

## **ANNEXURE I - II**

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## ANNEXURE I – SEASONAL GROUNDWATER LEVEL DATA

| Well no | Lat.  | Long. | NOV-21 mbgl | May-22 mbgl | Nov-22 mbgl | May-23 mbgl |
|---------|-------|-------|-------------|-------------|-------------|-------------|
| 1       | 20.85 | 73.58 | 1.95        | 9.26        | 1.9         | 10          |
| 2       | 20.83 | 73.60 | 6.9         | 8.2         | 6.5         | 7.6         |
| 3       | 20.81 | 73.55 | 2           | 4.1         | 2.6         | 5           |
| 4       | 20.82 | 73.56 | 1.1         | 6.6         | 3.05        | 8.1         |
| 5       | 20.80 | 73.58 | 3.3         | 10.6        | 8.4         | 9.9         |
| 6       | 20.80 | 73.61 | 0.55        | 5.55        | 1           | 7.35        |
| 7       | 20.77 | 73.62 | 1           | 4.35        | 2.3         | 4.6         |
| 8       | 20.74 | 73.64 | 1.4         | 3.6         | 1.4         | 3.9         |
| 9       | 20.73 | 73.65 | 3.4         | 7.5         | 9           | 11.1        |
| 10      | 20.74 | 73.62 | 3.3         | 7.25        | 3.5         | 7.9         |
| 11      | 20.76 | 73.58 | 1.9         | 9.8         | 2.2         | 9.9         |
| 12      | 20.76 | 73.58 | 0.85        | 7.15        | 1.2         | 7.75        |
| 13      | 20.75 | 73.59 | 1.14        | 10.14       | 2           | 9.54        |
| 14      | 20.73 | 73.60 | 6.9         | 14.5        | 5           | 13          |
| 15      | 20.76 | 73.60 | 0.71        | 3.36        | 1           | 13.16       |
| 16      | 20.78 | 73.61 | 0.5         | 5.8         | 1.8         | 7.8         |
| 17      | 20.80 | 73.66 | 1.9         | 8.1         | 1           | 6.3         |
| 18      | 20.79 | 73.64 | 1           | 3.4         | 1.1         | 3.2         |
| 19      | 20.77 | 73.65 | 2           | 5.8         | 2.8         | 5.5         |
| 20      | 20.77 | 73.67 | 1.7         | 3.3         | 3.3         | 3.7         |
| 21      | 20.76 | 73.72 | 0.1         | 1.9         | 1.5         | 2.15        |
| 22      | 20.77 | 73.73 | 1           | 5.1         | 2           | 6           |
| 23      | 20.77 | 73.76 | 3.1         | 13.3        | 3.5         | 13.8        |
| 24      | 20.77 | 73.76 | 2.8         | 9.3         | 2.8         | 8           |
| 25      | 20.75 | 73.68 | 1.2         | 3.5         | 3           | 5           |
| 26      | 20.71 | 73.73 | 0.4         | 1.6         | 2.1         | 3.9         |
| 27      | 20.70 | 73.72 | 1.7         | 4.7         | 3.5         | 7.3         |
| 28      | 20.68 | 73.72 | 2           | 6           | 2.5         | 6           |
| 29      | 20.67 | 73.74 | 1           | 9.6         | 3           | 13          |
| 30      | 20.67 | 73.74 | 1.2         | 12          | 12.5        | 13.8        |
| 31      | 20.67 | 73.74 | 2           | 16.78       | 5           | 10          |
| 33      | 20.65 | 73.77 | 2.2         | 6.2         | 5.2         | 6.5         |
| 34      | 20.64 | 73.78 | 0.5         | 6           | 1.3         | 7.3         |
| 35      | 20.64 | 73.76 | 1.3         | 8.05        | 1.5         | 7.9         |
| 36      | 20.63 | 73.75 | 1           | 3           | 3.1         | 3.6         |
| 37      | 20.62 | 73.74 | 1.2         | 8           | 2.2         | 8.3         |
| 38      | 20.64 | 73.80 | 3.7         | 5.1         | 3.7         | 4.5         |
| 39      | 20.63 | 73.80 | 1.9         | 3.4         | 1.2         | 3.8         |
| 40      | 20.63 | 73.81 | 1.3         | 2.4         | 1.8         | 1.9         |
| 41      | 20.63 | 73.81 | 1.9         | 2.7         | 2.8         | 4.4         |

| <b>Well no</b> | <b>Lat.</b> | <b>Long.</b> | <b>NOV-21 mbgl</b> | <b>May-22 mbgl</b> | <b>Nov-22 mbgl</b> | <b>May-23 mbgl</b> |
|----------------|-------------|--------------|--------------------|--------------------|--------------------|--------------------|
| 42             | 20.63       | 73.78        | 4.7                | 8.7                | 4                  | 8.7                |
| 43             | 20.67       | 73.79        | 1.5                | 10.5               | 2.5                | 9.5                |
| 44             | 20.69       | 73.77        | 2.1                | 4.2                | 3.2                | 5.8                |
| 45             | 20.71       | 73.77        | 0.7                | 4.7                | 1.5                | 8.4                |
| 46             | 20.69       | 73.68        | 1.7                | 8.3                | 1.1                | 6.3                |
| 47             | 20.80       | 73.53        | 1.5                | 3                  | 6.05               | 7.9                |
| 48             | 20.80       | 73.53        | 5.4                | 7.1                | 8.7                | 9                  |
| 49             | 20.81       | 73.52        | 2.8                | 6                  | 3.5                | 5.5                |
| 50             | 20.83       | 73.50        | 1.6                | 4.1                | 3.25               | 6.8                |
| 51             | 20.84       | 73.49        | 1.8                | 6.4                | 2.4                | 7.2                |
| 52             | 20.84       | 73.48        | 5                  | 7                  | 6                  | 8                  |
| 53             | 20.83       | 73.50        | 5                  | 8                  | 4.8                | 7                  |
| 54             | 20.82       | 73.51        | 3                  | 6.5                | 5.3                | 7.4                |
| 55             | 20.81       | 73.48        | 5                  | 9                  | 6                  | 9                  |
| 56             | 20.79       | 73.49        | 3                  | 5.1                | 2.8                | 5.2                |
| 57             | 20.71       | 73.81        | 1.8                | 8.7                | 2.4                | 8.2                |
| 58             | 20.82       | 73.69        | 3.2                | 9.05               | 4                  | 10                 |
| 59             | 20.79       | 73.66        | 3.1                | 8.3                | 3                  | 8.8                |
| 60             | 20.81       | 73.69        | 5.9                | 12.5               | 6.3                | 13.1               |
| 61             | 20.75       | 73.81        | 5.6                | 12.5               | 8                  | 13.9               |
| 62             | 20.74       | 73.84        | 0.5                | 4                  | 4                  | 6.4                |
| 63             | 20.65       | 73.79        | 0                  | 18.3               | 0                  | 17.3               |
| 64             | 20.66       | 73.79        | 0                  | 16.5               | 0                  | 16.5               |
| 65             | 20.67       | 73.82        | 4.96               | 6.46               | 7.16               | 9                  |

| Well no. | Ca <sup>+2</sup> (mg/l) | Mg <sup>+2</sup> (mg/l) | K <sup>+</sup> (mg/l) | Na <sup>+</sup> (mg/l) | NO <sub>3</sub> <sup>-</sup> (mg/l) | SO <sub>4</sub> <sup>-2</sup> (mg/l) | HCO <sub>3</sub> <sup>-</sup> (mg/l) | Cl <sup>-</sup> (mg/l) | TH (mg/l) | TA (mg/l) | pH  | TDS (mg/l) | Ec (µS/cm) | IBE    |
|----------|-------------------------|-------------------------|-----------------------|------------------------|-------------------------------------|--------------------------------------|--------------------------------------|------------------------|-----------|-----------|-----|------------|------------|--------|
| 3        | 34.10                   | 24.57                   | 0.3                   | 2.0                    | 0.6                                 | 2.8                                  | 229                                  | 26.51                  | 186.32    | 229       | 7.1 | 157        | 314        | -8.64  |
| 4        | 28.94                   | 33.57                   | 0.8                   | 4.0                    | 0.8                                 | 15.70                                | 254                                  | 32.46                  | 210.48    | 254       | 7.1 | 227        | 454        | -9.94  |
| 6        | 30.06                   | 21.84                   | 0.8                   | 2.7                    | 1.8                                 | 13.51                                | 186                                  | 29.49                  | 165       | 186       | 7.9 | 160        | 321        | -9.58  |
| 7        | 20.04                   | 40.06                   | 0.3                   | 1.1                    | 0.1                                 | 3.1                                  | 225                                  | 20.42                  | 215       | 225       | 7.3 | 177        | 335        | 0.70   |
| 8        | 30.06                   | 23.05                   | 0.5                   | 1.9                    | 0.1                                 | 3.8                                  | 232                                  | 13.61                  | 170       | 232       | 7.7 | 158        | 316        | -9.59  |
| 9        | 26.05                   | 27.91                   | 2.2                   | 5.8                    | 1.8                                 | 7.4                                  | 185                                  | 29.49                  | 180       | 185       | 7.6 | 145        | 290        | -1.39  |
| 10       | 24.05                   | 19.42                   | 0.4                   | 1.5                    | 1.8                                 | 4.6                                  | 165                                  | 20.42                  | 140       | 165       | 7.7 | 149        | 299        | -8.11  |
| 11       | 34.07                   | 31.55                   | 0.2                   | 3.8                    | 0.4                                 | 9.7                                  | 215                                  | 24.96                  | 215       | 215       | 7.8 | 202        | 404        | 0.74   |
| 13       | 19.56                   | 9.7                     | 0.7                   | 2.6                    | 0.2                                 | 5.4                                  | 112                                  | 13.61                  | 88.81     | 112       | 7.4 | 128        | 256        | -9.86  |
| 15       | 30.06                   | 14.56                   | 0.5                   | 2.6                    | 0.3                                 | 2.9                                  | 150                                  | 20.42                  | 135       | 150       | 7.4 | 113        | 227        | -4.36  |
| 16       | 34.07                   | 33.98                   | 1.1                   | 3.8                    | 1.6                                 | 9.5                                  | 230                                  | 38.57                  | 225       | 230       | 7.4 | 230        | 461        | -3.61  |
| 17       | 34.07                   | 13.34                   | 0.3                   | 1.8                    | 0.2                                 | 5.8                                  | 165                                  | 18.15                  | 140       | 165       | 7.7 | 134        | 268        | -7.03  |
| 18       | 36.07                   | 25.48                   | 0.2                   | 3.0                    | 0.5                                 | 13.75                                | 200                                  | 22.69                  | 195       | 200       | 7.3 | 160        | 321        | -1.87  |
| 19       | 34.07                   | 17.57                   | 0.1                   | 3.6                    | 0.2                                 | 18.29                                | 122                                  | 58.99                  | 157.40    | 122       | 7.5 | 202        | 405        | -9.82  |
| 20       | 36.07                   | 10.91                   | 0.7                   | 2.8                    | 2.4                                 | 12.24                                | 125                                  | 31.76                  | 135       | 125       | 7.3 | 202        | 405        | -6.39  |
| 21       | 26.05                   | 19.41                   | 0.2                   | 2.0                    | 0.0                                 | 3.9                                  | 180                                  | 11.34                  | 145       | 180       | 7.8 | 152        | 304        | -5.32  |
| 22       | 20.04                   | 35.20                   | 3.3                   | 5.4                    | 1.1                                 | 12.13                                | 220                                  | 34.03                  | 195       | 220       | 8.2 | 159        | 318        | -6.47  |
| 23       | 20.04                   | 16.99                   | 0.0                   | 1.1                    | 0.1                                 | 3.7                                  | 150                                  | 11.34                  | 120       | 150       | 8.1 | 129        | 258        | -7.40  |
| 24       | 24.05                   | 15.77                   | 0.2                   | 2.2                    | 0.5                                 | 6.4                                  | 135                                  | 29.49                  | 125       | 135       | 7.7 | 117        | 235        | -9.82  |
| 26       | 32.06                   | 20.63                   | 0.6                   | 3.3                    | 0.5                                 | 3.4                                  | 150                                  | 24.96                  | 165       | 150       | 7.6 | 132        | 265        | 3.49   |
| 27       | 24.05                   | 19.42                   | 0.1                   | 2.3                    | 0.1                                 | 0.8                                  | 150                                  | 20.42                  | 140       | 150       | 7.5 | 115        | 231        | -2.18  |
| 29       | 30.06                   | 20.63                   | 0.1                   | 3.1                    | 0.1                                 | 11.71                                | 200                                  | 15.88                  | 160       | 200       | 8   | 142        | 284        | -8.41  |
| 30       | 24.05                   | 25.49                   | 0.8                   | 1.3                    | 0.8                                 | 3.5                                  | 190                                  | 9.1                    | 165       | 190       | 8.5 | 129        | 258        | -0.79  |
| 34       | 40.08                   | 18.19                   | 2.3                   | 8.7                    | 4.4                                 | 26.11                                | 160                                  | 54.45                  | 175       | 160       | 7.8 | 165        | 331        | -9.35  |
| 35       | 46.09                   | 23.05                   | 0.4                   | 6.1                    | 4.6                                 | 24.38                                | 185                                  | 36.30                  | 210       | 185       | 7.7 | 162        | 324        | -1.54  |
| 36       | 40.08                   | 29.12                   | 0.3                   | 4.3                    | 4.9                                 | 22.72                                | 200                                  | 34.03                  | 220       | 200       | 7.3 | 151        | 302        | -1.77  |
| 37       | 26.05                   | 18.20                   | 0.2                   | 1.6                    | 0.2                                 | 11.01                                | 170                                  | 18.15                  | 140       | 170       | 8.2 | 104        | 208        | -9.95  |
| 38       | 22.04                   | 19.42                   | 0.2                   | 2.9                    | 0.0                                 | 4.3                                  | 140                                  | 20.42                  | 135       | 140       | 7.6 | 137        | 275        | -1.89  |
| 39       | 26.05                   | 16.99                   | 0.6                   | 2.5                    | 0.1                                 | 10.55                                | 170                                  | 15.88                  | 135       | 170       | 7.5 | 187        | 375        | -9.77  |
| 40       | 40.08                   | 10.91                   | 0.2                   | 1.9                    | 6.2                                 | 16.03                                | 145                                  | 13.61                  | 145       | 145       | 7.6 | 142        | 284        | -3.17  |
| 41       | 28.06                   | 10.91                   | 1.5                   | 1.6                    | 0.7                                 | 7.6                                  | 125                                  | 13.61                  | 115       | 125       | 7.5 | 132        | 265        | -3.63  |
| 43       | 38.08                   | 15.77                   | 0.5                   | 7.9                    | 0.2                                 | 19.58                                | 190                                  | 27.23                  | 160       | 190       | 7.9 | 144        | 289        | -9.17  |
| 44       | 38.08                   | 15.77                   | 0.2                   | 3.1                    | 0.3                                 | 11.28                                | 155                                  | 22.69                  | 160       | 155       | 8   | 225        | 450        | -0.94  |
| 45       | 36.07                   | 35.19                   | 1.2                   | 5.4                    | 3.2                                 | 30.96                                | 215                                  | 38.57                  | 235       | 215       | 6.9 | 157        | 314        | -2.99  |
| 47       | 34.07                   | 24.27                   | 0.2                   | 1.5                    | 0.9                                 | 11.97                                | 195                                  | 20.42                  | 185       | 195       | 7.4 | 136        | 272        | -3.09  |
| 48       | 24.05                   | 20.63                   | 0.1                   | 1.1                    | 0.8                                 | 5.6                                  | 155                                  | 15.88                  | 145       | 155       | 7.3 | 285        | 571        | -2.47  |
| 49       | 56.11                   | 25.47                   | 0.3                   | 2.8                    | 0.2                                 | 4.2                                  | 285                                  | 15.88                  | 245       | 285       | 7   | 182        | 365        | -1.51  |
| 52       | 34.07                   | 24.27                   | 0.1                   | 5.7                    | 6.3                                 | 15.99                                | 210                                  | 22.69                  | 185       | 210       | 7.3 | 170        | 340        | -6.38  |
| 54       | 40.08                   | 29.12                   | 0.3                   | 3.0                    | 2.3                                 | 12.11                                | 215                                  | 29.49                  | 220       | 215       | 7.3 | 255        | 511        | -0.83  |
| 55       | 42.08                   | 2.4                     | 0.3                   | 7.3                    | 5.1                                 | 13.43                                | 270                                  | 27.23                  | 115       | 270       | 7.3 | 223        | 457        | -35.76 |
| 56       | 34.07                   | 26.70                   | 0.2                   | 3.9                    | 0.2                                 | 6.4                                  | 265                                  | 18.15                  | 195       | 265       | 8.2 | 143        | 286        | -9.78  |
| 59       | 25.65                   | 22.22                   | 0.2                   | 13.98                  | 0.0                                 | 13.15                                | 209                                  | 30.57                  | 155.54    | 209       | 7.5 | 271        | 545        | -9.82  |
| 60       | 22.04                   | 20.63                   | 0.2                   | 1.9                    | 0.5                                 | 11.83                                | 171                                  | 15.88                  | 140       | 171       | 7.9 | 193        | 386        | -9.29  |
| 61       | 28.65                   | 25.57                   | 0.3                   | 2.0                    | 0.3                                 | 7.0                                  | 221                                  | 23.54                  | 176.83    | 221       | 8.3 | 166        | 332        | -9.68  |
| 62       | 50.10                   | 1.2                     | 0.9                   | 1.1                    | 6.6                                 | 1.7                                  | 155                                  | 9.1                    | 130       | 155       | 7.8 | 132        | 265        | -4.73  |