

## Appendix E. Example Output from T-REX and T-HERPS

### 1. T-REX: Summary of Risk Quotient Calculations Based on Upper-Bound Kenaga EECs

| Table X. Upper Bound Kenaga, Acute Avian Dose-Based Risk Quotients |               |              |       |            |       |                                 |       |                                   |      |           |      |
|--|---------------|--------------|-------|------------|-------|---------------------------------|-------|-----------------------------------|------|-----------|------|
| Size Class (grams)   | Adjusted LD50 | EECs and RQs |       |            |       |                                 |       |                                   |      |           |      |
|  |               | Short Grass  |       | Tall Grass |       | Broadleaf Plants/ Small Insects |       | Fruits/Pods/ Seeds/ Large Insects |      | Granivore |      |
|  |               | EEC          | RQ    | EEC        | RQ    | EEC                             | RQ    | EEC                               | RQ   | EEC       | RQ   |
| 20   | 16.47         | 574.01       | 34.85 | 263.09     | 15.97 | 322.88                          | 19.60 | 35.88                             | 2.18 | 7.97      | 0.48 |
| 100  | 20.97         | 327.32       | 15.61 | 150.02     | 7.15  | 184.12                          | 8.78  | 20.46                             | 0.98 | 4.55      | 0.22 |
| 1000   | 29.62         | 146.55       | 4.95  | 67.17      | 2.27  | 82.43                           | 2.78  | 9.16                              | 0.31 | 2.04      | 0.07 |

| Table X. Upper Bound Kenaga, Subacute Avian Dietary Based Risk Quotients |              |      |            |      |                                 |      |                                   |      |
|--|--------------|------|------------|------|---------------------------------|------|-----------------------------------|------|
| LC50   | EECs and RQs |      |            |      |                                 |      |                                   |      |
|  | Short Grass  |      | Tall Grass |      | Broadleaf Plants/ Small Insects |      | Fruits/Pods/ Seeds/ Large Insects |      |
|  | EEC          | RQ   | EEC        | RQ   | EEC                             | RQ   | EEC                               | RQ   |
| 1327   | 504.00       | 0.38 | 231.00     | 0.17 | 283.50                          | 0.21 | 31.50                             | 0.02 |

Size class not used for dietary risk quotients

| Table X. Upper Bound Kenaga, Chronic Avian Dietary Based Risk Quotients |              |      |            |      |                                 |      |                                   |      |
|---|--------------|------|------------|------|---------------------------------|------|-----------------------------------|------|
| NOAEC (ppm)   | EECs and RQs |      |            |      |                                 |      |                                   |      |
|   | Short Grass  |      | Tall Grass |      | Broadleaf Plants/ Small Insects |      | Fruits/Pods/ Seeds/ Large Insects |      |
|   | EEC          | RQ   | EEC        | RQ   | EEC                             | RQ   | EEC                               | RQ   |
| 260   | 504.00       | 1.94 | 231.00     | 0.89 | 283.50                          | 1.09 | 31.50                             | 0.12 |

Size class not used for dietary risk quotients

| Table X. Upper Bound Kenaga, Acute Mammalian Dose-Based Risk Quotients |               |              |      |            |      |                                 |      |                                   |      |           |      |
|--|---------------|--------------|------|------------|------|---------------------------------|------|-----------------------------------|------|-----------|------|
| Size Class (grams)   | Adjusted LD50 | EECs and RQs |      |            |      |                                 |      |                                   |      |           |      |
|  |               | Short Grass  |      | Tall Grass |      | Broadleaf Plants/ Small Insects |      | Fruits/Pods/ Seeds/ Large Insects |      | Granivore |      |
|  |               | EEC          | RQ   | EEC        | RQ   | EEC                             | RQ   | EEC                               | RQ   | EEC       | RQ   |
| 15   | 202.20        | 480.53       | 2.38 | 220.24     | 1.09 | 270.30                          | 1.34 | 30.03                             | 0.15 | 6.67      | 0.03 |
| 35   | 163.60        | 332.11       | 2.03 | 152.22     | 0.93 | 186.81                          | 1.14 | 20.76                             | 0.13 | 4.61      | 0.03 |
| 1000   | 70.76         | 77.00        | 1.09 | 35.29      | 0.50 | 43.31                           | 0.61 | 4.81                              | 0.07 | 1.07      | 0.02 |

| Table X. Upper Bound Kenaga, Acute Mammalian Dietary Based Risk Quotients |              |         |            |         |                                    |         |   |         |
|---|--------------|---------|------------|---------|------------------------------------|---------|---|---------|
| LC50<br>(ppm)   | EECs and RQs |         |            |         |                                    |         |   |         |
|   | Short Grass  |         | Tall Grass |         | Broadleaf Plants/<br>Small Insects |         | Fruits/Pods/<br>Seeds/<br>Large Insects |         |
|   | EEC          | RQ      | EEC        | RQ      | EEC                                | RQ      | EEC                                     | RQ      |
| 0   | 504.00       | #DIV/0! | 231.00     | #DIV/0! | 283.50                             | #DIV/0! | 31.50                                   | #DIV/0! |

Size class not used for dietary risk quotients

| Table X. Upper Bound Kenaga, Chronic Mammalian Dietary Based Risk Quotients |              |      |            |      |                                    |      |   |      |
|---|--------------|------|------------|------|------------------------------------|------|---|------|
| NOAEC<br>(ppm)  | EECs and RQs |      |            |      |                                    |      |   |      |
|   | Short Grass  |      | Tall Grass |      | Broadleaf Plants/<br>Small Insects |      | Fruits/Pods/<br>Seeds/<br>Large Insects |      |
|   | EEC          | RQ   | EEC        | RQ   | EEC                                | RQ   | EEC                                     | RQ   |
| 120   | 504.00       | 4.20 | 231.00     | 1.93 | 283.50                             | 2.36 | 31.50                                   | 0.26 |

Size class not used for dietary risk quotients

| Table X. Upper Bound Kenaga, Chronic Mammalian Dose-Based Risk Quotients |                   |              |       |            |       |                                    |       |   |      |           |      |
|--|-------------------|--------------|-------|------------|-------|------------------------------------|-------|---|------|-----------|------|
| Size Class<br>(grams)  | Adjusted<br>NOAEL | EECs and RQs |       |            |       |                                    |       |   |      |           |      |
|  |                   | Short Grass  |       | Tall Grass |       | Broadleaf Plants/<br>Small Insects |       | Fruits/Pods/<br>Seeds/<br>Large Insects |      | Granivore |      |
|  |                   | EEC          | RQ    | EEC        | RQ    | EEC                                | RQ    | EEC                                     | RQ   | EEC       | RQ   |
| 15   | 13.19             | 480.53       | 36.44 | 220.24     | 16.70 | 270.30                             | 20.50 | 30.03                                   | 2.28 | 6.67      | 0.51 |
| 35   | 10.67             | 332.11       | 31.13 | 152.22     | 14.27 | 186.81                             | 17.51 | 20.76                                   | 1.95 | 4.61      | 0.43 |
| 1000   | 4.61              | 77.00        | 16.68 | 35.29      | 7.65  | 43.31                              | 9.39  | 4.81                                    | 1.04 | 1.07      | 0.23 |

## 2. T-HERPS: Summary of Risk Quotient Calculations Based on Upper Bound Kenaga EECs<sup>1</sup>

### Summary of EECs and RQs Based on Upper Bound Kenaga EECs

| Table X. Upper Bound Kenaga, Acute Terrestrial Herpetofauna Dose-Based Risk Quotients |                  |                                       |      |   |      |                      |       |                       |      |            |      |
|---|------------------|---------------------------------------|------|---|------|----------------------|-------|-----------------------|------|------------|------|
| Size Class<br>(grams)   | Adjusted<br>LD50 | EECs and RQs                          |      |   |      |                      |       |                       |      |            |      |
|   |                  | Broadleaf<br>Plants/<br>Small Insects |      | Fruits/Pods/<br>Seeds/<br>Large Insects |      | Herbivore<br>Mammals |       | Insectivore<br>Mammal |      | Amphibians |      |
|   |                  | EEC                                   | RQ   | EEC                                     | RQ   | EEC                  | RQ    | EEC                   | RQ   | EEC        | RQ   |
| 2.0   | 11.66            | 10.50                                 | 0.90 | 1.17                                    | 0.10 | 792.88               | 68.00 | 49.55                 | 4.25 | 10.90      | 0.94 |
| 20  | 16.47            | 6.22                                  | 0.38 | 0.69                                    | 0.04 | 318.60               | 19.34 | 19.91                 | 1.21 | 7.34       | 0.45 |
| 200   | 23.27            | 3.69                                  | 0.16 | 0.41                                    | 0.02 | 128.02               | 5.50  | 8.00                  | 0.34 | 4.94       | 0.21 |

| Table X. Upper Bound Kenaga, Subacute Terrestrial Herpetofauna Dietary Based Risk Quotients |                                    |      |   |      |                      |      |                        |      |            |      |
|---|------------------------------------|------|---|------|----------------------|------|------------------------|------|------------|------|
| LC50<br>(ppm)   | EECs and RQs                       |      |   |      |                      |      |                        |      |            |      |
|   | Broadleaf Plants/<br>Small Insects |      | Fruits/Pods/<br>Seeds/<br>Large Insects |      | Herbivore<br>Mammals |      | Insectivore<br>Mammals |      | Amphibians |      |
|   | EEC                                | RQ   | EEC                                     | RQ   | EEC                  | RQ   | EEC                    | RQ   | EEC        | RQ   |
| 1327  | 189.00                             | 0.14 | 21.00                                   | 0.02 | 257.56               | 0.19 | 16.10                  | 0.01 | 5.93       | 0.00 |

Size class not used for dietary risk quotients

| Table X. Upper Bound Kenaga, Chronic Terrestrial Herpetofauna Dietary Based Risk Quotients |                                    |      |   |      |                      |      |                        |      |            |      |
|--|------------------------------------|------|---|------|----------------------|------|------------------------|------|------------|------|
| NOAEC<br>(ppm)   | EECs and RQs                       |      |   |      |                      |      |                        |      |            |      |
|  | Broadleaf Plants/<br>Small Insects |      | Fruits/Pods/<br>Seeds/<br>Large Insects |      | Herbivore<br>Mammals |      | Insectivore<br>Mammals |      | Amphibians |      |
|  | EEC                                | RQ   | EEC                                     | RQ   | EEC                  | RQ   | EEC                    | RQ   | EEC        | RQ   |
| 260  | 189.00                             | 0.73 | 21.00                                   | 0.08 | 257.56               | 0.99 | 16.10                  | 0.06 | 5.93       | 0.02 |

Size class not used for dietary risk quotients

<sup>1</sup> Size class is not used for dietary-based (*i.e.*, not dose-adjusted) EECs and RQs.

<sup>2</sup> Although dose-based exposure estimates were calculated for a 20 g terrestrial-phase CTS, dose-based RQs were not calculated because the dose-based toxicity endpoint for birds (as a surrogate for terrestrial-phase amphibians and reptiles) was non-definitive (*i.e.*, “#####” or “#DIV/0!”).