

表格 D：(本表格不敷使用時，請自行複製)

| 環 境 監 測 計 畫 摘 要 | 辦 理 情 形 | | | | | | | | | |
|--|---|-------------------|--|------------------------------|------------|-----------|-----------|--|--|--|
| 台中廠及站區 | | | | | | | | | | |
| 營運期間環境監測 | 施工期間環境監測內容可完全涵蓋營運期間之環境監測內容(除冷能利用區之地盤沉陷)，故僅填寫施工期間之環境監測內容及結果。 | | | | | | | | | |
| <p>(一)空氣品質監測：</p> <p>台中廠二期計畫液化天然氣儲槽興建</p> <p>1. 測站區位：台中廠上風處、台中廠下風處、梧棲觀光漁港、台中港務局大樓。</p> <p>2. 監測項目：TSP、PM₁₀、PM_{2.5}、NO_x、O₃、CO、THC、CH₄、NMHC、SO₂、風向、風速、溫度、溼度。</p> <p>3. 監測頻率：每季一次，每次 24 小時連續監測。</p> | 114 年第 4 季 | | | | | | | | | |
| | | | 執行日期： | 114.10.01 | 114.10.02 | 114.10.28 | 114.10.27 | | | |
| | | | 執行單位： | 東興環安科技股份有限公司 亞太環境科技股份有限公司 | | | | | | |
| | | | 計畫場址： | 台中廠二期計畫液化天然氣儲槽興建 | | | | | | |
| | 項目 | 單位 | 監測區位標準 | 台中廠上風處(A1) | 台中廠下風處(A2) | 梧棲觀光漁港 | 台中港務局大樓 | | | |
| | 總懸浮微粒(TSP) | µg/m ₃ | — | 77 | 163 | 24 | 81 | | | |
| | 懸浮微粒(PM ₁₀) | µg/m ₃ | 75 | 34 | 51 | 25 | 44 | | | |
| | 細懸浮微粒(PM _{2.5}) | µg/m ₃ | 30 | 19 | 14 | 7 | 7 | | | |
| | NO _x 平均值 | ppb | — | 14 | 13 | 5.1 | 12.9 | | | |
| | O ₃ 最大 8 小時平均值 | ppb | 60 | 58 | 66 | 47.6 | 45.8 | | | |
| | O ₃ 最大小時平均值 | ppb | 100 | 69 | 58 | 57.1 | 51.2 | | | |
| | CO 最大 8 小時平均值 | ppm | 9 | 0.4 | 0.2 | 1.1 | 1.0 | | | |
| | CO 最大小時平均值 | ppm | 31 | 0.6 | 0.1 | 1.1 | 1.3 | | | |
| | THC 日平均值 | ppm | — | 2.09 | 1.94 | 2.09 | 2.16 | | | |
| | CH ₄ 日平均值 | ppm | — | 2.02 | 1.89 | 1.92 | 1.99 | | | |
| | NMHC 日平均值 | ppm | — | 0.07 | 0.05 | 0.16 | 0.17 | | | |
| | SO ₂ 日平均值 | ppb | — | 3 | 3 | 1.9 | 2.0 | | | |
| | SO ₂ 最大小時平均值 | ppb | 65 | 7 | 8 | 2.2 | 2.3 | | | |
| 氣象(風向) | — | — | NNW | WNW | 352 | 15 | | | | |
| 氣象(風速) | m/s | — | 2.3 | 1.4 | 1.6 | 2.3 | | | | |
| 氣象(溫度) | °C | — | 29.2 | 29.2 | 23.6 | 22.9 | | | | |
| 氣象(溼度) | % | — | 85.6 | 85.9 | 73.2 | 90.9 | | | | |
| 備註： | | | 台中廠下風處 O ₃ 最大 8 小時平均值大於標準值。 | | | | | | | |

| 環境監測計畫摘要 | 辦理情形 | | | | | |
|--|---------------------------|-------------------|------------------------------|-----------------|-----------|---------|
| <p>第二席 LNG 碼頭工程</p> <p>1. 測站區位：臺中港西 12 號碼頭(A3)。</p> <p>2. 監測項目：懸浮微粒 (TSP、PM10 及 PM2.5)、NOX、O3、CO、THC(CH4、NMHC)、SO2、風向、風速、溫度、濕度。</p> <p>監測頻率：每季一次，每次 24 小時連續監測。</p> | | | 114 年第 4 季 | | | |
| | 執行日期： | | 114.10.27 | | | |
| | 執行單位： | | 亞太環境科技股份有限公司 | | | |
| | 計畫場址： | | 台中廠二期計畫第二席 LNG 碼頭工程 | | | |
| | 項目 | 單位 | 監測區位標準 | 台中港西 12 號碼頭(A3) | | |
| | 總懸浮微粒(TSP) | µg/m ₃ | — | 223 | | |
| | 懸浮微粒(PM ₁₀) | µg/m ₃ | 75 | 72 | | |
| | 細懸浮微粒(PM _{2.5}) | µg/m ₃ | 30 | 15 | | |
| | NO _x 平均值 | ppb | — | 32.0 | | |
| | O ₃ 最大 8 小時平均值 | ppb | 60 | 34.7 | | |
| | O ₃ 最大小時平均值 | ppb | 100 | 41.4 | | |
| | CO 最大 8 小時平均值 | ppm | 9 | 0.2 | | |
| | CO 最大小時平均值 | ppm | 31 | 0.4 | | |
| | THC 日平均值 | ppm | — | 2.02 | | |
| | CH ₄ 日平均值 | ppm | — | 1.93 | | |
| | NMHC 日平均值 | ppm | — | 0.09 | | |
| | SO ₂ 日平均值 | ppb | — | ND | | |
| | SO ₂ 最大小時平均值 | ppb | 65 | ND | | |
| | 氣象(風向) | — | — | 333.83 | | |
| | 氣象(風速) | m/s | — | 2.5 | | |
| 氣象(溫度) | °C | — | 23 | | | |
| 氣象(溼度) | % | — | 83.3 | | | |
| 備註： | | | 各測項測值均符合空氣品質標準。 | | | |
| <p>(二) 放流水監測：</p> <p>台中廠二期計畫液化天然氣儲槽興建</p> <p>1. 測站區位：工區放流口 D01。</p> <p>2. 監測項目：溫度、pH、生化需氧量、化學需氧量、懸浮固體、油脂、真色色度、大腸桿菌群。</p> <p>3. 監測頻率：每月 1 次。</p> | | | 114 年第 4 季 | | | |
| | 執行日期： | | 114.10.03 | 114.11.07 | 114.12.05 | |
| | 執行單位： | | 東典環安科技股份有限公司 亞太環境科技股份有限公司 | | | |
| | 計畫場址： | | 台中廠二期計畫液化天然氣儲槽興建 | | | |
| | 項目 | 單位 | 監測區位標準 | 工區放流口 D01 | | |
| | pH | — | 6~9 | 6.5 | 7.2 | 7.6 |
| | 水溫 | °C | <35 | 28.8 | 27.8 | 23.7 |
| | 懸浮固體 | mg/L | 30 | 4.4 | 5.9 | 4.4 |
| | 生化需氧量 | mg/L | 30 | 10.1 | 3.1 | 7.2 |
| | 化學需氧量 | mg/L | 100 | 32.9 | 28.5 | 42.4 |
| | 油脂 | mg/L | 10 | 3.8 | <0.5 | 0.7 |
| | 真色色度 | — | 400 | 31 | 40.0 | 47 |
| | 大腸桿菌群 | CFU/100mL | — | 1.2E+03 | 5.7E+03 | 9.5E+04 |
| | 備註： | | | 符合標準。 | | |

| 環境監測計畫摘要 | 辦理情形 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--------------------------------------|------------------|--------|---------|-------|-------|--|--|------------|--|--|--|--|--|--|-------|-----------|-----------|--|--|--|--|--|-------|--------------|--------------|--|--|--|--|--|-------|------------------|------------------|--|--|--|----|----|--------|--------|------|--------|-------|-------|-------|-----|-----|-------|-------|-----|-----|-----|----|------|------|-------|-------|----|-----|---------|------|------|------|-------|-------|----|-----|------|------|------|------|-------|-------|------|------|------|------|------|-------|-----------|-------|------|-----|---------|------|-------|------|-------|-------|-----|-----|-------|------|------|-------|-------|-------|------|------|-----|----|------|----|-------|-------|-----|----|------|------|------|------|-----|--|--------------------------------------|--|--|--|--|--|
| <p>(三) 海域水質監測：</p> <p>台中廠二期計畫液化天然氣儲槽興建</p> <p>1. 測站區位：港區南迴船池、南北航道、排放口 A、排放口 B。</p> <p>2. 監測項目：溫度、氫離子濃度指數、溶氧量、生化需氧量、大腸桿菌群、鹽度、透明度、油脂。</p> <p>監測頻率：每季 1 次。</p> | <table border="1"> <thead> <tr> <th colspan="2"></th> <th colspan="5">114 年第 4 季</th> </tr> <tr> <th colspan="2"></th> <th>執行日期：</th> <td colspan="5">114.10.03</td> </tr> <tr> <th colspan="2"></th> <th>執行單位：</th> <td colspan="5">東典環安科技股份有限公司</td> </tr> <tr> <th colspan="2"></th> <th>計畫場址：</th> <td colspan="5">台中廠二期計畫液化天然氣儲槽興建</td> </tr> <tr> <th>項目</th> <th>單位</th> <th>監測區位標準</th> <th>港區南迴船池</th> <th>南北航道</th> <th>排放口 A</th> <th>排放口 B</th> </tr> </thead> <tbody> <tr> <td>透明度</td> <td>m</td> <td>—</td> <td>2.0</td> <td>1.5</td> <td>2.3</td> <td>2.0</td> </tr> <tr> <td>鹽度</td> <td>psu</td> <td>—</td> <td>31.4</td> <td>31.9</td> <td>31.5</td> <td>31.4</td> </tr> <tr> <td>pH</td> <td>—</td> <td>7.5~8.5</td> <td>8.1</td> <td>8.2</td> <td>8.2</td> <td>8.2</td> </tr> <tr> <td>水溫</td> <td>°C</td> <td>—</td> <td>31.8</td> <td>31.5</td> <td>31.9</td> <td>32.9</td> </tr> <tr> <td>溶氧量</td> <td>mg/L</td> <td>>5.0</td> <td>7.6</td> <td>6.9</td> <td>7.6</td> <td>7.8</td> </tr> <tr> <td>大腸桿菌群</td> <td>CFU/100mL</td> <td>—</td> <td><10</td> <td><10</td> <td>1.1E+02</td> <td>25</td> </tr> <tr> <td>生化需氧量</td> <td>mg/L</td> <td><3</td> <td>2.3</td> <td>1.6</td> <td>3.1</td> <td>4.9</td> </tr> <tr> <td>油脂</td> <td>mg/L</td> <td>2.0</td> <td><0.5</td> <td><0.5</td> <td><0.5</td> <td><0.5</td> </tr> <tr> <td colspan="2">備註：</td> <td colspan="5">符合標準</td> </tr> </tbody> </table> | | | | | | | | | 114 年第 4 季 | | | | | | | 執行日期： | 114.10.03 | | | | | | | 執行單位： | 東典環安科技股份有限公司 | | | | | | | 計畫場址： | 台中廠二期計畫液化天然氣儲槽興建 | | | | | 項目 | 單位 | 監測區位標準 | 港區南迴船池 | 南北航道 | 排放口 A | 排放口 B | 透明度 | m | — | 2.0 | 1.5 | 2.3 | 2.0 | 鹽度 | psu | — | 31.4 | 31.9 | 31.5 | 31.4 | pH | — | 7.5~8.5 | 8.1 | 8.2 | 8.2 | 8.2 | 水溫 | °C | — | 31.8 | 31.5 | 31.9 | 32.9 | 溶氧量 | mg/L | >5.0 | 7.6 | 6.9 | 7.6 | 7.8 | 大腸桿菌群 | CFU/100mL | — | <10 | <10 | 1.1E+02 | 25 | 生化需氧量 | mg/L | <3 | 2.3 | 1.6 | 3.1 | 4.9 | 油脂 | mg/L | 2.0 | <0.5 | <0.5 | <0.5 | <0.5 | 備註： | | 符合標準 | | | | | | | | | | | | | | | | | |
| | | 114 年第 4 季 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 執行日期： | 114.10.03 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 執行單位： | 東典環安科技股份有限公司 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 計畫場址： | 台中廠二期計畫液化天然氣儲槽興建 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 項目 | 單位 | 監測區位標準 | 港區南迴船池 | 南北航道 | 排放口 A | 排放口 B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 透明度 | m | — | 2.0 | 1.5 | 2.3 | 2.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 鹽度 | psu | — | 31.4 | 31.9 | 31.5 | 31.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| pH | — | 7.5~8.5 | 8.1 | 8.2 | 8.2 | 8.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 水溫 | °C | — | 31.8 | 31.5 | 31.9 | 32.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 溶氧量 | mg/L | >5.0 | 7.6 | 6.9 | 7.6 | 7.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 大腸桿菌群 | CFU/100mL | — | <10 | <10 | 1.1E+02 | 25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 生化需氧量 | mg/L | <3 | 2.3 | 1.6 | 3.1 | 4.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 油脂 | mg/L | 2.0 | <0.5 | <0.5 | <0.5 | <0.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 備註： | | 符合標準 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>(四) 海域底質監測：</p> <p>台中廠二期計畫液化天然氣儲槽興建</p> <p>1. 測站區位：南迴船池、南北航道、排放口 A、排放口 B。</p> <p>2. 監測項目：鄰近海域底泥重金屬</p> <p>3. 監測頻率：每季 1 次。</p> | <table border="1"> <thead> <tr> <th colspan="2"></th> <th colspan="6">114 年第 4 季</th> </tr> <tr> <th colspan="2"></th> <th>執行日期：</th> <td colspan="5">114.11.27</td> </tr> <tr> <th colspan="2"></th> <th>執行單位：</th> <td colspan="5">亞太環境科技股份有限公司</td> </tr> <tr> <th colspan="2"></th> <th>計畫場址：</th> <td colspan="5">台中廠二期計畫液化天然氣儲槽興建</td> </tr> <tr> <th rowspan="2">項目</th> <th rowspan="2">單位</th> <th colspan="2">標準值</th> <th rowspan="2">港區南迴船池</th> <th rowspan="2">南北航道</th> <th rowspan="2">排放口 A</th> <th rowspan="2">排放口 B</th> </tr> <tr> <th>ERL</th> <th>ERM</th> </tr> </thead> <tbody> <tr> <td>重金屬—鎘</td> <td>mg/kg</td> <td>1.2</td> <td>9.6</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> </tr> <tr> <td>重金屬—鉻</td> <td>mg/kg</td> <td>81</td> <td>370</td> <td>22.6</td> <td>15.3</td> <td>22.7</td> <td>21.4</td> </tr> <tr> <td>重金屬—銅</td> <td>mg/kg</td> <td>34</td> <td>270</td> <td>36.7</td> <td>32.9</td> <td>36.9</td> <td>38.4</td> </tr> <tr> <td>重金屬—鎳</td> <td>mg/kg</td> <td>20.9</td> <td>51.6</td> <td>21.2</td> <td>15.9</td> <td>21.3</td> <td>18.6</td> </tr> <tr> <td>重金屬—鉛</td> <td>mg/kg</td> <td>46.7</td> <td>218</td> <td>17.0</td> <td>12.7</td> <td>17.4</td> <td>13.8</td> </tr> <tr> <td>重金屬—鋅</td> <td>mg/kg</td> <td>150</td> <td>410</td> <td>110.0</td> <td>99.8</td> <td>111</td> <td>186.0</td> </tr> <tr> <td>重金屬—汞</td> <td>mg/kg</td> <td>0.15</td> <td>0.71</td> <td>0.1</td> <td>ND</td> <td>ND</td> <td>ND</td> </tr> <tr> <td>重金屬—砷</td> <td>mg/kg</td> <td>8.2</td> <td>70</td> <td>10.0</td> <td>9.36</td> <td>9.70</td> <td>10.0</td> </tr> <tr> <td colspan="2">備註：</td> <td colspan="6">本季海域底泥監測結果皆低於美國 NOAA 底泥生物危害之 ERM 標準。</td> </tr> </tbody> </table> <p>註：ERL，Effects Range – Low，對生物幾乎無危害 ERM，Effects Range –Medium，超過 ERM 值表示對生物體有危害之機率增高至 60~90%。</p> | | | | | | | | | 114 年第 4 季 | | | | | | | | 執行日期： | 114.11.27 | | | | | | | 執行單位： | 亞太環境科技股份有限公司 | | | | | | | 計畫場址： | 台中廠二期計畫液化天然氣儲槽興建 | | | | | 項目 | 單位 | 標準值 | | 港區南迴船池 | 南北航道 | 排放口 A | 排放口 B | ERL | ERM | 重金屬—鎘 | mg/kg | 1.2 | 9.6 | ND | ND | ND | ND | 重金屬—鉻 | mg/kg | 81 | 370 | 22.6 | 15.3 | 22.7 | 21.4 | 重金屬—銅 | mg/kg | 34 | 270 | 36.7 | 32.9 | 36.9 | 38.4 | 重金屬—鎳 | mg/kg | 20.9 | 51.6 | 21.2 | 15.9 | 21.3 | 18.6 | 重金屬—鉛 | mg/kg | 46.7 | 218 | 17.0 | 12.7 | 17.4 | 13.8 | 重金屬—鋅 | mg/kg | 150 | 410 | 110.0 | 99.8 | 111 | 186.0 | 重金屬—汞 | mg/kg | 0.15 | 0.71 | 0.1 | ND | ND | ND | 重金屬—砷 | mg/kg | 8.2 | 70 | 10.0 | 9.36 | 9.70 | 10.0 | 備註： | | 本季海域底泥監測結果皆低於美國 NOAA 底泥生物危害之 ERM 標準。 | | | | | |
| | | 114 年第 4 季 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 執行日期： | 114.11.27 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 執行單位： | 亞太環境科技股份有限公司 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 計畫場址： | 台中廠二期計畫液化天然氣儲槽興建 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 項目 | 單位 | 標準值 | | 港區南迴船池 | 南北航道 | 排放口 A | 排放口 B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | ERL | ERM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 重金屬—鎘 | mg/kg | 1.2 | 9.6 | ND | ND | ND | ND | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 重金屬—鉻 | mg/kg | 81 | 370 | 22.6 | 15.3 | 22.7 | 21.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 重金屬—銅 | mg/kg | 34 | 270 | 36.7 | 32.9 | 36.9 | 38.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 重金屬—鎳 | mg/kg | 20.9 | 51.6 | 21.2 | 15.9 | 21.3 | 18.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 重金屬—鉛 | mg/kg | 46.7 | 218 | 17.0 | 12.7 | 17.4 | 13.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 重金屬—鋅 | mg/kg | 150 | 410 | 110.0 | 99.8 | 111 | 186.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 重金屬—汞 | mg/kg | 0.15 | 0.71 | 0.1 | ND | ND | ND | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 重金屬—砷 | mg/kg | 8.2 | 70 | 10.0 | 9.36 | 9.70 | 10.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 備註： | | 本季海域底泥監測結果皆低於美國 NOAA 底泥生物危害之 ERM 標準。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| 環境監測計畫摘要 | 辦理情形 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|------------------|------------------|--|-----------|------|------------------|------|---------------|--|--|--|--|-------|--|------------|--|--|-------|--|------------------|--|---------------|---------|---------------|-----------|--|--|---------|--|--------------|--|--|-------|----------|----------|---------|-----------|------------------|--------|--------|----|----|----------|--------|--------|--------------|------|------------|--------|--------|-------|------|-----------|--------|--------|-------|-------|----------|--------|--------|-----------------|--------|---------|--------|-------|-------|-------|---------|--------|------------------|-------|-------|---------|--------|--------|-------|------|---------|------------------|--------|-------|-------|-------------------------------------|------|------|------|--|------------------------|-------|----|----|------|------------------|------|------|--|------------------|--|---|---|------|------|------|------|--|-----------------|----|---|---|------|------|------|------|--|------------------|----|---|---|------|------|------|------|--|------------------|----|---|---|------|------|------|------|--|------------------|----|---|---|------|------|------|------|--|------------------|----|---|---|------|------|------|------|--|----------|---|---|---|-----|-----|-----|-----|--|----------|-----|---|---|-----|-----|-----|-----|--|----------|----|---|---|------|------|------|------|--|------------|---|---|---|----|----|----|----|--|----|-------------------|----|---|---|------|------|------|------|--|-------------------|----|----|----|------|----|------|------|--|-------------------|----|----|----|------|------|------|------|--|--|------------------|----|---|---|------|----|------|------|--|-----|--|--|--|--|--|--|--|--|--|
| <p>(五) 噪音振動監測：</p> <p>台中廠二期計畫液化天然氣儲槽興建</p> <p>1. 測站區位：台中廠周界處 1 處、西 12 碼頭 1 處。</p> <p>2. 監測項目：噪音：L_{eq} (L_日、L_晚、L_夜)、L_{max}、氣候條件(風向、風速、溫度、相對濕度)、振動：L_{veq}、L_{vX}、L_{vmax}、L_{V日}、L_{V夜}。</p> <p>3. 監測頻率：每季平假日各一次連續 24 小時之監測資料。</p> | <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="8" style="text-align: center;">114 年第 4 季</th> </tr> <tr> <td colspan="2" rowspan="4" style="width: 20%;"></td> <td colspan="2" style="width: 10%;"></td> <td colspan="2" style="width: 10%;">執行日期：</td> <td colspan="2" style="width: 10%;">114.11.22(假日)</td> <td colspan="2" style="width: 10%;">114.11.20(平日)</td> </tr> <tr> <td colspan="2"></td> <td colspan="2">執行單位：</td> <td colspan="4">亞太環境科技股份有限公司</td> </tr> <tr> <td colspan="2"></td> <td colspan="2">計畫場址：</td> <td colspan="4">台中廠二期計畫液化天然氣儲槽興建</td> </tr> <tr> <td colspan="2"></td> <td colspan="2">監測區位標準</td> <td colspan="2">台中廠周界 1 處 N1</td> <td colspan="2">西 12 碼頭 N2</td> </tr> <tr> <td colspan="2"></td> <td>N1</td> <td>N2</td> <td>(假日)</td> <td>(平日)</td> <td>(假日)</td> <td>(平日)</td> <td colspan="2"></td> </tr> </thead> <tbody> <tr> <td rowspan="10" style="writing-mode: vertical-rl; text-orientation: upright;">噪音</td> <td>L_{eq}</td> <td>dB(A)</td> <td>—</td> <td>—</td> <td>65.1</td> <td>70.0</td> <td>61.1</td> <td>63.7</td> <td></td> </tr> <tr> <td>L_{eq日}</td> <td>dB(A)</td> <td>76</td> <td>76</td> <td>66.6</td> <td>71.9</td> <td>62.4</td> <td>64.5</td> <td></td> </tr> <tr> <td>L_{eq晚}</td> <td>dB(A)</td> <td>75</td> <td>75</td> <td>60.7</td> <td>62.7</td> <td>56.9</td> <td>60.4</td> <td></td> </tr> <tr> <td>L_{eq夜}</td> <td>dB(A)</td> <td>72</td> <td>72</td> <td>62.7</td> <td>66.4</td> <td>59.2</td> <td>63.0</td> <td></td> </tr> <tr> <td>L_{max}</td> <td>dB(A)</td> <td>—</td> <td>—</td> <td>89.1</td> <td>94.2</td> <td>88.2</td> <td>94.2</td> <td></td> </tr> <tr> <td>L_{v5}</td> <td>dB</td> <td>—</td> <td>—</td> <td>70.8</td> <td>76.3</td> <td>66.7</td> <td>69.1</td> <td></td> </tr> <tr> <td>L_{v10}</td> <td>dB</td> <td>—</td> <td>—</td> <td>66.7</td> <td>73.2</td> <td>63.0</td> <td>66.2</td> <td></td> </tr> <tr> <td>L_{v50}</td> <td>dB</td> <td>—</td> <td>—</td> <td>54.2</td> <td>62.7</td> <td>54.3</td> <td>57.3</td> <td></td> </tr> <tr> <td>L_{v90}</td> <td>dB</td> <td>—</td> <td>—</td> <td>49.3</td> <td>54.0</td> <td>52.7</td> <td>54.2</td> <td></td> </tr> <tr> <td>L_{v95}</td> <td>dB</td> <td>—</td> <td>—</td> <td>48.6</td> <td>52.7</td> <td>52.5</td> <td>53.8</td> <td></td> </tr> <tr> <td>氣候條件(風向)</td> <td>-</td> <td>—</td> <td>—</td> <td>360</td> <td>360</td> <td>360</td> <td>360</td> <td></td> </tr> <tr> <td>氣候條件(風速)</td> <td>m/s</td> <td>—</td> <td>—</td> <td>3.7</td> <td>5.4</td> <td>3.7</td> <td>5.4</td> <td></td> </tr> <tr> <td>氣候條件(溫度)</td> <td>°C</td> <td>—</td> <td>—</td> <td>19.4</td> <td>19.1</td> <td>19.4</td> <td>19.1</td> <td></td> </tr> <tr> <td>氣候條件(相對濕度)</td> <td>%</td> <td>—</td> <td>—</td> <td>89</td> <td>80</td> <td>89</td> <td>80</td> <td></td> </tr> <tr> <td rowspan="3" style="writing-mode: vertical-rl; text-orientation: upright;">振動</td> <td>L_{vmax}</td> <td>dB</td> <td>—</td> <td>—</td> <td>66.9</td> <td>67.2</td> <td>63.7</td> <td>68.9</td> <td></td> </tr> <tr> <td>L_{V10日}</td> <td>dB</td> <td>70</td> <td>70</td> <td>40.3</td> <td>47</td> <td>39.6</td> <td>43.3</td> <td></td> </tr> <tr> <td>L_{V10夜}</td> <td>dB</td> <td>65</td> <td>65</td> <td>35.1</td> <td>37.2</td> <td>41.3</td> <td>45.1</td> <td></td> </tr> <tr> <td></td> <td>L_{V10}</td> <td>dB</td> <td>—</td> <td>—</td> <td>38.8</td> <td>45</td> <td>34.6</td> <td>37.8</td> <td></td> </tr> <tr> <td colspan="4">備註：</td> <td colspan="4">本次噪音監測結果均合所屬環境音量標準，振動監測結果均符合國外相關法規參考值，後續將持續監測，以了解環境周遭情形。</td> <td colspan="2"></td> </tr> </tbody> </table> | | | | | | | | 114 年第 4 季 | | | | | | | | | | | | 執行日期： | | 114.11.22(假日) | | 114.11.20(平日) | | | | 執行單位： | | 亞太環境科技股份有限公司 | | | | | | 計畫場址： | | 台中廠二期計畫液化天然氣儲槽興建 | | | | | | 監測區位標準 | | 台中廠周界 1 處 N1 | | 西 12 碼頭 N2 | | | | N1 | N2 | (假日) | (平日) | (假日) | (平日) | | | 噪音 | L _{eq} | dB(A) | — | — | 65.1 | 70.0 | 61.1 | 63.7 | | L _{eq日} | dB(A) | 76 | 76 | 66.6 | 71.9 | 62.4 | 64.5 | | L _{eq晚} | dB(A) | 75 | 75 | 60.7 | 62.7 | 56.9 | 60.4 | | L _{eq夜} | dB(A) | 72 | 72 | 62.7 | 66.4 | 59.2 | 63.0 | | L _{max} | dB(A) | — | — | 89.1 | 94.2 | 88.2 | 94.2 | | L _{v5} | dB | — | — | 70.8 | 76.3 | 66.7 | 69.1 | | L _{v10} | dB | — | — | 66.7 | 73.2 | 63.0 | 66.2 | | L _{v50} | dB | — | — | 54.2 | 62.7 | 54.3 | 57.3 | | L _{v90} | dB | — | — | 49.3 | 54.0 | 52.7 | 54.2 | | L _{v95} | dB | — | — | 48.6 | 52.7 | 52.5 | 53.8 | | 氣候條件(風向) | - | — | — | 360 | 360 | 360 | 360 | | 氣候條件(風速) | m/s | — | — | 3.7 | 5.4 | 3.7 | 5.4 | | 氣候條件(溫度) | °C | — | — | 19.4 | 19.1 | 19.4 | 19.1 | | 氣候條件(相對濕度) | % | — | — | 89 | 80 | 89 | 80 | | 振動 | L _{vmax} | dB | — | — | 66.9 | 67.2 | 63.7 | 68.9 | | L _{V10日} | dB | 70 | 70 | 40.3 | 47 | 39.6 | 43.3 | | L _{V10夜} | dB | 65 | 65 | 35.1 | 37.2 | 41.3 | 45.1 | | | L _{V10} | dB | — | — | 38.8 | 45 | 34.6 | 37.8 | | 備註： | | | | 本次噪音監測結果均合所屬環境音量標準，振動監測結果均符合國外相關法規參考值，後續將持續監測，以了解環境周遭情形。 | | | | | |
| | 114 年第 4 季 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | 執行日期： | | 114.11.22(假日) | | 114.11.20(平日) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | 執行單位： | | 亞太環境科技股份有限公司 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | 計畫場址： | | 台中廠二期計畫液化天然氣儲槽興建 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | 監測區位標準 | | 台中廠周界 1 處 N1 | | 西 12 碼頭 N2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | N1 | N2 | (假日) | (平日) | (假日) | (平日) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 噪音 | L _{eq} | dB(A) | — | — | 65.1 | 70.0 | 61.1 | 63.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | L _{eq日} | dB(A) | 76 | 76 | 66.6 | 71.9 | 62.4 | 64.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | L _{eq晚} | dB(A) | 75 | 75 | 60.7 | 62.7 | 56.9 | 60.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | L _{eq夜} | dB(A) | 72 | 72 | 62.7 | 66.4 | 59.2 | 63.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | L _{max} | dB(A) | — | — | 89.1 | 94.2 | 88.2 | 94.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | L _{v5} | dB | — | — | 70.8 | 76.3 | 66.7 | 69.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | L _{v10} | dB | — | — | 66.7 | 73.2 | 63.0 | 66.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | L _{v50} | dB | — | — | 54.2 | 62.7 | 54.3 | 57.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| L _{v90} | | dB | — | — | 49.3 | 54.0 | 52.7 | 54.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| L _{v95} | | dB | — | — | 48.6 | 52.7 | 52.5 | 53.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 氣候條件(風向) | - | — | — | 360 | 360 | 360 | 360 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 氣候條件(風速) | m/s | — | — | 3.7 | 5.4 | 3.7 | 5.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 氣候條件(溫度) | °C | — | — | 19.4 | 19.1 | 19.4 | 19.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 氣候條件(相對濕度) | % | — | — | 89 | 80 | 89 | 80 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 振動 | L _{vmax} | dB | — | — | 66.9 | 67.2 | 63.7 | 68.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | L _{V10日} | dB | 70 | 70 | 40.3 | 47 | 39.6 | 43.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | L _{V10夜} | dB | 65 | 65 | 35.1 | 37.2 | 41.3 | 45.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | L _{V10} | dB | — | — | 38.8 | 45 | 34.6 | 37.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 備註： | | | | 本次噪音監測結果均合所屬環境音量標準，振動監測結果均符合國外相關法規參考值，後續將持續監測，以了解環境周遭情形。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>(六) 地盤沈陷監測：</p> <p>台中廠二期計畫液化天然氣儲槽興建</p> <p>1. 測站區位：台中廠區內 (CP1、CP2、CP3、CP4)，台中廠區外 (T1、T2、T3、T4)。</p> <p>2. 監測項目：地盤沈陷。</p> <p>監測頻率：營運期間每 3 個月一次之監測資料。</p> | <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="5" style="text-align: center;">114 年第 4 季</th> </tr> <tr> <td colspan="2" style="width: 20%;">執行單位：</td> <td colspan="3">詠翔測量工程有限公司</td> </tr> <tr> <td colspan="2">計畫場址：</td> <td colspan="3">台中廠二期計畫液化天然氣儲槽興建</td> </tr> <tr> <td colspan="2">本次觀測日期：</td> <td colspan="3">114.10.03</td> </tr> <tr> <td colspan="2">前次觀測日期：</td> <td colspan="3">114.07.04</td> </tr> <tr> <th>沉陷觀測點</th> <th>初始高程 (1)</th> <th>量測高程 (2)</th> <th>沉陷量 (3)</th> <th>前次沉陷量 (4)</th> </tr> <tr> <th>編號</th> <th>GL - M</th> <th>GL - M</th> <th>cm</th> <th>cm</th> </tr> </thead> <tbody> <tr> <td>基地內(CP1)</td> <td>6.1291</td> <td>6.0615</td> <td>-6.76</td> <td>-6.8</td> </tr> <tr> <td>基地內(CP2*)</td> <td>5.2275</td> <td>5.2266</td> <td>-0.09</td> <td>0.01</td> </tr> <tr> <td>基地內(CP3A)</td> <td>4.9034</td> <td>4.8897</td> <td>-1.37</td> <td>-1.19</td> </tr> <tr> <td>基地內(CP4)</td> <td>4.7585</td> <td>4.6521</td> <td>-10.64</td> <td>-10.61</td> </tr> <tr> <td>基地外(T1)</td> <td>4.7471</td> <td>4.707</td> <td>-4.01</td> <td>-4.03</td> </tr> <tr> <td>基地外(T2)</td> <td>4.8337</td> <td>4.7911</td> <td>-4.26</td> <td>-4.42</td> </tr> <tr> <td>基地外(T3)</td> <td>4.6116</td> <td>4.5793</td> <td>-3.23</td> <td>-3.2</td> </tr> <tr> <td>基地外(T4)</td> <td>4.5817</td> <td>4.5309</td> <td>-5.08</td> <td>-4.95</td> </tr> <tr> <td colspan="5">備註：1.基準高程係以 BM9 高程為 EL.5.6563 m 起算。</td> </tr> <tr> <td colspan="5">2.(3) = ((2)-(1))*100。</td> </tr> <tr> <td colspan="5">3.「+」表隆起，「-」表沉陷。</td> </tr> <tr> <td colspan="5">4.因廠內「台中廠 LNG 灌裝設施新建工程」之工程範圍涵蓋沉陷量測點 CP2，因此自 109 年第四季起，沉陷量測點 CP2 改以距原位置約 10 公</td> </tr> </tbody> </table> | | | | | | | | 114 年第 4 季 | | | | | 執行單位： | | 詠翔測量工程有限公司 | | | 計畫場址： | | 台中廠二期計畫液化天然氣儲槽興建 | | | 本次觀測日期： | | 114.10.03 | | | 前次觀測日期： | | 114.07.04 | | | 沉陷觀測點 | 初始高程 (1) | 量測高程 (2) | 沉陷量 (3) | 前次沉陷量 (4) | 編號 | GL - M | GL - M | cm | cm | 基地內(CP1) | 6.1291 | 6.0615 | -6.76 | -6.8 | 基地內(CP2*) | 5.2275 | 5.2266 | -0.09 | 0.01 | 基地內(CP3A) | 4.9034 | 4.8897 | -1.37 | -1.19 | 基地內(CP4) | 4.7585 | 4.6521 | -10.64 | -10.61 | 基地外(T1) | 4.7471 | 4.707 | -4.01 | -4.03 | 基地外(T2) | 4.8337 | 4.7911 | -4.26 | -4.42 | 基地外(T3) | 4.6116 | 4.5793 | -3.23 | -3.2 | 基地外(T4) | 4.5817 | 4.5309 | -5.08 | -4.95 | 備註：1.基準高程係以 BM9 高程為 EL.5.6563 m 起算。 | | | | | 2.(3) = ((2)-(1))*100。 | | | | | 3.「+」表隆起，「-」表沉陷。 | | | | | 4.因廠內「台中廠 LNG 灌裝設施新建工程」之工程範圍涵蓋沉陷量測點 CP2，因此自 109 年第四季起，沉陷量測點 CP2 改以距原位置約 10 公 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 114 年第 4 季 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 執行單位： | | 詠翔測量工程有限公司 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 計畫場址： | | 台中廠二期計畫液化天然氣儲槽興建 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 本次觀測日期： | | 114.10.03 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 前次觀測日期： | | 114.07.04 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 沉陷觀測點 | 初始高程 (1) | 量測高程 (2) | 沉陷量 (3) | 前次沉陷量 (4) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 編號 | GL - M | GL - M | cm | cm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 基地內(CP1) | 6.1291 | 6.0615 | -6.76 | -6.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 基地內(CP2*) | 5.2275 | 5.2266 | -0.09 | 0.01 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 基地內(CP3A) | 4.9034 | 4.8897 | -1.37 | -1.19 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 基地內(CP4) | 4.7585 | 4.6521 | -10.64 | -10.61 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 基地外(T1) | 4.7471 | 4.707 | -4.01 | -4.03 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 基地外(T2) | 4.8337 | 4.7911 | -4.26 | -4.42 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 基地外(T3) | 4.6116 | 4.5793 | -3.23 | -3.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 基地外(T4) | 4.5817 | 4.5309 | -5.08 | -4.95 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 備註：1.基準高程係以 BM9 高程為 EL.5.6563 m 起算。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.(3) = ((2)-(1))*100。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.「+」表隆起，「-」表沉陷。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4.因廠內「台中廠 LNG 灌裝設施新建工程」之工程範圍涵蓋沉陷量測點 CP2，因此自 109 年第四季起，沉陷量測點 CP2 改以距原位置約 10 公 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| 環 境 監 測 計 畫 摘 要 | 辦 理 情 形 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|----------------------|------------|--------------|------------------|----------|------------|-----------|-----------|--|--|-------|--|------------------|--|--|--|--|--|--|--|------|--------|----|------------|--|------------------|--|-------|--|--|-----------|----------|-----------|----------|------------|-----------|-----------|------|-----|-----------|------|------|-----|----|------|------|------|-----|--|----------------------|--|--|--|--|--|--|--|
| | <p>尺處之沉陷量測點 CP2*進行量測。惟 CP2*為新設沉陷量測點並無初始高程，以 109 年第四季量測結果作為該點之初始高程。</p> <p>5.自 110 年第二季起，因廠內「台中廠 LNG 灌裝設施新建工程」第二席碼頭工程因素，於 110 年 4 月 6 日起地盤沉陷點由 CP3 引側至 CP3A，自 110 年第二季起已於新點位施測。</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>(七) 營建噪音振動監測：</p> <p>台中廠二期計畫液化天然氣儲槽興建：</p> <p>1. 測站區位：實際施工範圍內之工區周界或最近敏感受體外牆 1 公尺處。</p> <p>2. 監測項目：營建噪音：L_{eq}、L_{max}、營建振動：L_{v10}、L_{vmax}。</p> <p>3. 監測頻率：營運期間每 3 個月一次之監測資料。</p> | <p style="text-align: center;">114 年第 4 季</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2">執行單位：</td> <td colspan="8">亞太環境科技股份有限公司</td> </tr> <tr> <td colspan="2">計畫場址：</td> <td colspan="8">台中廠二期計畫液化天然氣儲槽興建</td> </tr> <tr> <th rowspan="2">監測地點</th> <th rowspan="2">噪音管制類別</th> <th rowspan="2">日期</th> <th colspan="2">營建噪音 dB(A)</th> <th colspan="2">營建工程噪音管制標準 dB(A)</th> <th colspan="3">振動 dB</th> </tr> <tr> <th>L_{max}</th> <th>L_{eq}</th> <th>L_{max}</th> <th>L_{eq}</th> <th>L_{vmax}</th> <th>L_{veq}</th> <th>L_{v10}</th> </tr> <tr> <td>工區周界</td> <td>第四類</td> <td>114.11.20</td> <td>65.3</td> <td>61.1</td> <td>100</td> <td>80</td> <td>44.8</td> <td>40.6</td> <td>41.9</td> </tr> <tr> <td colspan="2">備註：</td> <td colspan="8">本季工區營建噪音振動監測結果均符合標準。</td> </tr> </table> | 執行單位： | | 亞太環境科技股份有限公司 | | | | | | | | 計畫場址： | | 台中廠二期計畫液化天然氣儲槽興建 | | | | | | | | 監測地點 | 噪音管制類別 | 日期 | 營建噪音 dB(A) | | 營建工程噪音管制標準 dB(A) | | 振動 dB | | | L_{max} | L_{eq} | L_{max} | L_{eq} | L_{vmax} | L_{veq} | L_{v10} | 工區周界 | 第四類 | 114.11.20 | 65.3 | 61.1 | 100 | 80 | 44.8 | 40.6 | 41.9 | 備註： | | 本季工區營建噪音振動監測結果均符合標準。 | | | | | | | |
| 執行單位： | | 亞太環境科技股份有限公司 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 計畫場址： | | 台中廠二期計畫液化天然氣儲槽興建 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 監測地點 | 噪音管制類別 | 日期 | 營建噪音 dB(A) | | 營建工程噪音管制標準 dB(A) | | 振動 dB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | L_{max} | L_{eq} | L_{max} | L_{eq} | L_{vmax} | L_{veq} | L_{v10} | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 工區周界 | 第四類 | 114.11.20 | 65.3 | 61.1 | 100 | 80 | 44.8 | 40.6 | 41.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 備註： | | 本季工區營建噪音振動監測結果均符合標準。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>(八) 海域生態及漁業資源</p> <p>1. 測站區位：</p> <p>(1) 南北航道</p> <p>(2) 南迴船池</p> <p>(3) 排放口 A</p> <p>2. 監測項目：鄰近海域表層、中層、底層生態：浮游性動物、浮游性植物、魚類、底棲動物、魚卵及仔稚魚。</p> <p>3. 監測頻率：每季一次</p> | <p>監測結果摘要：</p> <p>本季浮游植物調查發現共計有矽藻門(Bacillariophyta)、金黃藻門 (Chrysophyta)及渦鞭毛藻門(Dinophyta) 3 門共 27 種，以矽藻門的 Chaetoceros spp.為數量最多的類別。</p> <p>浮游動物共計發現 9 門 16 大類，數量最多的為夜光蟲，佔浮游動物總量的 49.28%，為本次調查的優勢物種，其次為哲水蚤，佔總量的 19.62%。</p> <p>底棲生物共計發現到 2 門 3 種。軟體動物有 2 種 5 個個體，節肢動物有 1 種 3 個個體，底棲生物全部共 3 種 8 個個體。</p> <p>本季魚類調查，並未紀錄到成熟魚類個個體。</p> <p>仔稚魚發現結果 3 科 3 種魚類。鱚科的平葉若鱚(<i>Carangoides fordam</i>)為本季優勢之種類，佔總量 45.41%。</p> <p>10 月台中市漁會魚市場拍賣之沿、近海漁業漁獲生產量約為 375,116.4 公斤；11 月份漁獲生產量合計為 366,333.5 公斤；12 月之漁獲生產量 370,018.3 公斤。</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| 環 境 監 測 計 畫 摘 要 | 辦 理 情 形 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|----------------------|----------------------|----------------------|--|------|------|------|------|------|------|-----------|-----------|-----------|-----------|----|----------------------|----------------------|----------------------|----------------------|----|---------|---------|---------|---------|----|---------|---------|---------|---------|----|---------|---------|---------|---------|----|---------|---------|---------|---------|----|---------|---------|---------|---------|----|---------|---------|---------|---------|----|---------|---------|---------|---------|----|---------|---------|---------|---------|
| <p>(九) 地盤沈陷監測：</p> <p>藍海氣體廠</p> <p>1. 測站區位：冷能利用區之儲槽站1站。</p> <p>2. 監測項目：地盤沈陷。</p> <p>監測頻率：每年一次。</p> | <p>藍海氣體廠 101 年第 4 季建立監測點，並建立基準值。</p> <table border="1" data-bbox="531 288 1406 763"> <thead> <tr> <th>觀測期間</th> <th>營運期間</th> <th>營運期間</th> <th>營運期間</th> <th>營運期間</th> </tr> </thead> <tbody> <tr> <td>觀測日期</td> <td>111/10/28</td> <td>112/11/01</td> <td>113/11/15</td> <td>114/11/20</td> </tr> <tr> <td>點號</td> <td>CP3A 控制點 高程(m)</td> <td>CP3A 控制點 高程(m)</td> <td>CP3A 控制點 高程(m)</td> <td>CP3A 控制點 高程(m)</td> </tr> <tr> <td>A1</td> <td>5.74966</td> <td>5.74594</td> <td>5.74754</td> <td>5.75016</td> </tr> <tr> <td>A2</td> <td>5.74726</td> <td>5.74584</td> <td>5.74484</td> <td>5.75016</td> </tr> <tr> <td>A3</td> <td>5.74575</td> <td>5.74400</td> <td>5.74911</td> <td>5.74552</td> </tr> <tr> <td>A4</td> <td>5.74805</td> <td>5.74850</td> <td>5.74951</td> <td>5.75132</td> </tr> <tr> <td>A5</td> <td>5.74535</td> <td>5.74620</td> <td>5.74931</td> <td>5.74862</td> </tr> <tr> <td>A6</td> <td>5.74505</td> <td>5.74860</td> <td>5.75041</td> <td>5.74912</td> </tr> <tr> <td>A7</td> <td>5.74994</td> <td>5.74931</td> <td>5.75344</td> <td>5.75057</td> </tr> <tr> <td>A8</td> <td>5.74914</td> <td>5.74811</td> <td>5.75304</td> <td>5.75367</td> </tr> </tbody> </table> <p>備註：台中液化天然氣廠沉陷檢測110/11/4更改執行點位由原使用控制點CP3之座標高程控制點更改為CP3A控制點。</p> | | | | | 觀測期間 | 營運期間 | 營運期間 | 營運期間 | 營運期間 | 觀測日期 | 111/10/28 | 112/11/01 | 113/11/15 | 114/11/20 | 點號 | CP3A 控制點 高程(m) | CP3A 控制點 高程(m) | CP3A 控制點 高程(m) | CP3A 控制點 高程(m) | A1 | 5.74966 | 5.74594 | 5.74754 | 5.75016 | A2 | 5.74726 | 5.74584 | 5.74484 | 5.75016 | A3 | 5.74575 | 5.74400 | 5.74911 | 5.74552 | A4 | 5.74805 | 5.74850 | 5.74951 | 5.75132 | A5 | 5.74535 | 5.74620 | 5.74931 | 5.74862 | A6 | 5.74505 | 5.74860 | 5.75041 | 5.74912 | A7 | 5.74994 | 5.74931 | 5.75344 | 5.75057 | A8 | 5.74914 | 5.74811 | 5.75304 | 5.75367 |
| 觀測期間 | 營運期間 | 營運期間 | 營運期間 | 營運期間 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 觀測日期 | 111/10/28 | 112/11/01 | 113/11/15 | 114/11/20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 點號 | CP3A 控制點 高程(m) | CP3A 控制點 高程(m) | CP3A 控制點 高程(m) | CP3A 控制點 高程(m) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A1 | 5.74966 | 5.74594 | 5.74754 | 5.75016 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A2 | 5.74726 | 5.74584 | 5.74484 | 5.75016 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A3 | 5.74575 | 5.74400 | 5.74911 | 5.74552 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A4 | 5.74805 | 5.74850 | 5.74951 | 5.75132 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A5 | 5.74535 | 5.74620 | 5.74931 | 5.74862 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A6 | 5.74505 | 5.74860 | 5.75041 | 5.74912 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A7 | 5.74994 | 5.74931 | 5.75344 | 5.75057 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A8 | 5.74914 | 5.74811 | 5.75304 | 5.75367 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>監測超過環評承諾值或法規標準時之採行對策及成效(異常狀況處理)</p> | <p>本季台中廠下風處(A2)O3最大8小時平均值大於標準值，由於夏季為颱風好發季節，在雲雨帶影響台灣之前，其背風面的沉降作用，則使大氣擴散能力不佳，且夏季高溫和充足的陽光是臭氧生成的重要條件，故臭氧污染在夏季更為突出，皆為易累積高濃度臭氧污染非受台中廠影響，其餘各測項測值均符合，未來將持續監測。</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

26 吋陸管

| <p>(一)空氣品質：</p> <p>1.監測區位：烏溪隔離站</p> <p>2.監測項目：懸浮微粒(TSP、PM₁₀及PM_{2.5})、NO_x、O₃、CO、THC(CH₄、NMHC)、SO₂、風向、風速、溫度、溼度</p> <p>3.監測頻率：每季一次。</p> | <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">項目</th> <th rowspan="2">單位</th> <th colspan="2">營運期間第 22 次(114.10~114.12)</th> </tr> <tr> <th>執行日期：</th> <th>114.11.27~28</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td>執行單位：</td> <td>亞太環境科技股份有限公司</td> </tr> <tr> <td></td> <td></td> <td>計畫場址：</td> <td>二期計畫陸管營運期間環境監測(計畫陸管部份)</td> </tr> <tr> <td></td> <td></td> <td>監測區位標準</td> <td>烏溪隔離站</td> </tr> <tr> <td>總懸浮微粒(TSP)</td> <td>µg/m³</td> <td>—</td> <td>80</td> </tr> <tr> <td>懸浮微粒(PM₁₀)</td> <td>µg/m³</td> <td>75</td> <td>42</td> </tr> <tr> <td>細懸浮微粒(PM_{2.5})</td> <td>µg/m³</td> <td>30</td> <td>15</td> </tr> <tr> <td>NO₂ 最大小時平均值</td> <td>ppm</td> <td>0.100</td> <td>0.017</td> </tr> <tr> <td>NO₂ 日平均值</td> <td>ppm</td> <td>—</td> <td>0.011</td> </tr> <tr> <td>O₃ 最大小時平均值</td> <td>ppm</td> <td>0.100</td> <td>0.049</td> </tr> <tr> <td>O₃ 最大 8 小時平均值</td> <td>ppm</td> <td>0.060</td> <td>0.045</td> </tr> <tr> <td>CO 最大小時平均值</td> <td>ppm</td> <td>31</td> <td>0.5</td> </tr> <tr> <td>CO 最大 8 小時平均值</td> <td>ppm</td> <td>9</td> <td>0.4</td> </tr> <tr> <td>THC 最大小時平均值</td> <td>ppm</td> <td>—</td> <td>2.41</td> </tr> <tr> <td>THC 日平均值</td> <td>ppm</td> <td>—</td> <td>2.34</td> </tr> <tr> <td>CH₄ 最大小時平均值</td> <td>ppm</td> <td>—</td> <td>2.09</td> </tr> <tr> <td>CH₄ 日平均值</td> <td>ppm</td> <td>—</td> <td>2.03</td> </tr> <tr> <td>NMHC 最大小時平均值</td> <td>ppm</td> <td>—</td> <td>0.36</td> </tr> <tr> <td>NMHC 日平均值</td> <td>ppm</td> <td>—</td> <td>0.31</td> </tr> <tr> <td>SO₂ 最大小時平均值</td> <td>ppm</td> <td>0.065</td> <td>0.001</td> </tr> <tr> <td>SO₂ 日平均值</td> <td>ppm</td> <td>—</td> <td>0.001</td> </tr> <tr> <td>氣象(風向)</td> <td></td> <td>—</td> <td>靜風</td> </tr> <tr> <td>氣象(風速)</td> <td>m/s</td> <td>—</td> <td>0.1</td> </tr> <tr> <td>氣象(溫度)</td> <td>°C</td> <td>—</td> <td>21.2</td> </tr> <tr> <td>氣象(溼度)</td> <td>%</td> <td>—</td> <td>72.8</td> </tr> <tr> <td colspan="2" style="text-align: center;">備註：</td> <td colspan="2">本次烏溪隔離站之空氣品質監測結果均符合空氣品質標準，未來將持續監測留意變化趨勢。</td> </tr> </tbody> </table> | 項目 | 單位 | 營運期間第 22 次(114.10~114.12) | | 執行日期： | 114.11.27~28 | | | 執行單位： | 亞太環境科技股份有限公司 | | | 計畫場址： | 二期計畫陸管營運期間環境監測(計畫陸管部份) | | | 監測區位標準 | 烏溪隔離站 | 總懸浮微粒(TSP) | µg/m ³ | — | 80 | 懸浮微粒(PM ₁₀) | µg/m ³ | 75 | 42 | 細懸浮微粒(PM _{2.5}) | µg/m ³ | 30 | 15 | NO ₂ 最大小時平均值 | ppm | 0.100 | 0.017 | NO ₂ 日平均值 | ppm | — | 0.011 | O ₃ 最大小時平均值 | ppm | 0.100 | 0.049 | O ₃ 最大 8 小時平均值 | ppm | 0.060 | 0.045 | CO 最大小時平均值 | ppm | 31 | 0.5 | CO 最大 8 小時平均值 | ppm | 9 | 0.4 | THC 最大小時平均值 | ppm | — | 2.41 | THC 日平均值 | ppm | — | 2.34 | CH ₄ 最大小時平均值 | ppm | — | 2.09 | CH ₄ 日平均值 | ppm | — | 2.03 | NMHC 最大小時平均值 | ppm | — | 0.36 | NMHC 日平均值 | ppm | — | 0.31 | SO ₂ 最大小時平均值 | ppm | 0.065 | 0.001 | SO ₂ 日平均值 | ppm | — | 0.001 | 氣象(風向) | | — | 靜風 | 氣象(風速) | m/s | — | 0.1 | 氣象(溫度) | °C | — | 21.2 | 氣象(溼度) | % | — | 72.8 | 備註： | | 本次烏溪隔離站之空氣品質監測結果均符合空氣品質標準，未來將持續監測留意變化趨勢。 | |
|--|--|--|------------------------|---------------------------|--|-------|--------------|--|--|-------|--------------|--|--|-------|------------------------|--|--|--------|-------|------------|-------------------|---|----|-------------------------|-------------------|----|----|---------------------------|-------------------|----|----|-------------------------|-----|-------|-------|----------------------|-----|---|-------|------------------------|-----|-------|-------|---------------------------|-----|-------|-------|------------|-----|----|-----|---------------|-----|---|-----|-------------|-----|---|------|----------|-----|---|------|-------------------------|-----|---|------|----------------------|-----|---|------|--------------|-----|---|------|-----------|-----|---|------|-------------------------|-----|-------|-------|----------------------|-----|---|-------|--------|--|---|----|--------|-----|---|-----|--------|----|---|------|--------|---|---|------|------------|--|--|--|
| 項目 | 單位 | | | 營運期間第 22 次(114.10~114.12) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 執行日期： | 114.11.27~28 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 執行單位： | 亞太環境科技股份有限公司 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 計畫場址： | 二期計畫陸管營運期間環境監測(計畫陸管部份) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 監測區位標準 | 烏溪隔離站 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 總懸浮微粒(TSP) | µg/m ³ | — | 80 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 懸浮微粒(PM ₁₀) | µg/m ³ | 75 | 42 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 細懸浮微粒(PM _{2.5}) | µg/m ³ | 30 | 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NO ₂ 最大小時平均值 | ppm | 0.100 | 0.017 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NO ₂ 日平均值 | ppm | — | 0.011 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| O ₃ 最大小時平均值 | ppm | 0.100 | 0.049 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| O ₃ 最大 8 小時平均值 | ppm | 0.060 | 0.045 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CO 最大小時平均值 | ppm | 31 | 0.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CO 最大 8 小時平均值 | ppm | 9 | 0.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| THC 最大小時平均值 | ppm | — | 2.41 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| THC 日平均值 | ppm | — | 2.34 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CH ₄ 最大小時平均值 | ppm | — | 2.09 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CH ₄ 日平均值 | ppm | — | 2.03 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NMHC 最大小時平均值 | ppm | — | 0.36 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NMHC 日平均值 | ppm | — | 0.31 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SO ₂ 最大小時平均值 | ppm | 0.065 | 0.001 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SO ₂ 日平均值 | ppm | — | 0.001 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 氣象(風向) | | — | 靜風 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 氣象(風速) | m/s | — | 0.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 氣象(溫度) | °C | — | 21.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 氣象(溼度) | % | — | 72.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 備註： | | 本次烏溪隔離站之空氣品質監測結果均符合空氣品質標準，未來將持續監測留意變化趨勢。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>(二)陸域生態：</p> <p>1.監測區位：計畫陸管沿線周邊 1 公里範圍內、大肚溪口野生動物保護區</p> <p>2.監測項目：植物、鳥類、哺乳類、兩棲類、爬蟲類、蝶類、候鳥</p> <p>3.監測頻率：營運期間除候鳥為營運期間每年 9 月至隔年 4 月，每月 1 次外，其餘每季 1 次。</p> | <p>一、陸域植物生態：本季調查共紀錄維管束植物67科151屬179種。經調查發現在計畫陸管沿線植被組成並無太大差異，均以草生地、建築、農耕地及雜林為主。</p> <p>二、陸域動物生態：</p> <p>1.哺乳類：陸管沿線記錄4科5種27隻次；大肚溪口保護區記錄3科4種17隻次。</p> <p>2.鳥類：陸管沿線記錄23科43種497隻次；大肚溪口保護區記錄25科47種465隻次。</p> <p>3.兩棲類：陸管沿線記錄3科4種22隻次；大肚溪口保護區記錄3科3種13隻次。</p> <p>4.爬蟲類：陸管沿線記錄5科6種20隻次；大肚溪口保護區記錄3科4種15隻次。</p> <p>5.蝴蝶類：陸管沿線記錄5科8亞科17種81隻次；大肚溪口保護區記錄5科8亞科13種53隻次。</p> <p>6.候鳥：共記錄9科15種430隻次。其它應予保育之保育類1種(紅尾伯勞)。</p> <p>7.保育類物種：營運期第 22 季(114/11)陸管沿線監測記錄 2 種珍貴稀有之保育類(黑翅鳶、八哥)，1 種其他應予保育之保育類(紅尾伯勞)。營運期第 22 季(114/11)大肚溪口監測記錄 2 種珍貴稀有之保育類(黑翅鳶、八哥)，1 種其他應予保育之保育類(紅尾伯勞)。</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| 環 計 | 境 畫 | 監 摘 | 測 要 | 辦 理 情 形 | | | | | | |
|--------|--------|--------|--------|------------------|-------|------|------|--|--|-------------------|
| | | | | 項目 | 單位 | 上限值 | 下限值 | 港區管線距岸邊 約 1/3 處上方 | 港區管線距岸邊 約 2/3 處上方 | 方法偵測 極限 MDL |
| | | | | 一溴二氯甲烷 | mg/kg | — | | <0.05 | <0.05 | 0.050 |
| | | | | 三溴甲烷(溴仿) | mg/kg | — | | <0.05 | <0.05 | 0.050 |
| | | | | 溴甲烷 | mg/kg | — | | <0.05 | <0.05 | 0.050 |
| | | | | 四氯化碳 | mg/kg | — | | ND | ND | 0.025 |
| | | | | 氯苯 | mg/kg | — | | ND | ND | 0.023 |
| | | | | 氯乙烷 | mg/kg | — | | <0.05 | <0.05 | 0.050 |
| | | | | 氯仿 | mg/kg | — | | ND | ND | 0.025 |
| | | | | 氯甲烷 | mg/kg | — | | <0.05 | <0.05 | 0.024 |
| | | | | 順-1,2-二氯乙烯 | mg/kg | — | | ND | ND | 0.025 |
| | | | | 順-1,3-二氯丙烯 | mg/kg | — | | <0.05 | <0.05 | 0.050 |
| | | | | 二溴一氯甲烷 | mg/kg | — | | <0.05 | <0.05 | 0.050 |
| | | | | 二溴甲烷 | mg/kg | — | | <0.05 | <0.05 | 0.050 |
| | | | | 二氯一溴甲烷 | mg/kg | — | | <0.05 | <0.05 | 0.050 |
| | | | | 二氯二氣甲烷 | mg/kg | — | | <0.05 | <0.05 | 0.050 |
| | | | | 乙苯 | mg/kg | — | | ND | ND | 0.022 |
| | | | | 六氯丁二烯 | mg/kg | — | | <0.05 | <0.05 | 0.023 |
| | | | | 異丙基苯 | mg/kg | — | | <0.05 | <0.05 | 0.050 |
| | | | | 間,對-二甲苯 | mg/kg | — | | ND | ND | 0.049 |
| | | | | 甲基第三丁基醚 | mg/kg | — | | <0.05 | <0.05 | 0.050 |
| | | | | 二氯甲烷 | mg/kg | — | | <0.05 | <0.05 | 0.050 |
| | | | | 正丁基苯 | mg/kg | — | | <0.05 | <0.05 | 0.050 |
| | | | | 丙基苯 | mg/kg | — | | <0.05 | <0.05 | 0.050 |
| | | | | 鄰-二甲苯 | mg/kg | — | | ND | ND | 0.024 |
| | | | | 4-異丙基甲苯 | mg/kg | — | | <0.05 | <0.05 | 0.050 |
| | | | | 1-甲基-丙基苯 | mg/kg | — | | <0.05 | <0.05 | 0.050 |
| | | | | 苯乙烯 | mg/kg | — | | <0.05 | <0.05 | 0.050 |
| | | | | 1,1-二甲基-乙基苯 | mg/kg | — | | <0.05 | <0.05 | 0.050 |
| | | | | 四氯乙烯 | mg/kg | — | | ND | ND | 0.023 |
| | | | | 甲苯 | mg/kg | — | | ND | ND | 0.025 |
| | | | | 反-1,2-二氯乙烯 | mg/kg | — | | ND | ND | 0.025 |
| | | | | 反-1,3-二氯丙烯 | mg/kg | — | | <0.05 | <0.05 | 0.050 |
| | | | | 三氯乙烯 | mg/kg | — | | ND | ND | 0.023 |
| | | | | 三氯一氣甲烷 | mg/kg | — | | <0.05 | <0.05 | 0.050 |
| | | | | 氯乙烯 | mg/kg | — | | ND | ND | 0.024 |
| | | | | | | | | | | |
| | | | | 半揮發性有機物 | | | | | | |
| | | | | 項目 | 單位 | 上限值 | 下限值 | 港區管線距岸邊 約 1/3 處上方 | 港區管線距岸邊 約 2/3 處上方 | 方法偵測 極限 MDL |
| | | | | | 座標 | | | WGS-84 : 120.49969296 24.25003816 TWD-97 : 199196.362m 2682805.692m | WGS-84 : 120.50283445 24.25070729 TWD-97 : 199515.634m 2682878.660m | |
| | | | | 1,2-二氯苯 | mg/kg | 12.2 | 0.68 | ND | ND | 0.025 |
| | | | | 1,3-二氯苯 | mg/kg | 30.0 | 3.40 | ND | ND | 0.024 |
| | | | | 萘 | mg/kg | 0.27 | 0.04 | ND | ND | 0.002 |
| | | | | 萘烯 | mg/kg | 0.42 | 0.04 | ND | ND | 0.0023 |
| | | | | 蒽 | mg/kg | 0.80 | 0.08 | ND | <0.010 | 0.0026 |
| | | | | 苯(a)駢蒽 | mg/kg | 1.21 | 0.14 | 0.014 | 0.032 | 0.0029 |
| | | | | 苯(a)駢芘 | mg/kg | 1.34 | 0.16 | 0.014 | 0.030 | 0.0035 |
| | | | | 苯(b)駢芘 | mg/kg | 3.03 | 0.32 | 0.022 | 0.045 | 0.0035 |

| 環 計 | 境 畫 | 監 摘 | 測 要 | 辦 理 情 形 | | | | | | |
|--------|--------|--------|--------|-------------------------|--|------|------|--------|--------|--------|
| | | | | | | | | | | |
| | | | | 苯(g,h,i)芘 | mg/kg | 1.28 | 0.15 | 0.015 | 0.027 | 0.0036 |
| | | | | 苯(k)苯駢芘 | mg/kg | 1.40 | 0.16 | <0.010 | 0.014 | 0.0032 |
| | | | | 鄰苯二甲酸二(2-乙基己基)酯(DEHP) | mg/kg | 19.7 | 1.97 | <0.200 | 0.669 | 0.0388 |
| | | | | 鄰苯二甲酸丁酯苯甲酯(BBP) | mg/kg | 300 | 22.0 | ND | ND | 0.0294 |
| | | | | 蒽 Chrysene | mg/kg | 1.73 | 0.19 | 0.017 | 0.035 | 0.0032 |
| | | | | 二苯(a,h)駢萸 | mg/kg | 0.26 | 0.04 | ND | <0.010 | 0.0035 |
| | | | | 鄰苯二甲酸二乙酯(DEP) | mg/kg | 22.0 | 1.26 | ND | ND | 0.0297 |
| | | | | 鄰苯二甲酸二丁酯(DBP) | mg/kg | 160 | 22.0 | ND | ND | 0.0337 |
| | | | | 苯駢芘 | mg/kg | 2.86 | 0.29 | 0.024 | 0.061 | 0.028 |
| | | | | 芴 | mg/kg | 0.26 | 0.04 | ND | ND | 0.0035 |
| | | | | 六氯苯 | mg/kg | 1.85 | 0.19 | ND | ND | 0.0028 |
| | | | | 蒽(1,2,3-cd)芘 | mg/kg | 1.23 | 0.16 | 0.011 | 0.023 | 0.0038 |
| | | | | 萘 | mg/kg | 0.55 | 0.07 | <0.010 | <0.010 | 0.0024 |
| | | | | 菲 | mg/kg | 1.12 | 0.15 | 0.014 | 0.030 | 0.0026 |
| | | | | 芘 | mg/kg | 2.41 | 0.29 | 0.025 | 0.064 | 0.0029 |
| | | | | 備註： | 本次港區管線距岸邊約 1/3 及 2/3 處上方之監測結果均符合底泥品質指標之上、下限值，未來將持續監測留意變化趨勢。 | | | | | |
| (五)、 | 監測 | 超過 | 環評 | 承諾 | 二期計畫陸管營運期間環境監測：本次為營運期間第 22 次(114.10~114.12)環境調查，本次調查結果：烏溪隔離站之空氣品質監測結果均符合空氣品質標準，未來將持續監測留意變化趨勢。海域底質均符合底泥品質指標之上、下限值，陸域生態及水域生態則無營運期間作業造成之異常情形，將持續監測。 | | | | | |
| | | | | 值或法規標準時之採行對策及成效(異常狀況處理) | | | | | | |