                            |
| <b>1043</b> | Threlfall          | Bill        | Essendon Hockey Management |
| <b>1044</b> | Hempton            | Courtney    |                            |
| <b>1045</b> | Mullins            | Anne        |                            |
| <b>1046</b> | Soanes             | Rebekah     |                            |
| <b>1047</b> | Blustein           | Shifrah     |                            |
| <b>1048</b> | Wright             | Susanne     |                            |
| <b>1049</b> | Lynn               | Joan        |                            |
| <b>1050</b> | Lindsay            | Glenda      |                            |
| <b>1051</b> | Dalla              | John        |                            |
| <b>1052</b> | Berzins            | Karen       |                            |
| <b>1053</b> | Gwosdezki          | Sonja       |                            |
| <b>1054</b> | Collins            | David       |                            |
| <b>1055</b> | Cox                | Joshua      |                            |

|             |              |                 |   |
|-------------|--------------|-----------------|---|
| <b>1056</b> | Withdrawn    |                 |   |
| <b>1057</b> | Havir        | Michael         |   |
| <b>1058</b> | Martin       | Sahra           |   |
| <b>1059</b> | Lafleur      | Dimitri         |   |
| <b>1060</b> | McClelland   | Darren          |   |
| <b>1061</b> | Confidential |                 |   |
| <b>1062</b> | Elliott      | Lucy            |   |
| <b>1063</b> | Whitaker     | Heather         |   |
| <b>1064</b> | Brooks       | Geraldine       |   |
| <b>1065</b> | Kelly        | Jane            |   |
| <b>1066</b> | Swilo        | Aleks           |   |
| <b>1067</b> | Smith        | Colin           |   |
| <b>1068</b> | Darlington   | Melissa         |   |
| <b>1069</b> | Isaac        | Dr David        |   |
| <b>1070</b> | Brady        | T.S.            |   |
| <b>1071</b> | Ride         | John            |   |
| <b>1072</b> | O'Sullivan   | Patrick         | Urban Camp<br>Melbourne Co-<br>operative Ltd        |
| <b>1073</b> | Ellinghaus   | Carli           |   |
| <b>1074</b> | Campbell     | Kirsten         |   |
| <b>1075</b> | Healy        | Geoffrey & Mary |   |
| <b>1076</b> | Finch        | Maggie          |   |
| <b>1077</b> | Clarke       | Alison          | Clifton Hill Child &<br>Adolescent<br>Therapy Group |
| <b>1078</b> | Matina       | Anna            |   |
| <b>1079</b> | Hone         | Christopher     | Royal Park sport Inc                                |
| <b>1080</b> | Robinson     | Brett           |   |
| <b>1081</b> | Ellinghaus   | Alric           |   |
| <b>1082</b> | Dobbinson    | Suzanne         |   |
| <b>1083</b> | Dredge       | Alison          |   |

|             |             |                   |  |
|-------------|-------------|-------------------|--|
| <b>1084</b> | Corbet      | Richard           |  |
| <b>1085</b> | Harms       | Anton             |  |
| <b>1086</b> | Mazur       | Michael           |  |
| <b>1087</b> | Ryrie       | Fay Eileen        |  |
| <b>1088</b> | Calwell     | Dr Mary-Elizabeth |  |
| <b>1089</b> | Kenny       | Marilyn           |  |
| <b>1090</b> | Price       | Daniel            |  |
| <b>1091</b> | Bawden      | Graeme Charles    |  |
| <b>1092</b> | Smith       | Tony              | Moonee Ponds<br>Creek Co-<br>ordination<br>Committee |
| <b>1093</b> | Pannu       | Meegan Ellis      |  |
| <b>1094</b> | Dwyer       | Rohan             |  |
| <b>1095</b> | Hill        | Simone            |  |
| <b>1096</b> | Rash        | Lucy              |  |
| <b>1097</b> | Merewether  | Anthea            |  |
| <b>1098</b> | Smallman    | Tom               |  |
| <b>1099</b> | Norton      | Sarah             |  |
| <b>1100</b> | Christensen | Ellie             |  |
| <b>1101</b> | De Luise    | Michael           |  |
| <b>1102</b> | Beckton     | Gerald            |  |
| <b>1103</b> | McCallum    | Kathryn           |  |
| <b>1104</b> | Clancy      | Rob               |  |
| <b>1105</b> | Down        | Gavin C.          |  |
| <b>1106</b> | Phefley     | David             |  |
| <b>1107</b> | Petinas     | Jennifer          |  |
| <b>1108</b> | Cairnes     | Colin             |  |
| <b>1109</b> | Sarson      | Megan             |  |
| <b>1110</b> | Tam         | Mei               |  |
| <b>1111</b> | Northeast   | Simon             |  |
| <b>1112</b> | Stanyon     | Clem              |  |



|             |              |                 |                        |
|-------------|--------------|-----------------|------------------------|
| <b>1113</b> | Sinclair     | Tristan         |                        |
| <b>1114</b> | McInnes      | Maggie          |                        |
| <b>1115</b> | Bilby        | Scott           |                        |
| <b>1116</b> | O'Shea       | Rosemary        |                        |
| <b>1117</b> | Hooper       | Brad            |                        |
| <b>1118</b> | Cameron      | Judy            |                        |
| <b>1119</b> | Ingleton     | Roxane          |                        |
| <b>1120</b> | Driscoll     | Kate            |                        |
| <b>1121</b> | Geradts      | Karin           |                        |
| <b>1122</b> | Vertigan     | chris           |                        |
| <b>1123</b> | Davis        | Holly           |                        |
| <b>1124</b> | Madden MP    | Justin          | Member for<br>Essendon |
| <b>1125</b> | Jennings     | Kerry           |                        |
| <b>1126</b> | Lichtenstein | Benjamin        |                        |
| <b>1127</b> | Pizzey       | David           |                        |
| <b>1128</b> | Graham       | Heather         |                        |
| <b>1129</b> | Hogg         | Annetter        |                        |
| <b>1130</b> | Galvin       | Pauline         |                        |
| <b>1131</b> | Southby      | Robert & Olivia |                        |
| <b>1132</b> | Kotzman      | Anne            |                        |
| <b>1133</b> | Bolanos      | Carolina        |                        |
| <b>1134</b> | Robertson    | Jessica         |                        |
| <b>1135</b> | Collins      | Kristy          |                        |
| <b>1136</b> | Gooden       | Chris           |                        |
| <b>1137</b> | Adams        | Paul            |                        |
| <b>1138</b> | Campbell     | Neil            |                        |
| <b>1139</b> | Robertson    | Geraldine       |                        |
| <b>1140</b> | Gledhill     | Patritica       |                        |
| <b>1141</b> | Gleeson      | Thomas          |                        |
| <b>1142</b> | Wall         | Katherine       |                        |
| <b>1143</b> | Slinger      | Paul            |                        |

|             |            |             |  |
|-------------|------------|-------------|--|
| <b>1144</b> | Barrett    | Jeanette    |  |
| <b>1145</b> | Scaffidi   | Antionietta |  |
| <b>1146</b> | Withdrawn  |             |  |
| <b>1147</b> | Watts      | Anna        |  |
| <b>1148</b> | Haley      | Lisa        |  |
| <b>1149</b> | White      | Doug        |  |
| <b>1150</b> | Vella      | Peter       |  |
| <b>1151</b> | Ensor      | Bruce       |  |
| <b>1152</b> | Parsons    | Ron         |  |
| <b>1153</b> | Pennington | Steve       |  |
| <b>1154</b> | Doe        | David       |  |
| <b>1155</b> | Brangwyn   | Julia       |  |
| <b>1156</b> | Sheppard   | Jessica     |  |
| <b>1157</b> | Lee        | Sharon      |  |
| <b>1158</b> | Jones      | Greg        |  |
| <b>1159</b> | Jeffery    | Andrew      |  |
| <b>1160</b> | Daley      | Alexandra   |  |
| <b>1161</b> | Affleck    | Max         |  |
| <b>1162</b> | Ahern      | James       |  |
| <b>1163</b> | Cohen      | Samantha    |  |
| <b>1164</b> | Sydenham   | Nicole      |  |
| <b>1165</b> | Palk       | Emily       |  |
| <b>1166</b> | Thomas     | Kate        |  |
| <b>1167</b> | Oberg      | Ranveig     |  |
| <b>1168</b> | Wilkinson  | James       |  |
| <b>1169</b> | Stephen    | Sarah       |  |
| <b>1170</b> | Harris     | David       |  |
| <b>1171</b> | Bird       | Helen       |  |
| <b>1172</b> | Thom       | Alexander   |  |
| <b>1173</b> | Pettifer   | Kate        |  |
| <b>1174</b> | Childe     | Rose        |  |
| <b>1175</b> | Berry      | Claire      |  |

|             |            |               |  |
|-------------|------------|---------------|--|
| <b>1176</b> | Berry      | Wayne         |  |
| <b>1177</b> | Edwards    | Monique       |  |
| <b>1178</b> | Wraight    | Lauren        |  |
| <b>1179</b> | Ormonde    | Jane          |  |
| <b>1180</b> | Bashford   | Elizabeth     |  |
| <b>1181</b> | Warburton  | Julie         |  |
| <b>1182</b> | Alexander  | Claire        |  |
| <b>1183</b> | Hedditch   | John          |  |
| <b>1184</b> | Pizzorno   | Bianca Maciel |  |
| <b>1185</b> | Kennedy    | Esther        |  |
| <b>1186</b> | Bulic      | Stephanie     |  |
| <b>1187</b> | Young      | Jill          |  |
| <b>1188</b> | O'Carrigan | Simon         |  |
| <b>1189</b> | Mansfield  | Neil          |  |
| <b>1190</b> | Wyndom     | Noel          |  |
| <b>1191</b> | Premkumar  | Vellore       |  |
| <b>1192</b> | Settle     | Domenica      |  |
| <b>1193</b> | Shepherd   | Claire        |  |
| <b>1194</b> | Walsh      | Jack          |  |
| <b>1195</b> | Nahed      | Phillip       |  |
| <b>1196</b> | Nahed      | Winifred      |  |
| <b>1197</b> | Sargent    | Gemma         |  |
| <b>1198</b> | Shaw       | Benjamin      |  |
| <b>1199</b> | Powell     | Liz           |  |
| <b>1200</b> | Swayn      | Benjamin      |  |
| <b>1201</b> | Burnham    | Nathan        |  |
| <b>1202</b> | Smith      | Tania         |  |
| <b>1203</b> | Beaumont   | Anna          |  |
| <b>1204</b> | Beaumont   | Jeremy        |  |
| <b>1205</b> | Whelan     | Brent         |  |
| <b>1206</b> | Stammers   | Tom           |  |
| <b>1207</b> | Castaldo   | Peter         |  |

|             |               |            |  |
|-------------|---------------|------------|--|
| <b>1208</b> | Temple        | Rebecca    |  |
| <b>1209</b> | Hooppell      | Carl       |  |
| <b>1210</b> | Weldon        | John       |  |
| <b>1211</b> | Conlan        | James      |  |
| <b>1212</b> | Kalaiya       | Nisarg     |  |
| <b>1213</b> | Bowman        | John       |  |
| <b>1214</b> | Jung          | Gaby       |  |
| <b>1215</b> | Shanahan      | Sophie     |  |
| <b>1216</b> | McPherson     | Kathleen   |  |
| <b>1217</b> | Smith         | Nicholas   |  |
| <b>1218</b> | Wallace       | Elisabeth  |  |
| <b>1219</b> | Davis         | Felix      |  |
| <b>1220</b> | McNaught      | Roz        |  |
| <b>1221</b> | Stanisic      | Michael    |  |
| <b>1222</b> | Begovic       | Joanne     |  |
| <b>1223</b> | McPherson     | Mark       |  |
| <b>1224</b> | Sands         | Alicia     |  |
| <b>1225</b> | Joyce         | Nikki      |  |
| <b>1226</b> | Himbury       | Maelor     |  |
| <b>1227</b> | Henry-Jones   | Eliza-Jane |  |
| <b>1228</b> | Hibbs         | Ben        |  |
| <b>1229</b> | Tanrikut      | Ozge       |  |
| <b>1230</b> | McIntyre      | Beverley   |  |
| <b>1231</b> | Rae           | Clare      |  |
| <b>1232</b> | McCulloch     | Lilliah    |  |
| <b>1233</b> | Clanachan     | Alice      |  |
| <b>1234</b> | Wood          | Melinda    |  |
| <b>1235</b> | Griffin Clark | Felicity   |  |
| <b>1236</b> | Patchett      | Lucy       |  |
| <b>1237</b> | Yu            | Ping       |  |
| <b>1238</b> | Meng          | Vivi       |  |
| <b>1239</b> | Hajdu         | Frank      |  |

|             |           |           |  |
|-------------|-----------|-----------|--|
| <b>1240</b> | Nana      | Natalie   |  |
| <b>1241</b> | Stead     | Sally     |  |
| <b>1242</b> | Robertson | Finn      |  |
| <b>1243</b> | Leggatt   | Tom       |  |
| <b>1244</b> | Young     | Gordon    |  |
| <b>1245</b> | Davey     | Bethany   |  |
| <b>1246</b> | Bravos    | Louis     |  |
| <b>1247</b> | Munari    | Ellie     |  |
| <b>1248</b> | Wilson    | Narelle   |  |
| <b>1249</b> | Morrison  | Andrew    |  |
| <b>1250</b> | Fish      | Bill      |  |
| <b>1251</b> | Lu        | Chin      |  |
| <b>1252</b> | Marginson | Sam       |  |
| <b>1253</b> | Smee      | Peter     |  |
| <b>1254</b> | Hammond   | Joe       |  |
| <b>1255</b> | Johnston  | Andrea    |  |
| <b>1256</b> | Zovko     | Ivan      |  |
| <b>1257</b> | Wilson    | Angus     |  |
| <b>1258</b> | Dekok     | Cornelius |  |
| <b>1259</b> | Renowden  | Felicity  |  |
| <b>1260</b> | Swales    | Penelope  |  |
| <b>1261</b> | Madgwick  | Josh      |  |
| <b>1262</b> | Parkinson | Barbara   |  |
| <b>1263</b> | Cowan     | Bev       |  |
| <b>1264</b> | Wright    | Christine |  |
| <b>1265</b> | Mathew    | Rob       |  |
| <b>1266</b> | Lacey     | Jane      |  |
| <b>1267</b> | Dee       | Dovey     |  |
| <b>1268</b> | Bloxom    | Kay       |  |
| <b>1269</b> | Glaisher  | Rosemary  |  |
| <b>1270</b> | Chandley  | Teresa    |  |
| <b>1271</b> | Dunne     | Russell   |  |

|             |                    |          |                               |
|-------------|--------------------|----------|-------------------------------|
| <b>1272</b> | Angelopoulos       | Kristy   |                               |
| <b>1273</b> | Johnson            | Fay      |                               |
| <b>1274</b> | Ashdowne           | Lisa     |                               |
| <b>1275</b> | Gould              | Naralia  |                               |
| <b>1276</b> | Pavey              | Trixie   |                               |
| <b>1277</b> | Bambridge          | Greg     |                               |
| <b>1278</b> | Freeman            | Julia    |                               |
| <b>1279</b> | Howland            | Mark     |                               |
| <b>1280</b> | Love-Dack          | A        |                               |
| <b>1281</b> | Evans              | Bianca   |                               |
| <b>1282</b> | Birch              | Hayden   |                               |
| <b>1283</b> | Feely              | Eliza    |                               |
| <b>1284</b> | Lewis              | Gabriel  |                               |
| <b>1285</b> | James              | Simon    |                               |
| <b>1286</b> | Williams           | Pauline  |                               |
| <b>1287</b> | Keem               | Norelle  |                               |
| <b>1288</b> | Kouvaras           | Linda    |                               |
| <b>1289</b> | Young              | Merryn   |                               |
| <b>1290</b> | May                | Wayne    |                               |
| <b>1291</b> | Carli              | Carlo    | Brunswick Zebra Football Club |
| <b>1292</b> | Chandra            | Bhavna   |                               |
| <b>1293</b> | Smith              | Ben      |                               |
| <b>1294</b> | Bourke             | Roslynne |                               |
| <b>1295</b> | Ellis              | Caitlyn  |                               |
| <b>1296</b> | Collard            | Peita    |                               |
| <b>1297</b> | Farrugia           | Matthew  |                               |
| <b>1298</b> | Campbell           | Ryan     |                               |
| <b>1299</b> | van den Nieuwenhof | Amy      |                               |
| <b>1300</b> | Bond               | Phoebe   |                               |
| <b>1301</b> | Cunningham         | Pam      |                               |
| <b>1302</b> | Bergsdorf          | Claudia  |                               |

|             |             |           |  |
|-------------|-------------|-----------|--|
| <b>1303</b> | Moscovitch  | Jackie    |  |
| <b>1304</b> | Ross        | Eloise    |  |
| <b>1305</b> | Field       | Mandy     |  |
| <b>1306</b> | Magree      | Jaclyn    |  |
| <b>1307</b> | Richmond    | Rachel    |  |
| <b>1308</b> | Greiner     | Arnold    |  |
| <b>1309</b> | Walker      | Adrienne  |  |
| <b>1310</b> | Clemente    | Maryane   |  |
| <b>1311</b> | Wigg        | Sarah     |  |
| <b>1312</b> | Reid        | Gordon    |  |
| <b>1313</b> | Lupone      | Joe       |  |
| <b>1314</b> | Lindner     | Justin    |  |
| <b>1315</b> | Foster      | Jeannie   |  |
| <b>1316</b> | Montgomery  | Ian       |  |
| <b>1317</b> | Musil       | Dan       |  |
| <b>1318</b> | Bailey      | Allie     |  |
| <b>1319</b> | Treadwell   | Greg      |  |
| <b>1320</b> | Faull       | Amy       |  |
| <b>1321</b> | Moysey      | Stuart    |  |
| <b>1322</b> | Bolduan     | Emily     |  |
| <b>1323</b> | Lightfoot   | Stephen   |  |
| <b>1324</b> | Blight      | Taryn     |  |
| <b>1325</b> | Taylor      | Richard   |  |
| <b>1326</b> | Dawes       | Alice     |  |
| <b>1327</b> | Kline       | Alex      |  |
| <b>1328</b> | Jungalwalla | Kimberley |  |
| <b>1329</b> | Moore       | Clancy    |  |
| <b>1330</b> | Pham        | Kim       |  |
| <b>1331</b> | Wani        | Saheem    |  |
| <b>1332</b> | Mok         | Fei       |  |
| <b>1333</b> | Pennacchia  | Paolo     |  |
| <b>1334</b> | Chan        | Stephanie |  |

|             |             |                 |  |
|-------------|-------------|-----------------|--|
| <b>1335</b> | Butcher     | Nikki           |  |
| <b>1336</b> | Reiss       | Nicola          |  |
| <b>1337</b> | Freeland    | Ava             |  |
| <b>1338</b> | Chadwick    | Remy            |  |
| <b>1339</b> | Barrett     | Suzie           |  |
| <b>1340</b> | Pett        | Akash           |  |
| <b>1341</b> | Dwyer       | Sally           |  |
| <b>1342</b> | Townsend    | Craig           |  |
| <b>1343</b> | McDermott   | Angela          |  |
| <b>1344</b> | Prideaux    | Alex            |  |
| <b>1345</b> | Buck        | Miranda         |  |
| <b>1346</b> | Suelzle     | Sophie          |  |
| <b>1347</b> | Fine        | Naima           |  |
| <b>1348</b> | Petterson   | Michelle        |  |
| <b>1349</b> | Bertram     | Hannah          |  |
| <b>1350</b> | Watkins     | Ashlee          |  |
| <b>1351</b> | Soccio      | Philippa        |  |
| <b>1352</b> | Stutterheim | Cath            |  |
| <b>1353</b> | Gould       | Mark            |  |
| <b>1354</b> | Lenko       | Eytan           |  |
| <b>1355</b> | Edgar       | Trelawney       |  |
| <b>1356</b> | Catherall   | Janice          |  |
| <b>1357</b> | Musil       | Dan             |  |
| <b>1358</b> | Sy          | Herbert Velasco |  |
| <b>1359</b> | Sy          | Liza            |  |
| <b>1360</b> | Kleinmaker  | Ellen           |  |
| <b>1361</b> | Denborough  | Liz             |  |
| <b>1362</b> | Cassidy     | Meran           |  |
| <b>1363</b> | Kos         | Karin           |  |
| <b>1364</b> | Harris      | Oliver          |  |
| <b>1365</b> | Sheridan    | Tristarnya      |  |
| <b>1366</b> | Mordue      | Cherie          |  |

|             |                 |             |  |
|-------------|-----------------|-------------|--|
| <b>1367</b> | Tyson           | Esme        |  |
| <b>1368</b> | Jefferson       | David       |  |
| <b>1369</b> | Farren          | Anne-Louise |  |
| <b>1370</b> | Smith           | Kylie       |  |
| <b>1371</b> | Miron           | Annee       |  |
| <b>1372</b> | Rizzo           | Tom         |  |
| <b>1373</b> | Hicks           | Harry       |  |
| <b>1374</b> | Woods           | Jade        |  |
| <b>1375</b> | Summers         | Elliot      |  |
| <b>1376</b> | Davine          | Richard     |  |
| <b>1377</b> | Abed            | Maha        |  |
| <b>1378</b> | Frederick       | Paul        |  |
| <b>1379</b> | Balfour         | Erin        |  |
| <b>1380</b> | Doyle           | John        |  |
| <b>1381</b> | Chambers        | Fleur       |  |
| <b>1382</b> | Bishop          | Tania       |  |
| <b>1383</b> | Ross            | Greg        |  |
| <b>1384</b> | O'Dwyer         | Dominic     |  |
| <b>1385</b> | Delacretaz      | Tyler       |  |
| <b>1386</b> | Philipp         | Vicki       |  |
| <b>1387</b> | Cooper          | Marie-Anne  |  |
| <b>1388</b> | Fogaty          | Thomas      |  |
| <b>1389</b> | Dellal          | Zerin       |  |
| <b>1390</b> | Townsend        | Amanda      |  |
| <b>1391</b> | Potter          | Mick        |  |
| <b>1392</b> | Howes           | Elizabeth   |  |
| <b>1393</b> | Shoduri         | Soner       |  |
| <b>1394</b> | Storm           | Caroline    |  |
| <b>1395</b> | Riseley         | Kerryn L    |  |
| <b>1396</b> | Kinrade         | Steve       |  |
| <b>1397</b> | Gook            | Ben         |  |
| <b>1398</b> | Yupangco-Elloso | Monica      |  |

|             |                 |                 |  |
|-------------|-----------------|-----------------|--|
|             |                 | Antoinette      |  |
| <b>1399</b> | Edwards         | Grace           |  |
| <b>1400</b> | Buck            | Jonathan        |  |
| <b>1401</b> | Sommer          | Kristofer       |  |
| <b>1402</b> | Fairman         | Tom             |  |
| <b>1403</b> | Davidson Gluyas | Sophia          |  |
| <b>1404</b> | Burnham         | Tabitha         |  |
| <b>1405</b> | Grant           | Angus           |  |
| <b>1406</b> | Lewis           | Nigel           |  |
| <b>1407</b> | Browning        | Marilyn Gaye    |  |
| <b>1408</b> | Anwyl           | Jill            | Princes Hill North<br>Carlton Heritage<br>Network Inc. |
| <b>1409</b> | Smelter         | Danielle        |  |
| <b>1410</b> | Thomas          | Warwick         |  |
| <b>1411</b> | Connor          | Rachel          |  |
| <b>1412</b> | Newnham         | Karina          |  |
| <b>1413</b> | Storey          | Rohan           |  |
| <b>1414</b> | Speechley       | Soon Tzu        |  |
| <b>1415</b> | Forman          | John            |  |
| <b>1416</b> | Bull            | Caitlin         |  |
| <b>1417</b> | Carroll         | Dominic         |  |
| <b>1418</b> | Anthony         | Diana           |  |
| <b>1419</b> | Turnbull        | James           |  |
| <b>1420</b> | Bell-Merrick    | Kerriane        |  |
| <b>1421</b> | Withdrawn       |                 |  |
| <b>1422</b> | Common          | Penny           |  |
| <b>1423</b> | Fletcher        | Michael & Tania |  |
| <b>1424</b> | Chapman         | Marion          |  |
| <b>1425</b> | Rybicki         | Julitta         |  |
| <b>1426</b> | Frawley         | Nola            |  |
| <b>1427</b> | Dunne           | Ian, Suzanne, & |  |

|             |               |           |                                    |
|-------------|---------------|-----------|------------------------------------|
|             |               | Rebecca   |                                    |
| <b>1428</b> | Schinkel      | Maurice   |                                    |
| <b>1429</b> | Holden        | Judy      |                                    |
| <b>1430</b> | O'Neill       | Kerry     |                                    |
| <b>1431</b> | Brown         | Jessica   |                                    |
| <b>1432</b> |               |           | Australian Garden History Society  |
| <b>1433</b> | Withdrawn     |           |                                    |
| <b>1434</b> | Amarant       | Margaret  |                                    |
| <b>1435</b> | Clelland Gray | Pamela    |                                    |
| <b>1436</b> | -             | -         | Heavy Vehicle Drivers of Melbourne |
| <b>1437</b> | Abdellah      | Hayat     |                                    |
| <b>1438</b> | Barker        | Bridget   |                                    |
| <b>1439</b> | Barker        | Geordie   |                                    |
| <b>1440</b> | Bourke        | Peter     |                                    |
| <b>1441</b> | Callister     | Geraldine |                                    |
| <b>1442</b> | Chapman       | Robert    |                                    |
| <b>1443</b> | Condie        | Judith    |                                    |
| <b>1444</b> | Foote         | Russel    |                                    |
| <b>1445</b> | Dorizzi       | Terry     |                                    |
| <b>1446</b> | Withdrawn     |           |                                    |
| <b>1447</b> | Withdrawn     |           |                                    |
| <b>1448</b> | Greig         | Adam      |                                    |
| <b>1449</b> | Helme         | Beryl     |                                    |
| <b>1450</b> | Hirtzel       | Greg      |                                    |
| <b>1451</b> | Withdrawn     |           |                                    |
| <b>1452</b> | Leeman        | Ben       |                                    |
| <b>1453</b> | Mitchell      | Michelle  |                                    |
| <b>1454</b> | Mitchell      | Andrew    |                                    |
| <b>1455</b> | Withdrawn     |           |                                    |

|             |                |           |  |
|-------------|----------------|-----------|--|
| <b>1456</b> | McGravie       | Ross      |  |
| <b>1457</b> | Mahmoud        | Ehsan     |  |
| <b>1458</b> | Withdrawn      |           |  |
| <b>1459</b> | O'Hoy          | Anne      |  |
| <b>1460</b> | Price          | John      |  |
| <b>1461</b> | Paleologoudias | Fay       |  |
| <b>1462</b> | Plarre         | Bronwyn   |  |
| <b>1463</b> | Perclær        | Megan     |  |
| <b>1464</b> | Polis          | Ann       |  |
| <b>1465</b> | Robertson      | Kimberley |  |
| <b>1466</b> | Ruwhm          | Howard    |  |
| <b>1467</b> | Ryan           | Colin     |  |
| <b>1468</b> | Rode           | Margaret  |  |
| <b>1469</b> | Withdrawn      |           |  |
| <b>1470</b> | Ross           | Ian       |  |
| <b>1471</b> | Silke          | John      |  |
| <b>1472</b> | Withdrawn      |           |  |
| <b>1473</b> | Spalding       | Nikki     |  |
| <b>1474</b> | Sharp          | Marcus    |  |
| <b>1475</b> | Withdrawn      |           |  |
| <b>1476</b> | Wescott        | Geoffrey  |  |
| <b>1477</b> | Temple         | Rhiannon  |  |

## Appendix C: Hearing Document List





**PRELIMINARY HEARING:****Tuesday 14 January 2014**

| <b>Document No.</b> | <b>Description</b>   | <b>Tabled by</b>          |
|---------------------|--|---------------------------|
| 1                   | East West Link Assessment Committee : Request for information under Section 57(4) of the Act (13 January 2014) | Assessment Committee      |
| 2                   | Information request from the City of Melbourne   | Ian Pitt SC for Melbourne |
| 3                   | East West Link – Preliminary hearing matters   | Michael Ingram            |
| 4                   | Letter to Chair of Assessment Committee (10 January 2014)  | Andrew Herington          |
| 5                   | Letter to Chair of Assessment Committee (13 January 2014)  | Gordon Ley                |

**PUBLIC HEARINGS:****DAY 1                      Monday 3 March 2014**

| <b>Document No.</b> | <b>Description</b>                                   | <b>Tabled by</b>                            |
|---------------------|--|---|
| 6                   | Conclave Statement – Groundwater                     | Stuart Morris QC for LMA                    |
| 7                   | Conclave Statement – Social                          | Stuart Morris QC for LMA                    |
| 8                   | Conclave Statement – Historical Heritage             | Stuart Morris QC for LMA                    |
| 9                   | Conclave Statement – Noise and Vibration             | Stuart Morris QC for LMA                    |
| 10                  | City of Melbourne Opening Submission                 | Ian Pitt SC for City of Melbourne           |
| 11                  | City of Melbourne Preferred Performance Requirements | Ian Pitt SC for City of Melbourne           |
| 12                  | Yarra City Council Opening Submission                | Adrian Finanzio SC for Yarra City Council   |
| 13                  | City of Moonee Valley Opening Submission             | Louise Hicks for Moonee Valley City Council |
| 14                  | Community Groups Opening Submission (Parts A & B)    | Tom Pikusa                                  |
| 15                  | Submitter Locations (22 sheets)                      | Stuart Morris QC for LMA                    |

**DAY 2**                      **Tuesday 4 March 2014**

| <b>Document No.</b> | <b>Description</b>   | <b>Tabled by</b>                          |
|---------------------|--|---|
| 16                  | Supplementary Submission – Terry Croft                                   | Terry Croft                               |
| 17                  | Andrew Herington letter – 4 March 2014                                   | Andrew Herington                          |
| 18                  | EPA Clean-Up Notice  | Katy McGuinness for EPA                   |
| 19                  | EPA Opening Submission   | Katy McGuinness for EPA                   |
| 20                  | Arden-Macaulay Structure Plan  | Ian Pitt SC for City of Melbourne         |
| 21                  | Objections by Yarra City Council - General                               | Adrian Finanzio SC for Yarra City Council |
| 22                  | Objections by Yarra City Council - Pelosi                                | Adrian Finanzio SC for Yarra City Council |
| 23                  | Outline of Opening Submission on behalf of LMA                           | Stuart Morris QC for LMA                  |
| 24                  | Desalination Project Incorporated Document                               | Stuart Morris QC for LMA                  |
| 25                  | Peninsula Link Incorporated Document                                     | Stuart Morris QC for LMA                  |
| 26                  | Regional Rail Incorporated Document                                      | Stuart Morris QC for LMA                  |
| 27                  | City Link Project Overlay  | Stuart Morris QC for LMA                  |
| 28                  | Conclave Statement - Biodiversity  | Stuart Morris QC for LMA                  |
| 29                  | Conclave Statement - Air Quality   | Stuart Morris QC for LMA                  |
| 30                  | Conclave Statement - Traffic / Transport and Road Design - Parts A and B | Stuart Morris QC for LMA                  |
| 31                  | Transport Good Design – Office of Victorian Government Architect         | Nick Tweedie SC for LMA                   |
| 32                  | Appendix S7 – Urban and Landscape Design                                 | Nick Tweedie SC for LMA                   |
| 33                  | Appendix A7 – Urban and Landscape Design                                 | Nick Tweedie SC for LMA                   |
| 34                  | Melbourne Planning Scheme Extracts and VCAT Rulings                      | Nick Tweedie SC for LMA                   |

**DAY 3**                      **Wednesday 5 March 2014**

| <b>Document No.</b> | <b>Description</b>   | <b>Tabled by</b>        |
|---------------------|--|-------------------------|
| 35                  | Submission regarding powers of East West Assessment Committee  | Andrew Herington        |
| 36                  | Letter responding to LMA opening submission                    | Gordon Ley              |
| 37                  | Summary of expert evidence – Veitch PowerPoint presentation    | Mike Veitch             |
| 38                  | 2013 Veitch Lister Base Case Development (G1 scenario)         | Nick Tweedie SC for LMA |
| 39                  | Pelosi response to other expert reports                        | Nick Tweedie SC for LMA |
| 40                  | Summary of expert evidence of Pelosi – PowerPoint presentation | Nick Tweedie SC for LMA |
| 41                  | Brock comment on expert reports of others (replaced)           | Nick Tweedie SC for LMA |

**DAY 4**                      **Thursday 6 March 2014**

| <b>Document No.</b> | <b>Description</b>   | <b>Tabled by</b>                                 |
|---------------------|--|--|
| 42                  | Brock PowerPoint presentation  | Nick Tweedie SC for LMA                          |
| 43                  | Figure C - viaduct image provided by Peyton of SNRP                                    | Chris Wren SC for AC on behalf of Anthony Peyton |
| 44                  | Traffic Count Points in Alexandra Parade (Map)   | Nick Tweedie SC for LMA                          |
| 45                  | Expert Witness Template (LMA) – Peer Review Version                                    | Nick Tweedie SC for LMA                          |
| 46                  | Extract from <i>Transport Integration Act 2010</i>                                     | Chris Wren SC for AC                             |
| 47                  | Preliminary Consolidated Advice on Expert Evidence from Bennet to Assessment Committee | Assessment Committee Chair                       |
| 48                  | Expert Witness Template (LMA) – CIS Author Version                                     | Stuart Morris QC for LMA                         |

**DAY 5**                      **Friday 7 March 2014**

| <b>Document No.</b> | <b>Description</b>                                   | <b>Tabled by</b>         |
|---------------------|--|--------------------------|
| 49                  | Clarification of Committee's Request for Information | Stuart Morris QC for LMA |
| 50                  | Stoettrup PowerPoint presentation                    | Stuart Morris QC for LMA |

| Document No. | Description  | Tabled by                    |
|--------------|--|------------------------------|
| 51           | Extract from Official Website of the Diverging Diamond Interchange   | Adrian Finanzio SC for Yarra |
| 52           | Extract from Federal Highways Administration (US) – <i>Alternative Intersections/Interchanges: Informational Report (AIIR)</i> | Adrian Finanzio SC for Yarra |
| 53           | SGS Report: <i>Long run economic and land use impacts of major infrastructure projects July 2012</i>                           | Stuart Morris QC for LMA     |
| 54           | Wyatt PowerPoint presentation  | Stuart Morris QC for LMA     |
| 55           | Preliminary Urban Design Principles  | Stuart Morris QC for LMA     |
| 56           | Stoettrup PowerPoint presentation  | Stuart Morris QC for LMA     |
| 57           | Department of Transport, <i>Job density, productivity and the role of transport June 2012</i>                                  | Rupert Watters for Yarra     |
| 58           | Response to EMF not including Social and Business Impacts not Included   | Stuart Morris QC for LMA     |
| 59           | Alexandra Parade Traffic Volumes (replacement 44)  | Stuart Morris QC for LMA     |
| 60           | Convergence Results from Zenith Model  | Nick Tweedie SC for LMA      |
| 61           | Zenith Model Sensitive Tests undertaken by VLC   | Nick Tweedie SC for LMA      |
| 62           | Enlargement of Slide 7 from Brock Presentation   | Nick Tweedie SC for LMA      |
| 63           | PowerPoint Slides from LMA Opening   | Stuart Morris QC for LMA     |

#### DAY 6 Tuesday 11 March 2014

| Document No. | Description   | Tabled by                |
|--------------|---|--------------------------|
| 64           | Urban Circus clarification of measured heights in 3D Model provided during Urban Circus model fly-through | Stuart Morris QC for LMA |
| 65           | Hay PowerPoint presentation   | Barnaby Chessell for LMA |
| 66           | Comments on Surface Water Aspects of Statements by Shears and Webb  | Barnaby Chessell for LMA |
| 67           | Letter from Lane to Clayton Utz re Vegetation in Moonee Ponds Creek                                       | Barnaby Chessell for LMA |
| 68           | Clause 52.17 of Melbourne Planning Scheme   | Barnaby Chessell for LMA |
| 69           | Lane PowerPoint presentation  | Barnaby Chessell for LMA |

| Document No. | Description  | Tabled by               |
|--------------|--|-------------------------|
| 70           | Response by Lovell to other Heritage experts                               | Nick Tweedie SC for LMA |
| 71           | Lovell PowerPoint presentation   | Nick Tweedie SC for LMA |
| 72           | Response to Assessment Committee request for traffic inputs to Noise Model | Nick Tweedie SC for LMA |

### DAY 7                      Wednesday 12 March 2014

| Document No. | Description   | Tabled by                 |
|--------------|---|---------------------------|
| 73           | Letter 11 March 2014, Re: Alternatives to Hoddle Street Overpass  | Andrew Herrington         |
| 74           | Royal Park Regulations, RS5242, 1204333, 26 September 1934  | Ian Pitt SC for Melbourne |
| 75           | Proposed East West Link Possible Interchange at Flemington Road Instead of Elliott Avenue: Design Considerations    | Ian Pitt SC for Melbourne |
| 76           | Fearnside PowerPoint presentation   | Nick Tweedie SC for LMA   |
| 77           | Review of Expert Reports by Fearnside (Noise)   | Nick Tweedie SC for LMA   |
| 78           | Clause 13.04, Victoria Planning Provisions  | Chris Wren SC for AC      |
| 79           | Extracts from <i>A Guide to the Reduction of Traffic Noise, For use by Builders, Designers and Residents</i> , 2003 | Chris Wren SC for AC      |
| 80           | NSW Road Noise Policy, March 2011   | Chris Wren SC for AC      |
| 81           | VicRoads Noise Policy, Undated but said to be 2005  | Nick Tweedie SC for LMA   |
| 82           | Heilig PowerPoint presentation  | Nick Tweedie SC for LMA   |
| 83           | Heilig, Correspondence dated March 5, 2014: Comments on other expert reports  | Nick Tweedie SC for LMA   |
| 84           | Heilig, Correspondence dated March 10, 2014: Initial review of Flagstaff Consulting Report                          | Nick Tweedie SC for LMA   |
| 85           | A3 Diagram of Tunnel Boring Machine, Well Connected Alliance, Undated   | Chris Wren SC for AC      |
| 86           | Nadebaum, Correspondence dated 12 March 2014: Response to Flagstaff Consulting Report                               | Barnaby Chessell for LMA  |
| 87           | Nadebaum, Correspondence dated 12 March 2014: Response to Evidence of Professor Webb                                | Barnaby Chessell for LMA  |
| 88           | Nadebaum, Correspondence dated 12 March 2014: response to EPA submission  | Barnaby Chessell for LMA  |

| Document No. | Description   | Tabled by                |
|--------------|---|--------------------------|
| 89           | Nadebaum PowerPoint presentation  | Barnaby Chessell for LMA |
| 90           | Anderson, Correspondence dated 12 March 2014: Response to Flagstaff Consulting Report | Barnaby Chessell for LMA |
| 91           | Anderson PowerPoint presentation  | Barnaby Chessell for LMA |
| 92           | Anderson response to EPA submission   | Barnaby Chessell for LMA |
| 93           | Revised LMA Answer to Question 21 of the S57(4) Report                                | Stuart Morris QC for LMA |
| 94           | Response to Assessment Committee Questions Arising from Document 59                   | Stuart Morris QC for LMA |

#### DAY 8 Thursday 13 March 2014

| Document No. | Description   | Tabled by                |
|--------------|---|--------------------------|
| 95           | Patrick PowerPoint presentation   | Nick Tweedie SC for LMA  |
| 96           | Nesbitt PowerPoint presentation   | Stuart Morris QC for LMA |
| 97           | Public Response to Expert Material – Social (Nesbitt)   | Stuart Morris QC for LMA |
| 98           | Extract of <i>Investing in Transport</i> , Eddington Study, 2008  | Rupert Watters for Yarra |
| 99           | East West Link Needs Study, Demographic , Social and Land Use Analysis, Phase 1 Background Research, SGS Report, March 2008 | Rupert Watters for Yarra |
| 100          | Submission on <i>Transport Integration Act 2010</i> and ‘minimise’  | Stuart Morris QC for LMA |

#### DAY 9 Friday 14 March 2014

| Document No. | Description  | Tabled by                  |
|--------------|--|----------------------------|
| 101          | Submission from Australian Garden History Society (1432) | Assessment Committee Chair |
| 102          | Correspondence from Croft, 13 March 2014                 | Assessment Committee Chair |
| 103          | Opening submission – City of Melbourne                   | Ian Pitt SC for Melbourne  |
| 104          | Keys PowerPoint presentation                             | Ian Pitt SC for Melbourne  |

| Document No. | Description   | Tabled by                 |
|--------------|---|---------------------------|
| 105          | Extract of Melways – Maps 40-44   | Chris Wren SC for AC      |
| 106          | Westlink News, Community Update, LMA, October 2010  | Stuart Morris QC for LMA  |
| 107          | Heritage Victoria, <i>Assessment of Cultural Heritage Significance and Executive Director Recommendation to the Heritage Council</i> , 21 February 2014 | Ian Pitt SC for Melbourne |
| 108          | Correspondence from Eric Keys & Associates to Melbourne Regarding Submission on East West Link CIS  | Ian Pitt SC for Melbourne |
| 109          | Higgs PowerPoint presentation   | Ian Pitt SC for Melbourne |
| 110          | LMA Response to the Possible Intersections at Flemington Road   | Nick Tweedie SC for LMA   |
| 111          | Plan from Higgs – Hand Annotated – Areas of Design Outside Project Boundary   | Ian Pitt SC for Melbourne |
| 112          | Beresford PowerPoint presentation   | Ian Pitt SC for Melbourne |
| 113          | Email string Regarding Beresford's instructions   | Ian Pitt SC for Melbourne |
| 114          | Submission from LMA regarding Clause 52.17 Planted Vegetation Exemption   | Stuart Morris QC for LMA  |

#### DAY 10 Monday 17 March 2014

| Document No. | Description  | Tabled by                  |
|--------------|--|----------------------------|
| 115          | Letter from Ursida, 15 March 2014 regarding: copies of documents; traffic information                            | Assessment Committee Chair |
| 116          | Letter from Herington, 17 March 2014 regarding consideration of economic and submissions; additional site visits | Andrew Herington           |
| 117          | Letter from Ley, 17 March 2014 regarding further documentation required by the Committee                         | Gordon Ley                 |
| 118          | Bull PowerPoint presentation   | Ian Pitt SC for Melbourne  |
| 119          | Two A3 Plans of Summer and Winter Sports Grounds for Hire in Royal Park  | Stuart Morris QC for LMA   |
| 120          | Townsend PowerPoint presentation   | Ian Pitt SC for Melbourne  |
| 121          | Lester PowerPoint presentation   | Chris Lester               |
| 122          | <i>The health benefits of urban green spaces: a review of the evidence</i> , ACK Lee, R Maheswaran (2010)        | Stuart Morris QC for LMA   |

**DAY 11**                      **Tuesday 18 March 2014**

| <b>Document No.</b> | <b>Description</b>  | <b>Tabled by</b>  |
|---------------------|---|---|
| 123                 | <i>Morbidity is related to a green living environment</i> , Maas et al (2009)                 | Stuart Morris QC for LMA  |
| 124                 | Royal Park diagram put to Bull  | Stuart Morris QC for LMA  |
| 125                 | Copenhagen picture put to Bull  | Stuart Morris QC for LMA  |
| 126                 | Performance requirements summary Section 13.3, requested by Wren from Hay on Tuesday 11 March | Barnaby Chessell for LMA  |
| 127                 | Porteous PowerPoint presentation  | Ian Pitt SC for Melbourne                                       |
| 128                 | McGauran PowerPoint presentation  | Adrian Finanzio SC for Yarra                                    |
| 129                 | Letter of instruction to McGauran, 31 January 2014 from Moonee Valley CC                      | Adrian Finanzio SC for Yarra                                    |
| 130                 | <i>A first look at Underpass Park in Toronto</i> , web extract, 2012                          | Adrian Finanzio SC for Yarra                                    |
| 131                 | Extract of Melbourne C171 Panel Report  | Stuart Morris QC for LMA  |
| 132                 | 2two x A3 Bus Journey Diagrams, 2006, 2011  | Stuart Morris QC for LMA  |
| 133                 | Moore PowerPoint presentation   | Ian Pitt SC for Melbourne                                       |
| 134                 | Two A4 plans – Precinct 5 – Alternative Option (source unclear)                               | Chris Wren for AC on behalf of Kensington Residents Association |
| 135                 | Clause 22.18 to the Melbourne Planning Scheme   | Nick Tweedie SC for LMA   |

**DAY 12**                      **Wednesday 19 March 2014**

| <b>Document No.</b> | <b>Description</b>   | <b>Tabled by</b>          |
|---------------------|--|---------------------------|
| 136                 | Responses to Question from Assessment Committee from Fearnside, 13 March 2014  | Nick Tweedie SC for LMA   |
| 137                 | Dyson PowerPoint presentation  | Ian Pitt SC for Melbourne |
| 138                 | Response by Dyson to expert evidence, 18 March 2014  | Ian Pitt SC for Melbourne |
| 139                 | Extracts from <i>Cultural and Historic Significance of Royal Park</i> , September 2013   | Nick Tweedie SC for LMA   |
| 140                 | Extract from Presentation by Dyson, 8 July 2009 titled <i>Vulnerable Scenery: shifting dynamics of the natural aesthetic in Australian postwar gardens</i> | Nick Tweedie SC for LMA   |



| Document No. | Description  | Tabled by                      |
|--------------|--|--------------------------------|
| 141          | Royal Park Master Plan 1998  | Ian Pitt SC for Melbourne      |
| 142          | Extract from Essendon Baseball Club website: <i>Ross Straw (VIC)</i>                 | Ian Pitt SC for Melbourne      |
| 143          | Shears PowerPoint presentation   | Ian Pitt SC for Melbourne      |
| 144          | Two A4 plan – Change in Total Daily Traffic Volumes                                  | Nick Tweedie SC for LMA        |
| 145          | Iser PowerPoint presentation   | Rose Iser                      |
| 146          | Biodiversity Assessment Guidelines, September 2013                                   | Barnaby Chessell for LMA       |
| 147          | Two A4 plans of additional trees suggested by City of Melbourne                      | Barnaby Chessell for LMA       |
| 148          | East West Link Short Form Business Case Executive Summary                            | Stuart Morris QC for LMA       |
| 149          | Correspondence to Clayton Utz from Nadebaum, 19 March 2014 in response to AC Queries | Stuart Morris QC for LMA       |
| 150          | Email string and Additional Declaration from Henshall re Instructions                | Ian Pitt SC for Melbourne      |
| 151          | Correspondence from Moonee Valley CC to Henshall, 30 January 2014 re instructions    | Ian Pitt SC for Melbourne      |
| 152          | Henshall PowerPoint presentation   | Ian Pitt SC for Melbourne      |
| 153          | Suggested Performance Requirements from Moonee Valley, A3 Spreadsheet                | Louise Hicks for Moonee Valley |
| 154          | Melbourne Planning Scheme Proposed Expanded DDO26 Map and Schedule (Amendment C190)  | Stuart Morris QC for LMA       |
| 155          | Census Profile Extracts for Melbourne  | Stuart Morris QC for LMA       |
| 156          | Census Profile Extracts for Moonee Valley  | Stuart Morris QC for LMA       |
| 157          | Census Profile Extracts for Yarra  | Stuart Morris QC for LMA       |

### DAY 13 Thursday 20 March 2014

| Document No. | Description   | Tabled by                  |
|--------------|---|----------------------------|
| 158          | AC Request – Clarification of Forecast Traffic Volumes from LMA | Assessment Committee Chair |
| 159          | Notes from Dyson evidence given on 19 March 2014                | Ian Pitt SC for Melbourne  |

| Document No. | Description   | Tabled by                      |
|--------------|---|--------------------------------|
| 160          | <i>The role of mandatory provisions in planning schemes</i> , Practice Note 59, September 2010                      | Stuart Morris QC for LMA       |
| 161          | Submission of Ley in relation to Committee's requests for information   | Gordon Ley                     |
| 162          | Nesbitt comments on Rosen's Recommended Amendments to the Performance Requirements, 19 March 2014                   | Stuart Morris QC for LMA       |
| 163          | Folder of Material from Moonee Valley, including 9 tabs and various strategies/policy documents                     | Louise Hicks for Moonee Valley |
| 164          | Plan of land excised for construction of CityLink   | Louise Hicks for Moonee Valley |
| 165          | Ormond Park Master Plan   | Louise Hicks for Moonee Valley |
| 166          | Travancore Park Final Concept, 18 December 2012   | Louise Hicks for Moonee Valley |
| 167          | Debneys Park Active Play and Community Spaces Brochure  | Louise Hicks for Moonee Valley |
| 168          | A4 Plan of East West Link proposal impacts on Ormond Park, March 2014   | Louise Hicks for Moonee Valley |
| 169          | A4 Plan of East West Link proposal impacts on Travancore Park, March 2014   | Louise Hicks for Moonee Valley |
| 170          | A4 Plan of East West Link proposal impacts on Debneys Park, March 2014  | Louise Hicks for Moonee Valley |
| 171          | A3 Copy of Appendix A to Moonee Valley Submission   | Louise Hicks for Moonee Valley |
| 172          | Design Interventions for Moonee Ponds Creek Budget and Justification  | Louise Hicks for Moonee Valley |
| 173          | Correspondence to O'Brien from Moonee Valley CC, re instructions, 31 January 2014                                   | Louise Hicks for Moonee Valley |
| 174          | E-mail string between O'Brien and Moonee Valley CC, re instructions   | Louise Hicks for Moonee Valley |
| 175          | O'Brien PowerPoint presentation   | Louise Hicks for Moonee Valley |
| 176          | A4 plan – Change in Total Daily Traffic Volumes, additional to Doc 144, further north into Moonee Valley and beyond | Louise Hicks for Moonee Valley |
| 177          | Extract from Moonee Valley Racecourse Redevelopment Advisory Committee Report, 19 December 2013                     | Andrew O'Brien                 |
| 178          | Four x A4 Plans Revised Concept Alignment Option  | Andrew O'Brien                 |
| 179          | SIDRA Model Outputs for Mt Alexander Road/Ormond Road Intersection  | Andrew O'Brien                 |
| 180          | Map of City of Monee Valley   | Nick Tweedie SC for LMA        |

| Document No. | Description  | Tabled by                      |
|--------------|--|--------------------------------|
| 181          | Brown PowerPoint presentation  | Louise Hicks for Moonee Valley |
| 182          | Brown response to Guide to Expert Evidence Statement, 20 March 2014 and letter to Brown from Moonee Valley CC, 31 January 2014 re instructions | Louise Hicks for Moonee Valley |
| 183          | Extract from Melbourne City Link Concession Deed – Project Scope and Technical Requirements  | Louise Hicks for Moonee Valley |

#### DAY 14 Friday 21 March 2014

| Document No. | Description   | Tabled by                      |
|--------------|---|--------------------------------|
| 184          | Definition of 'Trees' from Shears taken from AS4373-2007                                  | Ian Pitt SC for Melbourne      |
| 185          | Correspondence from Lane to Clayton Utz, 20 March 2014 re follow up Assessment of Trees   | Barnaby Chessell for LMA       |
| 186          | A3 Plan of Sporting Reserve Capacity in Moonee Valley                                     | Louise Hicks for Moonee Valley |
| 187          | <i>Principles and guidelines for social impact assessment in the USA</i> , September 2003 | Louise Hicks for Moonee Valley |
| 188          | <i>Environments for Health</i> , Victorian Government, September 2001                     | Louise Hicks for Moonee Valley |
| 189          | Australian Early Development Index (AEDI) in Moonee Valley                                | Louise Hicks for Moonee Valley |
| 190          | Rosen PowerPoint presentation   | Louise Hicks for Moonee Valley |
| 191          | Rosen Response to Guide to EWS  | Louise Hicks for Moonee Valley |
| 192          | Correspondence to Rosen from Moonee Valley dated 29 January 2014 re instructions          | Louise Hicks for Moonee Valley |
| 193          | Royal Park Master Plan 1984   | Ian Pitt SC for Melbourne      |
| 194          | Moonee Valley CC Submission   | Louise Hicks for Moonee Valley |
| 195          | A4 Plan of Flemington Bridge Station Bike and Pedestrian Ramp                             | Louise Hicks for Moonee Valley |

#### DAY 15 Monday 24 March 2014

| Document No. | Description   | Tabled by               |
|--------------|---|-------------------------|
| 196          | LMA Response <i>Changes in Traffic due to East West Link Bandwidth Plot</i> | Nick Tweedie SC for LMA |

| Document No. | Description  | Tabled by                    |
|--------------|--|------------------------------|
| 197          | Revised Travel Time Assessment, Eastern Freeway  | Nick Tweedie SC for LMA      |
| 198          | Extract from LMA Website regarding timelines   | Stuart Morris QC for LMA     |
| 199          | Two x A4 Plans of SEIFA Index 2011 from Ms Nesbitt   | Stuart Morris QC for LMA     |
| 200          | Revised Performance Requirements from LMA with expert and submitter input  | Stuart Morris QC for LMA     |
| 201          | Revised Performance Requirements from LMA – changes accepted by LMA to this point, 20 March 2014                                   | Stuart Morris QC for LMA     |
| 202          | Clause 21.09 of Melbourne Planning Scheme  | Stuart Morris QC for LMA     |
| 203          | Statement from LMA <i>Reinstatement of Sporting Facilities Affected by East West Link</i>  | Stuart Morris QC for LMA     |
| 204          | Memorandum of Understanding regarding Sporting Facility and Relocation Works between Melbourne CC and LMA, December 2013           | Stuart Morris QC for LMA     |
| 205          | Correspondence from Patrick to Clayton Utz, 21 March 2014, re suggestions for performance requirements and urban design principles | Stuart Morris QC for LMA     |
| 206          | Submissions for Yarra CC   | Adrian Finanzio SC for Yarra |
| 207          | Folder of documents for Yarra SC   | Adrian Finanzio SC for Yarra |
| 208          | Thompson PowerPoint presentation   | Adrian Finanzio SC for Yarra |
| 209          | Matter of Disagreement Following Conclave of Experts   | Adrian Finanzio SC for Yarra |
| 210          | Extract from Melways   | Chris Wren SC for AC         |
| 211          | Correspondence from Harwood Andrews to Pitt and Sherry, 19 November 2013 re instructions   | Nick Tweedie SC for LMA      |
| 212          | Extract from NSW Traffic Modelling Guidelines, February 2013   | Nick Tweedie SC for LMA      |
| 213          | Extract from NZ Economic Evaluation Manual (Volume 1), 2010  | Nick Tweedie SC for LMA      |
| 214          | NISS, <i>Convergence of Traffic Assignments: How Much is Enough?</i> , Technical Report 155, January 2004                          | Nick Tweedie SC for LMA      |

**DAY 16****Tuesday 25 March 2014**

| Document No. | Description | Tabled by |
|--------------|-------------|-----------|
|--------------|-------------|-----------|

| Document No. | Description   | Tabled by                    |
|--------------|---|------------------------------|
| 215          | Correspondence from Ursida re Traffic data, 25 March 2014   | Assessment Committee Chair   |
| 216          | East West Link (Eastern Section) CIS, Air Quality – Near Road Emissions, 25 March 2014                    | Katy McGuinness for EPA      |
| 217          | Zeibots PowerPoint presentation   | Adrian Finanzio SC for Yarra |
| 218          | E-mail string between Yarra and Zeibots re instructions   | Adrian Finanzio SC for Yarra |
| 219          | Further information on project timelines in response to the Assessment Committee request of 20 March 2014 | Stuart Morris QC for LMA     |
| 220          | Response to the Assessment Committee query on cut and cover in Royal Park                                 | Stuart Morris QC for LMA     |
| 221          | Extract from <i>A Guide to the Reduction of Traffic Noise</i> , 1986                                      | Stuart Morris QC for LMA     |
| 222          | Page 6 from EPA Vic Information Bulletin <i>Road Traffic Noise Strategy: Background Paper</i> , 2002      | Stuart Morris QC for LMA     |
| 223          | Response to Document 158 Clarification of Forecast Traffic Volumes  | Nick Tweedie SC for LMA      |

#### DAY 17                      Wednesday 26 March 2014

| Document No. | Description   | Tabled by                    |
|--------------|---|------------------------------|
| 224          | Full copy of Document 222   | Adrian Finanzio SC for Yarra |
| 225          | Correspondence from Ley, 21 March 2014, re submission on Doc 149 (Nadebaum letter)      | Gordon Ley                   |
| 226          | Clause 22.03 of Yarra Planning Scheme, Landmarks and Tall Structures                    | Nick Tweedie SC for LMA      |
| 227          | <i>Peter Thompson Architects v Yarra CC</i> [2007] VCAT 812                             | Nick Tweedie SC for LMA      |
| 228          | Clause 22.04 of Melbourne Planning Scheme, Heritage Places within the Capital City Zone | Nick Tweedie SC for LMA      |
| 229          | Constitution Bridge, The Story so Far (in Italian)                                      | Adrian Finanzio SC for Yarra |
| 230          | Assessment Committee query re maximum depth of soldier piles                            | Stuart Morris QC for LMA     |
| 231          | Confidential Document – Appeared In Camera  | Jogendra Sinha               |

**DAY 18 Thursday 27 March 2014**

| <b>Document No.</b> | <b>Description</b>  | <b>Tabled by</b>                  |
|---------------------|---|-----------------------------------|
| 232                 | Darebin PowerPoint presentation   | Nathan Moresi for Darebin         |
| 233                 | Moreland Submission   | Craig Griffiths for Moreland      |
| 234                 | Revised Figure 2 from Document 223 – 2031 Average Weekday Daily Traffic with the East West Link | Stuart Morris QC for LMA          |
| 235                 | Five x Overhead slides, Hoddle Street Intersection  | Stuart Morris QC for LMA          |
| 236                 | Hoddle Street Alternative Option  | Stuart Morris QC for LMA          |
| 237                 | The Tunnel Portal East of Hoddle Street   | Stuart Morris QC for LMA          |
| 238                 | Saunders PowerPoint presentation  | Andrew Saunders                   |
| 239                 | SP Ausnet PowerPoint presentation   | Michelle Quigley SC for SP Ausnet |
| 240                 | SP Ausnet submission  | Michelle Quigley SC for SP Ausnet |
| 241                 | SP Ausnet Proposed Additional Performance Requirements, (based on Document 200 version of PRs)  | Michelle Quigley SC for SP Ausnet |

**DAY 19 Friday 28 March 2014**

| <b>Document No.</b> | <b>Description</b>  | <b>Tabled by</b>               |
|---------------------|---|--------------------------------|
| 242                 | Correspondence from Herington, 27 March 2014 Re provision of traffic data                 | Andrew Herington               |
| 243                 | <i>Flemington Community Centre: Community infrastructure needs assessment, March 2014</i> | Louise Hicks for Moonee Valley |
| 244                 | Moonee Valley suggested changes to Urban Design Principles                                | Louise Hicks for Moonee Valley |
| 245                 | Amended Performance Requirements from Moonee Valley                                       | Louise Hicks for Moonee Valley |
| 246                 | VicRoads Road Design Note, RDN 06-01  | Louise Hicks for Moonee Valley |
| 247                 | SEPP Air Quality Management   | Stuart Morris QC for LMA       |
| 248                 | SEPP Ambient Air Quality  | Stuart Morris QC for LMA       |
| 249                 | EPA Best Practice Environmental Management Guidelines for Construction Sites              | Stuart Morris QC for LMA       |

| Document No. | Description  | Tabled by                |
|--------------|--|--------------------------|
| 250          | Cook, PowerPoint presentation  | Stuart Morris QC for LMA |
| 251          | EPA Submission to Senate Inquiry into impacts of health on air quality               | Stuart Morris QC for LMA |
| 252          | M5 East Tunnel Filtration Trial Evaluation (NSW)                                     | Stuart Morris QC for LMA |
| 253          | Future Air Quality in Victoria   | Stuart Morris QC for LMA |
| 254          | Yarra Air Quality Trends, 2010 Data Update   | Stuart Morris QC for LMA |
| 255          | <i>Dual Gas Pty Ltd &amp; Ors v Environment Protection Authority</i> [2012] VCAT 308 | Chris Wren SC for AC     |
| 256          | EPA Introductory PowerPoint Presentation – Part 1                                    | Katy McGuinness for EPA  |
| 257          | EPA Submission Part 1 – Introduction and Regulatory Outline                          | Katy McGuinness for EPA  |
| 258          | EPA PowerPoint Presentation Part 2 – Works Approval Application                      | John Marsiglio for EPA   |
| 259          | EPA Submission Part 2 – Works Approval Application                                   | John Marsiglio for EPA   |
| 260          | Torre, Powerpoint Presentation   | Joanne Lardner for EPA   |
| 261          | Plan of Elliott Avenue Traffic Numbers   | Nick Tweedie SC for LMA  |

**DAY 20**                      **Monday 31 March 2014**

| Document No. | Description  | Tabled by                  |
|--------------|--|----------------------------|
| 262          | Correspondence from RATS (Hanna)                           | Assessment Committee Chair |
| 263          | EPA PowerPoint Presentation Part 3 – Noise                 | John Marsiglio for EPA     |
| 264          | EPA Submission Part 3 – Noise                              | John Marsiglio for EPA     |
| 265          | EPA PowerPoint Presentation Part 4 – Energy and Greenhouse | John Marsiglio for EPA     |
| 266          | EPA Submission Part 4 – Energy and Greenhouse              | John Marsiglio for EPA     |
| 267          | EPA PowerPoint Presentation Part 5 – Surface Water         | Leon Metzeling for EPA     |
| 268          | EPA Submission Part 5 – Surface Water                      | Leon Metzeling for EPA     |

| Document No. | Description  | Tabled by                                      |
|--------------|--|--|
| 269          | EPA PowerPoint Presentation Part 6 – Groundwater                 | Julia Caluzzi for EPA                          |
| 270          | EPA Submission Part 6 – Groundwater                              | Julia Caluzzi for EPA                          |
| 271          | EPA PowerPoint Presentation Part 7 – Contaminated Land and Waste | Laura-Lee Innes for EPA                        |
| 272          | EPA Submission Part 7 – Contaminated Land and Waste              | Laura-Lee Innes for EPA                        |
| 273          | Submission for Melbourne   | Ian Pitt SC for Melbourne                      |
| 274          | Melbourne Planning Scheme Extracts                               | Ian Pitt SC for Melbourne                      |
| 275          | Incorporated Plan IPO5 – Moonee Ponds Creek                      | Ian Pitt SC for Melbourne                      |
| 276          | Planning Scheme Map of IPO5                                      | Ian Pitt SC for Melbourne                      |
| 277          | Consultation Paper by Chief Justice Preston, NSW LEC             | Ian Pitt SC for Melbourne                      |
| 278          | Ramsdale Pty Ltd v Roads Corporation Case                        | Ian Pitt SC for Melbourne                      |
| 279          | Request for further information on traffic                       | Assessment Committee Chair                     |
| 280          | Submission   | Richard Wynne MLA, Member for Richmond         |
| 281          | Submission   | Jennifer Kanis MLA, Member for Melbourne       |
| 282          | Submission   | Brian Tee MLC, Member for Eastern Metropolitan |

**DAY 21**                      **Tuesday 1 April 2014**

| Document No. | Description   | Tabled by                |
|--------------|---|--------------------------|
| 283          | Plan showing Noise Measurements on Monash Freeway                         | Stuart Morris QC for LMA |
| 284          | <i>Boroondara City Council v 1045 Burke Road Pty Ltd</i> [2014] VSC 127   | Stuart Morris QC for LMA |
| 285          | Australian Institute of Landscape Architects PowerPoint Presentation      | Bruce Echberg for AILA   |
| 286          | Australian Institute of Landscape Architects Submission                   | Bruce Echberg for AILA   |
| 287          | Residents About Integrated Development @ 3051 Inc PowerPoint Presentation | Peter Hogg for RAID      |



| <b>Document No.</b> | <b>Description</b>   | <b>Tabled by</b>                                     |
|---------------------|--|--|
| 288                 | Submission, Owners Corporation 18 Lennox Street, Parkville | Robert George for Owners Corporation                 |
| 289                 | Inner Melbourne Planning Alliance PowerPoint Presentation  | Darragh O'Brien for IMPA                             |
| 290                 | Deer Park Bypass – A Case Study                            | Ben Hardwick for Slater and Gordon                   |
| 291                 | Planning Institute of Australia Submissions                | Liz Johnstone for PIA                                |
| 292a                | Schots Home Emporium Submission                            | Jason Sumner, Apex Town Planning for Schots          |
| 292b                | Schots Home Emporium Submission Attachment                 | Jason Sumner, Apex Town Planning for Schots          |
| 293                 | Provans Timber & Hardware Submission                       | Tim Radisich, Associated Town Planning for Provans   |
| 294                 | Mercantile Cricket Association PowerPoint Presentation     | Alec Kahn for MCA                                    |
| 295                 | Smith PowerPoint Presentation                              | Russell Smith  |
| 296                 | East West Link CIS Report Noise Analysis                   | Russell Smith  |
| 297                 | Virgona and O'Toole PowerPoint Presentation                | Andrew Herington for Crina Virgona and Nancy O'Toole |
| 298                 | National Trust Submission                                  | Paul Roser for National Trust                        |

## **DAY 22**                      **Wednesday 2 April 2014**

| <b>Document No.</b> | <b>Description</b>  | <b>Tabled by</b>         |
|---------------------|---|--------------------------|
| 299                 | Response to the Assessment Committee Query on the Alexandra Parade Main Drain               | Stuart Morris QC for LMA |
| 300                 | Correspondence from Bunbury dated 31 March 2014   | Ande Bunbury             |
| 301                 | Notes from Gillies and Parkville Health Precinct Child Health Professionals and Researchers | Greta Gillies            |
| 302                 | PIA Submission to East West Link Needs Assessment 15 July 2008                              | Liz Johnstone            |
| 303                 | The 3068 Group (Inc) PowerPoint Presentation and Notes                                      | Chris Goodman            |
| 304                 | Yarra Climate Action Now Submission   | Kerry Echberg            |
| 305                 | Plan of Bell Street Upgrade   | David Moloney            |

| <b>Document No.</b> | <b>Description</b>   | <b>Tabled by</b>                 |
|---------------------|--|----------------------------------|
| 306                 | RACV PowerPoint Presentation   | Brian Negus for RACV and Others  |
| 307                 | Brunswick Zebras Football Club PowerPoint Presentation                               | Carlo Carli for Brunswick Zebras |
| 308                 | Essendon Royals Football Club PowerPoint Presentation                                | Christos Stathis                 |
| 309                 | Flemington Renewal Association Submissions three images of Flemington Housing Estate | Shadia Mohamed Aly               |
| 310                 | Bicycle Network Victoria Submission  | Jason den Hollander              |
| 311                 | Carlton Residents Association Inc. Submission  | Ian Bird                         |
| 312                 | Vision Australia Submission  | Kevin Murfitt                    |
| 313                 | Victorian Transport Research and Action Group PowerPoint Presentations               | Mike Reece                       |
| 314                 | Yarra Campaign for Action on Transport PowerPoint Presentation and Notes             | Andrew Herington for YCAT        |
| 315                 | Royal Park Sport PowerPoint Presentation   | Rick Boykett                     |
| 316                 | Melbourne University Rugby Football Club PowerPoint Presentation                     | Rick Boykett                     |
| 317                 | Swain PowerPoint Presentation  | Alex Swain                       |

**DAY 23                      Thursday 3 April 2014**

| <b>Document No.</b> | <b>Description</b>                                       | <b>Tabled by</b> |
|---------------------|--|------------------|
| 318                 | Herington provision of Slide 8 and enlarged plans x two  | Andrew Herington |
| 319                 | University of Melbourne Baseball Club Submission         | Rod McLellan     |
| 320                 | Flemington Association PowerPoint Presentation           | Les Potts        |
| 321                 | Flemington Association Notes                             | Les Potts        |
| 322                 | Boroondara Bicycle Users Group PowerPoint Presentation   | Peter Campbell   |
| 323                 | North East Bicycle Corridor Leaflet                      | Peter Campbell   |
| 324                 | Clifton Hill Primary School Presentation and Attachments | Geoff Warren     |

| Document No. | Description  | Tabled by                                  |
|--------------|--|--|
| 325          | Kororoit Institute and Moonee Ponds Creek Co-ordination Committee PowerPoint Presentation  | Tony Smith                                 |
| 326          | Friends of Royal Park, Parkville PowerPoint Presentation   | Kaye Oddie                                 |
| 327          | Cut and Cover in Royal Park: The Unaddressed Impact  | Kaye Oddie                                 |
| 328          | Walter PowerPoint Presentation   | Clare Walter                               |
| 329          | <i>Its safe to say there's no safe level of air pollution</i> , Paper by Associate Professor Barnett   | Clare Walter                               |
| 330          | National Environment Protection (Ambient Air Quality) Measure  | Rupert Watters leading Assoc. Prof. Irving |
| 331          | <i>The Treatment of Air in Road Tunnels</i> , Tunnels Study Centre, September 2010   | Stuart Morris QC for LMA                   |
| 332          | Parkville Association PowerPoint Presentation  | Robert Krelle                              |
| 333          | Owners of 46 Manningham Street, West Parkville, Supplementary Submission   | Lucinda Peterson                           |
| 334          | Peyton Submission  | Anthony Peyton                             |
| 335          | Presentation by Safety Net for Royal Park  | Anthony Peyton                             |
| 336          | Response by SNRP on review of Brock report for LMA   | Anthony Peyton                             |
| 337          | SLR Memorandum to Moreland City Council on M80 Traffic Noise Measurements dated 14 March 2014; and Bicycle Movements: Southbound cyclists from Brunswick | Craig Griffiths for Moreland               |
| 338          | Parkville Gardens Residents Association PowerPoint Presentation  | Tony Rogers                                |
| 339          | Presentation by Cardijn Community; costing of recent major infrastructure projects; and Bell Street Upgrade plan   | David Moloney                              |
| 340          | Family Impact Statements Outline from Grandparents Victoria  | Anne McLeish                               |
| 341          | Two A1 Plans for AC: Hoddle Street Alternative Interchange; Hoddle Street Interchange, Reference Project   | Stuart Morris QC for LMA                   |

**DAY 24****Monday 7 April 2014**

| Document No. | Description                               | Tabled by             |
|--------------|---|-----------------------|
| 342          | Revised Performance Requirements from EPA | Tony Robinson for EPA |

| <b>Document No.</b> | <b>Description</b>   | <b>Tabled by</b>   |
|---------------------|--|--|
| 343                 | EPA Response to Assessment Committee Questions                                       | Tony Robinson for EPA                                    |
| 344                 | EPA Victoria supplementary information on air modelling 7 April 2014                 | Tony Robinson for EPA                                    |
| 345                 | Yarra Bicycle Users Group PowerPoint Presentation                                    | Steven Barnett   |
| 346                 | Friends of Banyule Submission  | Dennis O'Connell   |
| 347                 | Public Transport Users Association PowerPoint Presentation                           | Tony Morton  |
| 348                 | Public Transport Not Traffic PowerPoint Presentation                                 | Cait Jones   |
| 349                 | Flemington Road and Curran Street North Residents PowerPoint Presentation            | Michael Francis  |
| 350                 | Play Australia Submission  | Barbara Champion   |
| 351                 | Youlden Parkville Cricket Club PowerPoint Presentation                               | Paul Sinclair  |
| 352                 | Galvin Submission  | Gordon Ley for Pauline Galvin                            |
| 353                 | Royal Park Reds Cricket Club Submission  | Ben Zika   |
| 354                 | Submissions made on behalf of the LMA addressing matters raised in Doc 279           | Stuart Morris QC for LMA                                 |
| 355                 | Six pages extracted from Melways 1966 - 2012   | Stuart Morris QC for LMA                                 |
| 356                 | Press Release – Coalition Government takes action on Doncaster Rail Link, 3 May 2011 | Adam Bandt MP, Member for Melbourne for Proforma 1 Group |
| 357                 | Press Release - Eastern Freeway best route for Doncaster Rail Line, 14 March 2013    | Adam Bandt MP, Member for Melbourne for Proforma 1 Group |
| 358                 | Extracts of Doncaster Rail Study, Phase One Recommendations                          | Adam Bandt MP, Member for Melbourne for Proforma 1 Group |
| 359                 | Koppel Submission  | Jill Koppell for Proforma 2 Group                        |
| 360                 | Herington PowerPoint Presentation  | Andrew Herington for Proforma 2 Group                    |
| 361                 | Naismith Photographs and Notes   | Michael Naismith for Proforma 2 Group                    |

**DAY 25****Tuesday 8 April 2014**

| <b>Document No.</b> | <b>Description</b> | <b>Tabled by</b> |
|---------------------|--------------------|------------------|
|---------------------|--------------------|------------------|

| <b>Document No.</b> | <b>Description</b>  | <b>Tabled by</b>  |
|---------------------|---|---|
| 362                 | Submission in confidence  | Ross Nolan  |
| 363                 | Email from Peyton to Assessment Committee   | Anthony Peyton  |
| 364                 | Addendum to SNRP Presentation – images from Atelier Red and Black                           | Anthony Peyton  |
| 365                 | Speaking notes from Smith, Kororoit Institute and Moonee Ponds Creek Coordination Committee | Tony Smith  |
| 366                 | Response to AC from Slater & Gordon, 4 April 2014   | Ben Hardwick  |
| 367                 | Wahklu PowerPoint Presentation  | Suresh Wahklu   |
| 368                 | Loughlin submission   | Graeme Loughlin   |
| 369                 | Mossonidis PowerPoint Presentation  | Michael Mossonidis                                      |
| 370                 | Bonanno PowerPoint Presentation   | Tony Bonanno  |
| 371                 | Saint Submission  | Fiona Saint and John Michael Saint                      |
| 372                 | PowerPoint Presentation and Notes on Case against Elliot Avenue Ramps and the Y Alternative | Andrew Herington for Fiona Saint and John Michael Saint |
| 373                 | Ley Submission  | Gordon Ley  |
| 374                 | Geary Submission  | Peter Geary   |
| 375                 | Green Submissions and Photographs   | Dennis Green  |
| 376                 | Cusack and Avery PowerPoint Presentation and Notes  | Julia Cusack  |
| 377                 | Trains Not Toll Roads Rally Brochure  | Pauline Galvin  |
| 378                 | May PowerPoint Presentation   | Wayne May   |
| 379                 | Smith PowerPoint Presentation   | Michael and Olivia Smith                                |
| 380                 | Thomas Submission   | Jan Thomas OAM  |
| 381                 | Noonan Submission   | Gerry Noonan  |
| 382                 | Lamb PowerPoint Presentation  | Allison Lamb  |

| <b>Document No.</b> | <b>Description</b>  | <b>Tabled by</b>             |
|---------------------|---|------------------------------|
| 383                 | Lamb PowerPoint Presentation  | Brent Lamb                   |
| 384                 | McDougall Submission  | Andrew McDougall             |
| 385                 | Tappe PowerPoint Presentation   | Andrea Tappe                 |
| 386a                | Submissions – Protectors of Public Lands Victoria, Royal Park Protection Group        | Tom Pikusa for PPLV and RPPG |
| 386b                | A3 Plan set - Protectors of Public Lands Victoria, Royal Park Protection Group        | Tom Pikusa for PPLV and RPPG |
| 387                 | Folder of material – Protectors of Public Lands Victoria, Royal Park Protection Group | Tom Pikusa for PPLV and RPPG |

**DAY 26****Wednesday 9 April 2014**

| <b>Document No.</b> | <b>Description</b>   | <b>Tabled by</b>         |
|---------------------|--|--------------------------|
| 388                 | Marshall Day Noise Report, Noone Street, Clifton Hill      | Rupert Watters for Yarra |
| 389                 | Revised Higgs Design                                       | Anne Laing for Melbourne |
| 390                 | Bull Opinion on Higgs Design                               | Anne Laing for Melbourne |
| 391                 | Masters PowerPoint Presentation                            | Helen Masters            |
| 392                 | Stone PowerPoint Presentation on Transport Integration Act | John Stone               |
| 393                 | Somers PowerPoint Presentation                             | Penelope Somers          |
| 394                 | East Link Works Approval                                   | Stuart Morris QC for LMA |
| 395                 | Wallis PowerPoint  | Ian Wallis               |
| 396                 | Chachs PowerPoint  | David Chachs             |
| 397                 | Blyth Presentation   | Jillian Blyth            |
| 398                 | Choong and Tan PowerPoint                                  | Tina Choong              |
| 399                 | Isaac Submission   | Anne Isaac               |
| 400                 | Kensington Association Submission                          | Mark Woodland            |

| <b>Document No.</b> | <b>Description</b>                                | <b>Tabled by</b>                    |
|---------------------|---|-------------------------------------|
| 401                 | Kensington Association PowerPoint Presentation    | Mark Woodland                       |
| 402                 | Friends of Moonee Ponds Creek Inc                 | Kaye Oddie                          |
| 403                 | Ursida PowerPoint Presentation and Notes          | Carlo Ursida                        |
| 404                 | Ingram Notes and PowerPoint Presentation          | Michael Ingram                      |
| 405                 | Di Muccio Notes and PowerPoint Presentation       | Christine Di Muccio                 |
| 406                 | Wood and Gorman Notes and PowerPoint Presentation | Renee Wood, Brent and Harley Gorman |
| 407                 | Widmer Notes and PowerPoint Presentation          | John Widmer                         |
| 408                 | Hookey PowerPoint Presentation                    | Enid Hookey                         |
| 409                 | Araneda PowerPoint Presentation                   | Maritza and Fran Araneda            |
| 410                 | Huth PowerPoint Presentation                      | Alister Huth                        |
| 411                 | Xie Submission                                    | Frances Xie                         |
| 412                 | McNamara Submission                               | Helene McNamara                     |
| 413                 | Three Images                                      | Meg Colasante                       |

**DAY 27**                      **Thursday 10 April 2014**

| <b>Document No.</b> | <b>Description</b>                                | <b>Tabled by</b> |
|---------------------|---|------------------|
| 414                 | SP Ausnet response to AC Questions, 27 March 2014 | Emily Sykes      |
| 415                 | Lamb speaking notes                               | Brent Lamb       |
| 416                 | Lamb speaking notes                               | Allison Lamb     |
| 417                 | Stock PowerPoint Presentation                     | Petra Stock      |
| 418                 | Change.org Petition re the Zoo                    | Petra Stock      |
| 419                 | Petit Speaking Notes and Attachments              | Michael Petit    |

| Document No. | Description  | Tabled by               |
|--------------|--|-------------------------|
| 420          | Campbell Submission                                  | Peter Campbell          |
| 421          | Healey Submission                                    | Mary Healey             |
| 422          | Unkles PowerPoint Presentation                       | Bill Unkles             |
| 423          | Pepper Submission                                    | Susan Pepper            |
| 424          | Edmonds Submission                                   | Joseph Edmonds          |
| 425          | Rice Submission                                      | Janet Rice              |
| 426          | Williams PowerPoint Presentation                     | Nick Williams           |
| 427          | Hobson Submissions                                   | Paul Hobson             |
| 428          | Melways Extract and Photos                           | Stephen Alomes          |
| 429          | Flinn PowerPoint Presentation and Notes              | Amina and Bernard Flinn |
| 430          | Hanna PowerPoint Presentations                       | David Hanna             |
| 431          | Residents Against the Tunnel PowerPoint Presentation | David Hanna             |
| 432          | Residents Against the Tunnel Submissions             | David Hanna             |
| 433          | Two x A3 Photographs                                 | David Hanna             |
| 434          | Photographs and brochure                             | Michael Gourlay         |

**DAY 28**                      **Friday 11 April 2014**

| Document No. | Description  | Tabled by                |
|--------------|--|--------------------------|
| 435          | Book chapter on <i>Ecological impacts of road noise and options for mitigation</i> provided by Stock | Petra Stock              |
| 436          | Stock Speaking Notes   | Petra Stock              |
| 437          | Correspondence from Champion dated 10 April 2014; TTM Report Attached                                | Barbara Champion         |
| 438          | <i>Access to properties at the corner of Alexandra Parade and Hoddle Street</i> document from LMA    | Stuart Morris QC for LMA |



| <b>Document No.</b> | <b>Description</b>   | <b>Tabled by</b>                   |
|---------------------|--|------------------------------------|
| 439                 | <i>LMA Response to DDO Query – Flagstaff Consulting Report</i> document from LMA | Stuart Morris QC for LMA           |
| 440                 | Beuchat Speaking Notes   | Daniel Beuchat                     |
| 441                 | Kelly Speaking Notes   | Andrew Kelly                       |
| 442                 | Burrows Speaking Notes   | Roy Burrows                        |
| 443                 | Melbourne revised Performance Requirements                                       | Anne Laing for Melbourne           |
| 444                 | Melbourne revised Urban Design Principles  | Anne Laing for Melbourne           |
| 445                 | Submission from Smith on Rail Transport of Spoil                                 | Andrew Herington for Russell Smith |
| 446                 | Fitzgerald Submission  | Keith Fitzgerald                   |
| 447                 | Benson PowerPoint Presentation   | Tony Benson                        |
| 448                 | Bunbury PowerPoint Presentation  | Ande Bunbury                       |
| 449                 | Bunbury Recommendations for AC   | Ande Bunbury                       |
| 450                 | Moodie PowerPoint Presentation   | Simon Moodie                       |
| 451                 | Silvestro Submission   | Mara Silvestro                     |
| 452                 | Steinfort Family PowerPoint Presentation   | Paul Steinfort                     |
| 453                 | Collingwood Historical Society PowerPoint Presentation                           | Anne Holmes and Janet Taylor       |
| 454                 | Marjoram PowerPoint Presentation   | Tony Marjoram                      |
| 455                 | O'Connor PowerPoint Presentation   | Bernadette O'Connor                |
| 456                 | Oppenheim PowerPoint Presentation  | Richard and Annette Oppenheim      |
| 457                 | Nataprawira PowerPoint Presentation and notes                                    | Roslyn Nataprawira                 |
| 458                 | Krivanek Submission  | Rosamund Krivanek                  |
| 459                 | Denmead PowerPoint Submissions   | Stewart and Claire Denmead         |

| <b>Document No.</b> | <b>Description</b>  | <b>Tabled by</b>                              |
|---------------------|---|---|
| 460                 | Gherardin PowerPoint Presentation   | Elizabeth Frances Gherardin                   |
| 461                 | Rizio PowerPoint Presentation   | Dario and Chris Rizio                         |
| 462                 | Lewis PowerPoint Presentation and Notes   | Nigel Lewis                                   |
| 463                 | Turnbull Submission   | Jenelle Cramer from Gadens for James Turnbull |
| 464                 | Vowels Submission and Attachments   | Robin Vowels                                  |
| 465                 | Table from CIS with highlighted 8 Storey comment from Barclay                           | Zoe and Benjamin Barclay                      |
| 466                 | Ingram PowerPoint Presentation  | Michael Ingram                                |
| 467                 | E-mail and Urban Circus images from Ingram  | Michael Ingram                                |
| 468                 | Provis PowerPoint Presentation  | Beatka Provis                                 |
| 469                 | Hobson Appendix on Open Space Benefit research  | Paul Hobson                                   |
| 470                 | Rickards Tabled Speaking Notes  | Anne Rickards                                 |
| 471                 | McNamara Speaking Notes   | Helene McNamara                               |
| 472                 | Merkel Speaking Notes   | Bianca Merkel                                 |
| 473                 | Response to the Assessment Committee on the Alignment of Part B to the East of CityLink | Stuart Morris QC for LMA                      |

**DAY 29**                      **Monday 14 April 2014**

| <b>Document No.</b> | <b>Description</b>                      | <b>Tabled by</b>         |
|---------------------|---|--------------------------|
| 474                 | Ursida Amended Performance Requirements | Carlo Ursida             |
| 475                 | Correspondence from Bunbury             | Ande Bunbury             |
| 476                 | Yarra Amended Performance Requirements  | Rupert Watters for Yarra |
| 477                 | Yarra Amended Urban Design Principles   | Rupert Watters for Yarra |
| 478                 | Alexandra Parade Traffic Volumes        | Stuart Morris QC for LMA |

| <b>Document No.</b> | <b>Description</b>   | <b>Tabled by</b>                      |
|---------------------|--|---------------------------------------|
| 479                 | Response to the Assessment Committee on Land Acquisition Matters                           | Stuart Morris QC for LMA              |
| 480                 | Correspondence from Herington, 14 April 2014 re DTPLI Briefing on CIS                      | Andrew Herington                      |
| 481                 | Qalinle Submission   | Abdikashur Qalinle                    |
| 482                 | Map provided by Sharp  | Heather Reva Sharp                    |
| 483                 | A3 Handouts from Duxbury   | Kenneth Duxbury                       |
| 484                 | Croft <i>The Accuracy of VLC's Zenith Model</i>  | Terry Croft                           |
| 485                 | Croft <i>Flawed EWL Traffic Projections</i>  | Terry Croft                           |
| 486                 | Croft <i>Crofts Alternative Design to EWL</i>  | Terry Croft                           |
| 487                 | Brown PowerPoint Presentation  | Malcolm Brown                         |
| 488                 | Herington Submission   | Andrew Herington                      |
| 489                 | Herington Closing submission, Community analysis and Recommendations Committee should make | Andrew Herington                      |
| 490                 | Yarra Amended Incorporated Document  | Rupert Watters for Yarra              |
| 491                 | Response to query from Mr Grogan of AC from Victorian Transport Action Group               | Mike Reece                            |
| 492                 | Aerial Photo of Flemington Community Garden showing project boundary                       | Stuart Morris QC for LMA              |
| 493                 | Doncaster Rail document  | Stuart Morris QC for LMA              |
| 494                 | SMART Criteria Response  | Stuart Morris QC for LMA              |
| 495                 | Air Quality in and Around Traffic Tunnels  | Stuart Morris QC for LMA              |
| 496                 | Urban Camp PowerPoint Presentation   | Patrick O'Sullivan, Jacqueline Whitby |
| 497                 | Dwyer Submission   | Rohan Dwyer                           |
| 498                 | Traffic Volumes at Hoddle Street   | Nick Tweedie SC for LMA               |
| 499                 | Comparison tables of traffic at Hoddle Street  | Nick Tweedie SC for LMA               |

| Document No. | Description  | Tabled by                |
|--------------|--|--------------------------|
| 500          | Hoddle Street Interchange Ramps Daily Traffic Volumes                                    | Nick Tweedie SC for LMA  |
| 501          | Phelan Submission  | Justine Phelan           |
| 502          | Ioannou Submission   | Omni Ioannou             |
| 503          | England and LeGallez PowerPoint Presentation   | Thomas England           |
| 504          | Australian Garden History Society Submission   | John Dwyer               |
| 505          | Clarke Presentation and Speaking Notes   | Alison Clarke            |
| 506          | McLelland Submission   | Darren McLelland         |
| 507          | Response to the Assessment Committee Regarding the Land Requirements at Ross Straw Field | Stuart Morris QC for LMA |

**DAY 30**                      **Tuesday 15 April 2014**

| Document No. | Description   | Tabled by                                    |
|--------------|---|--|
| 508          | Photographs from Alomes   | Stephen Alomes                               |
| 509          | E-mail regarding Spadina Highway from Rudner  | Julie Rudner                                 |
| 510          | Noise Complaints M80 Ring Road ( <u>To be provided in electronic form only</u> )  | Craig Griffiths for Moreland                 |
| 511          | Article from The Age on Airport Rail dated 15 April 2014  | Andrew Herington                             |
| 512          | Closing Submission from the Minister for Planning   | Chris Townshend SC for Minister for Planning |
| 513          | Closing Submission from Melbourne City Council  | Ian Pitt SC for Melbourne                    |
| 514          | Closing Submission from Yarra City Council  | Adrian Finanzio SC for Yarra                 |
| 515          | Appendix B LMA Response to Moonee Valley City Council's Open Space Design Interventions and Mitigation Requirements – MVCC Response | Louise Hicks for Moonee Valley               |
| 516          | Flemington and Travancore Land Ownership Plan   | Louise Hicks for Moonee Valley               |
| 517          | Flemington and Travancore Opportunities Plan  | Louise Hicks for Moonee Valley               |

| <b>Document No.</b> | <b>Description</b>  | <b>Tabled by</b>                               |
|---------------------|---|--|
| 518                 | Revisioning Flemington and Travancore – Post East West Link Plan  | Louise Hicks for Moonee Valley                 |
| 519                 | Table: Indicative Strategy – Impact, displacement and relocation of sporting users  | Louise Hicks for Moonee Valley                 |
| 520                 | Closing Submission for Moreland City Council  | Craig Griffiths for Moreland                   |
| 521                 | Closing Submission for EPA  | Tony Robinson and Katy McGuinness for EPA      |
| 522                 | EPA Closing PowerPoint Presentation   | Tony Robinson and Katy McGuinness for EPA      |
| 523                 | Closing Submission for Community Groups   | Tom Pikusa for PPLV, RPPG and Community Groups |
| 524                 | SNRP Response to LMA Document 473   | Anthony Peyton for SNRP                        |
| 525                 | Closing Submission for LMA; Folder containing Submission, Performance Requirements, Urban Design Principles, Response to Submissions, Incorporated Document | Stuart Morris QC for LMA                       |
| 526                 | PowerPoint Presentations to illustrate Closing Submission   | Stuart Morris QC for LMA                       |
| 527                 | Speaking Notes  | Cr James Cusack                                |
| 528                 | McNamara: Flemington and Kensington Conservation Study 1985, City of Melbourne  | Helene McNamara                                |
| 529                 | Flemington Community Gardens – site plan  | Michael Gourlay                                |

## **Appendix D: Revised Incorporated Document**



**East West Link Project**  
**Incorporated Document**

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[Amend to insert applicable approval date]

Incorporated document pursuant to section 6(2)(j) of the *Planning and Environment Act 1987*

[NOTE: This document has been drafted to reflect the Assessment Committee's Primary Recommendation which among other things sets aside Part B of the Project. If the Committee's Primary Recommendations are not accepted, further modifications will be required to reintroduce references to Part B of the Project in Section 2.0 Purpose, Part 4.0 Control, Part 5 Conditions, and the Plans contained in Sheets 1 – 5 in Figure 1.]



## **1.0 INTRODUCTION**

This document is an incorporated document in the Melbourne, Moonee Valley, Moreland and Yarra Planning Schemes pursuant to section 6(2)(j) of the *Planning and Environment Act 1987*.

The East West Link Project (the Project), is a new road connection between the Eastern Freeway and the Port of Melbourne. It comprises two parts. Part A is a connection between the Eastern Freeway and CityLink. Part B is a connection from CityLink to the Port of Melbourne.

The land identified in this document may be used and developed in accordance with the provisions of this document.

The controls in this document prevail over any contrary or inconsistent provision in the Melbourne, Moonee Valley, Moreland or Yarra Planning Schemes.

## **2.0 PURPOSE**

The purpose of this document is to allow the use and development of land for the purposes of Part A of the Project which is a new road connection from the Eastern Freeway to CityLink, including a new tunnel.

## **3.0 LAND**

The control in this document applies to the land in the Cities of Melbourne, Moonee Valley, Moreland and Yarra shown as “Project Area” in Figure 1 of this document.

## **4.0 CONTROL**

Despite any provision to the contrary or any inconsistent provision in the Melbourne, Moonee Valley, Moreland or Yarra Planning Scheme, no planning permit is required for, and nothing in the Planning Schemes operate to prohibit or restrict the use or development of

land in the Project Area for the construction and operation of Part A of the Project, which includes, but is not limited to:

- A freeway standard road connecting the Eastern Freeway to CityLink and improvements to CityLink.
- Interchanges and grade separations associated with road connections.
- A new road tunnel and associated infrastructure.
- Earthworks and structures, kerbs, channels, cuttings, batters and fill associated with the Project.
- Ancillary activities including, but not limited to:
  - Establishing and using lay down areas for construction purposes.
  - Constructing and using temporary site workshops and storage, administration and amenities buildings.
  - Displaying direction, construction and business identification signs.
  - Removing, destroying and lopping trees and removing vegetation, including native vegetation.
  - Demolishing and removing buildings, structures and works.
  - Constructing fences.
  - Constructing or carrying out works to create bunds, mounds, landscaping, shared use paths and wetlands, excavate land and salvage artefacts.
  - Constructing and using temporary access roads, diversion roads and vehicle parking areas.
  - Constructing or carrying out works to alter or relocate drainage, utilities and services.
  - Creating or altering access to a road in a Road Zone, Category 1.
  - Subdividing and consolidating land.

This control is subject to the conditions in clause 5.0 of this document.

## **5.0 CONDITIONS**

5.1 The use and development and the ancillary activities specified in clause 4.0 of this document must be:

- a. For Part A of the East West Link Project as authorised by the State Government of Victoria under an agreement between the State and the entity appointed to undertake Part A of the East West Link Project.
- b. In accordance with the Urban Design Principles in Table 1 of this document.
- c. In accordance with the Performance Requirements in Table 2 of this document.
- d. In accordance with the Environmental Management Framework presented in the Comprehensive Impact Statement and which in addition should include provision for:
  - i) a mechanism for public reporting of compliance against the EMF and EMPs including the reports of the Independent Auditor;
  - ii) a complaints management process that is accessible to the general community; and
  - iii) the establishment and administration of a Community Liaison Committee for the duration of the construction period for the Project. The Project Community\_Liaison Committee is to have an independent Chair and include representatives from the LMA, contractor, Councils, relevant statutory authorities and the community.
- e. Undertaken generally in accordance with a construction environmental management plan (Construction Environmental Management Plan) prepared to the satisfaction of the Minister for Planning, after consultation with Linking Melbourne Authority, the Environment Protection Authority and the relevant municipal council(s).
  - i) The Construction Environmental Management Plan must be prepared in accordance with the Environmental Management Framework in the Comprehensive Impact Statement for the Project.
  - ii) The Construction Environmental Management Plan must include the following:
    - a) A dust management plan;
    - b) A noise management plan;
    - c) A surface water management plan; and

- d) A groundwater management plan to manage potential groundwater impacts, including the risk of “mobilisation” and/or “migration” of contaminated groundwater.
- iii) Any Performance Requirements in the Environmental Management Plan must be consistent with the Performance Requirements in Table 2 of this Incorporated Document.
- iv) The Construction Environmental Management Plan may be prepared and approved for stages of the Project and separate plans may be prepared for each stage for construction and operation.
- v) With the approval of the Independent Auditor, the Environmental Management Plan may be amended from time to time to clarify or improve environmental management practices or procedures or add new obligations and associated controls, without increasing or introducing new environmental risks or impacts, must be prepared to the satisfaction of Linking Melbourne Authority after consultation with the relevant municipal council(s).
- vi) After endorsement from the Independent Auditor, amendments to the Environmental Management Plan which provide for a change to work methods or scope that results in increased or new environmental risks or impacts, must be prepared to the satisfaction of the Minister for Planning after consultation with Linking Melbourne Authority and the relevant municipal council.

## **6.0 EXPIRY**

The control in this document expires if any of the following circumstances applies:

- The development allowed by the control is not started by 31 December 2020.
- The development allowed by the control is not completed by 31 December 2030.
- The use allowed by the control is not started by 31 December 2030.

The responsible authority may extend these periods if a request is made in writing before the expiry date or within three months afterwards.

**Figure 1 (Sheets 1-5)**

[Insert amended Sheets 1 – 5 of Figure 1 to the CIS that exclude Part B and have been further modified to reflect the Assessment Committee’s Primary and Project Specific Recommendations contained in the *Executive Summary and Consolidated List of Recommendations*].

**Table 1: Urban Design Principles**

[Insert the Assessment Committee’s recommended version of the Urban Design Principles which are contained in Appendix F of this Report].

**Insert Table 2: Performance Requirements**

[Insert the Assessment Committee’s recommended version of the Performance Requirements which are contained in Appendix E of this Report].

## **Appendix E: Revised Performance Requirements**



# East West Link (Eastern Section) Performance Requirements Assessment Committee Recommended Version

**NOTE:** Text highlighted in yellow is to apply if the Assessment Committee's Primary Recommendations in relation to setting aside Part B are not accepted.

| CIS evaluation objective   | Applicable approval   | Performance objective   | PR code   | Performance requirements   |
|--|---|---|-----------|--|
| <b>Traffic</b>   |   |   |           |  |
| <b>Transport connectivity – to improve road-based transport connectivity between the east of Melbourne and the Port of Melbourne and the wider metropolitan region and the State, while maintaining the connectivity of existing local transport routes.</b> | Consent under clause 1 of Schedule 2 of the <i>Road Management Act 2004</i> allowing connection to a freeway<br><br>Planning scheme amendment under sections 8, 29 and 35 of the <i>Planning and Environment Act 1987</i> | To improve road-based transport connectivity between the east of Melbourne and the Port of Melbourne and the wider metropolitan region and the State, while maintaining the connectivity of the existing local transport routes | <b>T1</b> | Optimise the design of East West Link – Eastern Section in consultation with appropriate road management authorities as part of the detailed design process to: <ul style="list-style-type: none"> <li>• Minimise adverse impact on travel times for all transport modes, including walking and cycling;</li> <li>• Maintain, and where feasible, enhance the existing traffic movements at interchanges;</li> <li>• Enhance north-south traffic movements across Alexandra Parade, including north-south public transport (particularly tram priority), pedestrian and cycling movements by signals management and post construction measures that reduce the capacity of Alexandra Parade;</li> <li>• Design interchanges and intersections to meet relevant road and transport authority requirements;</li> <li>• Maintain, and where feasible, enhance pedestrian movements and bicycle connectivity;</li> <li>• Develop a strategy with Public Transport Victoria to minimise impacts on buses, trams and rail and, where feasible, enhance public transport facilities and services that cross or run parallel to the alignment of the East West Link – Eastern Section;</li> <li>• Ensure that any design does not prevent the opportunity for a light or heavy rail connection to Doncaster to the satisfaction of Public Transport Victoria; and</li> <li>• Minimise loss of car parking in consultation with relevant local councils.</li> </ul> |
|  |   |   | <b>T2</b> | Undertake traffic monitoring in selected streets identified in consultation with the relevant local council pre-construction, at two yearly intervals during construction (up to two years after construction is complete), and implement local area traffic management works in consultation with the local relevant councils.  |



| CIS evaluation objective | Applicable approval | Performance objective | PR code | Performance requirements  |
|--------------------------|---------------------|-----------------------|---------|---|
|                          |                     |                       | T3      | <p>In Precinct 1 and 2 design the Project to:</p> <ul style="list-style-type: none"> <li>• Ensure no road construction is undertaken at-grade beyond the northern road reservation boundary on Alexandra Parade between Smith Street and Gold Street;</li> <li>• Cover, whether by roofing or tunnel, to approximately 400m east of Hoddle Street, the through carriageways of the Eastern Freeway extension into the Project. Opportunities for alternative uses of the covered area, including open space, should be explored;</li> <li>• Ensure the ramp serving the northbound Hoddle Street movement east on to the Eastern Freeway be constructed at a reduced level no higher than the existing pavement level of Hoddle Street; and</li> <li>• Ensure the cross section of Alexandra Parade and Princes Street post construction is reduced to constrain east - west traffic movement, facilitate additional north - south traffic signal green time and achieve amenity and urban renewal objectives.</li> </ul> <p>In Precinct 3 design the Project to:</p> <ul style="list-style-type: none"> <li>• Ensure the Project design does not include ingress and egress to Elliott Avenue;</li> <li>• Accommodate only a northerly connection to and from CityLink;</li> <li>• Ensure tunnel portals are located proximate to Oak Street and bored or covered across the Manningham Parklands (Royal Park west of the Upfield Railway Line) to avoid elevated structures and any residential property acquisition;</li> <li>• Reduce the impact on the Essendon Community Garden and the Moonee Ponds Creek by moving the intersection of Ormond Road and the northbound Ormond Road off-ramp east closer to CityLink and minimising the separation distance between the off-ramp and CityLink; and</li> <li>• Avoid significant impacts on the Flemington Housing Estate.</li> </ul> <p>In Precincts 5 and 6 design the project to:</p> <ul style="list-style-type: none"> <li>• Avoid a connection to Arden Street;</li> <li>• Avoid significant impacts on: <ul style="list-style-type: none"> <li>- The Moonee Ponds Creek;</li> <li>- The Arden-Macaulay redevelopment area; and</li> <li>- The West Melbourne Terminal Station.</li> </ul> </li> <li>• Achieve an alternative to the Reference Project's viaduct along Part B alignment and connections from and to CityLink south to the Western Portal of Part A, with the redesign including consideration of the alternatives of a road in-tunnel or an elevated road on the east side of CityLink.</li> </ul> |

| CIS evaluation objective | Applicable approval | Performance objective  | PR code | Performance requirements  |
|--------------------------|---------------------|--|---------|---|
|                          |                     | To minimise disruption to motor vehicle traffic, parking, bicycle and pedestrian movements during construction | T4      | <p>Develop and implement traffic management measures to minimise disruption to motor vehicle traffic, parking, bicycle and pedestrian movements during construction in consultation with relevant road management authorities, including:</p> <ul style="list-style-type: none"> <li>• Management of any temporary or partial closure of traffic lanes, including along: <ul style="list-style-type: none"> <li>- Local roads, including provision for suitable routes for vehicles, cyclists and pedestrians to maintain connectivity for road and shared path users;</li> <li>- Eastern Freeway, Hoddle Street and Alexandra Parade;</li> <li>- Flemington Road and Elliott Avenue;</li> <li>- CityLink traffic lanes and ramps;</li> <li>- Macaulay Street, Arden Street and Dynon Road; and</li> <li>- Footscray Road and Appleton Dock Road.</li> </ul> </li> <li>• Maintain access to the Melbourne Zoo and State Netball and Hockey Centre, Urban Camp and Royal Park recreational facilities;</li> <li>• Only use Haulage Route 3 for the transport of spoil produced from tunnelling activities in consultation with the relevant authorities;</li> <li>• Restrict the number of local roads to be used for construction-related transportation to minimise impacts on amenity, in consultation with the relevant road authorities;</li> <li>• Reinstate access to open space, community facilities, commercial premises and dwellings if disrupted, as soon as practicable;</li> <li>• Provide on-site parking to accommodate the construction workforce whilst minimising traffic impacts on local roads;</li> <li>• Prevent parking on local roads or use of public car parks including those at the Melbourne Zoo and State Netball and Hockey Centre;</li> <li>• Provide safe access points to laydown areas and site compounds;</li> <li>• Implement a communications strategy to advise affected users, potentially affected users, relevant stakeholders and the relevant road authorities of any changes to transport conditions; and</li> <li>• Maintain, where feasible, current local area traffic management measures during construction or reinstate upon completion in consultation with the relevant local councils.</li> </ul> |

| CIS evaluation objective   | Applicable approval   | Performance objective  | PR code           | Performance requirements   |
|--|---|--|-------------------|--|
|  |   | To minimise disruption to public transport and rail freight during construction                  | T5                | Develop and implement measures to minimise disruption during construction to the South Morang/Hurstbridge and Upfield railway lines and all impacted tram and bus routes in consultation with VicTrack, Yarra Trams and MTM and to the satisfaction of Public Transport Victoria.  |
|  |   |  | T6                | Minimise disruption to the rail infrastructure south of Arden Street to the satisfaction of the operators.   |
|  |   | To minimise potential for accidents by managing road safety for all new road linkages            | T7                | Design new works in accordance with applicable road design standards and undertake independent road safety audits after each stage of detailed design and after construction.  |
| <b>Land use and utility assets</b>   |   |  |                   |  |
| <p><b>Land use, dwellings and infrastructure – to minimise adverse impacts and achieve appropriate integration with adjoining land uses, including minimal displacement of existing land use activities, dwellings and infrastructure.</b></p> | <p>Planning scheme amendment under sections 8, 29 and 35 of the <i>Planning and Environment Act 1987</i></p> <p>Licence under section 67 of the <i>Water Act 1989</i> required to construct, alter, operate or decommission works on a waterway, including works to deviate a waterway.</p> | To minimise impacts on existing land use, social and community infrastructure and utility assets | <p><b>LU1</b></p> | <p>Design to minimise permanent footprint to reduce adverse impacts on potentially affected land uses, particularly:</p> <ul style="list-style-type: none"> <li>Royal Park;</li> <li>Debney's Park (Flemington Community Centre, Playspace and Community Gardens);</li> <li>Brisbane Reserve/Essendon Community Gardens and Ormond Park (areas permanently impacted by ramps/viaducts);</li> <li>Fenton Reserve and Delhi Reserve; and</li> <li>Residential properties in proximity to the project area including but not limited to Bent Street Kensington, Manningham and Oak Streets West Parkville, Bendigo and Hotham Streets in Collingwood, and in the area of the proposed sidetrack north of Alexandra Parade.</li> </ul> <p>Locate the Elliott Avenue Portal at, or outside, the park edge.</p> <p>Ensure there is no cut and cover east of Elliott Avenue.</p> <p>Ensure that there is no net loss of Royal Park parkland and no net loss of public open space.</p> <p>Provide new areas of open space proximate to Part B which are functional and accessible in the immediate precinct.</p> <p>Protect the Moonee Ponds Creek as a multifunctional urban parkway and landscape corridor. Where overshadowing of the Moonee Ponds Creek must occur, create solutions to achieve a level of urban quality of amenity which will encourage use and provide a level of public safety.</p> |

| CIS evaluation objective | Applicable approval | Performance objective | PR code    | Performance requirements   |
|--------------------------|---------------------|-----------------------|------------|--|
|                          |                     |                       | <b>LU2</b> | Design to protect and, where practicable, improve access to and amenity for potentially affected residents, open space, social and community infrastructure and commercial facilities by responding to the Urban Design Framework including the urban design principles and implementing the principles of Crime Prevention Through Environmental Design.  |
|                          |                     |                       | <b>LU3</b> | <p>Design with regard to the <b>Arden - Macaulay Structure Plan and Moonee Ponds Structure Plan</b>, particularly in relation to providing for recreation, open space and connectivity opportunities along Moonee Ponds Creek, and access to social and community infrastructure.</p> <p>Prepare, fund and implement the proposed mitigation requirements, design interventions, and associated works for Moonee Ponds Creek Linear Park (within Precincts 3 and 4), and the mitigation requirements for <b>Debney's Sports Precinct</b>, Delhi Reserve, Travancore Park, Fenton Street Reserve, Brisbane Reserve and Ormond Park as specified in Moonee Valley City Council's submission (Document 515), in consultation with Melbourne Water, the City of Melbourne and the City of Moonee Valley, including consideration of specific design interventions for shared path networks and water sensitive urban design opportunities.</p>   |
|                          |                     |                       | <b>LU4</b> | <p>Protect, and/or modify utility and public assets to the standard requirements and satisfaction of asset owners.</p> <p><b>Prior to the commencement of major construction works in the area, prepare and implement a master plan for Debney's Park developed in consultation with relevant stakeholders including the Office of Housing, Moonee Valley City Council and Flemington Neighbourhood Renewal Board or other representative of the estate tenants.</b></p> <p><b>The Masterplan must include:</b></p> <ul style="list-style-type: none"> <li>• <b>Replacement of the Debney's Park playground with a new facility of equal or higher standard to the existing playground away from the project area;</b></li> <li>• <b>Replacement of the Flemington Community Centre with a new facility of equal or higher standard to the existing centre away from the project area; and</b></li> <li>• <b>Replacement of the Flemington Community Garden with a new area of equal or higher utility to the existing garden away from the project area.</b></li> </ul> <p>Relocate the Manningham Street playground within walking distance for local residents at the start of the project in consultation with the City of Melbourne.</p> <p>If the Essendon Community Gardens are impacted by the Project, provide mitigation works requested by the Gardens.</p> |
|                          |                     |                       | <b>LU5</b> | Undertake dilapidation surveys within 50m of any project works or the Project Boundary, whichever is the greater, and any other significant assets that may be affected prior to commencement of construction,   |

| CIS evaluation objective | Applicable approval | Performance objective | PR code | Performance requirements  |
|--------------------------|---------------------|-----------------------|---------|---|
|                          |                     |                       |         | <p>during construction as requested, and post construction. The surveys must include photographic and video recording with appropriate identification and marking of existing damage, and must be undertaken by independent qualified assessors of existing infrastructure, buildings and structures. For underground works, the 50m is to be measured horizontally outwards from a vertical line at the edge of works intersecting the ground surface.</p> <p>Establish an independent mediation process for the assessment of claims to operate up to five years post commencement of full Project operation. All damage to property due to the Project must be 'made good' at the contractor's expense.</p>  |
|                          |                     |                       | LU6     | <p>Minimise the impacts on SP AusNet's West Melbourne Terminal Station and facilitate its redevelopment / upgrade in a timely manner by ensuring that:</p> <ul style="list-style-type: none"> <li>• the reference project boundary in the CIS does not encroach into the West Melbourne Terminal Station;</li> <li>• the Fisherman's Bend Tower adjacent to the West Melbourne Terminal Station is relocated to the satisfaction of SP AusNet and to a timetable to be agreed by SP AusNet;</li> <li>• No works are undertaken within 5.0 metres of SP AusNet's underground 220kV electricity assets, unless special requirements for an alternative distance have been fulfilled in accordance with the requirements of SP AusNet's Transmission Field Work Procedures document FWP 05-05, as amended or replaced from time to time. To ensure that this minimum distance is adhered to, before any works are undertaken, accurate location of the underground cable asset by the LMA must be determined. This location shall be in addition to as-built drawings and may include cable location or ground penetrating radar techniques;</li> <li>• Subject to the requirement below, all works are undertaken in accordance with the SP AusNet Design Guidelines for alterations to the 220 kV cable that runs between Richmond Terminal Station and Brunswick Terminal Station, as amended or replaced from time to time;</li> <li>• Risk assessments and safety studies detailing the impact on electricity network infrastructure are completed in accordance with IEC 62067, which is the International Standard for the design, construction and testing of power cables with rated voltages up to 500kV, as amended or replaced from time to time; and</li> <li>• Design and construction of the proposed freeway does not interrupt or in any way interfere with the supply of electricity or gas by SP AusNet.</li> </ul> |
|                          |                     |                       | LU7     | <p>Ensure that:</p> <ul style="list-style-type: none"> <li>• No works are undertaken within 3.0 metres of licensed transmission gas pipeline or underground</li> </ul>  |

| CIS evaluation objective  | Applicable approval   | Performance objective  | PR code    | Performance requirements  |
|---|---|--|------------|---|
|   |   |  |            | regulating station; <ul style="list-style-type: none"> <li>Subject to the requirement below, clearances to all gas assets are as per the Conditions of Works as detailed in Technical Standards TS2607.1, TS2607.2 and TS 2607.3, as amended or replaced from time to time;</li> <li>Risk assessments and safety studies detailing the impact on gas network infrastructure are completed in accordance with AS 2885, which is the Standards Australia standard for the design, construction, testing, operations and maintenance of gas and petroleum pipelines that operate at pressure in excess of 1050 kPa, as amended or replaced from time to time.</li> </ul> |
|   |   | To ensure that the development of land above the tunnel is not adversely affected by construction or operation of the tunnel, and that development of land above the tunnel does not adversely affect the construction or operation of the tunnel. | <b>LU8</b> | On finalisation of the detailed project alignment, extent of tunnel and its vertical alignment, prepare and introduce into the City of Melbourne and City of Yarra Planning Schemes an appropriate Design and Development Overlay control to achieve the Performance Objective, consistent with the scope agreed between the LMA and the Assessment Committee's technical advisor.  |
| <b>Community and business impact</b>  |   |  |            |   |
| <b>Land use, dwellings and infrastructure – to minimise adverse impacts and achieve appropriate integration with adjoining land uses, including minimal displacement of</b> | Planning scheme amendment under sections 8, 29 and 35 of the <i>Planning and Environment Act 1987</i> | To minimise impacts on the community and business through engagement during construction and operation   | <b>C1</b>  | Develop and implement a community and business involvement plan in consultation with affected local Councils to engage and consult potentially affected stakeholders and discuss progress of construction activities and operation, including significant milestones, potential impacts, mitigation measures, changed traffic conditions and other matters which are of interest or concern to them, including: <ul style="list-style-type: none"> <li>Municipalities;</li> <li>Melbourne Zoo;</li> <li>State Netball and Hockey Centre;</li> <li>Urban Camp Melbourne;</li> </ul>  |

| CIS evaluation objective  | Applicable approval   | Performance objective  | PR code    | Performance requirements   |
|---|---|--|------------|--|
| existing land use activities and dwellings.   |   |  |            | <ul style="list-style-type: none"> <li>Recreation, sporting and community groups;</li> <li>Office of Housing;</li> <li>Flemington Estate tenants and the Flemington Neighbourhood Renewal Board;</li> <li>Potentially affected residents and property owners;</li> <li>Potentially affected businesses; and</li> <li>Other public facilities in proximity.</li> </ul> <p>Facilitate the formation of a Community Liaison Group for the Manningham Street/West Parkville residents and property owners.</p> <p>Establish a community grant program to operate during construction of the Project to fund community support activities and small capital works targeting community, sporting and recreation facilities in the local region as defined in the social impact assessment.</p> |
|   |   |  | C2         | <p>Participate in the Community Advisory Group (CAG) that is to be established by the State to facilitate community and stakeholder involvement in the development and delivery of the project in an advisory capacity. Participation shall include:</p> <ul style="list-style-type: none"> <li>Regular attendance at all meetings;</li> <li>Regular reporting of design and construction activities;</li> <li>Timely provision of relevant information, including response to issues raised by the group;</li> <li>Regular reporting and monitoring of impacts and discussion of mitigation measures and their effectiveness;</li> <li>Appointment of an independent Chair; and</li> <li>Participation in other CAG stakeholder groups as required by the State.</li> </ul>             |
| <b>Visual and landscape</b>   |   |  |            |  |
| <b>Visual amenity – to minimise adverse impacts on the quality of the existing built environment and landscape, including</b> | Planning scheme amendment under sections 8, 29 and 35 of the <i>Planning and Environment Act 1987</i> | To minimise impacts on the built environment and landscape, including public open space, and to maximise opportunities for | <b>LV1</b> | <p>Design in consultation with relevant local Council to demonstrate how the Urban Design Framework, including the urban design principles, has been met. Minimise impacts on the built environment and landscape, including public open space, and maximise opportunities for enhancement of public amenity resulting from the project, in consultation with relevant stakeholders, particularly in relation to:</p> <ul style="list-style-type: none"> <li>Road linkages between Hoddle Street and the Eastern Freeway;</li> <li>The Shot Tower in Alexandra Parade;</li> </ul>  |

| CIS evaluation objective   | Applicable approval   | Performance objective   | PR code    | Performance requirements  |        |          |
|--|---|---|------------|---|--------|----------|
| <b>public open space, and to maximise the enhancement of public amenity where opportunities exist.</b>                                     | Licence under section 67 of the <i>Water Act 1989</i> required to construct, alter, operate or decommission works on a waterway, including works to deviate a waterway. | enhancement of public amenity and safety  |            | <ul style="list-style-type: none"> <li>Any bridges, elevated and below ground road structures;</li> <li>Existing landmark urban elements across the project, including CityLink;</li> <li>Open space including Royal Park, <b>Debney's Park</b>, Travancore Park, Ormond Park and Holbrook Reserve;</li> <li>Melbourne Zoo, the State Netball and Hockey Centre and Urban Camp;</li> <li>Moonee Ponds Creek and Merri Creek; and</li> <li>Delhi Reserve, Brisbane Park, Fenton Reserve, Essendon <b>and Flemington</b> Community Gardens <b>and Flemington Community Centre</b>.</li> <li>Residential interfaces – relocation or reinstatement of potentially affected community facilities;</li> <li>Business interfaces; and</li> <li>Commercial 'third party' signage must be prohibited. This includes any 'billboard' signage on or adjacent to any infrastructure associated with the Project.</li> </ul> |        |          |
|  |   |   | <b>LV2</b> | Design permanent and temporary works in consultation with relevant stakeholders including the relevant local Council to minimise any adverse visual impact, the footprint and disturbance, and to maximise connectivity to public open space, particularly in Royal Park and along Moonee Ponds and Merri Creeks, to the Principal Bicycle Network and community facilities.  |        |          |
|  |   |   | <b>LV3</b> | Reinstatement public open spaces, vegetation cover and facilities disturbed by temporary works to the satisfaction of the land manager.<br><br>Maximise opportunities to enhance the open space and facilities, improve pedestrian access and shared user paths and achieve a net increase in tree canopy in Royal Park and other affected areas consistent with the Urban Design Framework, including the urban design principles.   |        |          |
| <b>Noise, vibration and light</b>  |   |   |            |   |        |          |
| <b>Noise, vibration, air emissions and light spill – to minimise adverse impacts from noise, vibration, air emissions and light spill.</b> |   | To minimise traffic noise impacts of East West Link – Eastern Section and local roads                               | <b>NV1</b> | Comply with the following limits on noise levels for the duration of the concession period:   |        |          |
|  |   |   |            | <table border="1"> <thead> <tr> <th>Aspect</th> <th>West end</th> <th>East end</th> </tr> </thead> <tbody> <tr> <td> <b>Applies to the following roads within the Limit of Works:</b> </td> <td>                     – East West Link – Eastern Section carriageways connecting the western portal to CityLink, and associated ramps<br/><br/>                     – East West Link – Eastern                 </td> <td>                     – Hoddle Street in particular Bendigo Street<br/><br/>                     – north side of Alexandra Parade between Gold and Smith streets                 </td> </tr> </tbody> </table>   | Aspect | West end |
| Aspect   | West end  | East end  |            |   |        |          |
| <b>Applies to the following roads within the Limit of Works:</b>   | – East West Link – Eastern Section carriageways connecting the western portal to CityLink, and associated ramps<br><br>– East West Link – Eastern                       | – Hoddle Street in particular Bendigo Street<br><br>– north side of Alexandra Parade between Gold and Smith streets |            |   |        |          |



| CIS evaluation objective | Applicable approval | Performance objective | PR code | Performance requirements               |   |  |  |
|--------------------------|---------------------|-----------------------|---------|--|---|--|--|
|                          |                     |                       |         |  | <p>Section carriageways connecting the western portal to the Port connection</p> <ul style="list-style-type: none"> <li>- The Port connection and associated ramps.</li> <li>- Where CityLink adjoins the Project, the noise limit applies to the total noise generated.</li> </ul> <p>In the case of Category A or B buildings as defined in the VicRoads Traffic Noise Reduction Policy affected by relocation of a noise barrier or by demolition of a structure exposing dwellings to higher traffic noise levels; the noise limit applies to the above roads, plus CityLink.</p> | <ul style="list-style-type: none"> <li>- Eastern Freeway</li> <li>- East West Link – Eastern Section</li> <li>- Ramps or other roads connecting Hoddle Street, Eastern Freeway or East West Link – Eastern Section</li> <li>- Ramps and carriageways connecting Elliott Avenue and East West Link – Eastern Section.</li> </ul> <p>In the case of Category A or B buildings as defined in the VicRoads Traffic Noise Reduction Policy affected by relocation of a noise barrier or by demolition of a structure exposing dwellings to higher traffic noise levels; the noise limit applies to the above roads.</p> |  |
|                          |                     |                       |         | <b>External criteria (7am to 10pm)</b> | 63dB L <sub>A10(15h)</sub>  | 63dB L <sub>A10(15h)</sub>   |  |
|                          |                     |                       |         | Applies at                             | Category A or B buildings   | Category A or B buildings  |  |
|                          |                     |                       |         |  | All levels  | All levels   |  |
|                          |                     |                       |         | <b>External criteria (10pm to 7am)</b> | 58dB L <sub>A10(9h)</sub>   | 58dB L <sub>A10(9h)</sub>  |  |
|                          |                     |                       |         | Applies at                             | Category A or B buildings   | Category A or B buildings  |  |
|                          |                     |                       |         |  | All levels  | All levels   |  |
|                          |                     |                       |         | <b>Internal criteria</b>               | AS2107  | AS2107   |  |
|                          |                     |                       |         | Implemented when                       | External criteria cannot be complied with by practicable  | External criteria cannot be complied with by practicable   |  |

| CIS evaluation objective | Applicable approval | Performance objective   | PR code    | Performance requirements  |  |  |
|--------------------------|---------------------|---|------------|---|--|--|
|                          |                     |   |            |   | means (practicability as defined in the VicRoads Design Note 6-1) and noise from the project is predicted to cause the external $L_{A10(15h)}$ (day) or $L_{A10(9h)}$ (night) (including all road traffic noise) to increase by 2dB or more. | means (practicability as defined in the VicRoads Design Note 6-1) and noise from the project is predicted to cause the external $L_{A10(15h)}$ (day) or $L_{A10(9h)}$ (night) (including all road traffic noise) to increase by 2dB or more. |
|                          |                     |   |            | Applies at  | All levels   | All levels   |
|                          |                     |   |            | <b>Open space criteria (passive)</b>  | 63dB $L_{A10(15h)}$<br>Subject to practicability as defined in the VicRoads Design Note 6-1.   | 63dB $L_{A10(15h)}$<br>Subject to practicability as defined in the VicRoads Design Note 6-1.   |
|                          |                     |   |            | <b>Open space criteria (active)</b>   | 68dB $L_{A10(15h)}$<br>Subject to practicability as defined in the VicRoads Design Note 6-1.   | 68dB $L_{A10(15h)}$<br>Subject to practicability as defined in the VicRoads Design Note 6-1.   |
|                          |                     |   |            | <ul style="list-style-type: none"> <li>• Ensure noise levels shall be rounded to the nearest decibel; and</li> <li>• Ensure that when assessing compliance with AS2107, noise shall be measured during a typically noisy period relevant to the room occupancy. The measurement duration shall be 10-60 minutes, or of sufficient duration to be within 1dB of the LAeq, 10minutes.</li> </ul>                    |  |  |
|                          |                     | To minimise noise impacts of the tunnel ventilation system                            | <b>NV2</b> | Design and implement the tunnel ventilation system to achieve compliance with State Environment Protection Policy (Control of Noise from Commerce, Industry and Trade) No. N-1 (SEPP N-1). Provide detailed design to the satisfaction of EPA Victoria prior to works commencing.   |  |  |
|                          |                     | To minimise traffic noise impacts of East West Link – Eastern Section and Local Roads | <b>NV3</b> | Model noise levels from predicted road traffic to determine and implement appropriate noise amelioration treatments to conform with Performance Requirement NV1 and meet the Urban Design Framework, including the urban design principles in consultation with local Councils.   |  |  |
|                          |                     |   | <b>NV4</b> | Measure traffic noise prior to and on commencing road operation and monitor traffic noise levels in accordance with VicRoads Road Design Note RDN 6-1 Interpretation and application of VicRoads traffic noise reduction policy 2005 to verify conformance with Performance Requirement NV1 and publish reports confirming compliance testing results. Take remedial action as soon as practicable if noise level |  |  |

| CIS evaluation objective   | Applicable approval         | Performance objective  | PR code    | Performance requirements  |                         |                             |  |                   |                      |  |          |          |             |        |          |         |        |        |           |        |        |
|--|-----------------------------|--|------------|---|-------------------------|-----------------------------|--|-------------------|----------------------|--|----------|----------|-------------|--------|----------|---------|--------|--------|-----------|--------|--------|
|  |                             |  |            | targets are not met.<br>Measurement locations are to be determined to the satisfaction of EPA Victoria in consultation with local Councils.   |                         |                             |  |                   |                      |  |          |          |             |        |          |         |        |        |           |        |        |
|  |                             |  | <b>NV5</b> | Measure noise from the tunnel ventilation system on commencing road operation and monitor noise from the tunnel ventilation system to verify compliance with State Environment Protection Policy (Control of Noise from Commerce, Industry and Trade) No. N-1 (SEPP N-1). Publish reports confirming compliance testing results and take remedial action as soon as practicable if noise level targets are not met.   |                         |                             |  |                   |                      |  |          |          |             |        |          |         |        |        |           |        |        |
|  |                             | Manage surface construction noise to protect amenity                           | <b>NV6</b> | Prepare and implement a Construction Noise Management Plan (CNMP) to the satisfaction of EPA Victoria in consultation with affected local Councils. The CNMP must meet the surface construction noise criteria set out in EPA Victoria publication 480 Guidelines for Major Construction Sites, EPA Victoria Publication 1254 Noise Control Guidelines and Australian Standard 2436 2010 Guide to Noise Control on Construction, Maintenance and Demolition Sites including: <ul style="list-style-type: none"> <li>working hours;</li> <li>night time (if required) and day time construction noise limits;</li> <li>a noise communications plan for advising and informing the community of work scheduling and working hours; and</li> <li>monitoring and response protocols for managing noise complaints and remedial action.</li> </ul>   |                         |                             |  |                   |                      |  |          |          |             |        |          |         |        |        |           |        |        |
|  |                             | Manage construction vibration and regenerated noise impacts to protect amenity | <b>NV7</b> | Achieve target levels for continuous vibration from construction activity to protect human comfort of occupied buildings (including heritage buildings) as follows (levels are calculated for the Australian Standard 2187.2). <table border="1" data-bbox="1003 1008 2042 1337"> <thead> <tr> <th rowspan="2">Type of space occupancy</th> <th colspan="2">Vibration velocities (mm/s)</th> </tr> <tr> <th>Day (16-hour day)</th> <th>Night (8-hour night)</th> </tr> </thead> <tbody> <tr> <td>Critical working areas (e.g. hospital operating theatres, some precision laboratories)</td> <td>0.5 mm/s</td> <td>0.5 mm/s</td> </tr> <tr> <td>Residential</td> <td>2 mm/s</td> <td>0.7 mm/s</td> </tr> <tr> <td>Offices</td> <td>2 mm/s</td> <td>2 mm/s</td> </tr> <tr> <td>Workshops</td> <td>4 mm/s</td> <td>4 mm/s</td> </tr> </tbody> </table> Implement remedial action as soon as possible if these target levels are exceeded. | Type of space occupancy | Vibration velocities (mm/s) |  | Day (16-hour day) | Night (8-hour night) | Critical working areas (e.g. hospital operating theatres, some precision laboratories) | 0.5 mm/s | 0.5 mm/s | Residential | 2 mm/s | 0.7 mm/s | Offices | 2 mm/s | 2 mm/s | Workshops | 4 mm/s | 4 mm/s |
| Type of space occupancy  | Vibration velocities (mm/s) |  |            |   |                         |                             |  |                   |                      |  |          |          |             |        |          |         |        |        |           |        |        |
|  | Day (16-hour day)           | Night (8-hour night)   |            |   |                         |                             |  |                   |                      |  |          |          |             |        |          |         |        |        |           |        |        |
| Critical working areas (e.g. hospital operating theatres, some precision laboratories) | 0.5 mm/s                    | 0.5 mm/s   |            |   |                         |                             |  |                   |                      |  |          |          |             |        |          |         |        |        |           |        |        |
| Residential  | 2 mm/s                      | 0.7 mm/s   |            |   |                         |                             |  |                   |                      |  |          |          |             |        |          |         |        |        |           |        |        |
| Offices  | 2 mm/s                      | 2 mm/s   |            |   |                         |                             |  |                   |                      |  |          |          |             |        |          |         |        |        |           |        |        |
| Workshops  | 4 mm/s                      | 4 mm/s   |            |   |                         |                             |  |                   |                      |  |          |          |             |        |          |         |        |        |           |        |        |

| CIS evaluation objective   | Applicable approval  | Performance objective   | PR code     | Performance requirements   |          |   |                               |                |   |   |  |  |   |                         |  |   |
|--|--|---|-------------|--|----------|---|-------------------------------|----------------|---|---|--|--|---|-------------------------|--|---|
|  |  |   | <b>NV8</b>  | <p>Target levels to be achieved at properties for impulse vibration from construction activity to protect human comfort of occupied buildings are as follows (levels are calculated for the Australian Standard 2187.2 and the DIN 4150.2).</p> <table border="1"> <thead> <tr> <th>Category</th> <th>Peak component particle velocity (mm/s)</th> <th>Peak overpressure level (dBL)</th> </tr> </thead> <tbody> <tr> <td>Sensitive site</td> <td>10 mm/s maximum unless agreement is reached with occupier that a higher limit may apply</td> <td>120 dBL for 95% of blasts. 125 dBL maximum unless agreement with occupier that a higher limit may apply</td> </tr> <tr> <td>Occupied non-sensitive sites such as factories and commercial premises</td> <td>25 mm/s maximum value unless agreement is reached with occupier that a higher limit may apply<br/><br/>For sites containing equipment sensitive to vibration, the vibration should be kept below manufacturer's specification or to levels that can be shown not to adversely affect the equipment operation</td> <td>125 dBL maximum value unless agreement is reached with occupier that a higher limit may apply<br/><br/>For sites containing equipment sensitive to vibration, the vibration should be kept below manufacturer's specification or levels that can be shown not to adversely affect the equipment operation</td> </tr> <tr> <td>Heritage infrastructure</td> <td>3 mm/s if no condition survey is undertaken or up to 10 mm/s if a condition survey demonstrates a higher level is acceptable</td> <td>120 dBL for 95% of blasts. 125 dBL maximum unless agreement with occupier that a higher limit may apply</td> </tr> </tbody> </table> <p>Implement remedial action as soon as possible if these target levels are exceeded.</p> | Category | Peak component particle velocity (mm/s) | Peak overpressure level (dBL) | Sensitive site | 10 mm/s maximum unless agreement is reached with occupier that a higher limit may apply | 120 dBL for 95% of blasts. 125 dBL maximum unless agreement with occupier that a higher limit may apply | Occupied non-sensitive sites such as factories and commercial premises | 25 mm/s maximum value unless agreement is reached with occupier that a higher limit may apply<br><br>For sites containing equipment sensitive to vibration, the vibration should be kept below manufacturer's specification or to levels that can be shown not to adversely affect the equipment operation | 125 dBL maximum value unless agreement is reached with occupier that a higher limit may apply<br><br>For sites containing equipment sensitive to vibration, the vibration should be kept below manufacturer's specification or levels that can be shown not to adversely affect the equipment operation | Heritage infrastructure | 3 mm/s if no condition survey is undertaken or up to 10 mm/s if a condition survey demonstrates a higher level is acceptable | 120 dBL for 95% of blasts. 125 dBL maximum unless agreement with occupier that a higher limit may apply |
| Category   | Peak component particle velocity (mm/s)  | Peak overpressure level (dBL)   |             |  |          |   |                               |                |   |   |  |  |   |                         |  |   |
| Sensitive site   | 10 mm/s maximum unless agreement is reached with occupier that a higher limit may apply  | 120 dBL for 95% of blasts. 125 dBL maximum unless agreement with occupier that a higher limit may apply   |             |  |          |   |                               |                |   |   |  |  |   |                         |  |   |
| Occupied non-sensitive sites such as factories and commercial premises | 25 mm/s maximum value unless agreement is reached with occupier that a higher limit may apply<br><br>For sites containing equipment sensitive to vibration, the vibration should be kept below manufacturer's specification or to levels that can be shown not to adversely affect the equipment operation | 125 dBL maximum value unless agreement is reached with occupier that a higher limit may apply<br><br>For sites containing equipment sensitive to vibration, the vibration should be kept below manufacturer's specification or levels that can be shown not to adversely affect the equipment operation |             |  |          |   |                               |                |   |   |  |  |   |                         |  |   |
| Heritage infrastructure  | 3 mm/s if no condition survey is undertaken or up to 10 mm/s if a condition survey demonstrates a higher level is acceptable   | 120 dBL for 95% of blasts. 125 dBL maximum unless agreement with occupier that a higher limit may apply   |             |  |          |   |                               |                |   |   |  |  |   |                         |  |   |
|  |  |   | <b>NV9</b>  | Undertake real time vibration and noise monitoring to demonstrate compliance with limits and publish these results. Take remedial action as soon as possible if limits are not met.  |          |   |                               |                |   |   |  |  |   |                         |  |   |
|  |  | To manage construction vibration to protect utility assets  | <b>NV10</b> | <p>Prior to construction undertake condition assessments of above and below ground utility assets and establish construction vibration limits with asset owners.</p> <p>Monitor vibration during construction to demonstrate compliance with agreed vibration limits. Take remedial action as soon as possible if limits are not met.</p>  |          |   |                               |                |   |   |  |  |   |                         |  |   |

| CIS evaluation objective  | Applicable approval              | Performance objective                 | PR code    | Performance requirements  |   |  |
|---|----------------------------------|---------------------------------------|------------|---|---|--|
|   |                                  |                                       | NV11       | Ensure that the earthwork preparation for the construction of the Project does not interrupt or in any way interfere with the supply of electricity or gas from SP AusNet.  |   |  |
|   |                                  |                                       | NV12       | Ensure that peak particle velocity levels from piling, tunnelling, boring or similar activities within the boundary of the West Melbourne Terminal Station are kept below 20 mm/s.  |   |  |
|   |                                  |                                       | NV13       | Ensure that peak particle velocity levels on any gas pipeline or any underground 220 kV electricity asset is kept below 20 mm/s.  |   |  |
|   |                                  |                                       |            | To manage construction vibration and regenerated noise impacts through community engagement to protect amenity  | NV14  | Develop and implement a communications plan as part of the Construction Environmental Management Plan for management of potential impacts from vibration and regenerated noise during construction, including notification of affected property owners and land managers in advance of the start of construction.  |
|   |                                  |                                       |            | To manage construction vibration and regenerated noise impacts to protect the Melbourne Zoo   | NV15  | Develop and implement management measures in consultation with the Melbourne Zoo and the City of Melbourne for construction works within proximity of the Melbourne Zoo, including management of potential impacts from: <ul style="list-style-type: none"> <li>• Vibration and regenerated noise;</li> <li>• Construction noise; and</li> <li>• Working hours.</li> </ul> |
|   |                                  |                                       |            | To minimise the impact of light emissions   | L1  | Design in consultation with relevant stakeholders to demonstrate how the Urban Design Framework, including the urban design principles, has been met to minimise light spillage and protect the amenity of adjacent land uses, including the Melbourne Zoo and Royal Park.   |
|   |                                  |                                       | L2         |   | Develop and implement management measures in consultation with relevant stakeholders to minimise light spillage during construction to protect the amenity of adjacent surrounding neighbourhoods, parks and community facilities including Melbourne Zoo and urban environments. |  |
| <b>Air quality – exhaust, dust and greenhouse gas emissions</b> |                                  |                                       |            |   |   |  |
| <b>Noise,</b>   | Works approval under section 19B | To manage tunnel emissions to protect | <b>AQ1</b> | Undertake a detailed air modelling assessment in accordance with requirements of SEPP AQM using PM <sub>2.5</sub> and PM <sub>10</sub> as the key indicators for the assessment to inform the final design of the tunnel and tunnel |   |  |

| CIS evaluation objective  | Applicable approval                           | Performance objective   | PR code    | Performance requirements  |
|---|---|---|------------|---|
| <b>vibration, air emissions and light spill – to minimise adverse impacts from noise, vibration, air emissions and light spill.</b> | of the <i>Environment Protection Act 1970</i> | the beneficial uses of the air environment  |            | ventilation system.   |
|   |   | To ensure in-tunnel air quality is safe for motorists and others using the tunnel | <b>AQ2</b> | Design and implement a tunnel ventilation system to meet the best practice (clause 19) and design criteria (Schedule A) requirements of the SEPP (Air Quality Management).<br><br>Provide detailed design with technical assessment undertaken in accordance with SEPP (Air Quality Management) demonstrating how the impacts of air emissions on air quality have been minimised to the satisfaction of EPA Victoria, prior to commencement of works. This must demonstrate the application of best practice as defined in the SEPP AQM.<br><br>The design is to provide for the location of the east main ventilation structure at the eastern portal east of Hoddle Street and the railway line.   |
|   |   | To manage tunnel emissions to protect beneficial uses of the air environment      | <b>AQ3</b> | Design a tunnel ventilation system to introduce and remove air from the tunnels to meet in tunnel air quality requirements including the provision for retrofitting of pollution control equipment. Air pollution control equipment be fitted into the tunnel ventilation system if the modelling for the final design shows the PM2.5 and PM10 levels from the vent stack emissions is greater than 30% of the applicable air quality standards.<br><br>Achieve a longitudinal air velocity in the tunnels not exceeding 10 metres/second.<br><br>In tunnel air quality must meet the following CO standards: <ul style="list-style-type: none"> <li>• A maximum peak value of 150ppm;</li> <li>• A 15 min. average of 50ppm; and</li> <li>• A 2-hour average of 25ppm.</li> </ul> A mid tunnel air intake structure must be included in the final design.<br><br>After detailed design is finalised prepare and introduce a Design and Development Overlay control into the City of Melbourne and Yarra Planning Schemes to protect the dispersion performance of the ventilation stacks (such controls should be similar in scope to existing controls in those Scheme relating to CityLink ventilation stacks). |
|   |   | To protect beneficial   | <b>AQ4</b> | Design the tunnel ventilation system to achieve zero portal emissions during operation.   |
|   |   |   | <b>AQ5</b> | Undertake a detailed air quality assessment of the surface roads to guide the final design and alignment including any viaducts using PM <sub>2.5</sub> and PM <sub>10</sub> as the key indicators. Modelling to be done for optimal design   |

| CIS evaluation objective  | Applicable approval            | Performance objective   | PR code | Performance requirements   |
|---|--------------------------------|---|---------|--|
|   |                                | uses of the air environment for the surface sections of East West Link – Eastern Section      |         | to minimise the public health impacts arising from exposure to emissions from the roads.   |
|   |                                |   | AQ6     | Near road emissions (including NO <sub>2</sub> , PM <sub>2.5</sub> and PM <sub>10</sub> ) to be modelled for the detailed design to demonstrate compliance with SEPP (Air Quality Management) intervention level concentration requirements (Schedule B).  |
|   |                                |   | AQ7     | Develop and undertake an air quality monitoring program to measure the air quality impacts of East West Link – Eastern Section, including at least one year of monitoring before operation; one year after operation; and five years post opening of the tunnel. Include near road neighbourhood air quality and meteorological monitoring in accordance with SEPP (Air Quality Management) SEPP (Ambient Air Quality) to the satisfaction of EPA Victoria. Results of the monitoring are to be made publicly available. |
|   |                                |   | AQ8     | Monitor the in tunnel air quality and ventilation stack emissions during operation of the ventilation system to demonstrate compliance with SEPP (Air Quality Management) and the EPA licence to the satisfaction of EPA Victoria and report the results publicly on a quarterly basis.<br>Take any required remedial action if targets are not met as soon as practicable.  |
|   |                                |   | AQ9     | Manage construction activities in accordance with EPA Victoria publication 480 Guidelines for Major Construction Sites to maintain air quality to a standard which does not prejudice the air quality of nearby residents, open spaces and community facilities.<br>Develop and implement an air quality management and monitoring plan including dust and construction vehicle emissions to minimise impact of construction to the satisfaction of EPA Victoria.  |
|   |                                | To protect the beneficial uses of the air environment in relation to greenhouse gas emissions | GG1     | Integrate sustainable design practices into the design process to identify, implement and monitor measures that will reduce overall greenhouse gas emissions arising from construction, maintenance and operation of the project. Include mandatory actions under the Protocol for Environmental Management (Greenhouse Gas Emissions and Energy Efficiency in Industry) for selection of best practice energy usage for the tunnel ventilation and lighting systems.  |
| <b>Cultural heritage</b>  |                                |   |         |  |
| <b>Cultural heritage – to provide appropriate protection for cultural heritage.</b> |                                | To minimise impacts on sites of Aboriginal cultural significance                              | CH1     | Comply with a Cultural Heritage Management Plan approved under the <i>Aboriginal Heritage Act 2006</i> .   |
|   | Permit under section 74 of the | To minimise impacts on sites of historical  | CH2     | Design permanent and temporary works to minimise impacts on historic cultural heritage in consultation with the relevant local Council.  |

| CIS evaluation objective | Applicable approval  | Performance objective  | PR code           | Performance requirements  |
|--------------------------|--|--|-------------------|---|
|                          | <p><i>Heritage Act 1995</i> to carry out works or activities in relation to a registered place or registered object</p> <p>Consent under section 129 of the <i>Heritage Act 1995</i> for impact on archaeological relics</p> | <p>cultural significance</p> <p>To minimise impacts on both known (identified) and unidentified archaeological historic sites and values</p> | <p><b>CH3</b></p> | <p>Develop an archaeological management plan to manage disturbance of archaeological sites and values affected by the project. Undertake investigations in accordance with the Guidelines for Investigating Historical Archaeological Artefacts and Sites, Heritage Victoria 2012 (as amended or updated) and to the satisfaction of the Executive Director, Heritage Victoria.</p> <p>Ensure the plan satisfactorily addresses Heritage Victoria's requirements for background historical research, excavation methodology, research design, reporting and artefact management and analysis, and build on historical research to identify opportunities for active interpretation including potential archaeological sites and values within:</p> <ul style="list-style-type: none"> <li>• H7922-0142 Yarra Bend Park Northcote;</li> <li>• H7822-2311 Royal Park;</li> <li>• H7822-0209 Debney's Park East; and</li> <li>• H7822-0312 West Melbourne Rubbish Tips, Dynon Road.</li> </ul> <p>Incorporate strategies relating to the protection of sites of archaeological interest in relevant masterplans. Consider and investigate further initiatives to build on historical research and provide active interpretation of heritage.</p> |
|                          |  | <p>To protect structural integrity of known historic sites and values</p>  | <p><b>CH4</b></p> | <p>Undertake condition assessments of heritage buildings or structures prior to commencement of construction and particularly in the vicinity of the following registered heritage sites:</p> <ul style="list-style-type: none"> <li>• H0709 Shot Tower, Alexandra Parade, Clifton Hill;</li> <li>• H1788 Melbourne General Cemetery for all existing gravestones, crypts, memorials and monuments within the project boundary (in plan);</li> <li>• H1606 Cambridge Terrace, 557-567 Drummond Street, Carlton;</li> <li>• H1545 Former Police Station complex, 155 Royal Parade, Parkville; and</li> <li>• H0394 Former College Church, 149 Royal Parade, Parkville.</li> </ul> <p>Undertake vibration monitoring during tunnel construction in proximity to these sites, and monitor their condition during and post-construction for settlement and structural integrity disturbance as a result of the proposed works. Take remedial action, if required, to the satisfaction of the Executive Director, Heritage Victoria.</p>   |
|                          |  | <p>To record historical values of buildings</p>  | <p><b>CH5</b></p> | <p>Undertake archival photographic records (interior and exterior) of all heritage buildings, streetscapes or places disturbed by the project works, including:</p>   |



| CIS evaluation objective  | Applicable approval   | Performance objective   | PR code    | Performance requirements  |
|---|---|---|------------|---|
|   |   | streetscapes, and landscapes or relocated/reused small structures if feasible that are disturbed by project works |            | <ul style="list-style-type: none"> <li>• <i>108-112 Hotham Street, 2-26 Bendigo Street, Gold Street Precinct HO321, Yarra Planning Scheme</i></li> <li>• <i>56-58 and 64 Alexandra Parade, 124 Gold Street, 355-367 and 406-420 Wellington Street, Clifton Hill Western Precinct HO317, Yarra Planning Scheme</i></li> <li>• Parkville Precinct HO4, Melbourne Planning Scheme to the extent where works are proposed</li> <li>• Kensington Precinct HO9, Melbourne Planning Scheme to the extent where works are proposed</li> <li>• A more detailed assessment of works and impact on significance of the complex at 29-37 Barrett Street, Kensington if disturbed by proposed works</li> <li>• Arden Street road bridge railing HO814 Melbourne Planning Scheme and consider re-use of the railing if affected</li> <li>• North and West Melbourne Precinct HO3 to the extent where works are proposed.</li> </ul> <p><i>Prepare measured drawings for the original two-storey section of the Former Box's Curling Works at 64 Alexandra Parade.</i></p> <p>Maintain set-off as indicated in Reference Project for the former Burge Bros Factory in Precinct 5.</p> <p><i>Relocate the heritage post box located on the south-west corner of Wellington Street and Alexandra Parade to a suitable location within the precinct in consultation with and to the reasonable satisfaction of the local council, if impacted by project works.</i></p> <p>Undertake an assessment of significant trees and vegetation within Parkville Precinct HO4 adjacent to the project area to identify those to be protected in consultation with the City of Melbourne and develop and implement a Tree Management Plan.</p> <p>Retain the row of Elms at Ross Straw Field and protect during project works.</p> <p>Replace the Avenue style tree planting along Flemington Road if impacted by works.</p> <p>Review direct physical impacts on significant fabric as part of the detailed design for Moonee Ponds Creek and the Infrastructure Precinct.</p> <p><u>Assessment Committee Note: the items in <i>italics</i> above should not need to be disturbed if the primary recommendations are accepted.</u></p> |
| <b>Surface water</b>  |   |   |            |   |
| <b>Surface water and groundwater – to maintain the functions and values</b> | Licence under section 67 of the <i>Water Act 1989</i> required to | To maintain or improve existing surface water quality during operation and  | <b>SW1</b> | Meet State Environment Protection Policy (Waters of Victoria) for discharge and run-off from the project to the Merri Creek, Yarra River and Moonee Ponds Creek.  |
|   |   |   | <b>SW2</b> | Manage surface water run-off to maintain the stormwater quality, quantity and function provided by the Trin Warren Tam-boore wetlands and associated infrastructure during and post-construction, and replace   |

| CIS evaluation objective  | Applicable approval  | Performance objective                                  | PR code  | Performance requirements  |
|---|--|--|--|---|
| <p><b>of affected waterways, floodplains and groundwater.</b></p> | <p>construct, alter, operate or decommission works on a waterway, including works to deviate a waterway</p> <p>Comment from the Secretary pursuant to section 66 of the <i>Conservation, Forests and Lands Act 1987</i> on plan of works across waterways.</p> | <p>construction</p>                                    |  | <p>the existing irrigation system function and capacity provided by the wetlands and storage tank under Ross Straw Field if rendered inoperative by the Project.</p>  |
|   |  | <p><b>SW3</b></p>                                      | <p>Fully integrate the stormwater treatment system into the design of East West Link – Eastern Section in accordance with VicRoads Integrated Water Management Guidelines (June 2013) and the EPA Best Practice Environmental Management Guidelines for Urban Stormwater (2006) (or as revised); and</p> <p>Where connection to the existing drainage network is needed, the views of the relevant drainage authority must be sought and complied with where reasonable and practicable.</p> |   |
|   |  | <p><b>SW4</b></p>                                      | <p>Any proposed discharge of tunnel waste water from the site must be approved by the relevant drainage authority prior to discharges occurring.</p>   |   |
|   |  | <p><b>SW5</b></p>                                      | <p>Develop and implement a monitoring program for run-off from the project to assess compliance with water quality objectives in consultation with the relevant drainage authority and take appropriate remedial action if water quality objectives are not met.</p>   |   |
|   |  | <p><b>SW6</b></p>                                      | <p>Design the capacity of the stormwater drainage system to contain hazardous spills to the satisfaction of EPA Victoria, including incident response procedures.</p>  |   |
|   |  | <p>To maintain existing levels of flood protection</p> | <p><b>SW7</b></p>  | <p>Permanent and associated temporary construction works must not increase flood levels that result in an additional flood risk associated with Merri Creek and Moonee Ponds Creek, and overland flood flows associated with Alexandra Parade Main Drain as well as tributary drains to both creeks to the requirements and satisfaction of Melbourne Water and in consultation with any other relevant drainage authority.</p> <p>Undertake modelling of the design of permanent and temporary works to demonstrate the resultant flood levels and risk profile to requirements and satisfaction of Melbourne Water and in consultation with any other relevant drainage authority.</p> <p>Consider potential effects of climate change and sea level rise of 0.8m by 2100, with and without the works for both existing and proposed scenarios (for example future redevelopment in relation to Moonee Ponds Creek within the Arden - Macaulay Structure Plan area) in consultation with the local Council.</p> <p>Ensure that surface water from the East West Link – Eastern Section does not encroach on or through the West Melbourne Terminal Station or into underground SP AusNet electricity or gas assets.</p> |
|   |  | <p>To maintain flood plain storage</p>                 | <p><b>SW8</b></p>  | <p>Maintain existing flood plain storage capacity potentially impacted by the project in consultation with Melbourne Water and any other relevant drainage authority to ensure no increase in flood level or frequency during construction or operation of the East West Link – Eastern Section and ancillary works.</p>  |

| CIS evaluation objective | Applicable approval | Performance objective   | PR code     | Performance requirements   |
|--------------------------|---------------------|---|-------------|--|
|                          |                     | To maintain flow regime   | <b>SW9</b>  | Ensure permanent and associated temporary works do not increase flow velocities in Merri Creek or Moonee Ponds Creek that would potentially affect the stability or safety of property, structures or assets including flood levees, and/or result in erosion during operation or construction, to the requirements and satisfaction of Melbourne Water.   |
|                          |                     | To protect people and assets from flood waters in the tunnel        | <b>SW10</b> | Design tunnel portals to exclude surface flows from external catchments during both construction and operation periods; and inform design with a risk assessment that considers a range of events, including assessment of the probable maximum flood.<br><br>Develop and implement measures and operational plans to manage flood emergency events for the tunnel portals.  |
|                          |                     | To maintain access to stormwater assets                             | <b>SW11</b> | Provide adequate clearances and access for ongoing maintenance of Melbourne Water and other drainage authority assets, with a minimum 4 x 4 m maintenance access envelope for sections of Moonee Ponds Creek under proposed elevated structures to the satisfaction of Melbourne Water.  |
|                          |                     |   | <b>SW12</b> | Size and design any proposed realignment to the Alexandra Parade Main Drain and Relief Drain to the satisfaction of Melbourne Water.   |
|                          |                     | To protect water quality and habitat in Merri Creek                 | <b>SW13</b> | Ensure no works are undertaken in the Merri Creek waterway, bridge piers are to be sited outside of the waterway area and no earthworks are to spill onto the creek banks or into the waterway.<br><br>Ensure that construction is to be managed so that there are no off site impacts to water quality within Merri Creek and the Yarra River, and that best practice sediment and erosion control measures and appropriate handling of construction materials is included in the environmental management plan for construction. |
|                          |                     | To protect the bank stability of Merri Creek and Moonee Ponds Creek | <b>SW14</b> | Develop and implement appropriate measures to maintain bank stability of Moonee Ponds Creek and Merri Creek during construction to the satisfaction of Melbourne Water in consultation with relevant local Councils.   |
|                          |                     |   | <b>SW15</b> | Design and undertake modifications to Moonee Ponds Creek to minimise the potential for erosion, sediment plumes and exposure of contaminated material during construction to the satisfaction of Melbourne Water in consultation with relevant local Councils. Maximise the visual and aesthetic amenity of the waterway having regard to the concepts of the Moonee Ponds Creek Concept Plan 1992.  |
|                          |                     |   | <b>SW16</b> | Consult with and have regard to the view of the relevant drainage authority in meeting performance requirements SW1 to SW15.   |

| Groundwater  |  |  |  |
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| <p><b>Surface water and groundwater – to maintain the functions and values of affected waterways, floodplains and groundwater.</b></p> |  | To protect beneficial uses of groundwater  | <p><b>GW1</b></p> <p>Develop and implement measures for management, monitoring, reuse and disposal of groundwater inflows during construction, to the satisfaction of the EPA. Maintain or improve groundwater quality in accordance with the beneficial uses of the groundwater quality as defined by State Environment Protection Policy (Groundwaters of Victoria) and by State Environment Protection Policy (Waters of Victoria).</p>   |
|  |  |  | <p><b>GW2</b></p> <p>Adopt construction methods that protect groundwater quality, for example:</p> <ul style="list-style-type: none"> <li>• Use sealing products, caulking products, lubricating products and chemical grouts applied during tunnelling construction that do not diminish the groundwater quality</li> <li>• Use fluids for artificial recharge activities that do not diminish the groundwater quality</li> <li>• Ensure compatibility of construction materials with groundwater quality to provide long-term durability for tunnel design life</li> <li>• Develop drainage infrastructure that provides for the propensity of dissolved constituents in groundwater to precipitate out of solution and create clogging and maintenance risks.</li> </ul>  |
|  |  | To minimise changes to groundwater levels during operation and construction to manage mobilisation of contaminated groundwater | <p><b>GW3</b></p> <p>Design tunnel drainage and adopt construction methods which minimise changes to groundwater levels during operation and construction to prevent and manage mobilisation of contaminated groundwater and avoid any other adverse impacts of groundwater level changes.</p> <p>Develop and maintain a predictive numerical groundwater model to:</p> <ul style="list-style-type: none"> <li>• Inform tunnel design and construction methods;</li> <li>• Assess damming effects potentially created by tunnel on palaeochannels, including potential impact of elevated groundwater levels in the basalt overlying the palaeochannel sediments;</li> <li>• Assess fate and transport of identified groundwater plumes;</li> <li>• Assess subsidence potential due to drawdown;</li> <li>• Assess the potential for interaction with waterways and potential groundwater dependent ecosystems; and</li> <li>• Identify trigger levels (groundwater level and quality) and associated intervention actions when trigger levels are reached.</li> </ul> |
|  |  |  | <p><b>GW4</b></p> <p>Develop and implement a pre-construction, construction and post-construction groundwater monitoring program consistent with EPA Publication 669 (2000) Groundwater Sampling Guidelines, to calibrate and verify the predictive model, manage construction activities and monitor operation during the concession period.</p> <p>Develop and implement measures for management of groundwater intercepted during construction,</p>   |

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|  |  |  |            | including: <ul style="list-style-type: none"> <li>• Identification, treatment, disposal and handling of contaminated seepage water and/or slurries including vapours;</li> <li>• Contamination plume management, particularly associated with the former Fitzroy Gasworks;</li> <li>• Assessment of barrier/damming effects;</li> <li>• Subsidence management;</li> <li>• Dewatering and potentials impacts on acid sulfate soils, including both unconsolidated sediments and lithified sedimentary rock;</li> <li>• Protection of waterways and potential groundwater dependent ecosystems; and</li> <li>• Contingency actions when intervention is required.</li> </ul>   |
|  |  | To minimise impact on existing groundwater users | <b>GW5</b> | Undertake an audit of existing bores on properties within 500 m of the alignment to confirm groundwater usage. Develop a plan to maintain water supply to identified groundwater users.  |
| <b>Biodiversity</b>  |  |  |            |  |
| <b>Native vegetation and biodiversity – to maintain the values of remnant native vegetation and associated biodiversity.</b> | Planning scheme amendment under sections 8, 29 and 35 of the <i>Planning and Environment Act 1987</i><br><br>Licence under section 67 of the <i>Water Act 1989</i> required to construct, alter, operate or decommission works on a waterway, including works to deviate a waterway.<br><br>Comment from the Secretary pursuant to section 66 of the | To protect biodiversity values                   | <b>B1</b>  | Develop and implement measures to avoid, where practicable, and otherwise minimise impacts on native vegetation and fauna habitat through detailed design and construction, including: <ul style="list-style-type: none"> <li>• Minimising footprint and surface disturbance of temporary and permanent works and constrain works on the Merri Creek;</li> <li>• Fencing defined protected areas and no-go zones along the banks of Merri Creek and within Royal Park, including protection of large scattered trees and the Australian Native Garden, to prevent access during construction. Fencing should be to a standard agreed with the relevant land manager;</li> <li>• Development and implementation of a Tree Management Plan for protected trees based on the recommendations of Australian Standard 4970-2009 Protection of Trees on Development;</li> <li>• Minimising the removal of mature trees and remnant vegetation;</li> <li>• Managing the spread and introduction of weeds and pathogens during construction including through vehicle hygiene;</li> <li>• Minimising the removal of planted and remnant native trees along the banks of the Moonee Ponds Creek, to the extent practicable;</li> <li>• Reinstating areas affected by temporary works and select appropriate vegetation for planting to tolerate the microclimate conditions including under new road structures in consultation with the relevant local council. New and replacement plantings of indigenous vegetation in Royal Park, where practicable, is to use nursery stock grown from seed sources of local provenance; and</li> </ul> |

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| <p><i>Conservation, Forests and Lands Act 1987</i> on plan of works across waterways.</p> |  |           | <ul style="list-style-type: none"> <li>The Project must include rehabilitation of all affected areas following construction that meets current best practice standards and be consistent with any adopted management plan for the relevant area.</li> </ul>  |
|   |  | <b>B2</b> | <p>Provide vegetation offsets to achieve no net loss, as required, in accordance with the Biodiversity Assessment Guidelines (DEPI, 2013) following the development of the final design.</p> <p>The location of any offsets should be as near as possible to the area where the loss has occurred.</p> <p>Where works are to occur in the White's Skink habitat area in Royal Park west, undertake salvage of White's Skink prior to works and create appropriate habitat to compensate for the area of habitat removed.</p> <p>If works will result in loss or partial loss of the Trin Warren Tam-boore wetlands complex, provide a comparable wetland habitat to compensate for the loss.</p>   |
|   |  | <b>B3</b> | The Construction Environmental Management Plan is to indicate 'no go' zones and provide detail of the measures to be implemented to ensure protection of listed flora and fauna.   |
|   | To minimise impacts on Merri Creek and Moonee Ponds Creek                | <b>B4</b> | Design of project structures over Merri Creek and Moonee Ponds Creek to minimise additional shading of waterways and select appropriate species for vegetation planting along the waterway under new road structures.  |
|   | To minimise impacts on native vegetation and fauna habitat in Royal Park | <b>B5</b> | <p>Develop and implement measures to minimise impacts on native vegetation and fauna habitat in Royal Park, including:</p> <ul style="list-style-type: none"> <li>Temporary works and permanent structures to minimise removal of remnant vegetation in areas surrounding Upfield railway line and Trin Warren Tam-boore wetlands; including avoiding any works north of a line running due east – west across the Ross Straw Field Sports Pavilion between the Upfield Rail Line and Oak Street.</li> <li>Temporary and permanent works to minimise removal of scattered remnant trees and non-indigenous hollow bearing trees throughout Royal Park, particularly around Elliott Avenue;</li> <li>Minimising footprint and surface disturbance to foraging habitat for Swift Parrot and Grey-headed Flying-Fox; and</li> <li>Minimising removal of habitat for White's Skink and developing and implementing a White's Skink Management Plan, which includes the retention of at least 50% of the White's Skink habitat and replacement through offsetting; monitoring of the salvage plan; and the provision of light screening and baffling where light impacts this habitat.</li> </ul> |
|   | To manage interactions with aquatic fauna habitat in Moonee              | <b>B6</b> | Design and locate structures to minimise impact on aquatic habitat providing for fish passage in Moonee Ponds Creek and Merri Creek.   |

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|  |  | Ponds Creek and Merri Creek where impacts are unavoidable   |                   |   |
| <b>Contamination</b>   |  |   |                   |   |
| <p><b>Solid wastes – to minimise risks from disturbance and disposal of solid wastes from excavation works, including potentially contaminated materials and acid sulfate soils.</b></p> |  | <p>To protect the beneficial uses of land and minimise risk to human health and ecosystems from exposure to contaminated soil</p> | <p><b>CL1</b></p> | <p>Develop and implement processes and measures to manage contaminated soil, that must include compliance with:</p> <ul style="list-style-type: none"> <li>• The Environment Protection Act 1970;</li> <li>• SEPP (Prevention and Management of Contamination of Land) 2013;</li> <li>• The Environment Protection (Industrial Waste Resource) Regulations 2009;</li> <li>• Industrial Waste Management Policy (Waste Acid Sulfate Soils) 1999;</li> <li>• SEPP (Air Quality Management) 2001;</li> <li>• National Environment Protection (Assessment of Site Contamination) Measure 2013;</li> <li>• Environment Protection (Scheduled Premises and Exemptions) Regulations 2007;</li> <li>• WorkSafe Occupational Health and Safety Regulations 2007 (Asbestos); and</li> <li>• Relevant Industrial Waste Resource Guidelines.</li> </ul> <p>This must include preparation and implementation of a Contamination Management Plan to the satisfaction of the EPA, which includes but is not limited to the following:</p> <ul style="list-style-type: none"> <li>• Undertaking a detailed assessment prior to any excavation of potentially contaminated areas to identify locations, types and extent of any contaminated land and properties within or adjacent to the project boundary, and areas affected by construction activity outside the project boundary, and assessing the potential impact for human health, environmental risk and odour;</li> <li>• Characterising soil prior to disposal or reuse;</li> <li>• Identifying soil containing asbestos fibre and if present, developing management strategies in accordance with the WorkSafe Regulations;</li> <li>• Identifying suitably licensed facilities for the disposal of contaminated soil;</li> <li>• Management of dust and potential stormwater run-off from stockpiled materials;</li> <li>• Assessing potential for accumulation of explosive gasses and vapours during tunnelling from soil and groundwater contamination zones;</li> <li>• Undertaking a baseline comprehensive site assessment of areas proposed for construction laydown prior to use;</li> <li>• Where air pollutants are released as a result of disturbance of contaminated land, air pollutants must</li> </ul> |

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|   |  |  |            | be managed in accordance with requirements of SEPP (AQM); and <ul style="list-style-type: none"> <li>Minimising cut and cover construction techniques in areas containing asbestos contamination.</li> </ul>   |
|   |  |  | <b>CL2</b> | Develop and implement measures for the management of rock saturated in contaminated groundwater during tunnelling works, to the satisfaction of EPA Victoria, which must include: <ul style="list-style-type: none"> <li>A management strategy to comply with SEPP (Prevention and Management of Contamination of Land) and SEPP (Groundwaters of Victoria);</li> <li>Identifying the location, extent and type of contaminant of concern in the groundwater resulting in rock saturation associated with tunnel construction activities; and</li> <li>Determining treatment requirements, including rock drying and run-off management for spoil handling areas, in accordance with best practice procedures and Melbourne Water guidelines.</li> </ul> |
|   |  |  | <b>CL3</b> | Develop and implement measures for the management of waste acid sulfate soil material in accordance EPA Victoria publication IWRG 2009, EPA Publication 655.1 Acid Sulphate Soil and Rock 2009, Victorian Best Practice Guidelines for Assessing and Managing Coastal Acid Sulfate Soil; and<br><br>Undertake an acid sulfate soils risk identification process in accordance with the Victorian Coastal Acid Sulfate Soil Strategy, if soils and rock within project boundary are suspected to be acid sulfate soil/rock.   |
|   |  | To minimise odour from the excavation and transportation of contaminated material to protect local amenity | <b>CL4</b> | Develop and implement measures for odour management during the excavation, stockpiling and transportation, including: <ul style="list-style-type: none"> <li>Identifying the areas of contamination that may pose an odour risk;</li> <li>Periodic monitoring of the aesthetics of the material excavated and proposed for transportation; and</li> <li>Segregation and odour emissions assessment with appropriate monitoring equipment if odorous material is identified.</li> </ul>   |
| <b>Waste generation, handling and disposal</b>  |  |  |            |  |
| <b>Solid wastes – to minimise risks from disturbance and disposal of solid wastes from excavation works, including potentially contaminated materials and acid sulfate soils.</b> |  | To manage all wastes from the construction and operation of the project                                    | <b>W1</b>  | Develop and implement management measures for waste (excluding soils) minimisation during construction and operation, in accordance with the Environment Protection Act 1970 waste management hierarchy and management options, to address: <ul style="list-style-type: none"> <li>Litter management</li> <li>Construction and demolition wastes including, but not limited to, washing residues, slurries and contaminated water;</li> <li>Hazardous wastes;</li> <li>Organic wastes; and</li> <li>Inert solid wastes.</li> </ul>   |



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|   |  |   | <b>W2</b>  | No contaminated spoil should be stored on Ross Straw Field or the former Fitzroy Gasworks site or other locations near to sensitive land uses.   |
| <b>Storage and handling of fuels and chemicals</b>  |  |   |            |  |
| <p><b>Surface water and groundwater – to maintain the functions and values of affected waterways, floodplains and groundwater.</b></p> <p><b>Solid wastes – to minimise risks from disturbance and disposal of solid wastes from excavation works, including potentially contaminated materials and acid sulfate soils.</b></p> |  | To protect the beneficial uses of air, land and water, and human ecological health, from the impacts of hazardous materials and dangerous goods | <b>HM1</b> | <p>Minimise chemical and fuel storage on site and store hazardous materials and dangerous goods. Comply with the Victorian WorkCover Authority and Australian Standard AS1940 Storage Handling of Flammable and Combustible Liquids and EPA Victoria publications 480 Environmental Guidelines for Major Construction Sites and 347 Bunding Guidelines.</p> <p>Develop and implement management measures for dangerous substances, including:</p> <ul style="list-style-type: none"> <li>• Creating and maintaining a dangerous goods register;</li> <li>• Disposing of any hazardous materials, including asbestos, in accordance with Industrial Waste Management Policies, regulations and relevant guidelines;</li> <li>• Implementing requirements for the installation of bunds and precautions to reduce the risk of spills; and</li> <li>• Developing contingency and emergency response plans to handle fuel and chemical spills, including availability of on-site hydrocarbon spill kits</li> </ul> |
| <b>Environmental Management Plans</b>   |  |   |            |  |
|   |  | To ensure the successful preparation and implementation of project environmental management plans.  | <b>EM1</b> | <p>Prepare a Construction Environmental Management Plan (CEMP) prior to construction of the project, to the satisfaction of the Independent Reviewer, the Independent Auditor, the EPA and The Minister for Planning including:</p> <ul style="list-style-type: none"> <li>• Dust management;</li> <li>• Noise management (including operating hours);</li> <li>• Sediment and runoff management;</li> <li>• Contaminated soil management;</li> <li>• Groundwater management;</li> <li>• Waste management and materials recovery;</li> <li>• Environmental monitoring (dust, fumes, noise, stormwater, groundwater, waste etc); and</li> <li>• Communications (including notifications, complaint response, and reporting).</li> </ul>   |

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|  |  |  | <p><b>EM2</b></p> <p>Prepare an Operational Environmental Management Plan (OEMP) prior to commencement of operation of the project, to the satisfaction of the Independent Reviewer, the EPA and the Minister for Planning including:</p> <ul style="list-style-type: none"> <li>• Stormwater Management;</li> <li>• Tunnel Ventilation Operations;</li> <li>• Environmental Monitoring;</li> <li>• Remedial Action Plan; and</li> <li>• Communications.</li> </ul> |
|  |  |  | <p><b>EM3</b></p> <p>Appoint an Independent Reviewer and an Independent Auditor to ensure compliance with the Environmental Management Framework and ensure relevant audit reports are made publicly available.</p>   |



## **Appendix F: Revised Urban Design Principles**



## East West Link - Urban Design Principles

### **1. Design and integration**

**1.1** Provide a high quality, well-resolved design outcome; and a memorable, innovative urban design response which is enduring in expression and timeless in nature, for road users, surrounding land users and for Melbourne as a whole.

*1.1.1 The design is to make a positive contribution to locally affected environments, and to greater Melbourne's cultural identity and reputation for design innovation, liveability and excellence.*

*1.1.2 The whole of the Project is to be well conceived, carefully resolved and finely executed in detail as a design which is innovative, responsive, engaging, environmentally sustainable, functional, and adaptable for future infrastructure needs.*

*1.1.3 All structural, functional and service elements are to be resolved and integrated in a context sensitive manner as part of the urban design solution.*

*1.1.4 Spaces associated with or created by the project are to be optimised through careful siting of structural elements to facilitate spatial useability and access where appropriate.*

*1.1.5 The design is to ensure particular attention to successful integration and responsiveness to the existing landscape(s), and urban environments, cultural heritage, land use, the character and integrity of key precincts along the alignment, and the overall coherence and identity.*

*1.1.6 Design of new structures at the Melbourne CityLink Gateway are to enhance the urban design of the precinct and contribute to a redefined and heightened gateway and multi-modal interchange experience.*

*1.1.7 Incorporate sustainable design approaches into the Project as a whole, and to its elements. Consider materials for the design that minimise embodied energy use, and consider whole-of-life energy and water costs for the Project.*

*1.1.8 Protect and enhance public viewlines and vistas where appropriate.*

**1.2** Provide a high quality outcome for residents and adjacent private and public land users and land owners with respect to protection of views and privacy, noise amelioration, avoiding overshadowing, and maintaining access and security through design.

**1.2.1** A distinctive character and sense of journey for both the freeway and other integrated transport modes is to be created through a holistic landscape, architectural and urban design response to the whole project including the project organisation development of a palette of forms, treatments and materials for all elements:

- 1.2.2 *Roads, waterways, parklands and necessary bridges and elevated structures (vehicular, pedestrian, cycling, and public transport).*
- 1.2.3 *Tunnels, tunnel portals and ventilation structures.*
- 1.2.4 *Noise barriers, retaining walls, fencing and safety barriers.*
- 1.2.5 *Pedestrian and cycle paths, including all crossings.*
- 1.2.6 *Earth forming, planting and open space elements.*
- 1.2.7 *Associated urban design elements including signage, lighting and any furniture.*
- 1.3** The form, finishes and siting principles for all road and street furniture, lighting, signage housings and other miscellaneous items are to be established at the concept stage of the design. These should be rationalised to minimise visual clutter, and designed as integral to the urban design concept.
- 1.4** The siting and design of walls and other elements and the choice of materials, colours and surface finishes is to avoid them becoming a target for graffiti. A graffiti management strategy is to be prepared and implemented for the road and the open space network for the life of the Project.
- 1.5** Any works within the Moonee Ponds Creek corridor is to enhance the creek environment for open space, amenity and habitat values, contribute to integration of water catchment management, and to be in accordance with Melbourne Water requirements for flood protection. These works are to be determined in conjunction with the Cities of Melbourne and Moonee Valley.
- 1.6** The architectural, landscape and urban design works are to be designed to ensure an environment which is accessible, inclusive, supports safe behaviour, and is perceived as being safe.
- 2. Bridges and elevated road structures**
  - 2.1** Bridges or elevated road structures are to contribute to an experience of gateway or provide landmark thresholds where they are appropriately located to serve this purpose. They are to be respectful of context and well-resolved in response to existing landmark urban elements, and they include:
    - 2.1.1 *Melbourne Gateway at CityLink – including existing sculptural, landscaping and sound attenuation elements.*
    - 2.1.2 *Eastern Gateway at Eastern Freeway – including proximate heritage elements such as the Shot Tower.*
    - 2.1.3 *Western Gateway at Footscray Road / Docklands Highway.*
    - 2.1.4 *Secondary thresholds and interchanges including the tunnel portals.*
  - 2.2** Minimise the extent and impact of elevated road structures.
  - 2.3** All elements of elevated structures, including associated services and lighting are to be designed to minimise their visual and spatial impact, while achieving high levels of visual, acoustic and spatial amenity and character of the streets and open spaces

they intersect, and to the identity of the project as a whole.

- 2.4** All bridges and elevated road structures are to be integrated design solutions in terms of their form, elements, proportions and details, having regard to their location and urban context. Structural solutions must integrate visual and spatial architectural and urban design considerations to ensure visually elegant and contextually-appropriate structural outcomes.
- 2.5** The design of areas under elevated structures is to be carefully designed and fully resolved to maximise their usefulness and amenity, particularly for public open space and access to natural light. Ensure uses or activities to be located under or near elevated structures are suitable for such locations having regard to environmental considerations. Carefully site or align piers or support structures to optimise the useability and positive urban qualities of undercroft spaces.
- 2.6** there is no additional overlooking of private open space and habitable room The designs of new road structures in Royal Park or other public open space locations are to ensure that the landscape character of the place is dominant and that visual and physical severance is minimised. The form, scaling, expression, materials, connections, details and finishes of structures must be developed as innovative, sensitive and responsive elements that contribute to the character, identity and positive experience of the parkland, and prepared in conjunction with the managers of that open space.
- 2.7** Ensure windows of residents potentially affected by the Project.
- 2.8** Any new road structures connecting with the Arden-Macaulay urban renewal area are to be integrated with the local movement system and be consistent with the Structure Plan and to the satisfaction of the City of Melbourne.

### **3. Tunnels**

- 3.1** The design and visual presence of tunnel portals and structures are to be sensitive to their urban context while making a positive contribution to the road's identity as a whole and to the local environments, through high quality form, expression, scaling, detail and materials.
- 3.2** Tunnel interiors, lighting and surface finishes are to contribute to the urban design quality and memorable experience for users of the East West Link. Tunnel interiors should optimise road safety, driver experience and be easy to maintain and designed to avoid surface staining.

### **4. Ventilation structures**

- 4.1** Ventilation structures are to be designed to be sensitive responses to their urban context and deliver high quality architecture including form, expression, finishes and detailing.
- 4.2** Ventilation structures are to be sensitively sited with due consideration given to the environment and amenity impacts within their immediate and surrounding urban context.



**4.3** Ventilation structures are to be designed to make a positive contribution through their form, scaling and detail, as innovative responses to the local environment and to the road's identity as a whole.

## **5. Noise attenuation**

**5.1** Noise barriers and noise mounds are to be designed as compatible elements with the structures, landform and urban interfaces of their location and urban design concept for Project as a whole.

**5.2** Overshadowing of residential properties and open space, waterways and valuable habitat by noise barriers or other noise attenuation structures is to be minimised.

**5.3** Transparent panels are to be considered in locations near to residential property where noise walls substantially interfere with the aspect or view, or access to daylight.

**5.4** Design noise barriers to positively address both the road side and community side of barriers.

**5.5** Design to minimise potential for vandalism to noise attenuation treatments, through materials selection, detail and positioning.

## **6. Pedestrian and bicycle connections**

**6.1** New pedestrian and bicycle paths are to maintain and extend current local connectivity, including linking to relocated and new community facilities, open spaces and urban renewal areas.

**6.2** Maximise opportunities to create and enhance pedestrian and bike paths that provide for local connections and linkages to co-ordinate with the wider Principal Bicycle Network.

**6.3** Extend and enhance existing at grade pedestrian and bike connections, including along and across Hoddle Street, Alexandra Parade and Moonee Ponds Creek, and identify locations where new connections would be advantageous.

**6.4** Maximise opportunities to enhance connectivity of the Yarra Bend Trail, Capital City Trail and Moonee Ponds Creek Trail with other existing trails to improve and extent the network.

**6.5** Improve way finding convenience and legibility of access between and along streets and to key destinations where new road infrastructure will impact on existing connections and at new connections.

## **7. Public realm, parkland and recreation**

**7.1** Design is to ensure no permanent loss of public open space, and increase open space of various types and functions to ensure a net increase and community benefit.

**7.2** Design is to minimise the removal of mature trees and remnant vegetation and protect parkland character. At Royal Park, this includes minimising design ornamentation at the Elliott Avenue interchange to respect and respond to the

surrounding landscape character. It also includes, where practicable, screening of excavated works and structural elements by subtle 'layering' of vegetation, with replanting programmes to conform to the 1984 Royal Park Master Plan. All such works to be designed in collaboration with the City of Melbourne.

- 7.3** Maximise opportunities to create or enhance open space, community and recreation facilities, and to improve accessibility, inclusiveness and general amenity for the community, including:

*7.3.1 Merri Creek open space link in the vicinity of the new road structures.*

*7.3.2 The connection from Yarra Bend Park to Alexandra Parade by the proposed relocation of Groom Street/Trenerry Crescent Overpass.*

*7.3.3 Reinstatement and enhancement of the landscape character of Royal Park and Moonee Ponds Creek Linear Park*

*7.3.4 Playing fields, recreation spaces, wetlands and associated areas of Ross Straw Field and Moonee Ponds Creek Linear Park facilities.*

*7.3.5 The recreation facilities, community centre, community gardens and associated areas of Debney's Park.*

*7.3.6 The edges of Ormond Park, Holbrook Reserve and Moonee Valley Racecourse.*

*7.3.7 Moonee Ponds Creek as an urban parkland, waterway and walking/cycling and habitat corridor between Royal Park and Docklands, through the Arden-Macaulay and E-Gate urban renewal precincts and north between Racecourse Road and Ormond Road within the East West Link alignment.*

## **8. Planting and vegetation**

- 8.1** The design is to ensure a net enhancement of the landscape amenity and biodiversity of areas along the corridor and nearby parklands affected by the Project.

- 8.2** Design is to achieve a substantial net increase in tree canopy and contribution to the urban landscape across the corridor. Plant selection, design and layout are to:

*8.2.1 Present a coordinated colour, form and texture palette which is integral to the urban design concept.*

*8.2.2 Be well-implemented with appropriately selected species that ensures a low maintenance, thriving and enduring outcome. Avenue trees removed to accommodate new road alignments including along Flemington Road, replacement trees shall, where practicable, be of the same taxon and on an alignment and at a spacing as close as possible to the trees removed.*

*8.2.3 Maximise performance, long term viability and contribution to the landscape character, amenity and design concept as a whole by considering local conditions and existing character, microclimates and uses.*

*8.2.4 Maximise use of indigenous and native species, where viable in the context of microclimate and character.*

*8.2.5 Where planting is proposed, employ a process for maintenance to ensure net*

*increase in tree canopy is met.*

### **Materials and finishes**

**9.1** The detailed design of buildings and road structures is to integrate:

*9.1.1 Materials and details that will allow reasonable ease in repair, replacement or recoating and maintains design character, expression and features to age gracefully.*

*9.1.2 Colour and texture which is integral to any materials, not the result of applied finishes, or, if applied, is demonstrably highly durable and able to be repaired with ease, and appropriate to maintaining the longevity of urban design concept.*

*9.1.3 Provide accessibility and functionality for ease of maintenance.*

### **10. Lighting**

**10.1** Lighting and lighting structures, poles and masts are to be designed as an integral element of the urban design concept for the whole Project to ensure functionality and efficiency are achieved.

**10.2** Consider special lighting for major infrastructure, interchanges, gateways, movement corridors and 'moments', to contribute to way-finding and legibility, and the creation of memorable experiences for all users.

**10.3** Design is to provide lighting for pedestrians and cyclists to the parkland, places and paths created around and under the new road infrastructure, where appropriate.

**10.4** Design is to use highly directional lighting wherever possible to avoid lighting spill into surrounding neighbourhoods, parks and urban environments.

**10.5** Use energy efficient, vandal proof light fixtures that offer ease of access for maintenance.

### **11. Water Sensitive Road Design**

**11.1** Integrate Water Sensitive Road Design into urban design solutions to achieve sustainable water and resource management.

**11.2** Employ best practice treatment of water run-off through swales and biofiltrations systems as appropriate.

**11.3** Include water harvesting for roadside landscape and open space irrigation, wherever possible.

**11.4** Consider measures to mitigate the urban heat island effect through effective urban design.

**11.5** Maximise permeability opportunities within road and associated hard landscape areas.

## **12. Integrated public artworks**

- 12.1** Undertake a programme to incorporate public artworks at suitable locations across the Project that are responsive to the character of the urban setting, and which, where appropriate, are integrated into the wider design as functional elements of the overall design philosophy.
- 12.2** Institute a public art programme to ensure that the public artworks are considered at an early stage of the design process with adequate funding. Opportunities for artistic expression should be an integrated element of the overall design and the Project's infrastructure. The sequencing of 'landmark' artworks should be carefully considered to relate to 'choice points' where the freeway is exited.
- 12.3** Consider the incorporation of a series of smaller public artworks associated with the shared user paths and other movement routes.
- 12.4** Where public artworks are proposed, employ a process for selection, commissioning, implementation and maintenance that ensures the works are of a high quality, appropriate to location, and will endure.
- 12.5** Involve the local communities to contribute to the design and selection of appropriate local art through one or more 'artists in residence' or similar programs.



## **Appendix G: Report of Dr Sandy Bennet**



# Planning Panels Victoria

## EAST WEST LINK

### COMPREHENSIVE IMPACT STATEMENT (CIS) ASSESSMENT COMMITTEE

*Report by*

*Flagstaff Consulting  
Group Pty Ltd*

### Consolidated Advice on Review of Expert Reports and Critical Tunnelling Issues

May 2014

Privileged and Confidential

FLAGSTAFF CONSULTING GROUP PTY LTD

ABN 37 068 791 202

Level 9, 140 Bourke Street

Melbourne, Victoria 3000

Telephone +61 3 9663 6661

Facsimile +61 3 9663 6330

Email [info@flagstaff.com.au](mailto:info@flagstaff.com.au)

Date: 12 May 2014



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# 1. Introduction

Following instruction on 26 February 2014 by Ms Kathryn Mitchell, Chair, East West Link Assessment Committee (AC) of Planning Panels Victoria (PPV), Dr Sandy Bennet of Flagstaff Consulting Group (FCG) undertook a review of particular Expert Reports prepared in response to the Directions of the EWL AC issued on 20 January 2014. Dr Bennet was engaged to assist the AC in matters relating to Tunnelling, Hydrogeology and Geomechanics and has reviewed the CIS documentation and the Section 57(4) responses by Linking Melbourne Authority (LMA) relating to those technical disciplines.

A number of critical tunnel issues for East West Link planning are described in Section 3 of this advice, but it should be recognised that other tunnelling issues have to be addressed later in the design and construction phases of the project when a specific alignment and construction methodology has been adopted.

The Preliminary Consolidated Advice of March 2014 has been amended in light of further information available to the AC during the Public Hearing. Specific matters reviewed in this advice are the responses by three Expert Witnesses to the FCG Preliminary Consolidated Advice, heard on 12 March 2014 at the Public Hearing (Tabled Documents 84, 86 and 90), the LMA Response to the DDO Query by FCG (Tabled Document 439) and the East West Link (Eastern Section) Performance Requirements LMA Final Version (Tabled Document 525).

The instructing letter is attached in [Appendix A](#).

Accordingly those reports submitted to the AC on 20 February 2014, prior to the commencement of the Public Hearings scheduled from 3 March 2014, reviewed were:

- |                           |                                 |                                   |
|---------------------------|---------------------------------|-----------------------------------|
| • Mr T Anderson           | Hydrogeology                    | GHD for LMA                       |
| • Dr J Heilig             | Vibration and Regenerated Noise | Heilig & Partners for LMA         |
| • Assoc. Professor J Webb | Hydrogeology                    | La Trobe Univ. for City of Yarra. |

Other Expert Reports pertaining to road design by Messrs Brock and Higgs as listed in the initial letter of instruction are not covered in this review, as they did not canvas any issues relating to tunnelling, hydrogeology or geomechanics and subsequent advice from PPV confirmed this action. In the Public Hearing on 12 March 2014, Dr Nadebaum made comment on the FCG Preliminary Consolidated Advice, thus a response is given in Section 2.4.

The review of critical risk areas for tunnelling evolved from consideration of the CIS documentation in relation to the technical disciplines where the AC was seeking assistance and identification of the factors which could have adverse impact for the project.

## 1.1 Expert Advisor Details and Statement

### 1.1.1 Expert Advisor Details

Expert advisor details have been included as [Appendix B](#).

### 1.1.2 Report

I do not believe the advice is incomplete or inaccurate in any respect.

### 1.1.3 Declaration

I have made all enquiries that I believe are desirable and appropriate and that no matters of significance (save those covered by legal professional privilege) which I regard as relevant have to my knowledge been withheld from the Assessment Committee in this review.

## 1.2 Abbreviations

The following abbreviations have been used throughout this consolidated advice:

|       |   |
|-------|---|
| AC    | Assessment Committee                                    |
| AECOM | AECOM Australia Pty Ltd                                 |
| CIS   | Comprehensive Impact Statement                          |
| DDO   | Design & Development Overlay                            |
| EPA   | Environment Protection Authority Victoria               |
| EWL   | East West Link  |
| EPB   | Earth Pressure Balance                                  |
| EPDM  | Ethylene Propylene Diene Monomer - Synthetic Rubber     |
| EWS   | Expert Witness Statement                                |
| FCG   | Flagstaff Consulting Group Pty Ltd                      |
| LMA   | Linking Melbourne Authority                             |
| MTPFA | Major Transport Projects Facilitation Act               |
| NYM   | North Yarra Main  |
| PPV   | Planning Panels Victoria RFI<br>Request for Information |
| SKM   | Sinclair Knight Merz TBM<br>Tunnel Boring Machine       |

## 2. Expert Witness Statements

### 2.1 Mr T Anderson

#### 2.1.1 Expert Witness Statement

The EWS by Mr Anderson is to be taken in combination with the task performed in collating, analysis and interpretation of existing groundwater information in preparation of the Technical Report (Appendix M of the CIS).

Further work by Mr Anderson comprised review of:

1. SKM, 2013: *East-West Link Stage 1 Preliminary Hydrogeological Investigation. Final Interpretive Report*. October 2013.
2. GHD, 2013: *East West Link. Preliminary Assessment of Potential Inflows and Drawdowns - Drained Tunnel and Portals*. Report prepared for Linking Melbourne Authority.
3. Hutchinson, B.J., and Lamb, I.A., 1999: *Construction Management of the Hydrogeological Aspects of the Melbourne City Link Project*. Tenth Australian Tunnelling Conference, Melbourne 1999.

The SKM report (Final Interpretive Report) cited by Mr Anderson apparently post-dates the issue of the CIS Appendix M and has not been available to the AC, but the SKM assumption of a fully drained tunnel would give an overestimate of potential inflows as Mr Anderson states on p. 1 of his EWS. The assessment of impacts to Royal Park vegetation will require further attention when tunnel design and construction methods are finalised in Mr Anderson's view and this step is appropriate. This is a consequence of the method of project delivery requiring the constructor to resolve such matters.

The GHD report noted above was to inform the project specification regarding potential inflows associated with drained tunnels and excavations, particularly west of Royal Parade and the eastern portal area (Hoddle Street). This report considered by Mr Anderson has not been sighted by the AC, but Mr Anderson states further assessment of impacts on Royal Park vegetation was recommended. This matter is commented upon below.

The paper by Hutchinson and Lamb reflects knowledge gained during design and construction of the CityLink tunnels to the time of the publication in 1999. Whilst Mr Anderson claims a number of groundwater related issues on the CityLink project reinforce the appropriateness of the Performance Requirements for East West Link, care should be exercised in the comparison. Of the notable information listed under eight dot points by Mr Anderson on p. 3 of the EWS, some are generalisations of information in the paper referenced and the penultimate paragraph acknowledges that some significant geological and hydrogeological differences exist between the two alignments. The absence of Moray Street Gravels and Coode Island Silt over the majority of the length of the East West Link is positive factor, but the presence of palaeovalleys is a matter that needs better understanding. Whilst the indicated construction methods differ from those adopted on CityLink, the possibility of intersection with aquifer systems has to be addressed further.

Mr Anderson also provided a response to the Submissions allocated for his review and stated that generally the issues raised had been addressed in the Technical Report and did not affect the findings and opinions expressed in the Technical Report. A more comprehensive response to some issues has been given in the Appendix C of the EWS.

As a consequence of his review, the Performance Requirements GW3 and GW4 have been augmented to address:

- *potential for interaction with waterways and potential groundwater dependent ecosystems (in GW3)*
- *protection of waterways and potential groundwater dependent ecosystems (in GW4).*

Both additions improve an aspect of these Performance Requirements relating to groundwater, but they both would be further improved by re-drafting to clearly follow the design, construction and operational phases of the project in a logical sequence.

Other than the augmentation of GW3 and GW4 recommended by Mr Anderson, further commentary has been provided on the potential effects of damming aquifers by tunnel construction. Referring to p. 21 of the EWS, Mr Anderson acknowledges that the potential for damming to occur *and* (italics by Anderson) to result in adverse impacts is unknown, but is considered by him to be low. Mr Anderson maintains this view on the basis of six lines of evidence listed on p. 21-22, but the evidence needs elaboration:

- What is the evidence to support the statement that even a lined tunnel has some albeit small leakage e.g.  $< 0.1 \text{ L/m}^2$  through the tunnel surface?
- How many pumping tests have been completed in areas of the identified palaeovalleys?
- What is the level of confidence that migration around the tunnel structures or pressures to be re-distributed up-gradient within the palaeovalleys will occur, without more rigorous modelling and calibration?

The geological longitudinal section indicates near complete or complete obstruction of the palaeovalleys at a number of sections between Smith Street and Rathdowne Street.

However, Mr Anderson finally adopts the view that the damming potential should be investigated through numerical modelling when a tunnel design is in preparation, but this approach may suffer from insufficient time to calibrate such a model and have sufficient field data to validate its reliability before project commitment.

Mr Anderson also discusses the potential for subsidence, particularly the effect of dewatering of the palaeochannel sediments. Unless the sediment properties have been properly assessed by testing, and no evidence has been provided to the AC apart from SPT blow counts on the borehole logs indicated on the geological longitudinal section, more investigation and analysis will be required to provide reasonable assurance that the various causes of subsidence noted by Mr Anderson are ameliorated by the measures indicated. A closed face TBM as indicated should handle such conditions, but the suggestion of remedial grouting through segments would only be considered as a last resort. TBM performance requirements and design strategies are the more appropriate responses.

On p. 24-25 Mr Anderson comments on concerns expressed in seventeen (17) Submissions regarding damage to dwellings, other buildings and public assets resulting from ground movement and interference with the water table. The response advanced that Melbourne Formation siltstone and Newer Volcanic basalts are not compressible materials is appropriate, but under-drainage of these materials where a high water-table exists can cause changes in moisture content of overlying clay soils and if they are reactive, a different outcome results. The "learning" from CityLink noted by Mr Anderson concerns inter-aquifer connection, and whilst in a different hydrogeological regime and the outcome of intersection with a water-charged palaeovalley may be less dramatic for East West Link, the present state of knowledge as presented in the CIS is sparse.

Over most of the alignment, water levels are greater than 5 m below the surface. However, where water tables in the Newer Volcanic basalt aquifer are sufficiently high enough contribute to capillary rise in the overlying soils, changes in groundwater levels could influence soil moisture, and thus behaviour of reactive soils.

Changes in groundwater levels where watertables in the Newer Volcanics are high, as noted in the response by Mr Anderson on p. 25 in paragraph 4 (shown above), indicates possible soil moisture influence and hence behaviour of reactive soils. The GHD (2013) report cited (and not available to the AC) suggests preliminary estimates of settlement were low. However, if a large open cut excavation is utilised to form the approach to the tunnel portals, desiccation of the near-surface clays overlying the Newer Volcanics basalt in proximity to the eastern portal may result in settlement. The potential for difficulty in apportioning responsibility for cause of damage in older structures liable to seasonal effects with the influence of nearby construction also needs to be considered.

The response by Mr Anderson in relation to the example of groundwater management on CityLink (p. 26) is generally correct, but the statement that the high groundwater inflows in turn resulted in failure of the concrete invert slabs is incorrect. The initial invert slab failure followed the rise in groundwater level following completion of the tunnel secondary lining causing pressure increase. After anchoring of the concrete floor-slabs, following a number of failures induced by pressure testing of the slabs by the contractor and subsequent grouting of the surrounding rock mass, recovery of the groundwater system was initially achieved by use of recycled groundwater, from the tunnel drainage system, in recharge wells. Following clogging by precipitation of salts from the introduced groundwater in the recharge wells, potable water was utilised until restrictions introduced by Melbourne Water during the prolonged drought, and cost and other influence necessitated the use of recycled treated groundwater.

Knowledge of the palaeovalleys immediately north of the project alignment might be usefully gleaned from Melbourne Water's construction records for construction of relieving sewers in the Merri Creek and Darebin Creek sewer catchments. Both creek valleys overlie palaeovalleys buried by Newer Volcanics basalt and it is understood water inundation and accidents occurred on several of these minor tunnelling projects in relation to water bearing palaeochannels.

### 2.1.2 Response to FCG Preliminary Advice

The Tabled Document 90 prepared by Mr Anderson principally addressed hydrogeological issues raised by FCG.

Mr Anderson provided a long explanation in general terms relating to the suggested re-drafting of the GW3 and GW4 Performance Requirements by FCG. The key point intended by FCG was to avoid overlap between the construction and operational phases. The Performance Requirements GW3 and GW4 still do not appear to be concise and could be improved by re-drafting to address the construction and concession phases separately.

In relation to damming effects, Mr Anderson provided a long response to three issues raised by FCG. The evidence provided by Mr Anderson to support the statement that even a lined tunnel has some, albeit small leakage e.g.  $< 0.1 \text{ L/m}^2$  through the tunnel surface relies on the SKM Interpretative Hydrogeological Report (2013) and the classification system devised by Alfred Haack of STUVA in Germany. The Haack Classification is a guideline only and was developed many years ago, before the widespread introduction of membrane systems and modern sealing systems for segmental lined tunnels.



Mr Anderson responded to the FCG question regarding the number of pumping tests performed in relation to the understanding of flow in the palaeovalleys by stating only one test had been the basis of the opinions expressed in the CIS. Access issues during the investigation phase were cited as a reason for lack of further information and additional investigation bores have been completed subsequent to issue of the CIS, and additional pumping tests have been requested by the bidding parties. Mr Anderson also cited the absence of investigation bores off the Reference Project alignment and that the recent drilling has targeted some of the issues relating to improving the understanding of the geological model. This information has not been provided to the AC so no opinion can be offered.

Mr Anderson provided a long explanation regarding the level of confidence that migration around the tunnel structures or pressures to be re-distributed up-gradient within the palaeovalleys will occur. On the basis of the information provided in the CIS, and without access to the information garnered by the more recent investigations, there is still a risk that without more rigorous modelling, analysis and calibration to understand the groundwater flow in the palaeovalleys and their path relative to the tunnel profile, the potential issue of damming may arise.

In relation to the contention by FCG that the present state of learning concerning the inter-aquifer connection is sparse, Mr Anderson concedes FCG is correct and further pumping tests are being undertaken. The AC has not been updated with this further work.

The commentary by Mr Anderson on the FCG opinion that a closed face TBM, as indicated by the CIS documentation should handle such conditions, and TBM performance requirements and design strategies are the appropriate responses, does not address the issue. The suggestion of remedial grouting through segments is stated in the CIS and FCG firmly believes this would only be considered as a last resort. The Performance Requirements should have taken geotechnical and tunnelling advice into account in their preparation and not be reliant on control measures developed later.

In relation to desiccation of near-surface clays overlying the Newer Volcanics at the Eastern Portal, Mr Anderson asserts that changes to the groundwater table are unlikely to affect moisture content in the unsaturated zone above. However, the fact remains that the near-surface clays will be subject to drying if left exposed in the open cut ramp and portal areas for substantial periods of the duration of construction and could affect nearby property.

Mr Anderson acknowledged that his knowledge of the CityLink tunnels is confined to a selection of technical papers and relies on minimization of changes to groundwater levels during construction and operation by the design process for East West Link tunnels.

Mr Anderson refers to the EWS by Assoc.Professor Webb and the potential for damming to result in increased groundwater levels in the basalt, with resultant increased ingress to the NYM. Although Mr Anderson suggests this was an outcome of the Expert Conclave, and amendment to the performance Requirement GW3, the LMA Final Version (p. 18 of 23 dated 15 April 2014) does not specifically note potential for increased ingress of groundwater to the NYM. Mr Anderson recognizes the possibility that relining or realignment may result in less ingress into the NYM and tunnel designers will need to consider this potential effect on lining design for East West Link tunnels, resulting from a rise in the groundwater level in this vicinity.

The pressure and volume of groundwater to be managed should not be taken to be mitigated by the possible adoption of a modern TBM with earth pressure balance or slurry technology capability. This statement by FCG in the Preliminary Consolidated Advice of March 2014 has not been specifically addressed by Mr Anderson and still stands. Failure of large TBM's is a matter of great impact on a project and the wider community and the risk can be minimized by better understanding of the geotechnical and hydrogeological conditions. The current delay in the Alaskan Way Project in Seattle should be a strong reminder

that every reasonable step should be taken in understanding of ground conditions, before invoking groundwater monitoring and numerical modelling as mitigation measures.

Mr Anderson provided commentary on the FCG proposition that the NYM may be both acting as a drain to draw down groundwater and a source of leakage of sewage. He states VicRoads has implemented a groundwater level monitoring programme but he is not aware whether a groundwater quality monitoring programme has been implemented. Mr Anderson believes the Performance Requirement GW4 addresses the issue with a requirement to comply with EPA Publication 669 (2000).

The response to the FCG opinion (Preliminary Consolidated Advice of March 2014) that in order to make a properly considered response to the potential of damming, it is essential to develop the groundwater model, by very experienced hydrogeological specialists, to test its sensitivity and reliability prior to project commitment, Mr Anderson contends that it is likely bidders have already begun developing numerical models to inform their selection methods. No confirmation of this action is available to the AC.

Mr Anderson does not address the potential issues regarding aggressive groundwater on lining systems and drainage systems and indicates the Performance Requirement GW2 is proposed for the contractor to account for this. FCG is strongly of the opinion that suggesting enlargement of the drainage infrastructure is not an adequate design approach, given the typical groundwater chemistry and its propensity for precipitation of calcium salts.

The commentary by Mr Anderson concerning the FCG comments on the Langelier Index is incorrect. The Langelier Index is temperature dependent and this should not be misinterpreted as control of groundwater temperature, which would be near impossible. The further discussion on microbiological clogging misses a key issue of tunnelling in Melbourne Formation, where the groundwater chemistry is dominant in determining the likely corrosion or clogging response, depending on the weathering state of the rock mass.

In relation to comments by FCG on groundwater sampling, Mr Anderson refers to the SKM (2013) report. It is noted by Mr Anderson that the groundwater sampling programme needs to be consistent and defensible and that the EPA Publication 669 (2000) should be followed.

## 2.2 Associate Professor J Webb

The EWS by Assoc. Professor Webb was prepared on the instruction of Harwood Andrews acting for the City of Yarra.

Specifically Assoc. Professor Webb was instructed by Harwood Andrews as follows:

- a. *Whether the assessment methodologies adopted by GHD for the Groundwater Impact Assessment (GIA) and Contaminated Land Assessment (CLA) and described in Section 5 of each report provide an appropriate framework for the assessment of potential groundwater impacts and contaminated land risks associated with the Project?*
- b. *Whether you consider the investigations undertaken by GHD and described in section 4.2 of each report were appropriate and adequate?*
- c. *Whether you agree with the impact ratings assigned by the GIA, and summarised in Table 14, to groundwater impacts from the Project, in particular in relation to impacts in Precincts 1 - 3?*
- d. *Whether you agree with the impact ratings assigned by the CLA, and summarised in Table 8, to contaminated land risks from the Project, in particular in relation to impacts in*

*Precincts 1 - 3?*

- e. Whether you consider the impacts and risks associated with the Project are consistent with the applicable legislative and policy frameworks?*
- f. Whether you consider the Performance Requirements and mitigation activities identified in the GIA and CLA provide an adequate framework to ensure that impacts and risks associated with the project are acceptable?*
- g. The Comprehensive Impact Statement and the submissions provided by the various Councils affected by the project identify a number of alternative design options for the Project. In your opinion, would any of these alternative design options provide a better outcome, from a groundwater impact /contaminated land perspective, than the Reference Project design?*

Assoc. Professor Webb had no issues with the framework for the assessment of potential groundwater impacts and contaminated land risks associated with the Reference Project, although he did not specifically define it as such, rather calling it the Project as noted in the Harwood Andrews instructions.

He considered the investigations undertaken by GHD are generally adequate, but noted minor differences in the geological maps (Appendix M Fig. 2, SKM 2013 and the Geological Survey of Victoria Bulletin 59). The differences are minor and arise because Bulletin 59 (in Imperial units and published in 1959) predates the extract of the plan used in Appendix M (in SI units and published in 1974), whilst the SKM version appears to be a redrafted compilation.

The commentary on the risk ratings summarized in Table 14 of Technical Appendix M indicates Assoc. Professor Webb does not agree with the GW003, GW004 and GW010 assessments. In relation to these assessments, Assoc. Professor Webb does not elaborate on his reasons for amending the likelihood, except to note GW003 may depend on results of modelling.

Whilst not within the matters of tunnelling, hydrogeology and geomechanics, the view of Assoc. Professor Webb relating to the Contaminated Land Assessment under C005 has relevance to acid sulphate rocks liable to be excavated from tunnel sections exhibiting slightly weathered or fresh Melbourne siltstone or sandstone. Whether the EPA identification procedures and management strategies will apply for East West Link will have to be resolved with EPA.

Assoc. Professor Webb comments on the Performance Requirements GW3 and GW4 on p. 9 of the EWS. He particularly comments on the damming effects potentially created by the tunnels and possible elevation of groundwater levels in the basalt overlying the palaeochannel sediments that will be dammed and the need to assess any impacts of the higher watertable such as increased groundwater inflow to the NYM. Assoc. Professor Webb's suggested rewording of the Performance Requirement GW3 has merit and should be considered by LMA and its advisors.

Assoc. Professor Webb also considers augmenting the wording of Performance Requirement GW4 to include both unconsolidated sediments and lithified sediments as indicated in his italicized text (p. 5) under Instruction 6. This addition should also be seriously considered by LMA and its advisors.

Notwithstanding the previous two paragraphs, the earlier comment regarding the clarification of logic noted in the commentary on the EWS by Mr. Anderson regarding GW3 and GW4 still applies.

Assoc. Professor Webb has singled out the three broad risks identified in the Groundwater Impact Assessment:

- Damming effect caused by the tunnels
- Presence of contaminated groundwater
- Subsidence caused by changes to groundwater levels.

Assoc. Professor Webb has noted the east-west alignment of the tunnels crosses the trend of the palaeovalleys and will completely block groundwater flow within the sandy sub-basaltic sediments within one of the palaeovalleys. The pumping test by SKM (2013) on these sediments obtained a surprisingly low permeability value and Assoc. Professor Webb believes there will nevertheless be a significant impact on groundwater flow when the palaeovalley is completely dammed by the tunnels. A comprehensive groundwater modelling exercise is required to understand the implications.

The high risk rating assigned in Chapter 14 of the CIS for this issue is correct in Assoc. Professor Webb's view and by the author of this Consolidated Review.

Assoc. Professor Webb also notes the depression in the groundwater attributed to leakage into the NYM along Alexandra Parade. Any damming will most likely increase drainage into the NYM sewer. The prospect of mitigation by up-gradient pressure relief wells indicated by Assoc. Professor needs careful consideration because of the need for their longevity without undue recurrent cost.

Assoc. Professor Webb correctly notes the impact of the contaminated groundwater associated with the former Fitzroy Gasworks as identified by GHD. He also notes the legacy problems associated with gasworks can be substantial.

In relation subsidence caused by changes to groundwater levels, Assoc. Professor Webb has highlighted that the sub-basaltic sediments may have an impact if dewatered. Despite the expectation of LMA that the (overlying) basalt rock will act as a raft and mitigate against ground movements, Assoc. Professor Webb believes modelling is needed to confirm this will be the case. The final comment by Assoc. Professor Webb in relation to this issue that LMA have drawn on CityLink experience for Coode Island Silt has little bearing for most of the East West Link (Eastern Section) as no Coode Island Silt has been identified, although it will impact the Port Link and the interchange with CityLink near the Moonee Ponds Creek.

Assoc. Professor Webb was not called upon to present to the Assessment Committee and did not make comment upon the FCG March 2014 Preliminary Consolidated Advice.

## 2.3 Dr J Heilig

### 2.3.1 Expert Witness Statement

The EWS by Dr Heilig is to be taken in combination with the task performed in preparation of the Technical Report (Appendix K of the CIS). Dr Heilig was tasked to identify appropriate performance criteria and undertake an assessment of the expected effects in terms of vibration and regenerated noise in con-

structing the reference project using methods that would be consistent with commonly employed practices.

Subsequent to completion of the Technical Report, Dr Heilig has undertaken further preliminary work in relation to the possible effect of the vibration induced by tunnel construction on the well-being of animals within the Melbourne Zoo. He has not located any articles of definite relevance in a literature search apart from material concerning animals subjected to transport induced vibration. The relevance of this material is questionable in Dr Heilig's opinion and further work in this field is warranted.

Dr Heilig also indicates preliminary modelling shows vibration generated by construction activities will be minimal and is expected to have a negligible effect on the welfare or behavioural patterns of animals housed in pavilions compared to the other sources of vibration to which they have already been exposed.

Nevertheless, Dr Heilig recommends that a specific programme be developed in collaboration with Melbourne Zoo staff regarding the monitoring and definition of permissible levels of vibration. How this might be developed is not stated.

The further work has not caused Dr Heilig to materially change the opinions expressed in the Technical Report (Appendix K).

The EWS then discusses the Submissions allocated to Dr Heilig and the five (5) common themes he identified in the submissions reviewed were:

- Concern regarding structural damage to dwellings that would occur from the vibration produced by construction activities
- Concern regarding subsidence to the area above the tunnel caused by the vibration produced by construction activities
- Concern regarding the loss of amenity for residents around the construction areas that would occur as a result of the vibration and regenerated noise produced by construction equipment
- Concern regarding the potential impact of the vibration by construction activities on the health and well-being of the animals at the Melbourne Zoo
- Concern regarding an inability to assess the possible impacts based upon a reference design and not necessarily the final implemented design.

Dr Heilig then addresses the following matters in turn:

- Vibration damage
- Personal Amenity
- Monitoring and Reporting of Vibration

He maintains the performance criteria are based on Australian Standards and further justified by comparison to other peer reviewed international papers. Thus he is of the view that the possibility of damage to properties arising from the vibration generated during the construction phase is effectively nil.

He notes examples of other environmental influences such as humidity change or routine daily weather phenomena that produce far greater stresses than the equivalent stress level induced by a level of vibration compliant with the proposed performance criteria are given. However, the humidity change of 20% would not be a rapid response as compared to a vibration pulse. Furthermore, unless the condition surveys are sufficiently detailed and susceptible structures are identified, reduction in the level of allowable peak particle velocity might not be realised.

Thus while Dr Heilig believes the possibility of damage is effectively nil, the advice goes on to note it is entirely appropriate to assess all infrastructure through a condition survey and reduce the vibration criteria where the structure is shown to be susceptible. Dr Heilig is not entirely consistent in Paragraph 2 on

p. 3 of his EWS. He notes the Australian Standard AS2187.2-2006 does not impose a more restrictive vibration criterion for heritage infrastructure, but rather considers it to be adequately protected by vibration criteria appropriate for recently constructed infrastructure.

It is questionable whether construction practices can be micro-managed to accommodate specific structures in proximity to the works that have been identified as susceptible to vibration damage or manage the possible increase in vibration limit where infrastructure has been identified to be in a sound condition, as Dr Heilig suggests.

The compaction of loose subsoil leading to settlement and consequently structural damage to buildings has been recognised, however, Dr Heilig discusses acceleration values, which are not proposed for East West Link criteria and notes acceleration values must generally exceed double the maximum performance criteria to cause settlement. The confusion of velocity and acceleration should be clarified.

The issue of extent of condition surveys raised in some submissions elicits a response from Dr Heilig that it should be determined according to the type of equipment used. The view of Dr Heilig is that it can either be determined according to a set distance from the works or according to the expected level of vibration, generally a percentage of the minimum performance criteria.

There is no disagreement that the equipment type dictates the extent but in a major tunnel project the most severe vibration output controls the criteria, given various equipment will be utilised to excavate the mainline tunnels and cross passages as well as shafts and the approach ramps. If only a set distance from the works is adopted within which condition surveys are undertaken, sensitive or susceptible structures may be ignored, whilst geological conditions and groundwater levels also can influence the distance from the construction works liable to experience vibration. For this reason, the two-way protection has to be carefully assessed in developing the extent of condition survey reports. Currently there is no guidance offered to indicate the extent to be adopted for condition surveys.

Personal amenity is discussed at the foot of p. 3 of Dr Heilig's EWS. The magnitudes discussed by Dr Heilig relate to tables in the Executive Summary of his Technical Report (Appendix K) but are not entirely consistent with the Table 17-2 of the Environmental Management Framework of Chapter 17 of the CIS and the Performance Requirements NV8 and NV9. The Day (16-hour day) limit expressed by Dr Heilig for residential is 1mm/s to 2 mm/s (p. iv of 112 and p. 16 of 112 of Appendix K) which corresponds to "low probability of adverse comment". There is also inconsistency in the Night and Evening terminology in the Technical Report on the same page.

Monitoring and reporting of vibration is discussed on p.4 of this EWS. The response in the first three paragraphs is consistent with typical accepted practice. The time of operation of particular equipment or activities may have to be amended or controlled, but given the current uncertainty of the Reference Project as to methods, further comment is not possible. The statement by Dr Heilig that prior to commencement of any activity that induces measurable levels of vibration, a vibration assessment is undertaken and the activity confirmed as being able to comply with performance criteria is endorsed.

Dr Heilig sees no reason to support the imposition of different compliance limits proposed by his work in preparation of the Technical Report. As the Performance Requirements are expressed in Chapter 17 of the CIS, there may be a need to be more specific in defining the terms Day and Night of the Performance Requirement NV8 to avoid misunderstandings.

The response to Submissions allocated to Dr Heilig is given in Appendix C of his EWS. Only those matters specific to tunnelling, hydrogeology and geomechanics are considered.

The condition of the NYM is described as the first issue requiring the setting of an appropriate limit of vibration to be determined in consultation with Melbourne Water. The response suggests the need for pro-

tection work between Manholes 48 and 50 is not resolved. If construction activities cannot meet the 5 mm/s vibration limit, the option of relining may be a possible solution. However, Dr Heilig continues by stating there is no guarantee that Melbourne Water will allow an increase in permissible level of vibration. The response continues by stating that preliminary assessment of the NYM between Manholes 52 to 50 has confirmed the option of relining appears very difficult and not feasible based upon a reduced flow capacity the reduced diameter would create.

It is thus possible the Reference Project may have to be adjusted to accommodate a solution in terms of Part 7 of the MTPFA such as:

1. Increase the separation from the NYM by re-alignment of the East West Tunnels to reduce the impact of tunnel construction, or
2. Address the feasibility of realignment of the NYM given its age and the prospect of utilising more ductile materials in a replacement.

The City of Melbourne Submission raised the issue of where the tunnel is under heritage assets, structural integrity of buildings must be assessed prior to construction and reassessed after. Dr Heilig responded that he recommends that all heritage infrastructure is assessed through a condition survey and where the infrastructure is susceptible to vibration, the vibration criteria should be adjusted accordingly. Where heritage infrastructure is shown to be sound by a condition report, the vibration limit that is applied in relation to construction activities generating impulse vibration is 3 mm/s to 10 mm/s. It is not certain whether Dr Heilig is addressing the City of Melbourne concern regarding assets rather than infrastructure.

The City of Yarra has expressed their submission in terms of Council issues and Residents issues. Dr Heilig has responded to the issue of difficulty in proving tunnelling vibration caused damage by indicating a vibration related or damage complaint would be addressed by review of both the photographic and written records to determine whether the defect (damage) existed prior to the works. The reliance on photography and the possible limitations imposed by respecting privacy can be overcome by detailed written condition surveys with documented measurements of existing defects.

The recommended Modified Performance Requirement as proposed by City of Yarra have merit (NV8, NV9, NV10 and NV11) (refer p. 13 of EWS), and described in the Appendix C of the EWS by Dr Heilig.

The response by Dr Heilig to the issue raised by RATS concerning measurement of noise and vibration by the contractor being unacceptable has not addressed their concern. Dr Heilig makes no mention of audit by others and most likely a specialist consultant would be engaged by the contractor for these tasks of monitoring. It is possible this can be stipulated as a Performance Requirement.

The comment by Dr Heilig relating to Submission 536 (Slater & Gordon) that the performance criteria proposed necessarily prohibits damage to infrastructure is a bold statement.

The comment by Dr Heilig relating to Submission 682 (Flemington Association) notes modelling of the expected levels from pile driving activities will be determined prior to construction proceeding. It is possible that compliance with the proposed performance criteria may not be met, given the proximity of some of the buildings adjacent to the Port Link and alternative piling solutions will be necessary.

### 2.3.2 Response to FCG Preliminary Advice

The Tabled Document 84 prepared by Dr Heilig addressed ground vibration issues raised by FCG in the Preliminary Consolidated Advice of March 2014. In particular, Dr Heilig commented on seven issues raised:

- **Applicable Standard**

Dr Heilig has purported that heritage infrastructure should neither necessarily nor automatically be subjected to a lower permissible level of vibration. This is consistent with the current Australian Standard

AS2187.2. He contends that such structures should be assessed and on the basis of the assessment and susceptibility to damage, an appropriate vibration limit determined. The indicated approach thus ranges from susceptible structures which are addressed by the German Standard DIN4150 to "typical" structures addressed by AS2187.2. The outcome by following Dr Heilig's advice is dependent to the approach taken by the constructor, i.e. whether to undertake a generic condition assessment with no consideration of the structure's susceptibility to vibration and thus apply the DIN4150 limits, or adopt a more detailed investigation aligned with best practice as per AS2187.2 and possibly a higher vibration limit.

In summary, Dr Heilig notes that the Performance Requirements indicated are adequate for the majority of residential properties, some infrastructure such as the Shot Tower should be reviewed in greater detail to determine the vibration limit.

- Analysis, Modelling and Measurement of Vibration

Dr Heilig notes the analysis, modelling and measurement of vibration levels from construction is almost exclusively undertaken by assessing the vibration level in the velocity domain. He recommends that all vibration monitoring for the project report values in the velocity domain and only for specific studies should acceleration values be noted. FCG notes and accepts these comments.

- Condition Surveys

Dr Heilig has proposed that the extent of condition surveys can be determined according to either a set distance from the works or based upon the distance at which a given level of vibration is predicted to occur. No specific distances are given, nor can this be determined until construction methods are determined, the Project Boundary is defined in terms of the adopted project and the geological anomalies and other factors, as indicated by Dr Heilig are given due consideration in determining a sufficiently conservative extent.

- Personal Amenity

Given the difficulty of defining a level of vibration acceptable to personal amenity, Dr Heilig references the Australian Standard AS2670.2 and notes the range of permissible values. There is no acknowledgement that in the Performance Requirements as expressed in Chapter 17 of the CIS, there may be a need to be more specific in defining the terms Day and Night of the Performance Requirement NV8 to avoid misunderstandings. Whilst he acknowledges that the NV8 Performance Requirement refers to continuous vibration to protect personal amenity, he also notes the caption above the table incorrectly references AS2817.2 instead of AS2670.2. This reads AS2187.2 as given in the LMA Final Version of the Performance Requirements (p.8 of 23).

- Vibration Levels for Utility Assets

Dr Heilig notes that an appropriate level of vibration for some utility assets should be determined through a structural assessment in consultation with the asset owner. The commentary is general in nature and suggests differing levels for different assets and possibly for different contractors depending on their quality assurance procedures, monitoring methods, early warning measures and planned mitigation measures.

Although preliminary discussion has been held with Melbourne Water concerning the NYM, no significant progress can be achieved until a preliminary design alignment is adopted by the Project Co. and negotiation can commence regarding acceptable vibration levels pertaining the NYM. Similar comments apply to the major HV transmission line of SP AusNet crossing the alignment at Clifton Hill and the HP gas main also in the ownership of SP AusNet.

In relation to the proximity of the elevated structure of the proposed Port Link adjacent to the CityLink elevated structure, SP AusNet made a succinct submission to the AC at the Public Hearing relating to their West Melbourne Terminal Station on 27 March 2014 (Day 18). Besides physical proximity and construction space requirements, SP AusNet highlighted their concerns relating to vibration affecting their switching facilities and transformers and their intended major business upgrade to meet the critical electricity demand of a major section of the CBD. Preliminary discussions with SP AusNet have not satisfied their concerns and negotiations will be difficult to advance until a Project Co is appointed.



- Performance Criteria

Dr Heilig notes that he believes the possibility of structural damage from the construction activities is effectively nil as the vibration levels will be controlled by performance criteria that are heavily biased towards personal amenity rather than prevention of damage. He believes it is an appropriate precaution to undertake condition surveys to:

- Provide assurance to the contractor against inappropriate claims of damage, or
- Provide support to the property owner in the event the contractor employs inappropriate construction practices.

The critical issue in any consideration of assigning limits for either transient or continuous vibration is compliance, and no amount of documentation of Performance Requirements can surpass understanding and ensuring compliance at all levels of the construction team.

- Vibration Management Plan

Dr Heilig notes that monitoring and reporting of vibration levels will be completed in accordance with a Vibration Management Plan. As stated in the text immediately above, compliance is the key to success in maintaining a working relationship with all stakeholders and avoiding damage or nuisance complaints.

Whilst Dr Heilig suggests subsequent monitoring, whether completed by the contractor or independent consultants, will comply with the Plan specifications. It is a bold presumption by Dr Heilig that monitoring alone will achieve the desired outcome, and again the necessity for compliance is emphasized.

It is suggested that as part of the function of the intended role of the Independent Reviewer to be jointly appointed by LMA and the Project Co, the vibration monitoring role should be administered by an independent specialist sub-consultant. This would provide transparency and independence of the vibration monitoring role.

## 2.4 Dr P Nadebaum

### 2.4.1 Expert Witness Statement

The EWS of Dr Nadebaum was not reviewed, as it was not within the scope of the FCG Brief.

### 2.4.2 Response to FCG Preliminary Advice

The Tabled Document 86 prepared by Dr Nadebaum principally addressed contamination plume issues raised by FCG. Dr Nadebaum focused on four matters raised in the FCG Preliminary Consolidated Advice of March 2014 pertaining to the former Fitzroy Gasworks site.

- FCG noted inconsistencies in the description of the extent of the plume by AECOM and SKM.

Dr Nadebaum stated FCG had not been specific as to the nature of the inconsistencies and had difficulty in understanding the nature of the concern. The AECOM and SKM reports available to the AC via the CIS and Section 57(4) response gave differing descriptions of the plume. The URS Audit Report and other information available to Mr Darryl Strudwick, noted by Dr Nadebaum, were not available to the AC. The additional on-going investigations by SKM and GHD should also provide further information on the extent and migration of the contamination plume, but this information was not available to the AC and FCG.

The further work by GHD on behalf of LMA may provide additional information regarding contamination at the expected depth of the tunnels and the contaminant concentrations at tunnel depth will be manageable and consistent with the observations of the Audit Report that contamination reduces rapidly with depth. However, this information has not been available to the AC.

- FCG noted the synthetic rubber seals (EPDM) between the segment circumferential and longitudinal faces of the segmental liner blocks may be subject to attack by hydrocarbon derivatives.

EPDM exhibits satisfactory compatibility with fireproof hydraulic fluids, ketones, hot and cold water, and alkalis, and unsatisfactory compatibility with most oils, gasoline, kerosene, aromatic and aliphatic hydrocarbons, halogenated solvents and concentrated acids.

Dr Nadebaum notes this effect relates to more concentrated solutions of aromatic hydrocarbons, and at the tunnel depth the EPDM seals would not be compromised. Notwithstanding this statement by Dr Nadebaum, it would be prudent to ascertain with potential suppliers of EPDM seals their opinion of the longevity of their product, given the very long design life of the tunnel segmental lined structure in the intended environment.

- FCG noted that if a slurry TBM is utilised, the contaminated slurry represents a considerable problem in recycling the slurry after separating the tunnel spoil, which should be addressed prior to selection of a TBM and commencement of TBM operations. Use of an EPB TBM does not experience the same potential issue of contaminated slurry, but might experience contaminated spoil handling issues and the attendant risks of workplace safety, storage and transport and disposal.

Dr Nadebaum suggested a Slurry TBM may give rise to large volumes of contaminated spoil and groundwater. If the Slurry TBM is operated in an appropriate manner there should not be a significant inflow of groundwater to the slurry. The point of the FCG comment was that recycling the slurry after removal of the rock spoil in the spoil handling plant can lead to either build-up of concentration of contaminants in the slurry returned to the machine or cause breakdown in slurry performance and hence a large volume of contaminated slurry to be disposed, particularly if contaminated plumes are traversed.

- FCG noted the strategy of ascertaining the extent, and the direction of migration of the plume if it is mobile may not be resolved until project commitment occurs. This approach could have a serious adverse impact on the project programme.

Dr Nadebaum's response is to indicate it is for the constructor to resolve any potential issues of groundwater flow by appropriate selection of the tunnel boring method or use of a hydraulic barrier. Major changes to a TBM necessitated by ground conditions or installation of a hydraulic barrier cannot be readily mobilized quickly nor modifications readily effected, even if the migration precipitated by tunnelling is a slow process, hence the potential for a serious adverse impact on the project programme.

Dr Nadebaum believes the concern raised regarding attack on the EPDM seals is probably overstated by FCG, but there was no readily available evidence in the CIS and the subsequently available reports suggesting low concentrations of aromatic hydrocarbons. Dr Nadebaum concedes the possibility of greater concentrations could be found in practice (although unlikely), and would be usefully raised in the selection and evaluation of the tunnel boring method and materials.

## 3. Critical Tunnel Issues for EW Link

### 3.1 Planning Scheme Amendment GC2

#### 3.1.1 Melbourne Planning Scheme

Part of the draft amendment prepared by LMA is documented in Schedule 62 as indicated below:

MELBOURNE PLANNING SCHEME

.../.../201  
OC2

**SCHEDULE 62 TO THE DESIGN AND DEVELOPMENT OVERLAY**

Shown on the planning scheme map as DDO62

**EAST WEST LINK PROJECT AREA**

**1.0**

**Design objectives**

.../.../201  
OC2

- To ensure that the development of land above the East West Link tunnel is not adversely affected by the construction or operation of the tunnel.
- To ensure that the development of land above the East West Link tunnel does not adversely affect the construction or operation of the tunnel.
- To ensure that the Roads Corporation is informed of development above the East West Link tunnel and to facilitate comment by that authority on any specific requirements relating to the development to the extent that it impacts on, or is adversely affected by, the construction or operation of the tunnel.

**2.0**

**Buildings and works**

.../.../201  
OC2

A permit is not required to construct a building or construct or carry out works if the building or works are less than 15 metres below ground level.

Notice of an application must be given under Section 52(1)(c) of the Act to the person or body specified in the Schedule to Clause 66.06.

An application is exempt from the notice requirements of Section 52(1)(a), (b) and (d), the decision requirements of Section 64(1), (2) and (3) and the review rights of Section 82(1) of the Act.

**3.0**

**Subdivision**

.../.../201  
OC2

A permit is not required to subdivide land.

**4.0**

**Decision guidelines**

.../.../201  
OC2

Before deciding on an application, in addition to the decision guidelines in Clause 65, the responsible authority must consider, as appropriate:

- The State Planning Policy Framework and the Local Planning Policy Framework, including the Municipal Strategic Statement and local planning policies.
- The impact of the construction or operation of the tunnel on the development of land above the tunnel.
- The impact on the construction or operation of the tunnel from the development of land above the tunnel.

### 3.1.2 Yarra Planning Scheme

A similar amendment is proposed by LMA in relation to the City of Yarra Planning Scheme:

#### YARRA PLANNING SCHEME

.../201-  
GC2

#### SCHEDULE 15 TO THE DESIGN AND DEVELOPMENT OVERLAY

Shown on the planning scheme map as DDO15

#### EAST WEST LINK PROJECT AREA

#### 1.0 Design objectives

.../201-  
GC2

- To ensure that the development of land above the East West Link tunnel is not adversely affected by the construction or operation of the tunnel.
- To ensure that the development of land above the East West Link tunnel does not adversely affect the construction or operation of the tunnel.
- To ensure that the Roads Corporation is informed of development above the East West Link tunnel and to facilitate comment by that authority on any specific requirements relating to the development to the extent that it impacts on, or is adversely affected by, the construction or operation of the tunnel.

#### 2.0 Buildings and works

.../201-  
GC2

A permit is not required to construct a building or construct or carry out works if the building or works are less than 15 metres below ground level.

Notice of an application must be given under Section 52(1)(c) of the Act to the person or body specified in the Schedule to Clause 66.06.

An application is exempt from the notice requirements of Section 52(1)(a), (b) and (d), the decisions requirements of Section 64(1), (2) and (3) and the review rights of Section 82(1) of the Act.

#### 3.0 Subdivision

.../201-  
GC2

A permit is not required to subdivide land.

#### 4.0 Decision guidelines

.../201-  
GC2

Before deciding on an application, in addition to the decision guidelines in Clause 65, the responsible authority must consider, as appropriate:

- The State Planning Policy Framework and the Local Planning Policy Framework including the Municipal Strategic Statement and local planning policies.
- The impact of the construction or operation of the tunnel on the development of land above the tunnel.
- The impact on the construction or operation of the tunnel from the development of land above the tunnel.

The critical issue for both the Melbourne and Yarra Planning Schemes is the impact of construction or operation of the tunnel on the development of land above the tunnel or vice versa. Whilst the vertical and horizontal alignment of the tunnels is not finalised, the key issue is the dimension of twin tunnels (15m diameter approximately with a separating pillar) in relation to probable depth of cover, the varied geotechnical conditions and the proximity of development. The Roads Corporation needs the ability to be able to rigorously check any development in proximity to the East West Link tunnels on the basis of all material factors and not only as a design objective. A prescriptive dimensional criterion as proposed (15m) does not capture the complexity of tunnels, the geotechnical conditions and the scale of any intended development.

Prior to vesting the tunnel structures in the Roads Corporation, the mechanism to protect both the tunnels and future private development in proximity during the Concession period needs to be considered. This is a legal/legislative issue for others to determine.

A rigorous analytical assessment taking into account the interaction of any development, including base-ment construction, loading, footing systems and geotechnical conditions with the tunnel structures. This approach serves all parties best interests and has been utilised on another major tunnel project in an urban environment, the Melbourne Underground Rail Loop. The MURLA Act of 1970 (Section 30 et seq), its amendment of 1973 (Section 4) and the subsequent Transport Act (Section 54) contained clauses to protect the Loop. These provisions are still relevant to the Loop tunnels and are currently administered by Vic Track. Development of properties along or in the immediate proximity of the Loop has never been stymied by these provisions, and should be considered by LMA to protect the interests of all parties.

### 3.2 LMA Response to DDO Query by FCG

Following the comment made above in Sections 3.1.1 and 3.1.2, LMA arranged for a meeting in their office to explain their approach to the DDO and the General Principles for Permit and Referral Requirements. A formal response to the AC was Tabled Document 439 on 11 April 2014 (Day 28 of Public Hearing). The LMA will not be in a position to confirm the extent of the application for the proposed DDO until the vertical and horizontal alignment has been confirmed as part of the detail design process.

Whilst the DDO Framework is proposed to be implemented once the extent of the tunnel alignment is confirmed in the 4<sup>th</sup> quarter, 2014 according to LMA, it is doubtful the detail design process will be sufficiently advanced to finalise the Project Boundary by that time and hence the necessary legal and legislative processes.

The LMA in their response to the AC (Tabled Document 439) commented as follows on the DDO Framework:

The text below is copied verbatim from the Tabled Document 439.

“It is also appropriate to ensure protection of the construction and operation of the tunnels and future development of land above the tunnels through the introduction of a Design and Development Overlay (DDO) for both the Yarra and Melbourne Planning schemes.

Following review of the tender requirements and exhibited DDO provisions, it is proposed to modify the DDO provisions to ensure a more robust framework exists to ensure the protection of the tunnels from future development and vice versa through the introduction of a referral mechanism to the LMA where appropriate. As project authority, the LMA will be a determining referral authority under the *Planning and Environment Act 1987* in respect of the land within the project area, pursuant to section 102A of the *Major Transport Projects Facilitation Act 2009*. Accordingly, it is appropriate that the LMA be specified as the referral authority in the DDO and not **Roads Corporation**.

Outlined below is an overview of the proposed framework.

### Design Objectives

- To ensure that the development of land above the East West Link tunnels is not adversely affected by tunnel construction or operation.
- To ensure that the development of land above the East West Link tunnels does not adversely affect the construction or operation of the tunnels.
- To ensure that the **Roads Corporation** is informed of development above the East West Link tunnels and to facilitate comment by that authority on any specific requirements relating to the development, to the extent that it impacts on, or is adversely affected by, construction or operation of the tunnel.

### General Principles - Permit & Referral requirements

It is proposed that two new DDO schedules be introduced to both Yarra and Melbourne Planning Schemes to ensure protection for the tunnels and for future land development. Outlined below are key principles that would provide a mechanism to ensure that, where appropriate, permit applications are referred to the relevant Referral Authority (in this case the LMA) for comment.

#### **Schedule X - General Tunnel Alignment –generally from Smith Street to Royal Parade (to be confirmed during the detail design process)**

The **key principle** is to ensure that any future development leg deep piled foundations and basement excavations which may cause substantial unloading and lateral/vertical movements) does not impact on the construction and operation of the tunnel.

For implementation into the DDO schedule, the draft provision could specify that any future development does not require a permit provided it is less than 2.5 metres below the ground level and less than 7.5 metres in height

#### **Schedule XX - Tunnel transition areas (either end of the tunnel) – (to be confirmed during the detail design process)**

The key principle is to ensure that any future development does not impact on the tunnel transition areas (i.e. where the tunnels transition to ground level).

For implementation into the DDO schedule, the draft provision could specify a permit is required to construct a building or carry out works.

This DDO framework will meet the design objectives outlined earlier through the provision of an appropriate referral mechanism to the LMA.

### Timing

LMA will be in a position to confirm the extent of the application for the proposed DDO once the vertical and horizontal alignment of the tunnel has been confirmed as part of the detail design process.

Accordingly it is proposed that the Design and Development Framework outlined above be implemented once the extent of the tunnel alignment is confirmed in the 4th quarter, 2014."

The text above relating to the Referral Authority has been highlighted, because if the LMA is to be specified as the Referral Authority in the DDO, it is not appropriate that the Roads Corporation is informed of development above the East West Link tunnels and to facilitate comment by that authority on any specific requirements relating to the development, to the extent that it impacts on, or is adversely affected by, construction or operation of the tunnel.

It is also not sufficient to only to be informed and facilitate comment, without power to protect the structural integrity and functionality of the tunnels.

In relation to future development in the vicinity of the tunnels, LMA provided the following advice in the meeting in their office on 19 March 2014 and would not release the technical information for commercial-in-confidence reasons at the time, but subsequently confirmed same in Tabled Document 439.

The text below is copied verbatim from Tabled Document 439.

“The tender documentation provides for this issue, as follows:

#### Future development

Future development of the land above and adjacent to the tunnels or other underground structures must be allowed for by designing and constructing for loading in addition to the design loads applicable to the support of the tunnel excavation. The additional loading requirements are as follows:

- (a) Driven tunnels and adjoining underground structures must:
  - (i) allow for a building vertical load of:
    - (A) 50kPa working load acting on the ground at a level of 1m above the tunnel crown and in uniform and patterned (including symmetrical and unsymmetrical) arrangements which give the most unfavourable loading condition on the tunnel; and
    - (B) 20kPa equivalent to a build-up of the surface level with 1m of fill,and design must allow for the loadings in (A) and (B) to be applied together and separately; and
  - (ii) retain a pillar of a minimum 7m width between the side wall of the tunnel and any adjacent building excavation.
- (b) Cut and cover tunnels and adjoining underground structures must allow for a surcharge of 25kPa with a load factor of 1.5 from future building or other development. This loading must be applied at the level of the top of the tunnel roof.
- (c) All tunnels and adjoining underground structures must:
  - (i) allow for additional loadings from developments which have been approved by the relevant Authority, current at the date of the Agreement; and
  - (ii) also be assessed and the underground structures designed to avoid any impacts on these developments.”

Again it is necessary to be specific as to the Relevant Authority and the meaning of the date of Agreement, to avoid any misunderstanding.



### 3.2.1 Commentary

There are two approaches possible in protection of both tunnels and property development in proximity:

- Design the tunnel structures for the existing load and ground conditions, with appropriate contingencies for change in groundwater level. Any future development is required to take into account the presence of the tunnels in proximity and be designed accordingly to not adversely affect the tunnels.
- Design the tunnel structures as above, but stipulate additional loading requirements to allow for future development.

The tender documentation by LMA adopts the latter approach described above, but in spite of the design intent, given earlier on p. 24:

- *To ensure that the development of land above the East West Link tunnels is not adversely affected by tunnel construction or operation.*
- *To ensure that the development of land above the East West Link tunnels does not adversely affect the construction or operation of the tunnels.*
- *To ensure that the **Roads Corporation** is informed of development above the East West Link tunnels and to facilitate comment by that authority on any specific requirements relating to the development, to the extent that it impacts on, or is adversely affected by, construction or operation of the tunnel,*

there may be situations where the load cases of a proposed development are not covered by the clauses relating to Future development in the Tender documentation.

One particular example is the unloading effect caused by excavation of a substantial basement either symmetrically or asymmetrically over the tunnels or in close proximity. The current framing of the tender documentation makes no allowance for this situation and resolution by the Relevant Authority will be difficult to manage.

The likelihood of construction of segmentally lined tunnels is high. Given their form and the manner in which they function, any substantial unloading and particularly asymmetrically can have dire consequences, particularly where the depth of cover is low.

Another example where the loading requirements may be subject to dispute is the possibility of bored or driven piles forming part of basement construction or a structural element of a multi-storey development in proximity. Currently there is no provision to address how to protect the tunnels from pile skin friction or vibration effects of developments in proximity.

### 3.3 Interface with Utilities

Although comment on the North Yarra Main sewer and its influence on groundwater and surrounding ground is contained in the following section, it must be recognised that the ovoid sewer was constructed about 1896 and various sections have required repair to maintain its function. It is a critical item of Melbourne's sewer infrastructure, transmitting sewage from the north eastern suburbs to Spotswood, Brooklyn and ultimately the Western Treatment Plant at Werribee. The Reference Project alignment indicates the NYM sewer is in proximity to the west bound tunnel of the East West Link for approximately 1050m, from passing over the tunnels near Queens Parade to running in parallel to Lygon Street before diverging under Cemetery Road East.

Protection of the sewer integrity is vital to both construction of the East West Link tunnels and Melbourne Water operations, thus the development of adequate guidelines for the benefit of both parties needs to be advanced as a matter of priority. The proposed amendment to the DDO as drafted by LMA is only intended to address property development on land above the East West Link tunnel. The interface with

utilities is covered by Part 7 of the MTPFA, and the NYM proximity and function will be a significant matter for resolution.

## 3.4 Palaeovalleys and groundwater

### 3.4.1 Palaeovalleys

The regional geology through which the East West Link tunnels are to be driven has been briefly described in the CIS (Chapter 14 and Appendix M). Palaeovalleys containing groundwater have been identified in the Melbourne region and described in various publications (Geological Survey of Victoria plans (Bulletin 59, 1967), *Geology of Victoria* (latest edition) published by GSA<sup>1</sup> (pp. 590-591 by W A Peck)).

The recent geotechnical drilling investigation for LMA has confirmed a number of palaeovalleys cross the tunnel alignment between the possible eastern portal location and Lygon Street. These are related to the ancestral streams forming tributaries to the ancestral Yarra River. (Refer Figure 3 Sheet 2 of 2, Tunnel Longitudinal Section (East) Part2). The subsequent lava flow within the last few million years from the north has buried these ancient valleys and produced the land form witnessed currently.

The construction of the North Yarra Main (NYM) sewer approximately 120 years ago under Princes Street experienced flooding of an access shaft (at approximately EWL Ch. 6020m) immediately west of Canning Street. The “sandy clay strata” described on the geological longitudinal section noted above most likely was the source of the inflow and despite the advances in technology since construction of the NYM, the prospect of buried watercourses has to be better understood. The pressure and volume of groundwater to be managed should not be taken to be mitigated by the possible adoption of a modern TBM with earth pressure balance or slurry technology capability. Currently the information pertaining to the palaeovalleys is limited and testing of storativity and transmissivity should be augmented. The prospect of intervention to restore TBM tunnelling operations under busy suburban streets, if adverse conditions or machine failure occurs, is a risk that must be mitigated.

Reference to the tunnel geological longitudinal section (Figure 3 Sheet 2 of 2, Tunnel Longitudinal Section (East) Part2) illustrates the drawdown effect caused by the leakage of groundwater into the NYM sewer in the section between Queens Parade and Lygon Street. This has been noted in the interpretive report by SKM<sup>2</sup> provided by LMA in response to the Section 57(4) RFI. A final issue of this report is referenced by Mr T Anderson in his EWS, but has not been provided to the AC.

Careful scrutiny of the “As Constructed” records of the NYM sewer held by Melbourne Water in their historical records may reveal other evidence of construction difficulties experienced on the NYM sewer as regards ground conditions or groundwater.

A matter that requires further investigation is the brief commentary noted on the geological longitudinal section (Figure 3 Sheet 2 of 2, Tunnel Longitudinal Section (East) Part2) relating to sulphur odour and yellow staining. Logs for Boreholes EWL-B12-039 and EWL-B12-008 note these effects but no commentary expanding on their presence has been found in any document available to the AC. There is good reason to identify if these effects relate to leakage from the NYM sewer as the boreholes are near the respective limits of the zone where the NYM is in proximity to the tunnels as indicated by the Reference Project (Ch. 5454 to Ch. 6500). If leakage is the cause, further consideration of maintaining the integrity of the NYM sewer is essential, given its critical function in transmission of sewage from a large metropolitan area.

<sup>1</sup> Geological Society of Australia, *Geology of Victoria*

<sup>2</sup> SKM East West Link Preliminary Hydrogeological Investigation DRAFT INTERPRETIVE REPORT August 2013 p.86

### 3.4.2 Groundwater

The influence of groundwater should principally be confined to the construction phase and the use of a closed face TBM is intended to ameliorate its effect. Once the tunnels are built, and providing the designed form of the tunnel meets water-tightness criteria, the groundwater table should not be adversely affected. However if problems arise in the construction and the lining fails water tightness requirements, long term problems persist.

These problems manifest themselves in several forms:

- Leakage which may cause deterioration of the lining through corrosion or corrosion of tunnel services (lighting, cabling, signage, ventilation fans)
- Leakage which has to be handled by the tunnel drainage system and may react chemically
- Leakage which impacts on serviceability and safety (wetting of pavement).

In the former category, the structure corrosion impacts on the design life of the tunnel whilst the tunnel services may have to be replaced considerably earlier than intended.

The second category relates to drainage capacity or maintenance issues and recurrent cost over the life of the tunnel.

The last category results in functionality issues that may have significant impact on operation.

The issue of potential damming of the groundwater southward migration by the tunnel structure is raised in the CIS and Technical Appendix M. The mitigation measure indicated is to develop a groundwater model and monitor groundwater levels during construction. Both actions will not commence until the project commitment has occurred and the design and construction teams are mobilized. In order to make a properly considered response to the potential of damming, it is essential to develop the groundwater model, by very experienced hydrogeological specialists, to test its sensitivity and reliability prior to project commitment. The model has to be able to realistically test intended construction sequences and methods, and not make simplistic assumptions such as taken to date (e.g. "unlined tunnel" in the Preliminary Hydrogeological Investigation DRAFT INTERPRETIVE REPORT, when commentary in the CIS and Technical Appendices indicates a closed face tunnelling system is likely).

### 3.4.3 Groundwater chemistry

The groundwater chemistry has been reported in several reports available to the AC but opinion on its effect on tunnel structures, and concrete segments in particular, has not been offered.

Comparison with other major tunnel projects (road and rail) in the Melbourne Formation siltstone and sandstone would be a very useful exercise and would inform the design of the East West Link tunnel. The potential for precipitation of calcium and iron salts from the groundwater should now be better understood in that it poses a risk to adequacy of the operating tunnel drainage systems, given experience on some of the more recent Melbourne tunnel projects and to suggest larger diameter drains as a possible mitigating measure as advanced in the CIS (Appendix M, Table 14, p. 62, Risk No. GW016) should be re-considered.

A very useful reference on this effect is given in the paper by Asche et al (2007)<sup>3</sup> relating to the EastLink tunnels, although the principal rock formation traversed on that project was Anderson Creek Formation. However, the groundwater at EastLink is reasonably anticipated to be similar to that emanating from the Melbourne Formation to be encountered on East West Link.

<sup>3</sup> Asche H R, Taylor E, Smith P, Campi P, & Callow I, "Tunneling for the Eastlink Project, Melbourne", RETC Proceedings Toronto 2007, pp. 534- 550.

Potential for attack on concrete or clogging of tunnel drains is considered in terms of the Langelier Saturation Index (LSI). The LSI is based on the pH of the groundwater compared to the saturation pH. The LSI is temperature dependent and it is very important that the sampling is controlled so that samples taken are not an uncontrolled mix of groundwater from all levels of a borehole as well as drilling flushing water.

No explanation of the sampling techniques is given in the CIS or the reports provided with the LMA response to the Section 57(4) RFI.

Nevertheless it is an issue that needs careful attention in detail design:

1. To prevent ingress of potentially aggressive groundwater
2. To provide a suitable structural lining to withstand the groundwater if it is deleterious
3. To design a drainage system that is not susceptible to clogging caused by precipitation of scale derived from relatively insoluble calcium salts.

### 3.5 Contamination plume/s

The presence of a contaminated plume of groundwater in the vicinity of the former Fitzroy Gasworks site has been identified in various reports available to the AC (the CIS, the Technical Appendices, the reports provided as part of the Section 57(4) RFI and the EWS reviewed). The Performance Requirement GW5 (Table 17-2, Chapter 17 P. 23) lists "Contamination plume management, particularly associated with the former Fitzroy Gasworks" but the reports referenced in the CIS Technical Appendix M) by AECOM and SKM and provided to the AC by LMA in response to the Section 57(4) RFI are not consistent in their description of extent of the plume and direction of migration.

The presence of such a plume or plumes represents a key risk to TBM operations and subsequently the lining. In the first instance the contaminated material would be excavated by a machine if the plume intersects the alignment. After placing the lining, assuming pre-cast segments placed as part of the excavation cycle, the synthetic rubber seals (EPDM) between the segment circumferential and longitudinal faces of the segmental liner blocks may be subject to attack by hydrocarbon derivatives. EPDM exhibits satisfactory compatibility with fireproof hydraulic fluids, ketones, hot and cold water, and alkalis, and unsatisfactory compatibility with most oils, gasoline, kerosene, aromatic and aliphatic hydrocarbons, halogenated solvents and concentrated acids.

If a slurry TBM is utilised, the contaminated slurry represents a considerable problem in recycling the slurry after separating the tunnel spoil, which should be addressed prior to selection of a TBM and commencement of TBM operations. Use of an EPB TBM does not experience the same potential issue of contaminated slurry, but might experience contaminated spoil handling issues and the attendant risks of workplace safety, storage and transport and disposal.

The strategy of ascertaining the extent, and the direction of migration of the plume if it is mobile may not be resolved until project commitment occurs. This approach could have a serious adverse impact on the project programme (refer time scales and methods noted in the AECOM report pp. 6-8). Understanding and containing the plume by prior works is a typical approach on major tunnelling projects, but the CIS does not address this significant issue.

### 3.6 Mixed Face Tunnelling Conditions

The geological longitudinal section issued by LMA (Figure 3 Sheets 1 & 2 of 2, Tunnel Longitudinal Section (East) Part 2) illustrates the mixed face condition to be traversed on the indicated vertical alignment.

Three of the key issues concerning excavation and forming the tunnel will be:

- Relatively low cover
- Type of TBM to be selected, given the nature of varying conditions along the alignment

- Large diameter tunnels in relatively close proximity.

The mixed face condition can be inferred to occur in nine distinct sections from Ch. 6200 (approx.) to Ch. 5100 (approx.). Whilst TBM selection is the contractor prerogative and responsibility, a high level of risk exists in coping with such conditions and is not mitigated by TBM choice alone.

Based on the inferred geological section, the mixed face condition interfaces proceeding eastwards are:

- Soil/siltstone
- Basalt/soil/siltstone
- Basalt/siltstone
- Soil/siltstone
- Basalt/siltstone
- Basalt/soil
- Basalt/siltstone
- Siltstone/soil
- Basalt/siltstone.

These changes in the face are challenging and should boulders of stronger rock part from the face of ground of differing strength and characteristics; they can cause severe difficulty and even damage to the TBM head. Intervention to effect repairs is extremely difficult due to the closed face necessary to control groundwater and can cause long delay to programme. Intervention can sometimes impact on the surface by the need for access shafts in extreme cases and a very recent example is the Seattle Alaskan Way project (November 2013 to present), currently the largest TBM ever manufactured, which has experienced a malfunction shortly after commissioning and completed about 300m of the 17.5m diameter tunnel.

The relatively low cover as shown on the inferred geological section, which is of the order of 1x to 1.5x the tunnel diameter, can present a problem if the passive restraint offered by the surrounding ground is low, such as towards the western portals, which allows the segmental structure to distort. No assessment of ground stiffness at the inferred tunnel horizon has been available to the AC, but it is an important matter for resolution in the design phase.

The tunnel horizontal alignment is only indicative within the Project Boundary. However, the tunnels are of large dimension (15m diameter each, corresponding to a typical Melbourne suburban house frontage (50 ft.)) and the separating pillar between the mainline traffic tunnels may be of similar dimension. Thus these large underground structures will be in relatively close proximity to surface property, because the tunnel footprint does not fit within the road reserve along part of the alignment or for reasons of road design requirements particularly at the eastern portal area.

## 4. EW Link (Eastern Section) Performance Requirements LMA Final Version

This commentary is confined to those Performance Requirements relating to tunnelling, hydrogeology and geomechanics in conformity with the Brief.

### Noise and Vibration

The recommended Modified Performance Requirement as proposed by City of Yarra (NV8, NV9, NV10 and NV11) (refer p. 13 of EWS), and described in the Appendix C of the EWS by Dr Heilig, have not been adopted in the LMA Final Version of the Performance Requirements.

Whilst Dr Heilig stated:

“The document proposes vibration conditions in NV8 and NV9 which are consistent with those I have proposed in my technical report. The Yarra City Council recommends the additional wording “Implement remedial action as soon as possible if these target levels are exceeded” be applied to both sets of performance criteria.

Proposed Condition NV10 proposes that real time monitoring with regular reporting to the Council be implemented. This is consistent with the recommendations in my evidence.

Proposed Condition NV11 indicates the requirement for a condition assessment of utility assets prior to construction. The assessment should include specification of vibration limits. This is consistent with my recommendations in my evidence.

The new proposed condition NV14 requires a dilapidation survey prior to the commencement of the project on any buildings where relocation may be required or for those buildings within the CIS. My recommendation is that the conditions surveys should be completed and the extent of these surveys should be determined by the type of activity that may occur in the immediate area”,

the LMA Final Version mirrors the earlier documentation on the respective Performance Requirements.

The only other matter is the correction necessary to the referenced Australian Standard AS2670.2, as discussed by Dr Heilig in Tabled Document 84 and noted on p. 18 of this Consolidated Advice.

### Groundwater

The Performance Requirements GW1, GW 3 and GW 4 have been subject to update in the Final Version issued by LMA. The changes relate to the positions agreed by the Expert Conclave and the adoption of the EPA Publication 669 for groundwater sampling.

All changes are considered improvements to the Performance Requirements.

# Appendices

# *Appendix A*

## Letter of Instruction

PPV Letter of 26 February 2014 (not included)



PPV Letter of 26 February 2014 (not included)

PPV Letter of 26 February 2014 (not included)

*Appendix B*  
CV - A G Bennet

CV - AG Bennet (not included)