

## ALS Landfill Emissions Report

Client: Wollongong City Council

Date: 18/10/2021

Site: Whytes Gully

Sampler(s) Robert & Megan

| Transact / Location | Point | GPS North | GPS East | CH4 Conc (ppm) | Comments  |
|---------------------|-------|-----------|----------|----------------|-----------|
| 1                   | 1     |           |          |                | No Access |
| 2                   | 1     | 6184 115  | 298 145  | 1.5            |           |
| 2                   | 2     | 6184 128  | 298 138  | 2.3            |           |
| 2                   | 3     | 6184 141  | 298 131  | 8.3            |           |
| 2                   | 4     | 6184 151  | 298 128  | 6.9            |           |
| 3                   | 1     | 6184 128  | 298 160  | 10.4           |           |
| 3                   | 2     | 6184 138  | 298 158  | 5.9            |           |
| 3                   | 3     | 6184 152  | 298 153  | 7.9            |           |
| 3                   | 4     | 6184 165  | 298 149  | 5.4            |           |
| 3                   | 5     | 6184 174  | 298 147  | 16.6           |           |
| 4                   | 1     | 6184 180  | 298 161  | 6.6            |           |
| 4                   | 2     | 6184 168  | 298 166  | 4.2            |           |
| 4                   | 3     | 6184 151  | 298 172  | 2.4            |           |
| 4                   | 4     | 6184 140  | 298 177  | 1.9            |           |

|   |   |          |         |      |
|---|---|----------|---------|------|
| 5 | 1 | 6184 194 | 298 171 | 2.1  |
| 5 | 2 | 6184 176 | 298 185 | 0.9  |
| 5 | 3 | 6184 168 | 298 190 | 1.2  |
| 5 | 4 | 6184 151 | 298 199 | 12.3 |
| 5 | 5 | 6184 140 | 298 202 | 2.2  |
|   |   |          |         |      |
| 6 | 1 | 6184 133 | 298 215 | 2.5  |
| 6 | 2 | 6184 149 | 298 209 | 13.1 |
| 6 | 3 | 6184 164 | 298 204 | 3.3  |
| 6 | 4 | 6184 183 | 298 197 | 5.3  |
| 6 | 5 | 6184 201 | 298 190 | 5.6  |
| 6 | 6 | 6184 212 | 298 186 | 11.5 |
| 6 | 7 | 6184 359 | 298 083 | 10.2 |
|   |   |          |         |      |
| 7 | 1 | 6184 229 | 298 203 | 86.9 |
| 7 | 2 | 6184 219 | 298 210 | 9.9  |
| 7 | 3 | 6184 208 | 298 214 | 22.3 |
| 7 | 4 | 6184 197 | 298 215 | 3.1  |
| 7 | 5 | 6184 175 | 298 224 | 17.8 |
| 7 | 6 | 6184 168 | 298 227 | 19.6 |
|   |   |          |         |      |
| 8 | 1 | 6184 181 | 298 237 | 16.1 |
| 8 | 2 | 6184 195 | 298 233 | 11.2 |
| 8 | 3 | 6184 204 | 298 225 | 17.1 |
| 8 | 4 | 6184 218 | 298 221 | 16.9 |

|    |    |          |         |      |           |
|----|----|----------|---------|------|-----------|
| 8  | 5  | 6184 238 | 298 217 | 18.3 |           |
|    |    |          |         |      |           |
| 9  | 1  |          |         |      | NO ACCESS |
|    |    |          |         |      |           |
| 10 | 1  | 6184 503 | 298 235 | 2.9  |           |
| 10 | 2  | 6184 496 | 298 290 | 2.9  |           |
| 10 | 3  | 6184 493 | 298 230 | 2.2  |           |
| 10 | 4  | 6184 480 | 298 355 | 1.4  |           |
| 10 | 5  | 6184 454 | 298 352 | 6.5  |           |
| 10 | 6  | 6184 403 | 298 364 | 3.5  |           |
| 10 | 7  | 6184 348 | 298 351 | 47.7 |           |
| 10 | 8  | 6184 302 | 298 332 | 1.6  |           |
| 10 | 9  | 6184 257 | 298 306 | 2.8  |           |
| 10 | 10 | 6184 277 | 298 277 | 15.9 |           |
| 10 | 11 | 6184 319 | 298 266 | 3.4  |           |
| 10 | 12 | 6184 361 | 298 262 | 2.5  |           |
| 10 | 13 | 6184 367 | 298 276 | 3.4  |           |
|    |    |          |         |      |           |
| 11 | 1  | 6184 246 | 298 265 | 1.1  |           |
| 11 | 2  | 6184 276 | 298 239 | 5.7  |           |
| 11 | 3  | 6184 296 | 298 228 | 45.8 |           |
| 11 | 4  | 6184 316 | 298 205 | 16.8 |           |
| 11 | 5  | 6184 332 | 298 194 | 6.8  |           |
| 11 | 6  | 6184 355 | 298 201 | 14.2 |           |
| 11 | 7  | 6184 365 | 298 219 | 8.8  |           |

|    |   |          |         |      |           |
|----|---|----------|---------|------|-----------|
| 11 | 8 | 6184 350 | 298 224 | 20.6 |           |
| 12 | 1 | 6184 268 | 298 175 | 10.3 |           |
| 12 | 2 | 6184 267 | 298 154 | 11.5 |           |
| 12 | 3 | 6184 273 | 298 134 | 15.1 |           |
| 12 | 4 | 6184 299 | 298 121 | 24.2 |           |
| 12 | 5 | 6184 322 | 298 112 | 12.5 |           |
| 12 | 6 | 6184 365 | 298 109 | 31.8 |           |
| 12 | 7 | 6184 371 | 298 103 | 92.7 |           |
| 12 | 8 | 6184 381 | 298 093 | 1.7  |           |
|    |   |          |         |      |           |
| A  | 1 | 6184 301 | 297 717 | 1.3  |           |
| A  | 2 | 6184 303 | 297 696 | 7.2  |           |
| A  | 3 | 6184 305 | 297 680 | 1.3  |           |
| A  | 4 | 6184 307 | 297 663 | 1.3  |           |
| A  | 5 | 6184 310 | 297 641 | 1.2  |           |
|    |   |          |         |      |           |
| B  | 1 |          |         |      | NO ACCESS |
|    |   |          |         |      |           |
| C  | 1 | 6184 333 | 297 653 | 1.3  |           |
| C  | 2 | 6184 342 | 297 679 | 1.3  |           |
| C  | 3 | 6184 356 | 297 716 | 1.1  |           |
| C  | 4 | 6184 352 | 297 759 | 1.1  |           |
| C  | 5 | 6184 341 | 297 815 | 1.1  |           |
| C  | 6 | 6184 337 | 297 868 | 5.2  |           |

|   |   |          |         |      |              |
|---|---|----------|---------|------|--------------|
| C | 7 | 6184 343 | 297 904 | 31.3 |              |
| C | 8 | 6184 374 | 298 951 | 15.6 |              |
|   |   |          |         |      |              |
| D | 1 | 6184 387 | 297 868 | 3.3  |              |
| D | 2 | 6184 385 | 297 847 | 5.1  |              |
| D | 3 | 6184 383 | 297 827 | 11.8 |              |
| D | 4 | 6184 378 | 297 808 | 5.9  |              |
| D | 5 | 6184 374 | 297 783 | 9.1  |              |
| D | 6 | 6184 370 | 297 758 | 2.3  |              |
|   |   |          |         |      |              |
| E | 1 | 6184 404 | 297 796 | 4.0  |              |
| E | 2 | 6184 404 | 297 821 | 6.1  |              |
| E | 3 | 6184 405 | 297 838 | 3.9  |              |
| E | 4 | 6184 405 | 297 857 | 8.5  |              |
| E | 5 | 6184 408 | 297 874 | 9.1  | Methane Cage |
| E | 6 | 6184 409 | 297 889 | 7.6  |              |
| E | 7 | 6184 408 | 297 916 | 7.3  |              |
|   |   |          |         |      |              |
| F | 1 | 6184 435 | 297 961 | 1.6  |              |
| F | 2 | 6184 437 | 297 923 | 1.5  |              |
| F | 3 | 6184 438 | 297 888 | 1.3  |              |
| F | 4 | 6184 437 | 297 859 | 1.4  |              |
| F | 5 | 6184 432 | 297 821 | 7.2  |              |
| F | 6 | 6184 426 | 297 794 | 1.9  |              |
| F | 7 | 6184 420 | 297 766 | 3.3  |              |

|   |   |          |         |     |              |
|---|---|----------|---------|-----|--------------|
| F | 8 | 6184 409 | 297 734 | 3.3 | Methane Cage |
|   |   |          |         |     |              |
| G | 1 | 6184 450 | 297 805 | 1.2 |              |
| G | 2 | 6184 459 | 297 829 | 1.2 |              |
| G | 3 | 6184 468 | 297 863 | 3.7 |              |
| G | 4 | 6184 468 | 297 889 | 7.8 | Methane Cage |
| G | 5 | 6184 463 | 297 912 | 1.6 |              |
| G | 6 | 6184 457 | 297 940 | 1.4 |              |
| G | 7 | 6184 446 | 297 969 | 1.6 |              |
|   |   |          |         |     |              |
| H | 1 | 6184 457 | 298 016 | 3.9 |              |
| H | 2 | 6184 462 | 297 995 | 2.0 |              |
| H | 3 | 6184 468 | 297 968 | 2.2 |              |
| H | 4 | 6184 472 | 297 945 | 1.5 | Methane Cage |
| H | 5 | 6184 479 | 297 895 | 1.8 |              |
| H | 6 | 6184 484 | 297 842 | 1.6 | Methane Cage |
|   |   |          |         |     |              |
| I | 1 | 6184 494 | 297 804 | 8.4 |              |
| I | 2 | 6184 495 | 297 836 | 1.9 |              |
| I | 3 | 6184 493 | 297 864 | 1.9 |              |
| I | 4 | 6184 491 | 297 908 | 2.7 |              |
| I | 5 | 6184 481 | 297 962 | 1.7 |              |
| I | 6 | 6184 466 | 298 019 | 2.6 |              |
|   |   |          |         |     |              |
| J | 1 | 6184 513 | 298 011 | 1.2 |              |

|   |   |          |         |      |  |
|---|---|----------|---------|------|--|
| J | 2 | 6184 511 | 297 987 | 1.3  |  |
| J | 3 | 6184 515 | 297 965 | 1.4  |  |
| J | 4 | 6184 521 | 297 934 | 1.4  |  |
| J | 5 | 6184 526 | 297 912 | 1.4  |  |
| J | 6 | 6184 528 | 297 894 | 1.5  |  |
|   |   |          |         |      |  |
| K | 1 | 6184 574 | 297 903 | 1.2  |  |
| K | 2 | 6184 575 | 297 929 | 1.4  |  |
| K | 3 | 6184 575 | 297 945 | 1.2  |  |
| K | 4 | 6184 573 | 297 961 | 0.8  |  |
| K | 5 | 6184 568 | 297 985 | 0.8  |  |
| K | 6 | 6184 564 | 298 011 | 1.2  |  |
|   |   |          |         |      |  |
| L | 1 | 6184 578 | 298 021 | 0.8  |  |
| L | 2 | 6184 580 | 298 004 | 9.8  |  |
| L | 3 | 6184 582 | 297 984 | 9.9  |  |
| L | 4 | 6184 588 | 297 951 | 6.0  |  |
| L | 5 | 6184 587 | 297 937 | 96.3 |  |
| L | 6 | 6184 582 | 297 918 | 1.2  |  |
|   |   |          |         |      |  |
| M | 1 | 6184 593 | 297 932 | 3.0  |  |
| M | 2 | 6184 593 | 297 957 | 73.2 |  |
| M | 3 | 6184 590 | 297 974 | 1.2  |  |
| M | 4 | 6184 591 | 297 987 | 1.6  |  |
| M | 5 | 6184 591 | 297 800 | 9.4  |  |

|                              |              |   |          |         |     |   |
|------------------------------|--------------|---|----------|---------|-----|---|
| M                            |              | 6 | 6184 594 | 298 017 | 1.4 |   |
|                              |              |   |          |         |     |   |
| N                            |              | 1 | 6184 594 | 298 040 | 1.6 |   |
| N                            |              | 2 | 6184 615 | 297 035 | 4.6 |   |
| N                            |              | 3 | 6184 614 | 297 014 | 2.0 |   |
| N                            |              | 4 | 6184 610 | 297 991 | 2.2 |   |
| N                            |              | 5 | 6184 605 | 297 954 | 2.5 |   |
| N                            |              | 6 | 6184 589 | 297 920 | 2.6 |   |
|                              |              |   |          |         |     |   |
| SWERF                        |              | 1 | 6183 995 | 297 994 | 0.9 |   |
| SWERF                        |              | 2 | 6184 011 | 297 961 | 1.0 |   |
|                              |              |   |          |         |     |   |
| Weighbridge                  |              | 1 | 6184 042 | 297 748 | 1.1 |   |
|                              |              |   |          |         |     |   |
| Crib Room                    |              | 1 | 6184 168 | 297 974 | 1.7 |   |
| Ops Office                   |              | 1 | 6184 168 | 297 974 | 2.0 |   |
|                              |              |   |          |         |     |   |
| Recycle Centre               | Eastern Area |   |          |         | 1.0 |   |
| Recycle Centre               | Western Area |   |          |         | 1.1 |   |
|                              |              |   |          |         |     |   |
| Methane Blank (Pre testing ) |              | 1 |          |         | 1.0 | Taken at entrance to Whytes Gully site before main gate |



|   |                     |          |         |     |   |
|---|---------------------|----------|---------|-----|---|
| Methane Blank (Post testing )                 | 1                   |          |         | 1.1 | Taken at entrance to Whytes Gully site before main gate |
|   |                     |          |         |     |   |
| GlennGary Cottage                             | Managers Office     | 6183 896 | 297 954 | 0.9 |   |
| GlennGary Cottage                             | Front Office        | 6183 896 | 297 954 | 0.9 |   |
| GlennGary Cottage                             | Meeting Room        | 6183 896 | 297 954 | 1.2 |   |
| GlennGary Cottage                             | Operations Room     | 6183 896 | 297 954 | 1.1 |   |
| GlennGary Cottage                             | Kitchen             | 6183 896 | 297 954 | 1.2 |   |
| GlennGary Cottage                             | Hallway             | 6183 896 | 297 954 | 1.1 |   |
| GlennGary Cottage                             | Store               | 6183 896 | 297 954 | 1.1 |   |
| GlennGary Cottage                             | Max reading gardens |          |         | 0.9 |   |
|   |                     |          |         |     |   |
| 181 Reddalls Rd, fenceline adjoining landfill | 1                   | 6184 607 | 297846  | 1.4 |   |
| 181 Reddalls Rd, Immediate gardens max value  | 2                   | 6184 600 | 297800  | 1.5 |   |
| 181 Reddalls Rd, fenceline adjoining landfill | 3                   | 6184 580 | 297760  | 1.6 |   |
| 181 Reddalls Rd, Immediate gardens max value  | 4                   | 6184 764 | 297735  | 1.6 |   |
| 181 Reddalls Rd, fenceline adjoining landfill | 5                   | 6184 520 | 297698  | 1.7 |   |
| 181 Reddalls Rd, Immediate gardens max value  | 6                   | 6184 529 | 297650  | 1.5 |   |
| 181 Reddalls Rd, fenceline adjoining landfill | 7                   | 6184 500 | 297640  | 1.4 |   |
| 181 Reddalls Rd, fenceline adjoining landfill | 8                   | 6184 500 | 297600  | 1.4 |   |

|   |   |          |         |     |  |
|---|---|----------|---------|-----|--|
| 181 Reddalls Rd, Immediate gardens max value  | 1 |          |         | 1.5 |  |
|   |   |          |         |     |  |
| Lot 1 Farborough Rd, fenceline adjoining landfill   | 1 | 6184 554 | 298 380 | 1.5 |  |
| Lot 1 Farborough Rd, fenceline adjoining landfill   | 2 | 6184 544 | 298 337 | 1.6 |  |
| Lot 1 Farborough Rd, fenceline adjoining landfill   | 3 | 6184 552 | 298 284 | 1.6 |  |
| Lot 1 Farborough Rd, fenceline adjoining landfill   | 4 | 6184 591 | 298 231 | 1.4 |  |
| Lot 1 Farborough Rd, fenceline adjoining landfill   | 5 | 6184 613 | 298 178 | 1.2 |  |
| Lot 1 Farborough Rd, fenceline adjoining landfill   | 6 | 6184 634 | 298 138 | 1.5 |  |
| Lot 1 Farborough Rd, fenceline adjoining landfill   | 7 | 6184 500 | 298 640 | 1.3 |  |
| Lot 1 Farborough Rd, fenceline adjoining landfill   | 8 | 6184 500 | 298 600 | 1.6 |  |
|   |   |          |         |     |  |
| Comments:   |   |          |         |     |  |
| <p>Sampling performed in accordance to EPA Environmental Guidelines Solid Waste Landfills, Second Edition, 2016<br/> Gas concentrations are reported as raw values without correction for background concentration.</p> |   |          |         |     |  |

