





**Appendix C  
Table 2  
Groundwater Analytical Results - September 2019 to June 2020**

|  | Inorganics | Acidity & Alkalinity            |                                   |                                 |                             | Major Ions |           |           |        |          |         | Nutrients         |                     |                    |                                  | Metals             |                    |                              |                   |                 |                    |                   |                 | BTEXN   |         |              |            |                |  |
|--|------------|---------------------------------|-----------------------------------|---------------------------------|-----------------------------|------------|-----------|-----------|--------|----------|---------|-------------------|---------------------|--------------------|----------------------------------|--------------------|--------------------|------------------------------|-------------------|-----------------|--------------------|-------------------|-----------------|---------|---------|--------------|------------|----------------|--|
|  | pH (Lab)   | Alkalinity (Carbonate as CaCO3) | Alkalinity (Bicarbonate as CaCO3) | Alkalinity (Hydroxide as CaCO3) | Alkalinity (total as CaCO3) | Calcium    | Magnesium | Potassium | Sodium | Chloride | Sulfate | Ammonia as N      | Nitrate (as N)      | Nitrite (as N)     | Nitrogen (Total Oxidised) (as N) | Arsenic (Filtered) | Cadmium (Filtered) | Chromium (III+VI) (Filtered) | Copper (Filtered) | Lead (Filtered) | Mercury (Filtered) | Nickel (Filtered) | Zinc (Filtered) | Benzene | Toluene | Ethylbenzene | Xylene (o) | Xylene (m & p) |  |
|  | pH Units   | mg/L                            | mg/L                              | mg/L                            | mg/L                        | mg/L       | mg/L      | mg/L      | mg/L   | mg/L     | mg/L    | mg/L              | mg/L                | mg/L               | mg/L                             | mg/L               | mg/L               | mg/L                         | mg/L              | mg/L            | mg/L               | mg/L              | mg/L            | µg/L    | µg/L    | µg/L         | µg/L       | µg/L           |  |
| EQL  | 0.1        | 10                              | 20                                | 20                              | 20                          | 0.5        | 0.5       | 0.5       | 0.5    | 1        | 2       | 0.01              | 0.02                | 0.02               | 0.05                             | 0.001              | 0.0002             | 0.001                        | 0.001             | 0.001           | 0.0001             | 0.001             | 0.005           | 1       | 1       | 1            | 1          | 2              |  |
| Environmental Trigger Value (RAP GHD, 2011)                        |            |                                 |                                   |                                 |                             |            |           |           |        |          |         | 0.9               |                     |                    | 0.013                            | 0.0121             |                    | 0.0014                       | 1.18              |                 | 0.55               | 0.4               |                 |         |         |              |            |                |  |
| ADWG 2011 Health (v3.5 updated 2018)                               |            |                                 |                                   |                                 |                             |            |           |           |        |          |         | 500 <sup>#2</sup> | 11.29 <sup>#3</sup> | 0.91 <sup>#4</sup> |                                  | 0.01               | 0.002              |                              | 2                 | 0.01            | 0.001              | 0.02              |                 | 1       | 800     | 300          |            |                |  |
| NEPM 2013 Table 1A(4) HSL D Comm/Ind GW for Vapour Intrusion, Sand |            |                                 |                                   |                                 |                             |            |           |           |        |          |         |                   |                     |                    |                                  |                    |                    |                              |                   |                 |                    |                   |                 |         |         |              |            |                |  |
| 2-4m   |            |                                 |                                   |                                 |                             |            |           |           |        |          |         |                   |                     |                    |                                  |                    |                    |                              |                   |                 |                    |                   | 5000            | NL      | NL      |              |            |                |  |
| 4-8m   |            |                                 |                                   |                                 |                             |            |           |           |        |          |         |                   |                     |                    |                                  |                    |                    |                              |                   |                 |                    |                   | 5000            | NL      | NL      |              |            |                |  |

| Location Code | Field ID | Sampled Date Time | Lab Report Number | Sample Type | pH  | Alkalinity (Carbonate as CaCO3) | Alkalinity (Bicarbonate as CaCO3) | Alkalinity (Hydroxide as CaCO3) | Alkalinity (total as CaCO3) | Calcium | Magnesium | Potassium | Sodium | Chloride | Sulfate | Ammonia as N | Nitrate (as N) | Nitrite (as N) | Nitrogen (Total Oxidised) (as N) | Arsenic (Filtered) | Cadmium (Filtered) | Chromium (III+VI) (Filtered) | Copper (Filtered) | Lead (Filtered) | Mercury (Filtered) | Nickel (Filtered) | Zinc (Filtered) | Benzene | Toluene | Ethylbenzene | Xylene (o) | Xylene (m & p) |
|---------------|----------|-------------------|-------------------|-------------|-----|---------------------------------|-----------------------------------|---------------------------------|-----------------------------|---------|-----------|-----------|--------|----------|---------|--------------|----------------|----------------|----------------------------------|--------------------|--------------------|------------------------------|-------------------|-----------------|--------------------|-------------------|-----------------|---------|---------|--------------|------------|----------------|
| MW135         | MW135    | 11/06/2020        | 725231            | Normal      | 6.8 | <10                             | 660                               | <20                             | 660                         | 36      | 370       | 14        | 3200   | 6400     | 770     | 0.12         | 0.15           | <0.02          | 0.15                             | <0.01              | <0.002             | <0.01                        | 0.014             | <0.01           | <0.001             | 0.011             | 1.3             | -       | -       | -            | -          | -              |
| WS-MW1R       | QC01     | 3/12/2019         | 232312            | Interlab_D  | -   | -                               | -                                 | -                               | -                           | -       | -         | -         | -      | -        | -       | 1.3          | -              | -              | -                                | <0.001             | <0.0001            | <0.001                       | <0.001            | <0.001          | <0.00005           | <0.001            | 0.006           | -       | -       | -            | -          | -              |
| WS-MW1R       | WS_MW1R  | 19/03/2020        | 708803            | Normal      | 7   | <10                             | 750                               | <20                             | 750                         | 140     | 650       | 23        | 5000   | 12,000   | 1500    | 1.6          | <0.02          | <0.02          | <0.05                            | <0.001             | <0.0002            | <0.001                       | 0.008             | <0.001          | <0.0001            | 0.003             | 0.032           | -       | -       | -            | -          | -              |
| WS-MW1R       | WS-MW1R  | 3/12/2019         | 691578            | Normal      | 7.7 | <10                             | 830                               | <20                             | 830                         | 140     | 540       | 22        | 3800   | 8100     | 850     | 1.3          | <0.02          | <0.02          | <0.05                            | <0.001             | <0.0002            | <0.001                       | 0.008             | 0.003           | <0.0001            | 0.002             | 0.023           | -       | -       | -            | -          | -              |
| WS-MW1R       | WS-MW1R  | 11/06/2020        | 725231            | Normal      | 7.8 | <10                             | 1300                              | <20                             | 1300                        | 130     | 510       | 21        | 3900   | 7800     | 820     | 0.89         | <0.02          | <0.02          | <0.05                            | <0.01              | <0.002             | <0.01                        | 0.021             | <0.01           | <0.001             | 0.017             | 0.86            | -       | -       | -            | -          | -              |
| WS-MW5        | WS_MW5   | 19/03/2020        | 708803            | Normal      | 7.1 | <10                             | 750                               | <20                             | 750                         | 160     | 690       | 25        | 5400   | 11,000   | 1300    | 2            | <0.02          | <0.02          | <0.05                            | <0.001             | <0.0002            | <0.001                       | 0.002             | <0.001          | <0.0001            | 0.005             | 0.13            | <1      | <1      | <1           | <1         | <2             |
| WS-MW5        | WS-MW5   | 30/09/2019        | 680287            | Normal      | 7.9 | <10                             | 810                               | <20                             | 810                         | 200     | 750       | 29        | 4500   | 8400     | 870     | 2            | <0.02          | <0.02          | <0.05                            | <0.001             | <0.0002            | <0.001                       | 0.007             | <0.001          | <0.0001            | 0.008             | 0.25            | <1      | <1      | <1           | <1         | <2             |
| WS-MW5        | WS-MW5   | 3/12/2019         | 691578            | Normal      | 7.8 | <10                             | 850                               | <20                             | 850                         | 190     | 680       | 27        | 4700   | 8200     | 910     | 2            | <0.02          | <0.02          | <0.05                            | <0.001             | <0.0002            | <0.001                       | 0.007             | 0.002           | <0.0001            | 0.003             | 0.18            | <1      | <1      | <1           | <1         | <2             |
| WS-MW5        | WS-MW5   | 11/06/2020        | 725231            | Normal      | 7.5 | <10                             | 1400                              | <20                             | 1400                        | 150     | 520       | 22        | 4000   | 8300     | 880     | 1.4          | <0.02          | <0.02          | <0.05                            | <0.01              | <0.002             | <0.01                        | <0.01             | <0.01           | <0.001             | 0.018             | 0.32            | <1      | <1      | <1           | <1         | <2             |
| WS-MW6        | WS_MW6   | 19/03/2020        | 708803            | Normal      | 6.9 | <10                             | 460                               | <20                             | 460                         | 86      | 460       | 16        | 3400   | 7000     | 540     | 0.6          | <0.02          | <0.02          | <0.05                            | 0.002              | <0.0002            | <0.001                       | <0.001            | <0.001          | <0.0001            | 0.007             | 0.033           | -       | -       | -            | -          | -              |
| WS-MW6        | WS-MW6   | 30/09/2019        | 680287            | Normal      | 7.3 | <10                             | 420                               | <20                             | 420                         | 84      | 420       | 16        | 3000   | 4700     | 390     | 0.18         | <0.02          | <0.02          | <0.05                            | <0.001             | <0.0002            | <0.001                       | 0.021             | 0.001           | <0.0001            | 0.005             | 0.031           | -       | -       | -            | -          | -              |
| WS-MW6        | WS-MW6   | 3/12/2019         | 691578            | Normal      | 7.7 | <10                             | 540                               | <20                             | 540                         | 90      | 400       | 15        | 2600   | 5700     | 480     | 0.96         | <0.02          | <0.02          | <0.05                            | <0.001             | <0.0002            | <0.001                       | <0.001            | 0.002           | 0.0002             | 0.008             | 0.042           | -       | -       | -            | -          | -              |
| WS-MW6        | WS-MW6   | 11/06/2020        | 725231            | Normal      | 7.3 | <10                             | 660                               | <20                             | 660                         | 70      | 300       | 12        | 2100   | 4200     | 370     | 0.32         | 0.25           | <0.02          | 0.26                             | <0.01              | <0.002             | <0.01                        | 0.011             | <0.01           | <0.001             | 0.019             | 0.13            | -       | -       | -            | -          | -              |
| WS-MW7        | WS_MW7   | 19/03/2020        | 708803            | Normal      | 7   | <10                             | 860                               | <20                             | 860                         | 120     | 500       | 18        | 3800   | 9200     | 1100    | 0.8          | <0.02          | <0.02          | <0.05                            | 0.001              | <0.0002            | <0.001                       | <0.001            | <0.001          | <0.0001            | 0.006             | 0.016           | -       | -       | -            | -          | -              |
| WS-MW7        | WS-MW7   | 30/09/2019        | 680287            | Normal      | 7.7 | <10                             | 980                               | <20                             | 980                         | 160     | 630       | 22        | 4400   | 6600     | 720     | 0.81         | <0.02          | <0.02          | <0.05                            | <0.001             | <0.0002            | <0.001                       | 0.017             | 0.001           | <0.0001            | 0.005             | 0.059           | -       | -       | -            | -          | -              |
| WS-MW7        | WS-MW7   | 3/12/2019         | 691578            | Normal      | 7.4 | <10                             | 1000                              | <20                             | 1000                        | 130     | 490       | 18        | 3200   | 6700     | 770     | 0.81         | <0.02          | <0.02          | <0.05                            | <0.001             | <0.0002            | <0.001                       | 0.006             | 0.002           | <0.0001            | 0.013             | 0.052           | -       | -       | -            | -          | -              |
| WS-MW7        | WS-MW7   | 11/06/2020        | 725231            | Normal      | 7.6 | <10                             | 1300                              | <20                             | 1300                        | 110     | 430       | 17        | 3100   | 6000     | 660     | 0.59         | <0.02          | <0.02          | <0.05                            | <0.01              | <0.002             | <0.01                        | <0.01             | <0.01           | <0.001             | 0.019             | 0.11            | -       | -       | -            | -          | -              |
| WS-MW8        | QC01     | 30/09/2019        | 227356            | Interlab_D  | -   | -                               | -                                 | -                               | -                           | -       | -         | -         | -      | -        | -       | -            | -              | -              | -                                | 0.003              | 0.0084             | <0.001                       | 0.004             | 0.015           | <0.00005           | 0.35              | 230             | -       | -       | -            | -          | -              |
| WS-MW8        | QC01     | 19/03/2020        | 239373            | Interlab_D  | -   | -                               | -                                 | -                               | -                           | -       | -         | -         | -      | -        | -       | -            | -              | -              | -                                | 0.002              | 0.0041             | 0.001                        | 0.002             | 0.009           | <0.00005           | 0.2               | 140             | -       | -       | -            | -          | -              |
| WS-MW8        | QC01     | 11/06/2020        | 244837            | Interlab_D  | -   | -                               | -                                 | -                               | -                           | -       | -         | -         | -      | -        | -       | -            | -              | -              | -                                | 0.003              | 0.0085             | <0.001                       | 0.005             | 0.012           | <0.00005           | 0.27              | 180             | -       | -       | -            | -          | -              |
| WS-MW8        | WS_MW8   | 19/03/2020        | 708803            | Normal      | 5.8 | <10                             | 95                                | <20                             | 95                          | 290     | 1200      | 32        | 6300   | 22,000   | 1500    | 13           | <0.4           | <0.4           | <1                               | <0.1               | <0.02              | <0.1                         | <0.1              | <0.1            | <0.01              | 0.25              | 130             | <1      | <1      | <1           | <1         | <2             |
| WS-MW8        | WS-MW8   | 30/09/2019        | 680287            | Normal      | 5.8 | <10                             | 84                                | <20                             | 84                          | 460     | 1400      | 42        | 5200   | 13,000   | 680     | 13           | <0.1           | <0.1           | <0.25                            | 0.003              | 0.0071             | <0.001                       | 0.006             | 0.014           | <0.0001            | 0.33              | 150             | <1      | <1      | <1           | <1         | <2             |
| WS-MW8        | WS-MW8   | 3/12/2019         | 691578            | Normal      | 6.1 | <10                             | 140                               | <20                             | 140                         | 350     | 1000      | 32        | 4600   | 11,000   | 720     | 13           | <0.2           | <0.2           | <0.5                             | 0.002              | 0.0047             | <0.001                       | 0.006             | 0.016           | <0.0001            | 0.25              | 200             | <1      | <1      | <1           | <1         | <2             |
| WS-MW8        | WS-MW8   | 11/06/2020        | 725231            | Normal      | 6   | <10                             | 170                               | <20                             | 170                         | 350     | 940       | 31        | 5200   | 12,000   | 740     | 7.8          | <0.1           | <0.1           | <0.25                            | <0.01              | 0.0095             | <0.01                        | 0.012             | 0.015           | <0.001             | 0.36              | 210             | <1      | <1      | <1           | <1         | <2             |
| WS-MW9R       | WS_MW9R  | 19/03/2020        | 708803            | Normal      | 7   | <10                             | 680                               | <20                             | 680                         | 150     | 670       | 23        | 5300   | 12,000   | 1200    | 1.2          | <0.02          | <0.02          | <0.05                            | <0.001             | <0.0002            | <0.001                       | 0.006             | <0.0001         | <0.0001            | 0.005             | 0.026           | -       | -       | -            | -          | -              |
| WS-MW9R       | WS-MW9R  | 3/12/2019         | 691578            | Normal      | 7.6 | <10                             | 770                               | <20                             | 770                         | 130     | 510       | 20        | 3800   | 7800     | 820     | 1.1          | <0.02          | <0.02          | <0.05                            | <0.001             | <0.0002            | <0.001                       | 0.014             | 0.002           | <0.0001            | 0.003             | 0.049           | -       | -       | -            | -          | -              |
| WS-MW9R       | WS-MW9R  | 11/06/2020        | 725231            | Normal      | 7.6 | <10                             | 1000                              | <20                             | 1000                        | 130     | 510       | 20        | 3900   | 7800     | 860     | 0.8          | <0.02          | <0.02          | <0.05                            | <0.01              | <0.002             | <0.01                        | <0.01             | <0.01           | <0.001             | <0.01             | 0.055           | -       | -       | -            | -          | -              |

**Env Stds Comments**

- #1:Natural concentrations generally <0.01 mg/L
- #2:Not specifically guideline value: >500mg/L can have purgative effects
- #3:Guideline value calculated by dividing Nitrate (as Nitrate) value (50 mg/L) by 4.427
- #4:Guideline value calculated by dividing Nitrite (as Nitrite) value (0.3 mg/L) by molecular weight (3.2967033).
- #5:Not limiting: Derived water HSL exceeds water solubility limit
- #6:To obtain F1 subtract the sum of BTEX concentrations from the C6 - C10 fraction.



**Appendix C  
Table 2  
Groundwater Analytical Results - September 2019 to June 2020**

|  | TRH - NEPM 2013 |                     |                        |                 |                                 |                   |                        |                        |                         | TRH - NEPM 1999 |                  |                  |                  |                        |
|--|-----------------|---------------------|------------------------|-----------------|---------------------------------|-------------------|------------------------|------------------------|-------------------------|-----------------|------------------|------------------|------------------|------------------------|
|  | Xylene Total    | Naphthalene (BTEXN) | F1 (C6-C10 minus BTEX) | G6-C10 Fraction | F2 (>C10-C16 minus Naphthalene) | >C10-C16 Fraction | F3 (>C16-C34 Fraction) | F4 (>C34-C40 Fraction) | >C10-C40 (Sum of Total) | G6-C9 Fraction  | C10-C14 Fraction | C15-C28 Fraction | C29-C36 Fraction | C10-C36 (Sum of Total) |
|  | µg/L            | µg/L                | µg/L                   | µg/L            | µg/L                            | µg/L              | µg/L                   | µg/L                   | µg/L                    | µg/L            | µg/L             | µg/L             | µg/L             | µg/L                   |
| EQL  | 3               | 10                  | 20                     | 20              | 50                              | 50                | 100                    | 100                    | 100                     | 20              | 50               | 100              | 100              | 100                    |
| Environmental Trigger Value (RAP GHD, 2011)                        |                 |                     |                        |                 |                                 |                   |                        |                        |                         |                 |                  |                  |                  |                        |
| ADWG 2011 Health (v3.5 updated 2018)                               | 600             |                     |                        |                 |                                 |                   |                        |                        |                         |                 |                  |                  |                  |                        |
| NEPM 2013 Table 1A(4) HSL D Comm/Ind GW for Vapour Intrusion, Sand |                 |                     |                        |                 |                                 |                   |                        |                        |                         |                 |                  |                  |                  |                        |
| 2-4m   | NL              | NL                  | 6000 <sup>#6</sup>     |                 | NL                              |                   |                        |                        |                         |                 |                  |                  |                  |                        |
| 4-8m   | NL              | NL                  | 6000 <sup>#6</sup>     |                 | NL                              |                   |                        |                        |                         |                 |                  |                  |                  |                        |

| Location_Code | Field_ID | Sampled_Date_Time | Lab_Report_Number | Sample_Type | Xylene Total | Naphthalene (BTEXN) | F1 (C6-C10 minus BTEX) | G6-C10 Fraction | F2 (>C10-C16 minus Naphthalene) | >C10-C16 Fraction | F3 (>C16-C34 Fraction) | F4 (>C34-C40 Fraction) | >C10-C40 (Sum of Total) | G6-C9 Fraction | C10-C14 Fraction | C15-C28 Fraction | C29-C36 Fraction | C10-C36 (Sum of Total) |
|---------------|----------|-------------------|-------------------|-------------|--------------|---------------------|------------------------|-----------------|---------------------------------|-------------------|------------------------|------------------------|-------------------------|----------------|------------------|------------------|------------------|------------------------|
| GG1           | GG1      | 30/09/2019        | 680287            | Normal      | <3           | <10                 | <20                    | <20             | <50                             | <50               | <100                   | <100                   | <20                     | <50            | <100             | <100             | <100             | <100                   |
| GG1           | GG1      | 3/12/2019         | 691578            | Normal      | <3           | <10                 | <20                    | <20             | 100                             | 100               | 100                    | <100                   | 200                     | <20            | 60               | 200              | <100             | 260                    |
| GG1           | GG1      | 19/03/2020        | 708803            | Normal      | <3           | <10                 | <20                    | <20             | 190                             | 190               | 200                    | <100                   | 390                     | <20            | 70               | 300              | <100             | 370                    |
| GG1           | GG1      | 11/06/2020        | 725231            | Normal      | <3           | <10                 | <20                    | <20             | 440                             | 440               | 400                    | <100                   | 840                     | <20            | 210              | 600              | <100             | 810                    |
| GG1           | QC02     | 30/09/2019        | 680287            | Field_D     | <3           | <10                 | <20                    | <20             | <50                             | <50               | <100                   | <100                   | <100                    | <20            | <50              | <100             | <100             | <100                   |
| GG1           | QC02     | 3/12/2019         | 691578            | Field_D     | <3           | <10                 | <20                    | <20             | 130                             | 130               | 100                    | <100                   | 230                     | <20            | 80               | 200              | <100             | 280                    |
| GG1           | QC02     | 19/03/2020        | 708803            | Field_D     | <3           | <10                 | <20                    | <20             | 70                              | 70                | <100                   | <100                   | <100                    | <20            | <50              | 100              | <100             | 100                    |
| GG1           | QC02     | 11/06/2020        | 725231            | Field_D     | <3           | <10                 | <20                    | <20             | 290                             | 290               | 300                    | <100                   | 590                     | <20            | 150              | 400              | <100             | 550                    |
| GG10          | GG10     | 30/09/2019        | 680287            | Normal      | -            | -                   | -                      | -               | -                               | -                 | -                      | -                      | -                       | -              | -                | -                | -                | -                      |
| GG10          | GG10     | 3/12/2019         | 691578            | Normal      | -            | -                   | -                      | -               | -                               | -                 | -                      | -                      | -                       | -              | -                | -                | -                | -                      |
| GG10          | GG10     | 19/03/2020        | 708803            | Normal      | -            | -                   | -                      | -               | -                               | -                 | -                      | -                      | -                       | -              | -                | -                | -                | -                      |
| GG10          | GG10     | 11/06/2020        | 725231            | Normal      | -            | -                   | -                      | -               | -                               | -                 | -                      | -                      | -                       | -              | -                | -                | -                | -                      |
| GG2           | GG2      | 30/09/2019        | 680287            | Normal      | <3           | <10                 | <20                    | <20             | 1500                            | 1500              | 1300                   | <100                   | 2800                    | <20            | 640              | 2300             | <100             | 2940                   |
| GG2           | GG2      | 3/12/2019         | 691578            | Normal      | <3           | <10                 | <20                    | <20             | 5700                            | 5700              | 4000                   | <100                   | 9700                    | <20            | 2600             | 7000             | <100             | 9600                   |
| GG2           | GG2      | 19/03/2020        | 708803            | Normal      | <3           | <10                 | <20                    | <20             | 540                             | 540               | 800                    | <100                   | 1340                    | <20            | 210              | 1100             | <100             | 1310                   |
| GG2           | GG2      | 11/06/2020        | 725231            | Normal      | <3           | <10                 | <20                    | <20             | 780                             | 780               | 1000                   | <100                   | 1780                    | <20            | 290              | 1400             | <100             | 1690                   |
| GG5           | GG5      | 30/09/2019        | 680287            | Normal      | -            | -                   | -                      | -               | -                               | -                 | -                      | -                      | -                       | -              | -                | -                | -                | -                      |
| GG5           | GG5      | 3/12/2019         | 691578            | Normal      | -            | -                   | -                      | -               | -                               | -                 | -                      | -                      | -                       | -              | -                | -                | -                | -                      |
| GG5           | GG5      | 19/03/2020        | 708803            | Normal      | -            | -                   | -                      | -               | -                               | -                 | -                      | -                      | -                       | -              | -                | -                | -                | -                      |
| GG5           | GG5      | 11/06/2020        | 725231            | Normal      | -            | -                   | -                      | -               | -                               | -                 | -                      | -                      | -                       | -              | -                | -                | -                | -                      |
| GG7           | GG7      | 30/09/2019        | 680287            | Normal      | -            | -                   | -                      | -               | -                               | -                 | -                      | -                      | -                       | -              | -                | -                | -                | -                      |
| GG7           | GG7      | 3/12/2019         | 691578            | Normal      | -            | -                   | -                      | -               | -                               | -                 | -                      | -                      | -                       | -              | -                | -                | -                | -                      |
| GG7           | GG7      | 19/03/2020        | 708803            | Normal      | -            | -                   | -                      | -               | -                               | -                 | -                      | -                      | -                       | -              | -                | -                | -                | -                      |
| GG7           | GG7      | 11/06/2020        | 725231            | Normal      | -            | -                   | -                      | -               | -                               | -                 | -                      | -                      | -                       | -              | -                | -                | -                | -                      |
| GG8           | GG8      | 30/09/2019        | 680287            | Normal      | -            | -                   | -                      | -               | -                               | -                 | -                      | -                      | -                       | -              | -                | -                | -                | -                      |
| GG8           | GG8      | 3/12/2019         | 691578            | Normal      | -            | -                   | -                      | -               | -                               | -                 | -                      | -                      | -                       | -              | -                | -                | -                | -                      |
| GG8           | GG8      | 19/03/2020        | 708803            | Normal      | -            | -                   | -                      | -               | -                               | -                 | -                      | -                      | -                       | -              | -                | -                | -                | -                      |
| GG8           | GG8      | 11/06/2020        | 725231            | Normal      | -            | -                   | -                      | -               | -                               | -                 | -                      | -                      | -                       | -              | -                | -                | -                | -                      |
| GG9           | GG9      | 30/09/2019        | 680287            | Normal      | -            | -                   | -                      | -               | -                               | -                 | -                      | -                      | -                       | -              | -                | -                | -                | -                      |
| GG9           | GG9      | 3/12/2019         | 691578            | Normal      | -            | -                   | -                      | -               | -                               | -                 | -                      | -                      | -                       | -              | -                | -                | -                | -                      |
| GG9           | GG9      | 19/03/2020        | 708803            | Normal      | -            | -                   | -                      | -               | -                               | -                 | -                      | -                      | -                       | -              | -                | -                | -                | -                      |
| GG9           | GG9      | 11/06/2020        | 725231            | Normal      | -            | -                   | -                      | -               | -                               | -                 | -                      | -                      | -                       | -              | -                | -                | -                | -                      |
| MW119         | MW119    | 3/12/2019         | 691578            | Normal      | -            | -                   | -                      | -               | -                               | -                 | -                      | -                      | -                       | -              | -                | -                | -                | -                      |
| MW119         | MW119    | 19/03/2020        | 708803            | Normal      | -            | -                   | -                      | -               | -                               | -                 | -                      | -                      | -                       | -              | -                | -                | -                | -                      |
| MW119         | MW119    | 11/06/2020        | 725231            | Normal      | -            | -                   | -                      | -               | -                               | -                 | -                      | -                      | -                       | -              | -                | -                | -                | -                      |
| MW127         | MW127    | 30/09/2019        | 680287            | Normal      | -            | -                   | -                      | -               | -                               | -                 | -                      | -                      | -                       | -              | -                | -                | -                | -                      |
| MW127         | MW127    | 3/12/2019         | 691578            | Normal      | -            | -                   | -                      | -               | -                               | -                 | -                      | -                      | -                       | -              | -                | -                | -                | -                      |
| MW127         | MW127    | 19/03/2020        | 708803            | Normal      | -            | -                   | -                      | -               | -                               | -                 | -                      | -                      | -                       | -              | -                | -                | -                | -                      |
| MW127         | MW127    | 11/06/2020        | 725231            | Normal      | -            | -                   | -                      | -               | -                               | -                 | -                      | -                      | -                       | -              | -                | -                | -                | -                      |
| MW134D        | MW134D   | 30/09/2019        | 680287            | Normal      | -            | -                   | -                      | -               | -                               | -                 | -                      | -                      | -                       | -              | -                | -                | -                | -                      |
| MW134D        | MW134D   | 3/12/2019         | 691578            | Normal      | -            | -                   | -                      | -               | -                               | -                 | -                      | -                      | -                       | -              | -                | -                | -                | -                      |
| MW134D        | MW134D   | 19/03/2020        | 708803            | Normal      | -            | -                   | -                      | -               | -                               | -                 | -                      | -                      | -                       | -              | -                | -                | -                | -                      |
| MW134D        | MW134D   | 11/06/2020        | 725231            | Normal      | -            | -                   | -                      | -               | -                               | -                 | -                      | -                      | -                       | -              | -                | -                | -                | -                      |
| MW134S        | MW134S   | 30/09/2019        | 680287            | Normal      | -            | -                   | -                      | -               | -                               | -                 | -                      | -                      | -                       | -              | -                | -                | -                | -                      |
| MW134S        | MW134S   | 3/12/2019         | 691578            | Normal      | -            | -                   | -                      | -               | -                               | -                 | -                      | -                      | -                       | -              | -                | -                | -                | -                      |
| MW134S        | MW134S   | 19/03/2020        | 708803            | Normal      | -            | -                   | -                      | -               | -                               | -                 | -                      | -                      | -                       | -              | -                | -                | -                | -                      |
| MW134S        | MW134S   | 11/06/2020        | 725231            | Normal      | -            | -                   | -                      | -               | -                               | -                 | -                      | -                      | -                       | -              | -                | -                | -                | -                      |
| MW135         | MW135    | 30/09/2019        | 680287            | Normal      | -            | -                   | -                      | -               | -                               | -                 | -                      | -                      | -                       | -              | -                | -                | -                | -                      |
| MW135         | MW135    | 3/12/2019         | 691578            | Normal      | -            | -                   | -                      | -               | -                               | -                 | -                      | -                      | -                       | -              | -                | -                | -                | -                      |
| MW135         | MW135    | 19/03/2020        | 708803            | Normal      | -            | -                   | -                      | -               | -                               | -                 | -                      | -                      | -                       | -              | -                | -                | -                | -                      |



**Appendix C  
Table 2  
Groundwater Analytical Results - September 2019 to June 2020**

|  | TRH - NEPM 2013 |                     |                        |                 |                                 |                   |                        |                        |                         |                | TRH - NEPM 1999  |                  |                  |                        |  |
|--|-----------------|---------------------|------------------------|-----------------|---------------------------------|-------------------|------------------------|------------------------|-------------------------|----------------|------------------|------------------|------------------|------------------------|--|
|  | Xylene Total    | Naphthalene (BTEXN) | F1 (C6-C10 minus BTEX) | C6-C10 Fraction | F2 (>C10-C16 minus Naphthalene) | >C10-C16 Fraction | F3 (>C16-C34 Fraction) | F4 (>C34-C40 Fraction) | >C10-C40 (Sum of Total) | C6-C9 Fraction | C10-C14 Fraction | C15-C28 Fraction | C29-C36 Fraction | C10-C36 (Sum of Total) |  |
|  | µg/L            | µg/L                | µg/L                   | µg/L            | µg/L                            | µg/L              | µg/L                   | µg/L                   | µg/L                    | µg/L           | µg/L             | µg/L             | µg/L             | µg/L                   |  |
| EQL  | 3               | 10                  | 20                     | 20              | 50                              | 50                | 100                    | 100                    | 100                     | 20             | 50               | 100              | 100              | 100                    |  |
| Environmental Trigger Value (RAP GHD, 2011)                        |                 |                     |                        |                 |                                 |                   |                        |                        |                         |                |                  |                  |                  |                        |  |
| ADWG 2011 Health (v3.5 updated 2018)                               | 600             |                     |                        |                 |                                 |                   |                        |                        |                         |                |                  |                  |                  |                        |  |
| NEPM 2013 Table 1A(4) HSL D Comm/Ind GW for Vapour Intrusion, Sand |                 |                     |                        |                 |                                 |                   |                        |                        |                         |                |                  |                  |                  |                        |  |
| 2-4m   | NL              | NL                  | 6000 <sup>#6</sup>     |                 | NL                              |                   |                        |                        |                         |                |                  |                  |                  |                        |  |
| 4-8m   | NL              | NL                  | 6000 <sup>#6</sup>     |                 | NL                              |                   |                        |                        |                         |                |                  |                  |                  |                        |  |

| Location Code | Field ID | Sampled Date Time | Lab Report Number | Sample Type | Xylene Total | Naphthalene (BTEXN) | F1 (C6-C10 minus BTEX) | C6-C10 Fraction | F2 (>C10-C16 minus Naphthalene) | >C10-C16 Fraction | F3 (>C16-C34 Fraction) | F4 (>C34-C40 Fraction) | >C10-C40 (Sum of Total) | C6-C9 Fraction | C10-C14 Fraction | C15-C28 Fraction | C29-C36 Fraction | C10-C36 (Sum of Total) |
|---------------|----------|-------------------|-------------------|-------------|--------------|---------------------|------------------------|-----------------|---------------------------------|-------------------|------------------------|------------------------|-------------------------|----------------|------------------|------------------|------------------|------------------------|
| MW135         | MW135    | 11/06/2020        | 725231            | Normal      | -            | -                   | -                      | -               | -                               | -                 | -                      | -                      | -                       | -              | -                | -                | -                | -                      |
| WS-MW1R       | QC01     | 3/12/2019         | 232312            | Interlab_D  | -            | -                   | -                      | -               | -                               | -                 | -                      | -                      | -                       | -              | -                | -                | -                | -                      |
| WS-MW1R       | WS_MW1R  | 19/03/2020        | 708803            | Normal      | -            | -                   | -                      | -               | -                               | -                 | -                      | -                      | -                       | -              | -                | -                | -                | -                      |
| WS-MW1R       | WS-MW1R  | 3/12/2019         | 691578            | Normal      | -            | -                   | -                      | -               | -                               | -                 | -                      | -                      | -                       | -              | -                | -                | -                | -                      |
| WS-MW1R       | WS-MW1R  | 11/06/2020        | 725231            | Normal      | -            | -                   | -                      | -               | -                               | -                 | -                      | -                      | -                       | -              | -                | -                | -                | -                      |
| WS-MW5        | WS_MW5   | 19/03/2020        | 708803            | Normal      | <3           | <10                 | <20                    | <20             | <50                             | <50               | 100                    | <100                   | 100                     | <20            | <50              | 100              | <100             | 100                    |
| WS-MW5        | WS-MW5   | 30/09/2019        | 680287            | Normal      | <3           | <10                 | 30                     | 30              | <50                             | <50               | <100                   | <100                   | <100                    | <20            | <50              | <100             | <100             | <100                   |
| WS-MW5        | WS-MW5   | 3/12/2019         | 691578            | Normal      | <3           | <10                 | <20                    | <20             | <50                             | <50               | <100                   | <100                   | <100                    | <20            | <50              | <100             | <100             | <100                   |
| WS-MW5        | WS-MW5   | 11/06/2020        | 725231            | Normal      | <3           | <10                 | <20                    | <20             | <50                             | <50               | <100                   | <100                   | <100                    | <20            | <50              | <100             | <100             | <100                   |
| WS-MW6        | WS_MW6   | 19/03/2020        | 708803            | Normal      | -            | -                   | -                      | -               | -                               | -                 | -                      | -                      | -                       | -              | -                | -                | -                | -                      |
| WS-MW6        | WS-MW6   | 30/09/2019        | 680287            | Normal      | -            | -                   | -                      | -               | -                               | -                 | -                      | -                      | -                       | -              | -                | -                | -                | -                      |
| WS-MW6        | WS-MW6   | 3/12/2019         | 691578            | Normal      | -            | -                   | -                      | -               | -                               | -                 | -                      | -                      | -                       | -              | -                | -                | -                | -                      |
| WS-MW6        | WS-MW6   | 11/06/2020        | 725231            | Normal      | -            | -                   | -                      | -               | -                               | -                 | -                      | -                      | -                       | -              | -                | -                | -                | -                      |
| WS-MW7        | WS_MW7   | 19/03/2020        | 708803            | Normal      | -            | -                   | -                      | -               | -                               | -                 | -                      | -                      | -                       | -              | -                | -                | -                | -                      |
| WS-MW7        | WS-MW7   | 30/09/2019        | 680287            | Normal      | -            | -                   | -                      | -               | -                               | -                 | -                      | -                      | -                       | -              | -                | -                | -                | -                      |
| WS-MW7        | WS-MW7   | 3/12/2019         | 691578            | Normal      | -            | -                   | -                      | -               | -                               | -                 | -                      | -                      | -                       | -              | -                | -                | -                | -                      |
| WS-MW7        | WS-MW7   | 11/06/2020        | 725231            | Normal      | -            | -                   | -                      | -               | -                               | -                 | -                      | -                      | -                       | -              | -                | -                | -                | -                      |
| WS-MW8        | QC01     | 30/09/2019        | 227356            | Interlab_D  | -            | -                   | -                      | -               | -                               | -                 | -                      | -                      | -                       | -              | -                | -                | -                | -                      |
| WS-MW8        | QC01     | 19/03/2020        | 239373            | Interlab_D  | -            | -                   | -                      | -               | -                               | -                 | -                      | -                      | -                       | -              | -                | -                | -                | -                      |
| WS-MW8        | QC01     | 11/06/2020        | 244837            | Interlab_D  | -            | -                   | -                      | -               | -                               | -                 | -                      | -                      | -                       | -              | -                | -                | -                | -                      |
| WS-MW8        | WS_MW8   | 19/03/2020        | 708803            | Normal      | <3           | <10                 | <20                    | <20             | <50                             | <50               | 100                    | <100                   | 100                     | <20            | <50              | 100              | <100             | 100                    |
| WS-MW8        | WS-MW8   | 30/09/2019        | 680287            | Normal      | <3           | <10                 | <20                    | <20             | <50                             | <50               | <100                   | <100                   | <100                    | <20            | <50              | <100             | <100             | <100                   |
| WS-MW8        | WS-MW8   | 3/12/2019         | 691578            | Normal      | <3           | <10                 | <20                    | <20             | 100                             | 100               | 200                    | <100                   | 300                     | <20            | 90               | 200              | <100             | 290                    |
| WS-MW8        | WS-MW8   | 11/06/2020        | 725231            | Normal      | <3           | <10                 | <20                    | <20             | <50                             | <50               | <100                   | <100                   | <100                    | <20            | <50              | <100             | <100             | <100                   |
| WS-MW9R       | WS_MW9R  | 19/03/2020        | 708803            | Normal      | -            | -                   | -                      | -               | -                               | -                 | -                      | -                      | -                       | -              | -                | -                | -                | -                      |
| WS-MW9R       | WS-MW9R  | 3/12/2019         | 691578            | Normal      | -            | -                   | -                      | -               | -                               | -                 | -                      | -                      | -                       | -              | -                | -                | -                | -                      |
| WS-MW9R       | WS-MW9R  | 11/06/2020        | 725231            | Normal      | -            | -                   | -                      | -               | -                               | -                 | -                      | -                      | -                       | -              | -                | -                | -                | -                      |

**Env Stds Comments**

- #1:Natural concentrations generally <0.01 mg/L
- #2:Not specifically guideline value: >500mg/L can have purgative effects
- #3:Guideline value calculated by dividing Nitrate (as Nitrate) value (50 mg/L) by 4.427
- #4:Guideline value calculated by dividing Nitrite (as Nitrite) value (0.3 mg/L) by molecular weight
- #5:Not limiting: Derived water HSL exceeds water solubility limit
- #6:To obtain F1 subtract the sum of BTEX concentrations from the C6 - C10 fraction.