



Appendix D Fauna Trap Effort

Vertebrate Fauna Survey

North Star Junction Additional Area

Fortescue Pty Ltd

SLR Project No.: 675.072466.00001

17 September 2025

2022 trap site survey effort

| Habitat | Site number | Lat/long (WGS84) | Number of nights open | Total pitfall trap nights | Total funnel trap nights |
|-----------------------------------|-------------|--------------------|-----------------------|---------------------------|--------------------------|
| Plain (sand) | NS-TRA-01 | -21.1245, 118.7490 | 7 | 70 | 84 |
| Plain (stony/gibber) | NS-TRA-02 | -21.1262, 118.7731 | 7 | 70 | 84 |
| Drainage Line/River/Creek (major) | NS-TRA-03 | -21.1623, 118.8891 | 7 | 70 | 84 |
| Drainage Line/River/Creek (minor) | NS-TRA-04 | -21.1958, 118.8688 | 7 | 70 | 84 |
| Plain (stony/gibber) | NS-TRA-05 | -21.1943, 118.8508 | 7 | 70 | 84 |
| Drainage Line/River/Creek (major) | NS-TRA-06 | -21.2291, 118.8638 | 7 | 70 | 84 |
| Granite Outcrop | NS-TRA-07 | -21.2963, 118.8233 | 7 | 70 | 84 |
| Total | | | 49 | 490 | 588 |

2024 – 2025 trap site survey effort

| Habitat | Site number | Lat/long (WGS84) | Number of nights open | Total pitfall trap nights | Total funnel trap nights | Total small Elliott trap nights |
|-----------------------------------|-------------|--------------------|-----------------------|---------------------------|--------------------------|---------------------------------|
| Plain (sand) | NS-TRA-08 | -21.1682, 118.7634 | 14 | 140 | 168 | 70 |
| Hills/Ranges/Plateaux | NS-TRA-09 | -21.1785, 118.7744 | 14 | 0 | 168 | 70 |
| Plain (sand) | NS-TRA-10 | -21.1560, 118.7807 | 14 | 140 | 168 | 70 |
| Drainage Line/River/Creek (major) | NS-TRA-11 | -21.1388, 118.7955 | 14 | 140 | 168 | 70 |
| Plain (stony/gibber) | NS-TRA-12 | -21.1454, 118.8129 | 14 | 140 | 168 | 70 |
| Drainage Line/River/Creek (major) | NS-TRA-13 | -21.1658, 118.8174 | 14 | 140 | 168 | 70 |
| Drainage Line/River/Creek (minor) | NS-TRA-14 | -21.1826, 118.8310 | 14 | 140 | 168 | 70 |
| Plain (stony/gibber) | NS-TRA-15 | -21.1635, 118.8316 | 14 | 70 | 84 | 35 |
| Total | | | 112 | 910 | 1,260 | 525 |

Camera trap survey effort

| Habitat | Site number | Lat/long (WGS84) | Number of camera traps | Total camera trap nights |
|-----------------------------------|-------------|--|------------------------|--------------------------|
| 2022 survey | | | | |
| Drainage Line/River/Creek (major) | NS-TRA-03 | -21.1623, 118.8891 | 10 | 50 |
| Drainage Line/River/Creek (minor) | NS-TRA-04 | -21.1958, 118.8688 | 10 | 50 |
| Drainage Line/River/Creek (major) | NS-TRA-06 | -21.2291, 118.8638 | 10 | 50 |
| Granite Outcrop | NS-TRA-07 | -21.2963, 118.8233 | 10 | 60 |
| 2024 survey | | | | |
| Plain (sand) | NS-TRA-08 | -21.1681, 118.76 -21.1686, 118.7638 | 2 | 14 |
| Hills/Ranges/Plateaux | NS-TRA-09 | -21.1784, 118.7746 -21.1782, 118.7742 | 2 | 14 |
| Plain (sand) | NS-TRA-10 | -21.1555, 118.7803 -21.1561, 118.7802 | 2 | 14 |
| Drainage Line/River/Creek (major) | NS-TRA-11 | -21.1387, 118.7953 -21.1391, 118.7953 | 2 | 14 |
| Plain (stony/gibber) | NS-TRA-12 | -21.1452, 118.8129 -21.1454, 118.8125 | 2 | 14 |
| Drainage Line/River/Creek (major) | NS-TRA-13 | -21.1659, 118.8174 -21.1659, 118.8172 | 2 | 14 |
| Drainage Line/River/Creek (minor) | NS-TRA-14 | -21.1828, 118.8307 -21.1827, 118.8309 | 2 | 14 |
| Plain (stony/gibber) | NS-TRA-15 | -21.1633, 118.8315 -21.1635, 118.8315 | 2 | 14 |
| Rocky Escarpments/Ridges/Mesa | NS-CAM-16 | -21.1770, 118.7680 | 10 | 50 |

| Habitat | Site number | Lat/long (WGS84) | Number of camera traps | Total camera trap nights |
|-----------------------------------|-------------|--|------------------------|--------------------------|
| Drainage Line/River/Creek (minor) | NS-CAM-17 | -21.1573, 118.7997 | 10 | 50 |
| Drainage Line/River/Creek (major) | NS-CAM-18 | -21.1404, 118.7935 | 10 | 50 |
| Drainage Line/River/Creek (major) | NS-CAM-19 | -21.1720, 118.8219 | 10 | 50 |
| Granite Outcrop | NS-CAM-20 | -21.1794, 118.8193 | 1 | 4 |
| 2025 survey | | | | |
| Rocky Escarpments/Ridges/Mesa | NS-CAM-21 | -21.1782, 118.7671 | 10 | 40 |
| Drainage Line/River/Creek (major) | NS-CAM-22 | -21.1741, 118.8193 | 10 | 40 |
| Granite Outcrop | NS-CAM-23 | -21.1380, 118.7959 | 5 | 20 |
| Plain (sand) | NS-TRA-08 | -21.1682, 118.7636 -21.1687, 118.7638 | 2 | 14 |
| Hills/Ranges/Plateaux | NS-TRA-09 | -21.1779, 118.7740 -21.1784, 118.7746 | 2 | 14 |
| Plain (sand) | NS-TRA-10 | -21.1555, 118.7803 -21.1560, 118.7800 | 2 | 14 |
| Drainage Line/River/Creek (major) | NS-TRA-11 | -21.1386, 118.7953 -21.1392, 118.7955 | 2 | 14 |
| Plain (sand) | NS-TRA-12 | -21.1455, 118.8125 -21.1454, 118.8133 | 2 | 14 |
| Drainage Line/River/Creek (major) | NS-TRA-13 | -21.1663, 118.8174 -21.1649, 118.8168 | 2 | 14 |
| Drainage Line/River/Creek (minor) | NS-TRA-14 | -21.1827, 118.8309 -21.1828, 118.8307 | 2 | 14 |
| Plain (stony/gibber) | NS-TRA-15 | -21.1634, 118.8315 -21.1635, | 2 | 14 |

| Habitat | Site number | Lat/long (WGS84) | Number of camera traps | Total camera trap nights |
|--------------|-------------|------------------|------------------------|--------------------------|
| | | 118.8316 | | |
| Total | | | 137 | 738 |

Ultrasonic bat survey effort

| Habitat | Site number | Lat/long (WGS84) | Trap nights |
|-----------------------------------|-------------|---------------------|-------------|
| 2022 survey | | | |
| Hills/Ranges/Plateaux | NS-BAT-01 | -21.1846, 118.8891 | 5 |
| Drainage Line/River/Creek (minor) | NS-TRA-01 | -21.1244, 118.7482 | 10 |
| Drainage Line/River/Creek (major) | NS-TRA-03 | -21.1623, 118.8891 | 7 |
| Plain (sand) | NS-TRA-04 | -21.1958, 118.8688 | 7 |
| Drainage Line/River/Creek (major) | NS-TRA-06 | -21.2291, 118.8638 | 8 |
| Granite Outcrop | NS-TRA-07 | -21.2963, 118.8233 | 7 |
| 2024 survey | | | |
| Plain (sand) | NS-TRA-08 | -21.1684, 118.7629 | 9 |
| Drainage Line/River/Creek (major) | NS-TRA-11 | -21.1395, 118.7943 | 10 |
| Drainage Line/River/Creek (major) | NS-TRA-13 | -21.1650, 118.8168 | 9 |
| Rocky Escarpments/Ridges/Mesa | NS-BAT-16 | -21.1782, 118.7670 | 5 |
| 2025 survey | | | |
| Plain (sand) | NS-TRA-08 | -21.1684, 118.7629 | 9 |
| Drainage Line/River/Creek (major) | NS-TRA-11 | -21.1395, 118.7943 | 10 |
| Drainage Line/River/Creek (major) | NS-TRA-13 | -21.1650, 118.8168 | 9 |
| Rocky Escarpments/Ridges/Mesa | NS-BAT-16 | -21.1782, 118.7670 | 5 |
| Plain (sand) | NS-TRA-08 | -21.1685, 118.7638 | 4 |
| Hills/Ranges/Plateaux | NS-TRA-09 | -21.17866, 118.7741 | 4 |
| Plain (sand) | NS-TRA-10 | -21.1561, 118.7804 | 4 |
| Plain (sand) | NS-TRA-12 | -21.1455, 118.8126 | 4 |
| Drainage Line/River/Creek (major) | NS-TRA-13 | -21.1648, 118.8172 | 4 |
| Plain (stony/gibber) | NS-TRA-14 | -21.1828, 118.8308 | 4 |
| Plain (stony/gibber) | NS-TRA-15 | -21.1632, 118.8310 | 4 |

| Habitat | Site number | Lat/long (WGS84) | Trap nights |
|-----------------------------------|-------------|--------------------|-------------|
| Drainage Line/River/Creek (major) | NS-BAT-23 | -21.1389, 118.7947 | 4 |
| Total | | | 142 |

Acoustic bird survey effort

| Habitat | Site numbers | Lat/long (WGS84) | Trap nights |
|-----------------------------------|--------------|--------------------|-------------|
| 2022 survey | | | |
| Plain (sand) | NS-TRA-02 | -21.1262, 118.7731 | 7 |
| Plain (stony/gibber) | NS-TRA-05 | -21.1943, 118.8508 | 7 |
| 2024 survey | | | |
| Plain (sand) | NS-TRA-08 | -21.6849, 118.7629 | 6 |
| Drainage Line/River/Creek (major) | NS-BIRD-19 | -21.1731, 118.8212 | 6 |
| Total | | | 26 |

2022 Bilby search effort

| Habitat | Site numbers | Lat/long (WGS84) | Total distance covered (km) ¹ |
|---|---------------------------------|--|--|
| Plain (stony/gibber) | NS-HAB-02 | -21.1943, 118.8551 | 6 |
| Plain (stony/gibber), Hills/Ranges/Plateaux | NS-HAB-04, NS-HAB-05, NS-HAB-06 | -21.1801, 118.8416 -21.1829, 118.8443 -21.1820, 118.8459 | 6 |
| Plain (stony/gibber), Plain (sand) | NS-HAB-09, NS-HAB-10, NS-HAB-11 | -21.1585, 118.7623 -21.1580, 118.7649 -21.1598, 118.7636 | 6 |
| Plain (stony/gibber), Plain (sand) | NS-HAB-12, NS-HAB-13 | -21.3198, 118.8621 -21.3190, 118.8576 | 6 |
| Plain (stony/gibber), Plain (sand) | NS-HAB-14, NS-HAB-15, NS-HAB-16 | -21.2819, 118.8446 -21.2815, 118.8415 -21.2814, 118.8381 | 6 |
| Total | | | 32 |

¹ Total distance covered by four personnel covering approximately 1.5 km per transect

2024 – 2025 Bilby search effort

| Habitat | Site numbers | Lat/long (WGS84) | Search area (ha) |
|--------------------------------------|----------------------|---|------------------|
| 2024 survey | | | |
| Plain (sand) | NS-BIL-01, NS-BIL-03 | -21.1741, 118.8088 -21.1405, 118.7526 | 2 |
| Plain (stony/gibber) | NS-BIL-02 | -21.1491, 118.8088 | 2 |
| 2025 survey | | | |
| Plain (sand) | NS-BIL-04, NS-BIL-05 | -21.1515, 118.7718 -21.16753, 118.7686 | 2 |
| Drainage Line/River/Creek (major) | NS-BIL-06 | -21.1592, 118.7909 | 2 |
| Total | | | 8 |