

## HYDROLOGICAL DESIGN SHEET

| PIT  | LAND USE | FLOW LENGTH | SLOPE | "n"   | TIME   | TIME | INTENSITY  | CODE         | COEFF          | AREA           | CA             | SUM AREA | Q   | BY PASS | TOTAL FLOW | GUTTER SLOPE | FLOW WIDTH      | PIT TYPE | INTEL | INFLOW | BY FLOW | BY PIT | KINEMATIC<br>MIN TIME 5<br>MAX TIME 20<br>HAWKS NEST | REMARKS |
|------|----------|-------------|-------|-------|--------|------|------------|--------------|----------------|----------------|----------------|----------|-----|---------|------------|--------------|-----------------|----------|-------|--------|---------|--------|------------------------------------------------------|---------|
|      |          | m           | %     |       | min    | min  | mm/h       |              |                | ha             | ha             | ha       | L/s | L/s     | L/s        | %            | m               |          | m     | L/s    | L/s     |        |                                                      |         |
| 99   | 1        | 35          | 0.5   | 0.053 | 6.970  | 7    | 133<br>5Yr | -0.1         | 0.490          | 0.083          | 0.041          | 0.041    | 15  |         | 15         | 0.5          | 0.711<br>0.03PH | 4<br>SAG |       | 15     |         | 99     |                                                      |         |
| 96   | 2        | 20          | 1     | 0.170 | 10.283 | 10.3 | 114<br>5Yr | -0.5<br>-0.9 | 0.652<br>0.814 | 0.064<br>0.020 | 0.042<br>0.016 | 0.058    | 18  |         | 18         | 0.505        | 1.54            | 1        | 1.8   | 18     |         | 97     |                                                      |         |
| 90   | 1        | 35          | 0.5   | 0.053 | 6.970  | 7    | 133<br>5Yr | -0.1         | 0.490          | 0.081          | 0.138          | 0.138    | 51  |         | 51         | 0.5          | 1.583<br>0.04PH | 4<br>SAG |       | 51     |         | 90     |                                                      |         |
| 92   | 2        | 10          | 1     | 0.170 | 6.141  | 6.1  | 139<br>5Yr | -0.5<br>-0.9 | 0.652<br>0.814 | 0.073<br>0.011 | 0.048<br>0.009 | 0.057    | 22  |         | 22         | 0.741        | 1.528           | 1        | 1.8   | 22     |         | 94     |                                                      |         |
| 94   | 2        | 10          | 1     | 0.170 | 5.841  | 5.8  | 142<br>5Yr | -0.5<br>-0.9 | 0.652<br>0.814 | 0.010<br>0.010 | 0.007<br>0.008 | 0.015    | 6   |         | 6          | 0.505        | 0.831           | 1        | 1.8   | 6      |         | 96     |                                                      |         |
| 93   | 2        | 30          | 1     | 0.170 | 13.237 | 13.2 | 103<br>5Yr | -0.5<br>-0.9 | 0.652<br>0.814 | 0.180<br>0.034 | 0.117<br>0.028 | 0.145    | 41  |         | 41         | 0.525        | 2.166           | 1        | 1.8   | 41     |         | 95     |                                                      |         |
| 95   | 2        | 35          | 1     | 0.170 | 14.517 | 14.5 | 99<br>5Yr  | -0.5<br>-0.9 | 0.652<br>0.814 | 0.136<br>0.020 | 0.089<br>0.016 | 0.105    | 29  |         | 29         | 0.525        | 1.858           | 1        | 1.8   | 29     |         | 98     |                                                      |         |
| 98   | 2        | 30          | 1     | 0.170 | 12.539 | 12.5 | 105<br>5Yr | -0.5<br>-0.9 | 0.652<br>0.814 | 0.185<br>0.036 | 0.121<br>0.029 | 0.15     | 44  |         | 44         | 0.525        | 1.788<br>0.03PH | 1<br>SAG | 1.8   | 44     |         | 98     |                                                      |         |
| 76   | 2        | 15          | 1     | 0.170 | 7.302  | 7.3  | 131<br>5Yr | -0.2<br>-0.9 | 0.530<br>0.814 | 0.036<br>0.015 | 0.019<br>0.012 | 0.031    | 11  |         | 11         | 0.512        | 1.219           | 1        | 1.8   | 11     |         | 98     |                                                      |         |
| 108  | 2        | 20          | 1     | 0.170 | 9.545  | 9.5  | 118<br>5Yr | -0.5<br>-0.9 | 0.652<br>0.814 | 0.061<br>0.022 | 0.040<br>0.018 | 0.058    | 19  |         | 19         | 0.5          | 1.561<br>0.03PH | 1<br>SAG | 2.4   | 19     |         | 108    |                                                      |         |
| 107  | 2        | 30          | 1     | 0.170 | 13.237 | 13.2 | 103<br>5Yr | -0.5<br>-0.9 | 0.652<br>0.814 | 0.185<br>0.034 | 0.121<br>0.028 | 0.148    | 42  |         | 42         | 0.5          | 2.012<br>0.03PH | 1<br>SAG | 1.8   | 42     |         | 107    |                                                      |         |
| 82   | 1        | 45          | 0.5   | 0.053 | 8.329  | 8.3  | 124<br>5Yr | -0.1         | 0.490          | 0.1            | 0.049          | 0.049    | 17  |         | 17         | 0.5          | 1.014<br>0.03PH | 4<br>SAG |       | 17     |         | 82     |                                                      |         |
| 102  | 2        | 6           | 3     | 0.170 | 4.695  | 5    | 150<br>5Yr | -0.2<br>-0.9 | 0.530<br>0.814 | 0.005<br>0.030 | 0.003<br>0.024 | 0.027    | 11  |         | 11         | 0.5          | 1.088<br>0.03PH | 1<br>SAG | 1.8   | 11     |         | 102    |                                                      |         |
| 103  | 2        | 35          | 1     | 0.170 | 14.736 | 14.7 | 98<br>5Yr  | -0.5<br>-0.9 | 0.652<br>0.814 | 0.175<br>0.022 | 0.114<br>0.018 | 0.132    | 36  |         | 36         | 0.5          | 1.877<br>0.03PH | 1<br>SAG | 1.8   | 36     |         | 103    |                                                      |         |
| 104  | 2        | 6           | 3     | 0.170 | 0.739  | 5    | 150<br>5Yr | -0.2<br>-0.9 | 0.530<br>0.814 | 0.005<br>0.005 | 0.003<br>0.004 | 0.007    | 3   |         | 3          | 0.5          | 0.406           | 1        | 1.8   | 3      |         | 106    |                                                      |         |
| 106  | 2        | 20          | 1     | 0.170 | 10.735 | 10.7 | 112<br>5Yr | -0.5<br>-0.9 | 0.652<br>0.814 | 0.144<br>0.040 | 0.094<br>0.033 | 0.126    | 39  |         | 39         | 0.5          | 1.954<br>0.03PH | 1<br>SAG | 1.8   | 39     |         | 106    |                                                      |         |
| 114  | 3        | 10          | 1     | 0.170 | 5.578  | 5.6  | 144<br>5Yr | -0.3<br>-0.9 | 0.571<br>0.814 | 0.025<br>0.017 | 0.014<br>0.014 | 0.028    | 11  |         | 11         | 0.5          | 1.221           | 1        | 1.8   | 11     |         | 113    |                                                      |         |
| 113  | 2        | 35          | 1     | 0.170 | 14.517 | 14.5 | 99<br>5Yr  | -0.5<br>-0.9 | 0.652<br>0.814 | 0.136<br>0.025 | 0.089<br>0.020 | 0.109    | 30  |         | 30         | 0.5          | 1.825<br>0.03PH | 1<br>SAG | 1.8   | 30     |         | 113    |                                                      |         |
| 112  | 2        | 20          | 1     | 0.170 | 10.512 | 10.5 | 113<br>5Yr | -0.5<br>-0.9 | 0.652<br>0.814 | 0.111<br>0.025 | 0.072<br>0.020 | 0.093    | 29  |         | 29         | 0.5          | 1.805<br>0.03PH | 1<br>SAG | 1.8   | 29     |         | 112    |                                                      |         |
| 118  | 3        | 30          | 1     | 0.170 | 13.011 | 13   | 103<br>5Yr | -0.5<br>-0.9 | 0.652<br>0.814 | 0.180<br>0.036 | 0.117<br>0.029 | 0.147    | 42  |         | 42         | 0.5          | 2.206           | 1        | 1.8   | 42     |         | 112    |                                                      |         |
| 105  | 2        | 35          | 1     | 0.170 | 14.736 | 14.7 | 98<br>5Yr  | -0.5<br>-0.9 | 0.652<br>0.814 | 0.180<br>0.036 | 0.117<br>0.029 | 0.147    | 40  |         | 40         | 0.5          | 2.157           | 1        | 1.8   | 40     |         | 106    |                                                      |         |
| 83   | 2        | 30          | 1     | 0.170 | 12.292 | 12.3 | 106<br>5Yr | -0.5<br>-0.9 | 0.652<br>0.814 | 0.081<br>0.010 | 0.053<br>0.008 | 0.061    | 18  |         | 18         | 0.5          | 1.526           | 1        | 1.8   | 18     |         | 116    |                                                      |         |
| 87   | 2        | 30          | 1     | 0.170 | 12.779 | 12.8 | 104<br>5Yr | -0.5<br>-0.9 | 0.652<br>0.814 | 0.095<br>0.013 | 0.062<br>0.011 | 0.073    | 21  |         | 21         | 0.5          | 1.637           | 1        | 1.8   | 21     |         | 117    |                                                      |         |
| 119  | 3        | 30          | 1     | 0.170 | 12.292 | 12.3 | 106<br>5Yr | -0.5<br>-0.9 | 0.652<br>0.814 | 0.095<br>0.017 | 0.062<br>0.014 | 0.076    | 22  |         | 22         | 0.5          | 1.682           | 1        | 1.8   | 22     |         | 117    |                                                      |         |
| 117  | 3        | 30          | 1     | 0.170 | 12.779 | 12.8 | 104<br>5Yr | -0.5<br>-0.9 | 0.652<br>0.814 | 0.118<br>0.022 | 0.077<br>0.018 | 0.095    | 27  |         | 27         | 0.5          | 1.67<br>0.03PH  | 1<br>SAG | 1.8   | 27     |         | 117    |                                                      |         |
| 116  | 3        | 40          | 1     | 0.170 | 13.237 | 13.2 | 103<br>5Yr | -0.5<br>-0.9 | 0.652<br>0.814 | 0.185<br>0.025 | 0.121<br>0.020 | 0.141    | 40  |         | 40         | 0.5          | 1.969<br>0.03PH | 1<br>SAG | 1.8   | 40     |         | 116    |                                                      |         |
| 115  | 2        | 30          | 1     | 0.170 | 12.779 | 12.8 | 104<br>5Yr | -0.5<br>-0.9 | 0.652<br>0.814 | 0.113<br>0.021 | 0.074<br>0.017 | 0.091    | 26  |         | 26         | 0.5          | 1.807           | 1        | 1.8   | 26     |         | 116    |                                                      |         |
| 126  | 2        | 20          | 1     | 0.170 | 9.545  | 9.5  | 118<br>5Yr | -0.5<br>-0.9 | 0.652<br>0.814 | 0.058<br>0.030 | 0.038<br>0.024 | 0.062    | 20  |         | 20         | 0.512        | 1.264<br>0.03PH | 1<br>SAG | 1.8   | 20     |         | 126    |                                                      |         |
| 124  | 2        | 20          | 1     | 0.170 | 10.046 | 10   | 115<br>5Yr | -0.5<br>-0.9 | 0.652<br>0.814 | 0.079<br>0.021 | 0.052<br>0.017 | 0.069    | 22  |         | 22         | 0.502        | 1.668           | 1        | 1.8   | 22     |         | 123    |                                                      |         |
| 123  | 2        | 30          | 1     | 0.170 | 12.539 | 12.5 | 105<br>5Yr | -0.5<br>-0.9 | 0.652<br>0.814 | 0.118<br>0.022 | 0.077<br>0.018 | 0.095    | 28  |         | 28         | 0.5          | 1.766<br>0.03PH | 1<br>SAG | 1.8   | 28     |         | 123    |                                                      |         |
| 122  | 2        | 30          | 1     | 0.170 | 12.779 | 12.8 | 104<br>5Yr | -0.5<br>-0.9 | 0.652<br>0.814 | 0.111<br>0.017 | 0.072<br>0.014 | 0.086    | 25  |         | 25         | 0.5          | 1.688<br>0.03PH | 1<br>SAG | 1.8   | 25     |         | 122    |                                                      |         |
| 121  | 2        | 30          | 1     | 0.170 | 12.539 | 12.5 | 105<br>5Yr | -0.5<br>-0.9 | 0.652<br>0.814 | 0.1            | 0.065          | 0.086    | 25  |         | 25         | 0.511        | 1.76            | 1        | 1.8   | 25     |         | 122    |                                                      |         |
| 109A | 3        | 10          | 3     | 0.010 | 3.656  | 5    | 150<br>5Yr | -0.1<br>-0.9 | 0.490<br>0.814 | 0.079<br>0.053 | 0.039<br>0.043 | 0.082    | 34  |         | 34         | 0.5          | 0.705           | 4<br>SAG |       | 34     |         | 190A   |                                                      |         |
| 190A | 3        | 10          | 3     | 0.010 | 3.656  | 5    | 150<br>5Yr | -0.1<br>-0.9 | 0.490<br>0.814 | 0.036<br>0.034 | 0.018<br>0.028 | 0.045    | 19  |         | 19         | 0.5          | 0.565<br>0.03PH | 4<br>SAG |       | 19     |         | 190A   |                                                      |         |
| 91   | 2        | 35          | 1     | 0.170 | 14.517 | 14.5 | 99<br>5Yr  | -0.5<br>-0.9 | 0.652<br>0.814 | 0.218<br>0.023 | 0.142<br>0.023 | 0.165    | 45  |         | 45         | 0.5          | 2.27            | 1        | 1.8   | 45     |         | 109    |                                                      |         |
| 109  | 2        | 35          | 1     | 0.170 | 14.517 | 14.5 | 99<br>5Yr  | -0.5<br>-0.9 | 0.652<br>0.814 | 0.214<br>0.027 | 0.140<br>0.022 | 0.162    | 44  |         | 44         | 0.5          | 2.25            | 1        | 2.4   | 44     |         | 120    |                                                      |         |
| 120  | 2        | 40          | 1     | 0.170 | 15.756 | 15.8 | 95<br>5Yr  | -0.5<br>-0.9 | 0.652<br>0.814 | 0.237<br>0.031 | 0.155<br>0.025 | 0.18     | 47  |         | 47         | 0.5          | 2.315           | 1        | 2.4   | 47     |         | 190    |                                                      |         |
| 190  | 2        | 40          | 1     | 0.170 | 15.072 | 15.1 | 97<br>5Yr  | -0.5<br>-0.9 | 0.652<br>0.814 | 0.118<br>0.022 | 0.077<br>0.018 | 0.095    | 26  |         | 26         | 0.5          | 1.786<br>0.03PH | 1<br>SAG | 1.8   | 26     |         | 190    |                                                      |         |

## HYDRAULIC DESIGN SHEET

| PIT       | TIME | INTENSITY  | AREAS | FLOW | LENGTH            | DIAMETER | GRADE | H.G.L GRADE | VEL Q/A | K   | HEAD LOSS | VEL CAP | PIPE VEL | PIPE CAP | PIPE TIME | C=C.W. N=MANNINGS |            | REMARKS |
|-----------|------|------------|-------|------|-------------------|----------|-------|-------------|---------|-----|-----------|---------|----------|----------|-----------|-------------------|------------|---------|
|           |      |            |       |      |                   |          |       |             |         |     |           |         |          |          |           | MAX TIME 20       | HAWKS NEST |         |
|           | min  | mm/hr      | ha    | L/s  | m                 | mm       | %     | %           | m/s     |     | m         | m/s     | m/s      | L/s      | min       | AREA=ADP Q        |            |         |
| LINE 28   |      |            |       |      |                   |          |       |             |         |     |           |         |          |          |           |                   |            |         |
| 114-113   | 5.6  | 144<br>5Yr | 0.028 | 11   | 13.09<br>C0.0006  | 375      | 0.764 | 0.004       | 0.102   | 3.5 | 0.002     | 1.594   | 0.8      | 176      | 0.27      |                   |            |         |
| 113-112   | 14.5 | 98<br>5Yr  | 0.137 | 38   | 7.602<br>C0.0006  | 375      | 0.658 | 0.038       | 0.34    | 1.4 | 0.008     | 1.48    | 1.03     | 163      | 0.12      |                   |            |         |
| 112-118   | 14.6 | 98<br>5Yr  | 0.23  | 63   | 12.597<br>C0.0006 | 375      | 0.318 | 0.102       | 0.567   | 1.2 | 0.02      | 1.028   | 0.94     | 114      | 0.22      |                   |            |         |
| 118-105   | 14.9 | 97<br>5Yr  | 0.377 | 102  | 66.15<br>C0.0006  | 451      | 0.302 | 0.102       | 0.638   | 1   | 0.021     | 1.126   | 1.04     | 180      | 1.06      |                   |            |         |
| 105-110   | 16.4 | 93<br>5Yr  | 1.071 | 278  | 18.561<br>C0.0006 | 522      | 0.485 | 0.342       | 1.297   | 1.1 | 0.094     | 1.563   | 1.62     | 334      | 0.19      |                   |            |         |
| LINE 30   |      |            |       |      |                   |          |       |             |         |     |           |         |          |          |           |                   |            |         |
| 83-87     | 12.3 | 105<br>5Yr | 0.061 | 18   | 11.625<br>C0.0006 | 375      | 0.43  | 0.01        | 0.162   | 3.5 | 0.005     | 1.196   | 0.72     | 132      | 0.27      |                   |            |         |
| 87-117    | 12.8 | 104<br>5Yr | 0.133 | 39   | 37.858<br>C0.0006 | 375      | 0.343 | 0.04        | 0.35    | 1.2 | 0.007     | 1.069   | 0.83     | 118      | 0.76      |                   |            |         |
| LINE 31   |      |            |       |      |                   |          |       |             |         |     |           |         |          |          |           |                   |            |         |
| 119-117   | 12.3 | 105<br>5Yr | 0.076 | 22   | 12.896<br>C0.0006 | 375      | 0.388 | 0.014       | 0.202   | 3.5 | 0.007     | 1.136   | 0.73     | 125      | 0.29      |                   |            |         |
| 117-116   | 13.5 | 101<br>5Yr | 0.304 | 86   | 7.699<br>C0.0006  | 451      | 0.39  | 0.073       | 0.537   | 2.1 | 0.031     | 1.279   | 1.08     | 204      | 0.12      |                   |            |         |
| 116-115   | 13.7 | 101<br>5Yr | 0.445 | 125  | 12.145<br>C0.0006 | 451      | 0.329 | 0.152       | 0.783   | 1.3 | 0.041     | 1.175   | 1.14     | 188      | 0.18      |                   |            |         |
| 115-129   | 13.8 | 100<br>5Yr | 0.536 | 150  | 19.7<br>C0.0006   | 451      | 0.305 | 0.217       | 0.937   | 1.2 | 0.054     | 1.13    | 1.17     | 181      | 0.28      |                   |            |         |
| LINE 32   |      |            |       |      |                   |          |       |             |         |     |           |         |          |          |           |                   |            |         |
| 126-124   | 9.5  | 117<br>5Yr | 0.062 | 20   | 55.17<br>C0.0006  | 375      | 0.326 | 0.012       | 0.184   | 3.5 | 0.006     | 1.042   | 0.67     | 115      | 1.37      |                   |            |         |
| 124-123   | 10.9 | 111<br>5Yr | 0.131 | 40   | 11.756<br>C0.0006 | 375      | 0.3   | 0.043       | 0.366   | 1.2 | 0.008     | 0.999   | 0.81     | 110      | 0.24      |                   |            |         |
| 123-122   | 12.5 | 104<br>5Yr | 0.226 | 66   | 8.372<br>C0.0006  | 375      | 0.3   | 0.113       | 0.596   | 1.1 | 0.02      | 0.999   | 0.94     | 110      | 0.15      |                   |            |         |
| 122-121   | 12.8 | 104<br>5Yr | 0.312 | 90   | 13.337<br>C0.0006 | 451      | 0.3   | 0.08        | 0.565   | 1.1 | 0.018     | 1.122   | 1        | 179      | 0.22      |                   |            |         |
| 121-127   | 13   | 103<br>5Yr | 0.397 | 114  | 26.66<br>C0.0006  | 451      | 0.3   | 0.127       | 0.714   | 1.1 | 0.029     | 1.122   | 1.07     | 179      | 0.42      |                   |            |         |
| LINE 69   |      |            |       |      |                   |          |       |             |         |     |           |         |          |          |           |                   |            |         |
| 109A-109  | 5    | 150<br>5Yr | 0.082 | 34   | 14.2<br>C0.0006   | 451      | 0.352 | 0.013       | 0.214   | 3.5 | 0.008     | 1.215   | 0.78     | 194      | 0.3       |                   |            |         |
| LINE 21   |      |            |       |      |                   |          |       |             |         |     |           |         |          |          |           |                   |            |         |
| 190A-190  | 5    | 150<br>5Yr | 0.045 | 19   | 14.2<br>C0.0006   | 375      | 0.352 | 0.011       | 0.171   | 3.5 | 0.005     | 1.083   | 0.67     | 120      | 0.35      |                   |            |         |
| LINE 68   |      |            |       |      |                   |          |       |             |         |     |           |         |          |          |           |                   |            |         |
| 91-109    | 14.5 | 98<br>5Yr  | 0.165 | 45   | 48.394<br>C0.0006 | 375      | 0.413 | 0.054       | 0.409   | 3.5 | 0.03      | 1.173   | 0.93     | 130      | 0.87      |                   |            |         |
| 109-120   | 15.4 | 95<br>5Yr  | 0.408 | 109  | 56.254<br>C0.0006 | 375      | 0.338 | 0.301       | 0.986   | 1.5 | 0.074     | 1.06    | 1.13     | 117      | 0.83      |                   |            |         |
| 120-190   | 16.2 | 93<br>5Yr  | 0.588 | 153  | 31.625<br>C0.0006 | 451      | 0.316 | 0.226       | 0.959   | 1   | 0.047     | 1.152   | 1.19     | 184      | 0.44      |                   |            |         |
| 190-191   | 16.7 | 92<br>5Yr  | 0.728 | 187  | 12.794<br>C0.0006 | 522      | 0.313 | 0.158       | 0.875   | 1.2 | 0.047     | 1.255   | 1.23     | 269      | 0.17      |                   |            |         |
| 191-192   | 16.8 | 92<br>5Yr  | 0.798 | 204  | 19.701<br>C0.0006 | 522      | 0.305 | 0.187       | 0.954   | 1.2 | 0.056     | 1.238   | 1.25     | 265      | 0.26      |                   |            |         |
| 192-193   | 17.1 | 91<br>5Yr  | 0.821 | 209  | 16.782<br>C0.0006 | 522      | 0.358 | 0.195       | 0.975   | 1   | 0.049     | 1.342   | 1.34     | 287      | 0.21      |                   |            |         |
| 193-233   | 17.3 | 90<br>5Yr  | 0.974 | 246  | 15.158<br>C0.0006 | 522      | 0.33  | 0.27        | 1.15    | 1.5 | 0.101     | 1.289   | 1.36     | 276      | 0.19      |                   |            |         |
| LINE 74   |      |            |       |      |                   |          |       |             |         |     |           |         |          |          |           |                   |            |         |
| 160-186   | 11.4 | 109<br>5Yr | 0.079 | 24   | 7.502<br>C0.0006  | 375      | 0.333 | 0.016       | 0.217   | 3.5 | 0.008     | 1.053   | 0.71     | 116      | 0.18      |                   |            |         |
| 186-187   | 12.5 | 104<br>5Yr | 0.167 | 49   | 12.889<br>C0.0006 | 375      | 0.31  | 0.062       | 0.44    | 1.3 | 0.013     | 1.016   | 0.86     | 112      | 0.25      |                   |            |         |
| 187-185   | 12.8 | 104<br>5Yr | 0.208 | 60   | 7.5<br>C0.0006    | 375      | 0.4   | 0.094       | 0.545   | 0.9 | 0.014     | 1.154   | 1.01     | 127      | 0.12      |                   |            |         |
| LINE 73   |      |            |       |      |                   |          |       |             |         |     |           |         |          |          |           |                   |            |         |
| 226-227   | 12   | 106<br>5Yr | 0.065 | 19   | 10.29<br>C0.0006  | 375      | 0.777 | 0.011       | 0.174   | 3.5 | 0.005     | 1.609   | 0.92     | 178      | 0.19      |                   |            |         |
| LINE 72   |      |            |       |      |                   |          |       |             |         |     |           |         |          |          |           |                   |            |         |
| 228-229   | 13.2 | 102<br>5Yr | 0.129 | 37   | 7.606<br>C0.0006  | 375      | 0.329 | 0.036       | 0.332   | 3.5 | 0.02      | 1.046   | 0.81     | 116      | 0.16      |                   |            |         |
| LINE 71   |      |            |       |      |                   |          |       |             |         |     |           |         |          |          |           |                   |            |         |
| 188-189   | 13   | 103<br>5Yr | 0.089 | 25   | 7.514<br>C0.0006  | 375      | 0.466 | 0.018       | 0.23    | 3.5 | 0.009     | 1.245   | 0.81     | 138      | 0.15      |                   |            |         |
| 189-224   | 14.3 | 99<br>5Yr  | 0.191 | 53   | 12.637<br>C0.0006 | 375      | 0.317 | 0.072       | 0.477   | 1.3 | 0.015     | 1.026   | 0.89     | 113      | 0.24      |                   |            |         |
| 224-225   | 14.5 | 98<br>5Yr  | 0.285 | 78   | 7.501<br>C0.0006  | 375      | 0.333 | 0.157       | 0.706   | 1.2 | 0.031     | 1.053   | 1.02     | 116      | 0.12      |                   |            |         |
| 225-185   | 14.7 | 98<br>5Yr  | 0.31  | 85   | 13.145<br>C0.0006 | 375      | 0.304 | 0.183       | 0.765   | 0.6 | 0.018     | 1.006   | 1.01     | 111      | 0.22      |                   |            |         |
| 185-227   | 14.9 | 97<br>5Yr  | 0.599 | 162  | 62.312<br>C0.0006 | 522      | 0.305 | 0.119       | 0.757   | 1.2 | 0.035     | 1.239   | 1.17     | 265      | 0.89      |                   |            |         |
| 227-229   | 15.8 | 94<br>5Yr  | 0.762 | 201  | 46.601<br>C0.0006 | 522      | 0.311 | 0.181       | 0.939   | 1.4 | 0.063     | 1.252   | 1.26     | 268      | 0.62      |                   |            |         |
| 229-230   | 16.4 | 93<br>5Yr  | 0.995 | 258  | 12.99<br>C0.0006  | 522      | 0.308 | 0.297       | 1.206   | 1.3 | 0.096     | 1.245   | 1.34     | 267      | 0.16      |                   |            |         |
| LINE 76   |      |            |       |      |                   |          |       |             |         |     |           |         |          |          |           |                   |            |         |
| 220-221   | 11.4 | 109<br>5Yr | 0.078 | 24   | 7.606<br>C0.0006  | 375      | 0.329 | 0.016       | 0.215   | 3.5 | 0.008     | 1.046   | 0.7      | 116      | 0.18      |                   |            |         |
| LINE 77   |      |            |       |      |                   |          |       |             |         |     |           |         |          |          |           |                   |            |         |
| 179A-179A | 11.2 | 110<br>5Yr | 0.118 | 36   | 3.5<br>C0.0006    | 375      | 0.3   | 0.035       | 0.328   | 3.5 | 0.019     | 0.999   | 0.78     | 110      | 0.07      |                   |            |         |
| 179A-259  | 12   | 106<br>5Yr | 0.188 | 56   | 17.02<br>C0.0006  | 375      | 0.323 | 0.082       | 0.506   | 1.8 | 0.024     | 1.037   | 0.91     | 115      | 0.31      |                   |            |         |
| LINE 78   |      |            |       |      |                   |          |       |             |         |     |           |         |          |          |           |                   |            |         |
| 194-195   | 7.8  | 127<br>5Yr | 0.041 | 14   | 7.619<br>C0.0006  | 375      | 0.328 | 0.006       | 0.13    | 3.5 | 0.003     | 1.045   | 0.61     | 115      | 0.21      |                   |            |         |
| 195-198   | 8    | 126<br>5Yr | 0.071 | 25   | 12.867<br>C0.0006 | 375      | 0.311 | 0.017       | 0.224   | 1.3 | 0.003     | 1.017   | 0.7      | 112      | 0.31      |                   |            |         |