

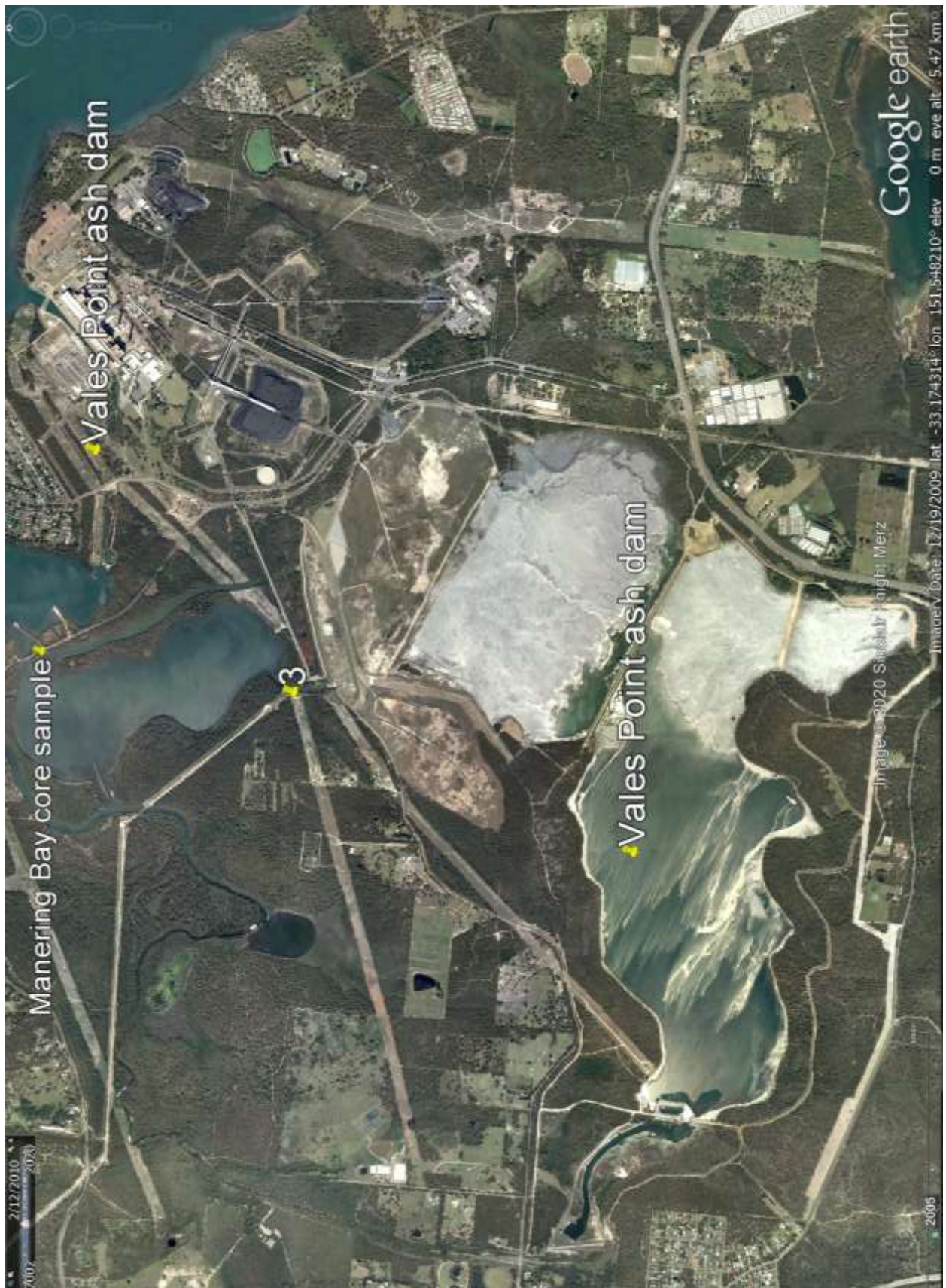
# Eraring

Figure 3. HCEC water sampling sites at Eraring 2020



## Vales Point

Figure 4. HCEC sample sites at Vales Point 2020



| Sample location  |       | Eraring ash dam overflow<br>Crooked Creek |          |         |          |         |          | Vales Point ash<br>dam seepage |          |         | ANZECC (2000) |         |         | ANZECC<br>(2000)<br>Recreational<br>Use | NHMRC<br>Drinking<br>Water<br>Guidelines |       |
|------------------|-------|---|----------|---------|----------|---------|----------|--------------------------------|----------|---------|---------------|---------|---------|---|--|-------|
|                  |       | 1wt                                       |          | 2wt     |          | 2wd     |          | 3wt                            |          | 99%     |               | 90%     |         |   |  | 80%   |
| Sample ID        | Units | TOTAL                                     | DISOLVED | TOTAL   | DISOLVED | TOTAL   | DISOLVED | TOTAL                          | DISOLVED | Water   | Water         | Water   | Water   |   |  |       |
| Field Prep.      |       | 23/5/20                                   | 23/5/20  | 23/5/20 | 23/5/20  | 23/5/20 | 23/5/20  | 23/5/20                        | 23/5/20  | 23/5/20 | 23/5/20       | 23/5/20 | 23/5/20 |   |  |       |
| Type of sample   |       | Water                                     | Water    | Water   | Water    | Water   | Water    | Water                          | Water    | Water   | Water         | Water   | Water   |   |  |       |
| Date Sampled     |       | 23/5/20                                   | 23/5/20  | 23/5/20 | 23/5/20  | 23/5/20 | 23/5/20  | 23/5/20                        | 23/5/20  | 23/5/20 | 23/5/20       | 23/5/20 | 23/5/20 |   |  |       |
| pH.              |       | 5.9                                       |          | 4.1     |          | 4.5     |          |                                | 7-8.5    |         |               |         |         |   |  |       |
| EC               | uS/CM | >3999                                     |          |         |          |         |          |                                |          |         |               |         |         |   |  |       |
| Metal/metalloid  | Units | QQL                                       |          |         |          |         |          |                                |          |         |               |         |         |   |  |       |
| <b>Aluminium</b> | µg/L  | 10  | 330      | 290     | 16000    | 15000   | 81000    | 75000                          | 200      |         |               |         |         |   |  |       |
| <b>Arsenic</b>   | µg/L  | 1   | 2        | 1       | 8        | 4       | 43       | 43                             | 10       |         |               |         |         |   |  | 10    |
| <b>Boron</b>     | µg/L  | 20  | 1900     | 1900    | 1800     | 1800    | 100      | 100                            | 1,000    |         |               |         |         |   |  | 4,000 |
| Barium           | µg/L  | 1   | 190      | 250     | 100      | 100     | 230      | 200                            | 1,000    |         |               |         |         |   |  |       |
| Cadmium          | µg/L  | 0.1                                       | 0.3      | 0.3     | 0.1      | 0.1     | 0.1      | 0.2                            | 5        |         |               |         |         |   |  | 2     |
| <b>Cobalt</b>    | µg/L  | 1   | 4        | 4       | 18       | 19      | 59       | 60                             | 0.005    | 1       | 14            | 150     |         |   |  |       |
| Chromium         | µg/L  | 1   |          |         | 5        |         |          |                                |          |         |               |         |         |   |  | 50    |
| <b>Copper</b>    | µg/L  | 1   | 2        |         | 3        |         |          |                                | 0.3      | 1.3     | 3             | 8       |         |   |  | 2,000 |
| <b>Iron</b>      | µg/L  | 10  | 11000    | 11000   | 43000    | 6400    | 1700     | 1700                           | 300      |         |               |         |         |   |  |       |
| Lead             | µg/L  | 1   |          |         | 3        |         | 2        | 2                              | 2.2      | 4.4     | 20            | 85      |         |   |  | 10    |
| <b>Manganese</b> | µg/L  | 5   | 1600     | 1900    | 5600     | 5900    | 8600     | 8600                           | 100      |         |               |         |         |   |  | 500   |
| Molybdenum       | µg/L  | 1   | 3        | 2       | 4        |         |          |                                |          |         |               |         |         |   |  |       |
| Mercury          | µg/L  | 0.05                                      |          |         |          |         |          |                                | 0.1      | 0.4     | 0.7           | 1.4     |         |   |  | 1     |
| <b>Nickel</b>    | µg/L  | 1   | 6        | 7       | 21       | 22      | 36       | 36                             | 7        | 7       | 200           | 560     |         |   |  | 20    |
| <b>Selenium</b>  | µg/L  | 1   |          |         | 3        |         |          |                                |          |         |               |         |         |   |  | 10    |
| Thallium         | µg/L  | 1   |          |         |          |         |          |                                |          |         |               |         |         |   |  |       |
| Vanadium         | µg/L  | 1   |          |         | 13       |         |          |                                | 50       | 100     | 160           | 280     |         |   |  |       |
| <b>Zinc</b>      | µg/L  | 1   | 46       | 53      | 49       | 45      | 130      | 130                            | 7        | 15      | 23            | 43      |         |   |  | 5,000 |