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**Common\_Name** Loc-44**Site\_Id** 5501**Mineral\_Categories** Alloying metals**Major\_Commodity** Manganese**Minor\_Commodity****Status** Mineral occurrence**Cox\_Classification** Sedimentary Mn**Mineral\_Field****Tectonic\_Unit** Georgina Basin**Sub\_Unit****Name\_Of\_Age****Latitude\_GDA** -22.2670001349244**Longitude\_GDA** 137.076323828989**Map100K** Alkea**Map250K** TOBERMOREY**MGA\_E** 713950**MGA\_N** 7536150**MGA\_Zone** 53**Comments** Rock chip sample assayed 28.7% Mn. Two vertical RC holes failed to intersect manganese mineralisation at depth.**Ref\_Description** Location of rock sample**Location\_Description****Size** Occurrence only**Orebody\_Shape** Stratiform**Grain\_Size****Model** manganese**Overall\_Style1** bedded**Overall\_Style2** massive**Ore\_Controls1** Host rock**Ore\_Controls2****Mining\_Method****Mine\_Workings\_Description****Opencut\_Length** 0**Opencut\_Width** 0**Opencut\_Depth** 0**Strike****Dip** 0**Dip\_Direction****Plunge** 0

|                            |                      |
|----------------------------|----------------------|
| <b>Plunge_Direction</b>    |                      |
| <b>Length</b>              | 100                  |
| <b>Width</b>               | 0                    |
| <b>Depth</b>               | 0                    |
| <b>Host_Relationship</b>   | concordant           |
| <b>Weather_Effect</b>      | Supergene enrichment |
| <b>Weathering_Depth</b>    | 0                    |
| <b>Radiometric_Age</b>     |                      |
| <b>Production_Comments</b> |                      |
| <b>Resource_Comments</b>   |                      |

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**Common\_Name** Loc-50**Site\_Id** 5500**Mineral\_Categories** Alloying metals**Major\_Commodity** Manganese**Minor\_Commodity****Status** Mineral occurrence**Cox\_Classification** Sedimentary Mn**Mineral\_Field****Tectonic\_Unit** Georgina Basin**Sub\_Unit****Name\_Of\_Age****Latitude\_GDA** -22.3396863037856**Longitude\_GDA** 137.179802079802**Map100K** Alkea**Map250K** TOBERMOREY**MGA\_E** 724500**MGA\_N** 7527950**MGA\_Zone** 53**Comments** A rock chip sample by Elkedra Diamonds NL  
assayed up to 38% Mn (V0094). RAB drilling  
conducted by Elkedra Diamonds NL.**Ref\_Description** Location of rock chip sample V0094.**Location\_Description****Size** Occurrence only**Orebody\_Shape** Stratiform**Grain\_Size****Model** manganese**Overall\_Style1** bedded**Overall\_Style2** massive**Ore\_Controls1** Host rock**Ore\_Controls2****Mining\_Method****Mine\_Workings\_Description****Opencut\_Length** 0**Opencut\_Width** 0**Opencut\_Depth** 0**Strike****Dip** 0**Dip\_Direction****Plunge** 0

**Plunge\_Direction**  
**Length** 0  
**Width** 0  
**Depth** 0  
**Host\_Relationship** concordant  
**Weather\_Effect** Supergene enrichment  
**Weathering\_Depth** 0  
**Radiometric\_Age**  
**Production\_Comments**  
**Resource\_Comments**

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**Common\_Name** Lucy Creek 4**Site\_Id** 5502**Mineral\_Categories** Alloying metals**Major\_Commodity** Manganese**Minor\_Commodity****Status** Mineral occurrence**Cox\_Classification** Sedimentary Mn**Mineral\_Field****Tectonic\_Unit** Georgina Basin**Sub\_Unit****Name\_Of\_Age****Latitude\_GDA** -22.3336268838349**Longitude\_GDA** 136.662814832556**Map100K** Algamba**Map250K** TOBERMOREY**MGA\_E** 671250**MGA\_N** 7529300**MGA\_Zone** 53**Comments** A rock chip sample by Elkedra Diamonds NL  
assayed up to 44% Mn (D0064).**Ref\_Description** Location of rock chip sample D0064.**Location\_Description****Size** Occurrence only**Orebody\_Shape** Stratiform**Grain\_Size****Model** manganese**Overall\_Style1** bedded**Overall\_Style2** massive**Ore\_Controls1** Host rock**Ore\_Controls2****Mining\_Method****Mine\_Workings\_Description****Opencut\_Length** 0**Opencut\_Width** 0**Opencut\_Depth** 0**Strike****Dip** 0**Dip\_Direction****Plunge** 0**Plunge\_Direction**



|                            |                      |
|----------------------------|----------------------|
| <b>Length</b>              | 0                    |
| <b>Width</b>               | 0                    |
| <b>Depth</b>               | 0                    |
| <b>Host_Relationship</b>   | concordant           |
| <b>Weather_Effect</b>      | Supergene enrichment |
| <b>Weathering_Depth</b>    | 0                    |
| <b>Radiometric_Age</b>     |                      |
| <b>Production_Comments</b> |                      |
| <b>Resource_Comments</b>   |                      |

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**Common\_Name** MRS-80**Site\_Id** 5504**Mineral\_Categories** Alloying metals**Major\_Commodity** Manganese**Minor\_Commodity****Status** Mineral occurrence**Cox\_Classification** Sedimentary Mn**Mineral\_Field****Tectonic\_Unit** Georgina Basin**Sub\_Unit****Name\_Of\_Age****Latitude\_GDA** -22.2665829035579**Longitude\_GDA** 136.76827019736**Map100K** Algamba**Map250K** TOBERMOREY**MGA\_E** 682200**MGA\_N** 7536600**MGA\_Zone** 53

**Comments** A rock chip sample by Elkedra Diamonds NL  
assayed up to 47.5% Mn (L0012). Sample T0038  
assayed 33.8% Mn.

**Ref\_Description** Location of rock chip samples L0012 & T0038**Location\_Description****Size** Occurrence only**Orebody\_Shape** Stratiform**Grain\_Size****Model** manganese**Overall\_Style1** bedded**Overall\_Style2** massive**Ore\_Controls1** Host rock**Ore\_Controls2****Mining\_Method****Mine\_Workings\_Description****Opencut\_Length** 0**Opencut\_Width** 0**Opencut\_Depth** 0**Strike****Dip** 0**Dip\_Direction****Plunge** 0

|                            |                      |
|----------------------------|----------------------|
| <b>Plunge_Direction</b>    |                      |
| <b>Length</b>              | 0                    |
| <b>Width</b>               | 0                    |
| <b>Depth</b>               | 0                    |
| <b>Host_Relationship</b>   | concordant           |
| <b>Weather_Effect</b>      | Supergene enrichment |
| <b>Weathering_Depth</b>    | 0                    |
| <b>Radiometric_Age</b>     |                      |
| <b>Production_Comments</b> |                      |
| <b>Resource_Comments</b>   |                      |



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**Common\_Name** CWN-90**Site\_Id** 5503**Mineral\_Categories** Alloying metals**Major\_Commodity** Manganese**Minor\_Commodity****Status** Mineral occurrence**Cox\_Classification** Sedimentary Mn**Mineral\_Field****Tectonic\_Unit** Georgina Basin**Sub\_Unit****Name\_Of\_Age****Latitude\_GDA** -22.3104090418238**Longitude\_GDA** 136.886260627435**Map100K** Algamba**Map250K** TOBERMOREY**MGA\_E** 694300**MGA\_N** 7531600**MGA\_Zone** 53**Comments** A rock chip sample by Elkedra Diamonds NL assayed up to 42% Mn (D0039).**Ref\_Description** Location of rock chip sample D0039**Location\_Description****Size** Occurrence only**Orebody\_Shape** Stratiform**Grain\_Size****Model** manganese**Overall\_Style1** bedded**Overall\_Style2** massive**Ore\_Controls1** Host rock**Ore\_Controls2****Mining\_Method****Mine\_Workings\_Description****Opencut\_Length** 0**Opencut\_Width** 0**Opencut\_Depth** 0**Strike****Dip** 0**Dip\_Direction****Plunge** 0**Plunge\_Direction**

|                            |                      |
|----------------------------|----------------------|
| <b>Length</b>              | 0                    |
| <b>Width</b>               | 0                    |
| <b>Depth</b>               | 0                    |
| <b>Host_Relationship</b>   | concordant           |
| <b>Weather_Effect</b>      | Supergene enrichment |
| <b>Weathering_Depth</b>    | 0                    |
| <b>Radiometric_Age</b>     |                      |
| <b>Production_Comments</b> |                      |
| <b>Resource_Comments</b>   |                      |

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**Common\_Name** MRS-79**Site\_Id** 5499**Mineral\_Categories** Alloying metals**Major\_Commodity** Manganese**Minor\_Commodity****Status** Mineral occurrence**Cox\_Classification** Sedimentary Mn**Mineral\_Field****Tectonic\_Unit** Georgina Basin**Sub\_Unit****Name\_Of\_Age****Latitude\_GDA** -22.378481567871**Longitude\_GDA** 136.691994756751**Map100K** Algamba**Map250K** TOBERMOREY**MGA\_E** 674200**MGA\_N** 7524300**MGA\_Zone** 53**Comments** A rock chip sample by Elkedra Diamonds NL  
assayed up to 39% Mn (D0148). RAB drilling  
conducted by Elkedra Diamonds NL.**Ref\_Description** Location of chip sample D0148**Location\_Description****Size** Occurrence only**Orebody\_Shape** Stratiform**Grain\_Size****Model** manganese**Overall\_Style1** bedded**Overall\_Style2** massive**Ore\_Controls1** Host rock**Ore\_Controls2****Mining\_Method****Mine\_Workings\_Description****Opencut\_Length** 0**Opencut\_Width** 0**Opencut\_Depth** 0**Strike****Dip** 0**Dip\_Direction****Plunge** 0

|                            |                      |
|----------------------------|----------------------|
| <b>Plunge_Direction</b>    |                      |
| <b>Length</b>              | 0                    |
| <b>Width</b>               | 0                    |
| <b>Depth</b>               | 0                    |
| <b>Host_Relationship</b>   | concordant           |
| <b>Weather_Effect</b>      | Supergene enrichment |
| <b>Weathering_Depth</b>    | 0                    |
| <b>Radiometric_Age</b>     |                      |
| <b>Production_Comments</b> |                      |
| <b>Resource_Comments</b>   |                      |

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**Common\_Name** Lucy Creek 2**Site\_Id** 5367**Mineral\_Categories** Alloying metals**Major\_Commodity** Manganese**Minor\_Commodity****Status** Mineral occurrence**Cox\_Classification** Replacement Mn**Mineral\_Field****Tectonic\_Unit** Georgina Basin**Sub\_Unit****Name\_Of\_Age****Latitude\_GDA** -22.3973754979671**Longitude\_GDA** 136.655316605347**Map100K** Algamba**Map250K** TOBERMOREY**MGA\_E** 670400**MGA\_N** 7522250**MGA\_Zone** 53

**Comments** Three chip samples assayed 50.5%, 45.9% and 47.6% Mn (Elkedra Diamonds 2002). Samples also contain low levels of Fe (av. 2.2%), P (av. 0.07%), SiO<sub>2</sub> (av. 3.7%) and Al<sub>2</sub>O<sub>3</sub> (1.4%).

**Ref\_Description** Northern part of Mn zone.

**Location\_Description** About 32km northwest of Tarlton Downs homestead.

**Size** Occurrence only**Orebody\_Shape** Tabular**Grain\_Size****Model** other replacement**Overall\_Style1** massive**Overall\_Style2** disseminated**Ore\_Controls1** Host rock**Ore\_Controls2** fault**Mining\_Method****Mine\_Workings\_Description****Opencut\_Length** 0**Opencut\_Width** 0**Opencut\_Depth** 0**Strike** 010**Dip** 15



|                                      |
|--------------------------------------|
| <b>Dip_Direction</b> 100             |
| <b>Plunge</b> 0                      |
| <b>Plunge_Direction</b>              |
| <b>Length</b> 400                    |
| <b>Width</b> 2                       |
| <b>Depth</b> 0                       |
| <b>Host_Relationship</b> stratabound |
| <b>Weather_Effect</b>                |
| <b>Weathering_Depth</b> 0            |
| <b>Radiometric_Age</b>               |
| <b>Production_Comments</b>           |
| <b>Resource_Comments</b>             |

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**Common\_Name** Halfway Dam**Site\_Id** 5498**Mineral\_Categories** Alloying metals**Major\_Commodity** Manganese**Minor\_Commodity****Status** Mineral occurrence**Cox\_Classification** Sedimentary Mn**Mineral\_Field****Tectonic\_Unit** Georgina Basin**Sub\_Unit****Name\_Of\_Age****Latitude\_GDA** -22.5295388539506**Longitude\_GDA** 136.950463147144**Map100K** Tarlton**Map250K** TOBERMOREY**MGA\_E** 700600**MGA\_N** 7507250**MGA\_Zone** 53

**Comments** Rock chip sampling by Elkedra Diamonds NL returned assays up to 41.8% Mn (W0023). Manganese mineralisation is exposed within a dam excavation.

**Ref\_Description** Location of rock chip samples W0023, W0027 & W0029

**Location\_Description****Size** Occurrence only**Orebody\_Shape** Stratiform**Grain\_Size****Model** manganese**Overall\_Style1** bedded**Overall\_Style2** massive**Ore\_Controls1** Host rock**Ore\_Controls2****Mining\_Method****Mine\_Workings\_Description****Opencut\_Length** 0**Opencut\_Width** 0**Opencut\_Depth** 0**Strike****Dip** 0

|                                            |
|--------------------------------------------|
| <b>Dip_Direction</b>                       |
| <b>Plunge</b> 0                            |
| <b>Plunge_Direction</b>                    |
| <b>Length</b> 60                           |
| <b>Width</b> 0                             |
| <b>Depth</b> 0                             |
| <b>Host_Relationship</b> concordant        |
| <b>Weather_Effect</b> Supergene enrichment |
| <b>Weathering_Depth</b> 0                  |
| <b>Radiometric_Age</b>                     |
| <b>Production_Comments</b>                 |
| <b>Resource_Comments</b>                   |