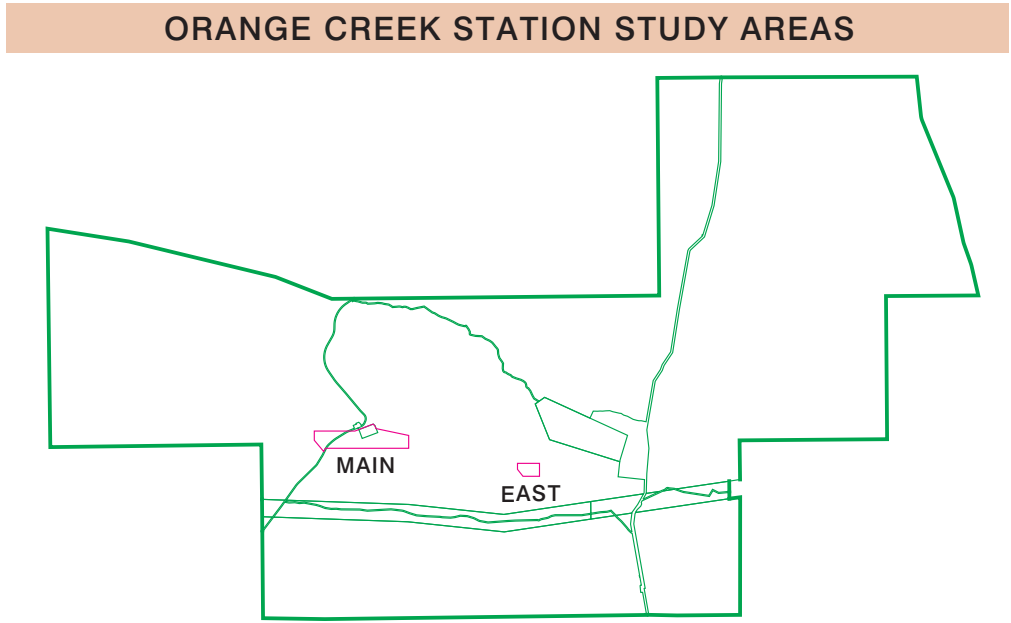


Soil and Land Suitability Assessment for Irrigated Agriculture

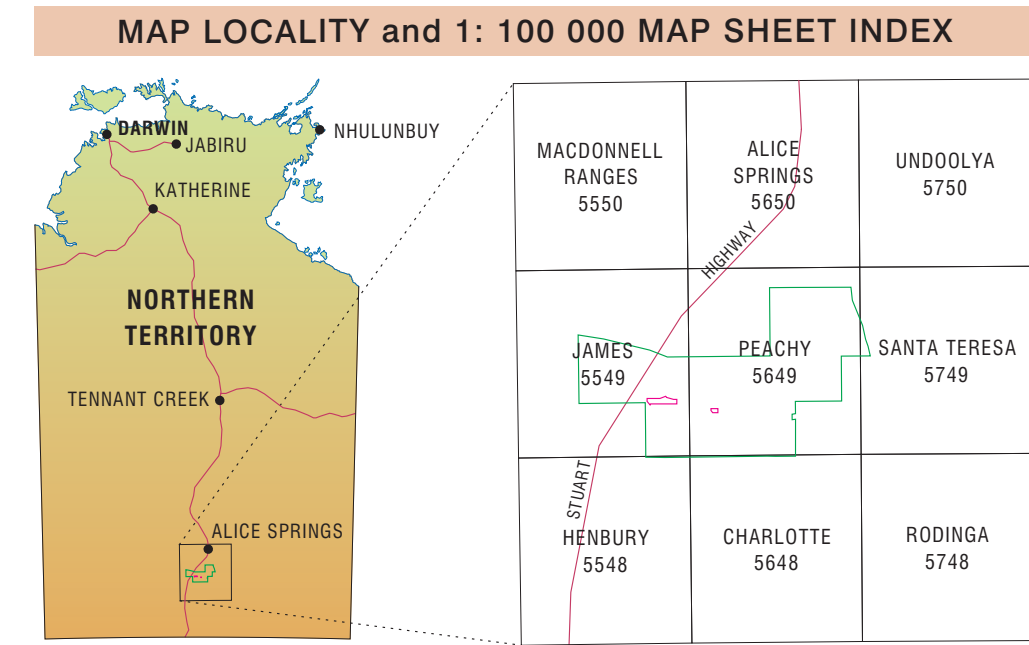
GENERAL LAND CAPABILITY on part of ORANGE CREEK STATION, HUGH RIVER VALLEY

ORANGE CREEK AREA - Map 2 of 5

For further information contact:
Department of Environment and Natural Resources
Director, Land Assessment, Rangelands Division
Ph. (08) 8999 4443 Email: rangelands@nt.gov.au Web: <http://denr.nt.gov.au>
Level 3, Goyder Centre, 25 Chung Wah Terrace, Palmerston, Northern Territory of Australia.
Web: <http://nrmaps.nt.gov.au> Map Reference: Orange-Creek_Land-Resources_Map-1-of-11



| LAND CAPABILITY CLASSES | |
|-------------------------|--|
| Class 1 | HIGH - Land with negligible limitations that is highly productive and requires only simple management practices. (0-1% slope; low wind erosion hazard; no surface rock; >1.0 m soil depth; rapid to well-drained soil; and flood free) |
| Class 2 | MODERATE - Land with minor to moderate limitations that is productive but requires more than the simple management practices of Class 1. (1-2% slope; and/or moderate wind erosion hazard; and/or 0-2% surface rock; and/or 0.5-1.0 m soil depth; and/or moderately drained soil; and/or extremely rare flooding) |
| Class 3 | MARGINAL - Land with severe limitations that is only marginally productive and requires major management practices. (2-3% slope; and/or high wind erosion hazard; and/or 2-10% surface rock; and/or 0.25-0.5 m soil depth; and/or imperfectly drained soil; and/or rare flooding) |
| Class 4 | NOT SUITABLE - Land with extreme limitations that is not suitable for agriculture. Limitations cannot be overcome with practical or cost effective management practices. (>3% slope; and/or very high to extreme wind erosion hazard; and/or >10% surface rock; and/or <0.25 m soil depth; and/or poor to very poorly drained soil; and/or regular to permanent flooding) |



GENERAL FEATURES

Extent of mapping

Parcel boundary

Highway

Local road / track

Drainage line

Pastoral homestead

Roadhouse

Bore

Spot height (m AHD)

Orange Creek

Stuart Well

Boswell Bore

509

Base Information Data Sources:

Department of Environment and Natural Resources, Northern Territory of Australia.
Department of Infrastructure, Planning and Logistics, Northern Territory of Australia.
Parks and Wildlife Commission of the Northern Territory.
Geoscience Australia, Australian Government.

Cartography by D. Mullin & R. Koberstein - March 2018
Geospatial Services, Water Resources Division,
Department of Environment and Natural Resources,
Northern Territory of Australia.

N

kilometres

0 0.5 1 1.5 2 2.5

kilometres

Black numbered lines are 10 000 metre intervals of the Map Grid of Australia (MGA) Zone 53 Transverse Mercator Projection Horizontal Datum: GDA 94 Vertical Datum: AHD (metres)

GDA

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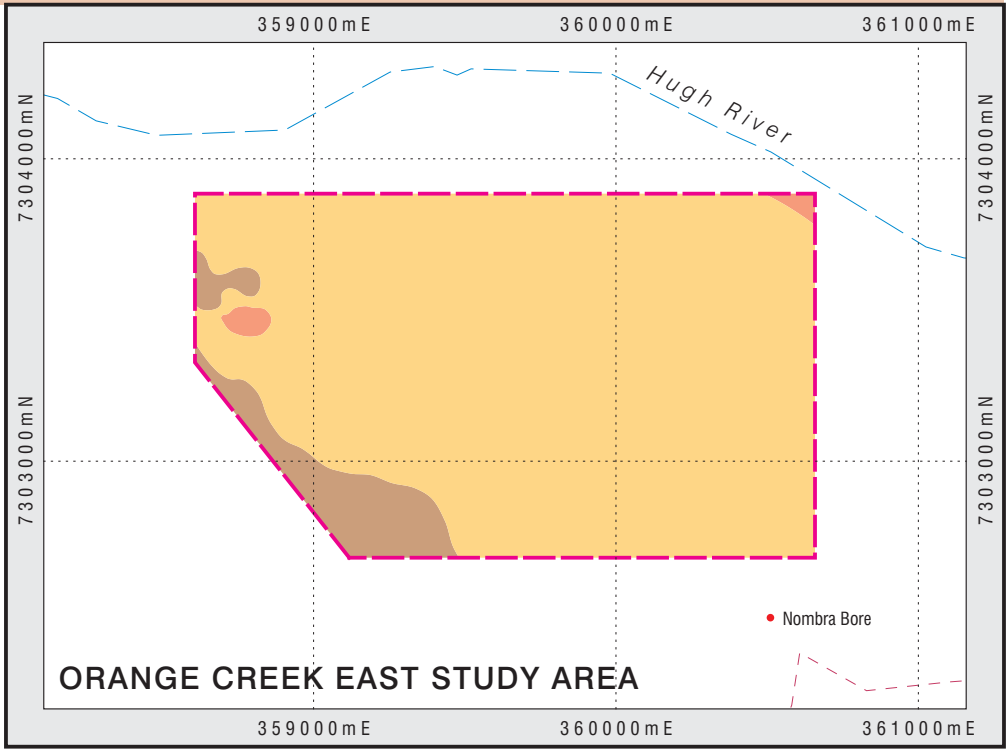
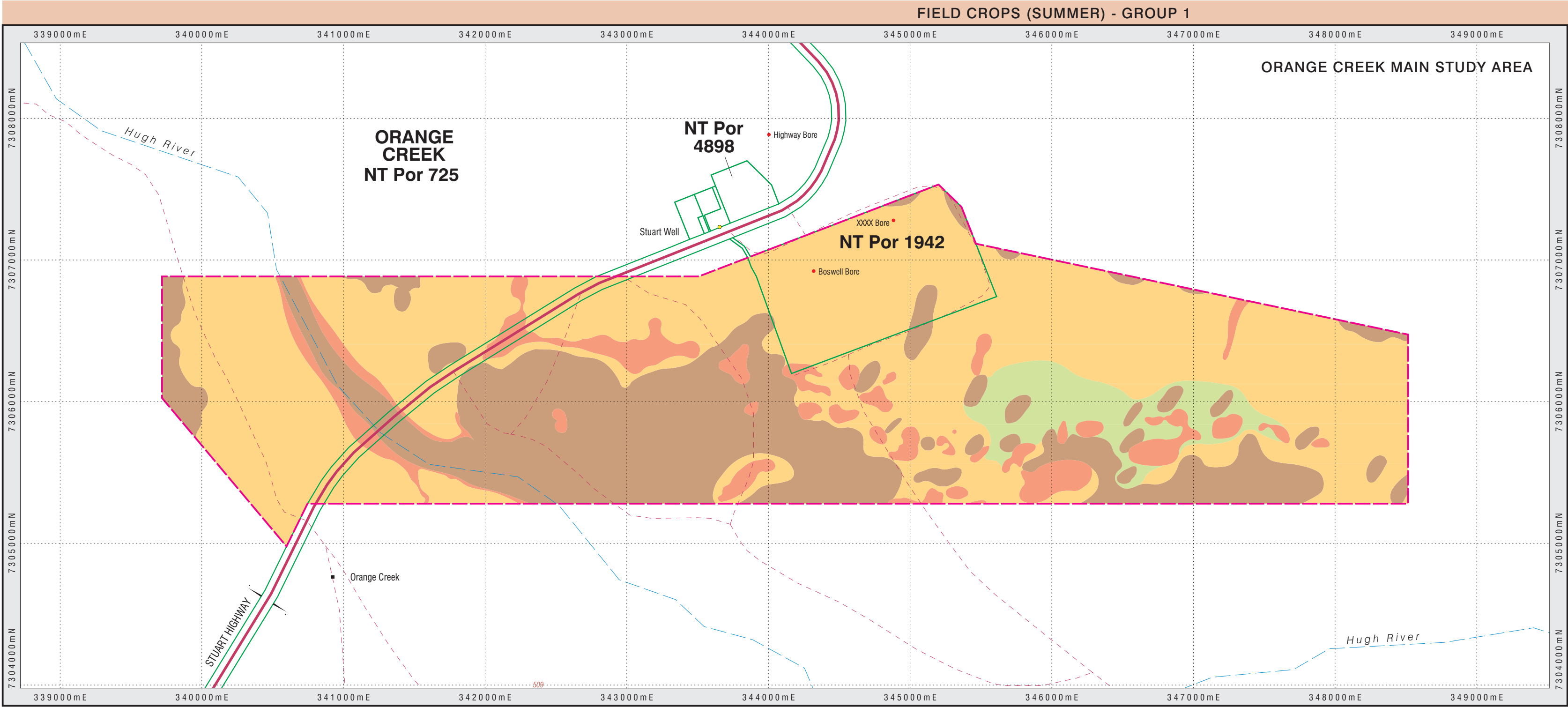
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BIBLIOGRAPHIC REFERENCE:
Hempel J, Carnavas M and Burley P. (2017) *Agricultural Land Suitability Series, Report 9. Soil and Land Suitability Assessment for Irrigated Agriculture on part of Orange Creek Station, Hugh River Valley.* Technical Report 13/2017D. Department of Environment and Natural Resources, Darwin, NT.

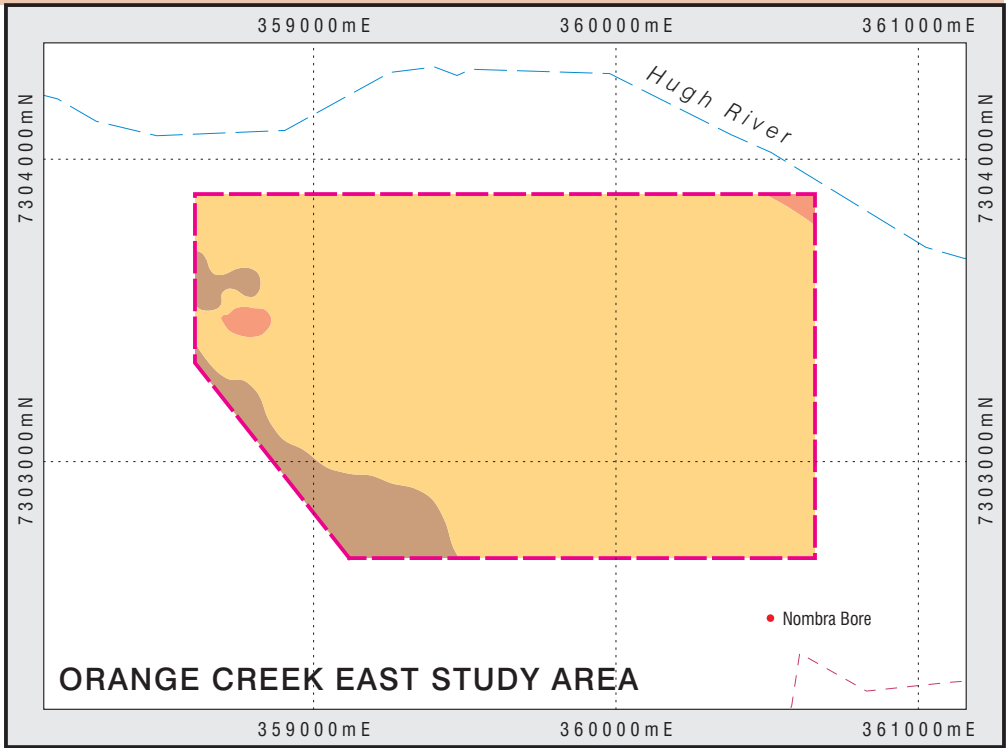
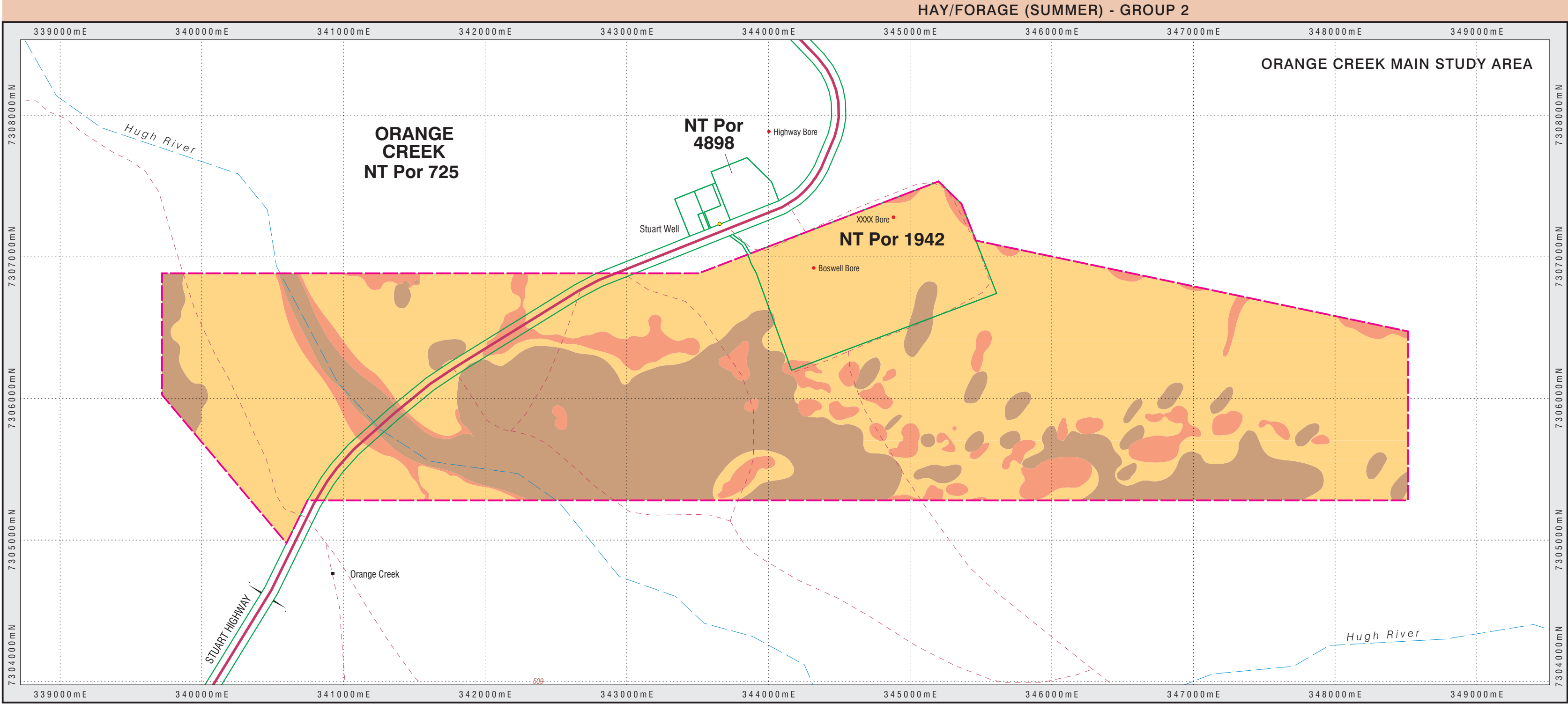
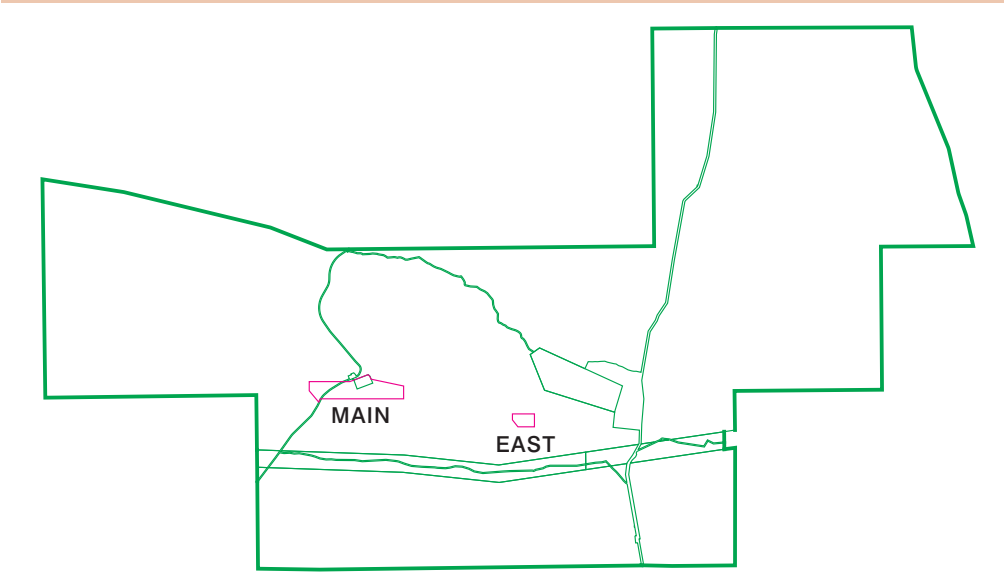
TECHNICAL REFERENCES:
National Committee on Soil and Terrain (2009) *Australian Soil and Land Survey Field Handbook.* Third Edition. CSIRO Publishing, Melbourne.
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Executive Steering Committee for Australian Vegetation Information (ESCAVI) (2003) *Australian Vegetation Attribute Manual: National Vegetation Information System, Version 6.* Department of Environment and Heritage, Canberra.

| ORANGE CREEK AREA MAP SERIES | |
|------------------------------|---|
| Map | Map Title |
| 1 | LAND RESOURCES on part of ORANGE CREEK STATION |
| 2 | GENERAL LAND CAPABILITY on part of ORANGE CREEK STATION |
| 3 | LAND SUITABILITY for FIELD CROPS - SUMMER - GROUP 1 LAND SUITABILITY for HAY/FORAGE - SUMMER - GROUP 2 LAND SUITABILITY for ANNUAL ROW CROPS - SUMMER - GROUP 3 |
| 4 | LAND SUITABILITY for ROOT CROPS - SUMMER - GROUP 4 LAND SUITABILITY for HAY/FORAGE - WINTER - GROUP 5 LAND SUITABILITY for ROOT CROPS - WINTER - GROUP 6 |
| 5 | LAND SUITABILITY for PERENNIAL ROW CROPS - GROUP 7 LAND SUITABILITY for EVERGREEN TREE CROPS - GROUP 8 LAND SUITABILITY for DECIDUOUS TREE & VINE CROPS - GROUP 9 |

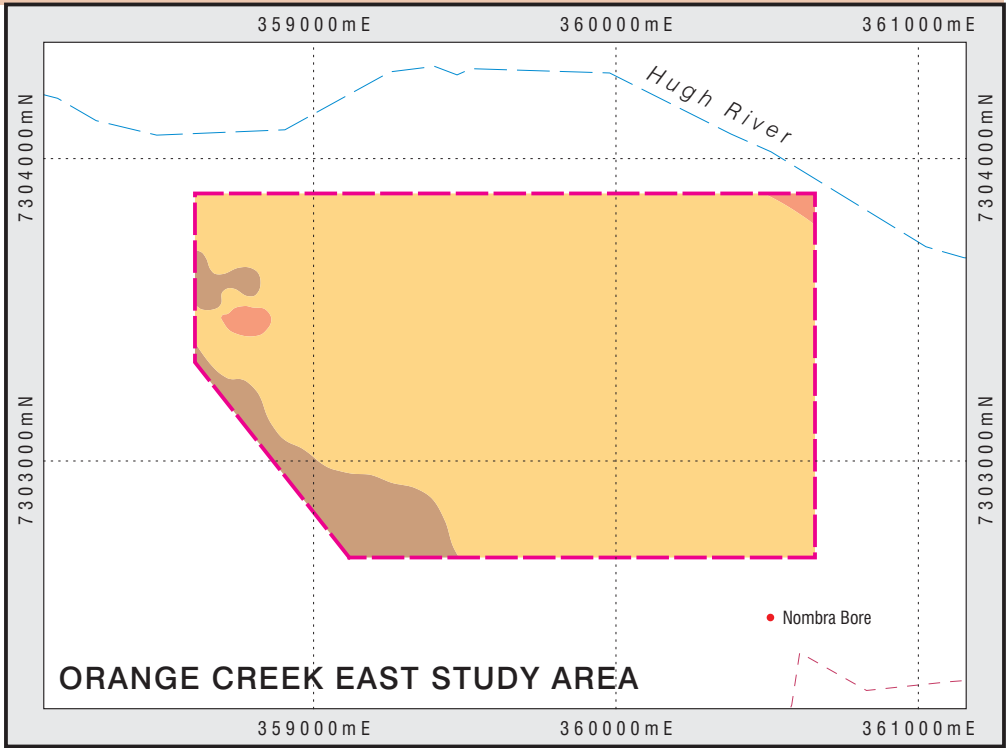
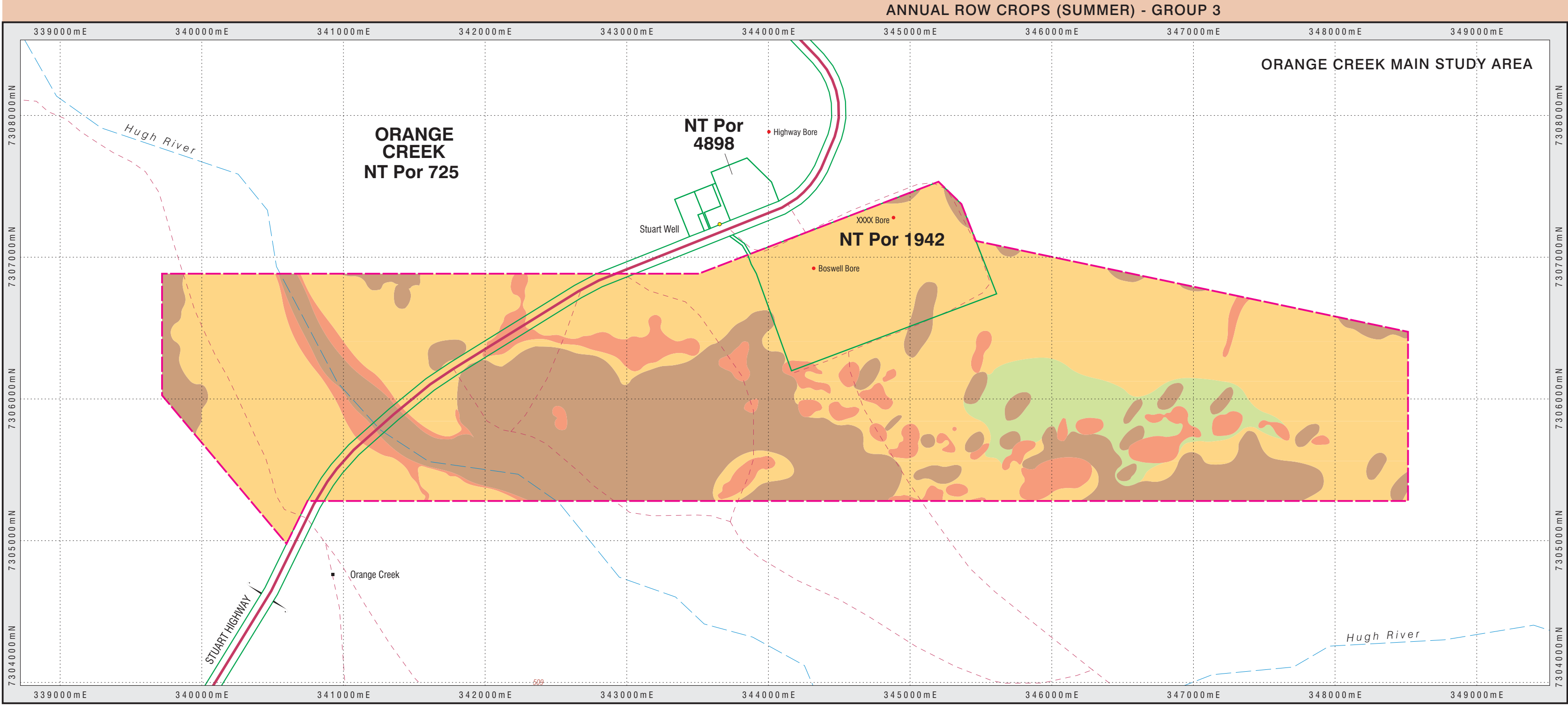
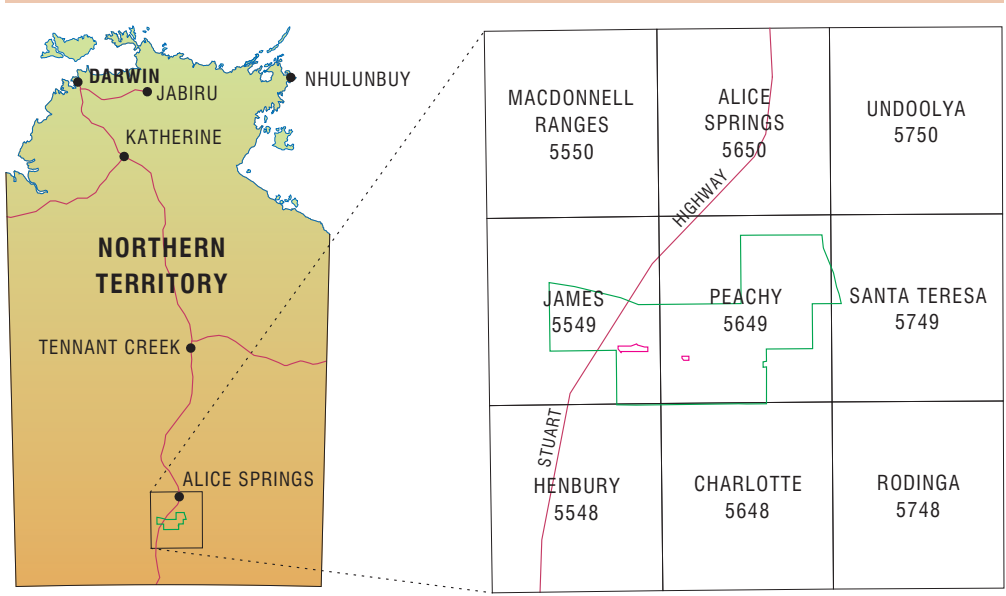
This map does not indicate, imply or ascertain the likelihood of groundwater availability or the granting of appropriate water extraction licensing needed to satisfy the irrigation requirements of the potential agricultural development options indicated.



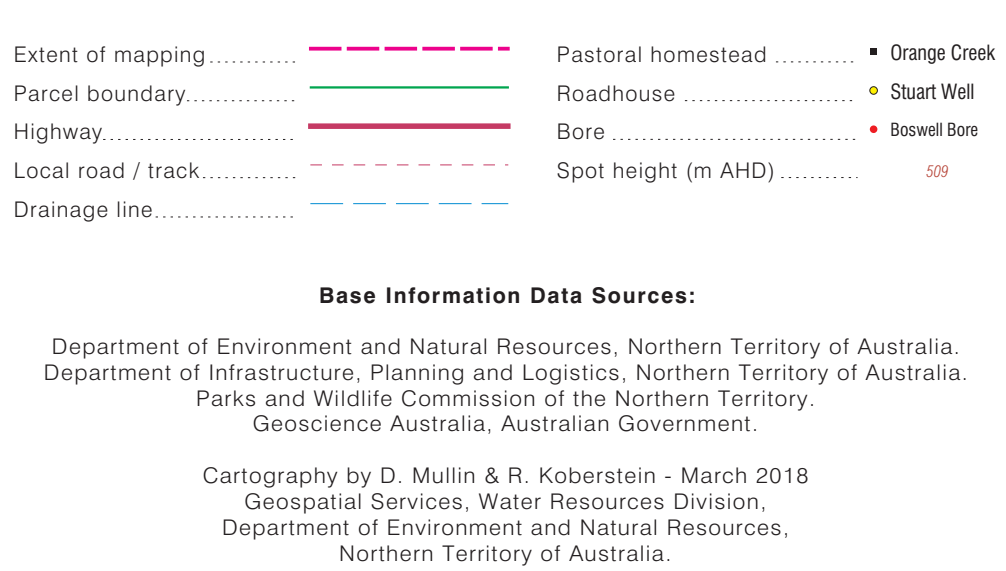
ORANGE CREEK STATION STUDY AREAS



MAP LOCALITY and 1: 100 000 MAP SHEET INDEX



GENERAL FEATURES



NORTHERN TERRITORY GOVERNMENT

Soil and Land Suitability Assessment for Irrigated Agriculture

LAND SUITABILITY for IRRIGATED CROP GROUPS 1 to 3 on part of ORANGE CREEK STATION, HUGH RIVER VALLEY

ORANGE CREEK AREA - Map 3 of 5

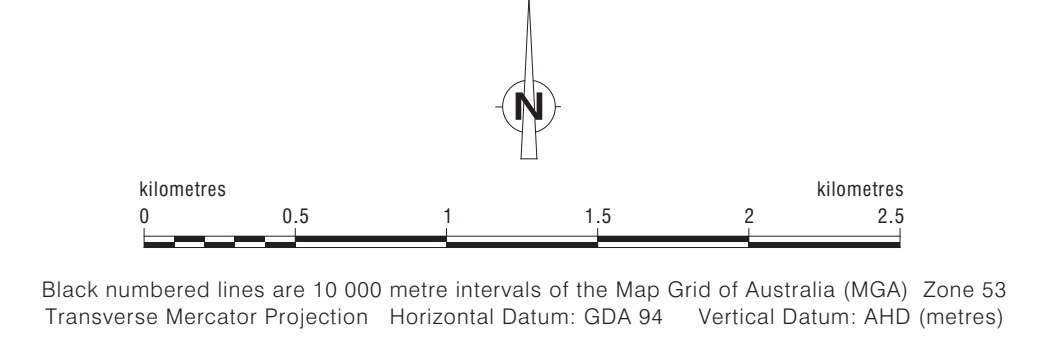
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Level 3, Goyder Centre, 25 Craig Wah Terrace, Palmerston, Northern Territory of Australia.
Web: <http://nrmmaps.nt.gov.au> Map Reference: Orange-Creek_Land-Suitability_Map-3-of-5

LAND SUITABILITY CLASSES

| | |
|---------|---|
| Class 1 | SUITABLE LAND WITH NEGLIGIBLE LIMITATIONS Highly productive land requiring only simple management practices to maintain sustainable production. |
| Class 2 | SUITABLE LAND WITH MINOR LIMITATIONS Land with minor limitations that either constrain production or require more than the simple management practices of Class 1 land to maintain sustainable production. |
| Class 3 | SUITABLE LAND WITH MODERATE LIMITATIONS Land with moderate limitations that further constrain production or require more than the management practices of Class 2 land to maintain sustainable production. |
| Class 4 | UNSUITABLE LAND WITH SEVERE LIMITATIONS Currently unsuitable land with severe limitations that preclude successful or sustained use under existing conditions. Future changes in knowledge, economics or technology may alter this. |
| Class 5 | UNSUITABLE LAND WITH EXTREME LIMITATIONS Land with extreme limitations that preclude any possibility of successful or sustained use, either now or in the future. |

ORANGE CREEK AREA MAP SERIES

| Map | Map Title / Crop Group | Crop Group | Individual Crops Assessed |
|-----|--|------------|---|
| 1 | Land resources on part of Orange Creek Station | N/A | N/A |
| 2 | General land capability on part of Orange Creek Station | N/A | N/A |
| 3 | Land suitability for irrigated field crops (Summer) | 1 | Chia, quinoa, wheat, barley, chickpeas, triticale. |
| | Land suitability for irrigated hay/forage (Summer) | 2 | Grass hay - Rhodes grass, panics, sorghum, Forage legumes - peanut. |
| | Land suitability for irrigated annual row crops (Summer) | 3 | Cucurbit - watermelon, hami melon, honeydew melon, rockmelon, pumpkin, zucchini, squash, Salad vegetables - lettuce, baby spinach, rocket, brassicans. Asian greens. Summer vegetables - Solanaceae (capsicum, chilli, eggplant, tomato), sweet corn, beans, snow peas, brassica. |
| 4 | Land suitability for irrigated root crops (Summer) | 4 | Potato, sweet potato. |
| | Land suitability for irrigated hay/forage (Winter) | 5 | Grass hay - oats, barley, Forage legumes - lucerne. |
| | Land suitability for irrigated root crops (Winter) | 6 | Garlic, onion. |
| 5 | Land suitability for irrigated perennial row crops | 7 | Asparagus |
| | Land suitability for irrigated evergreen tree crops | 8 | Citrus - lemon, mandarin, orange, grapefruit, tangelo. Dates. |
| | Land suitability for irrigated Deciduous tree & vine crops | 9 | Fig, pomegranate, stone fruit, table grapes. |



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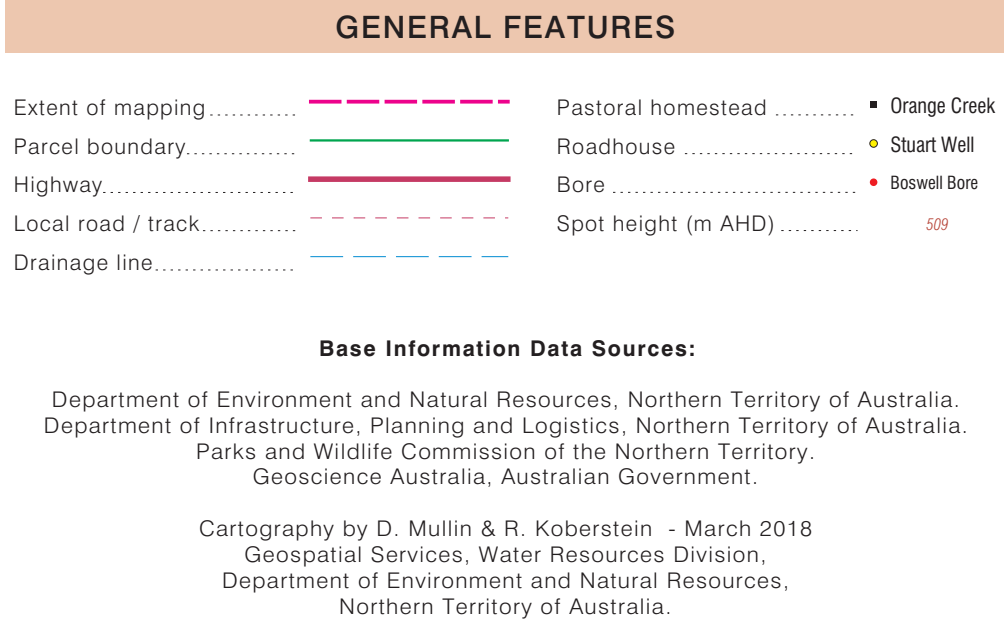
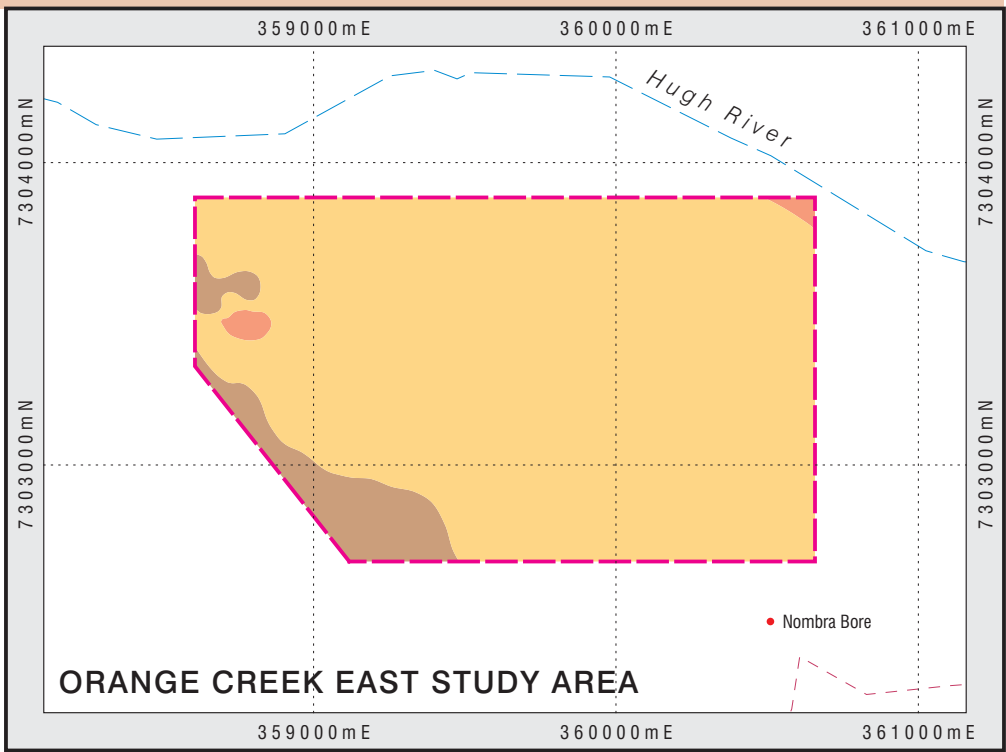
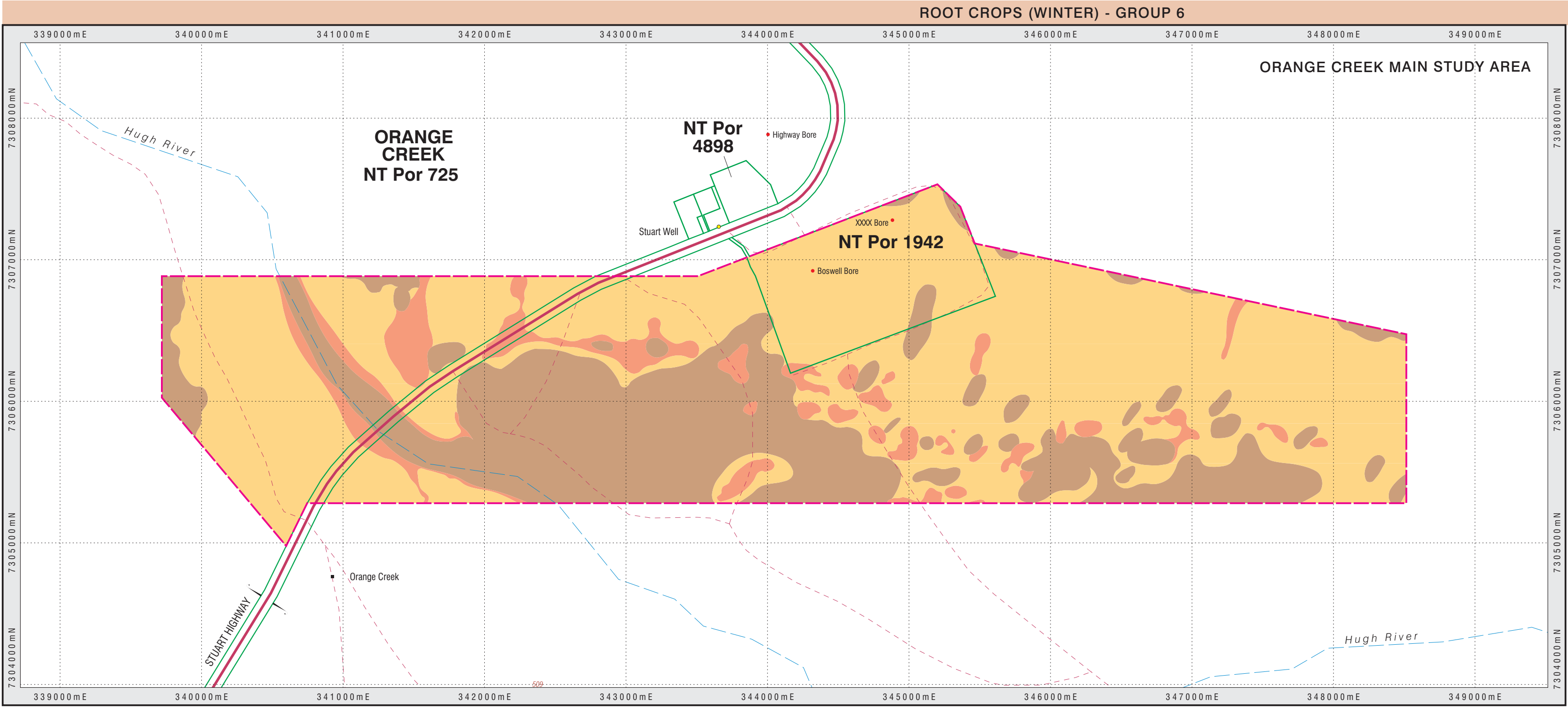
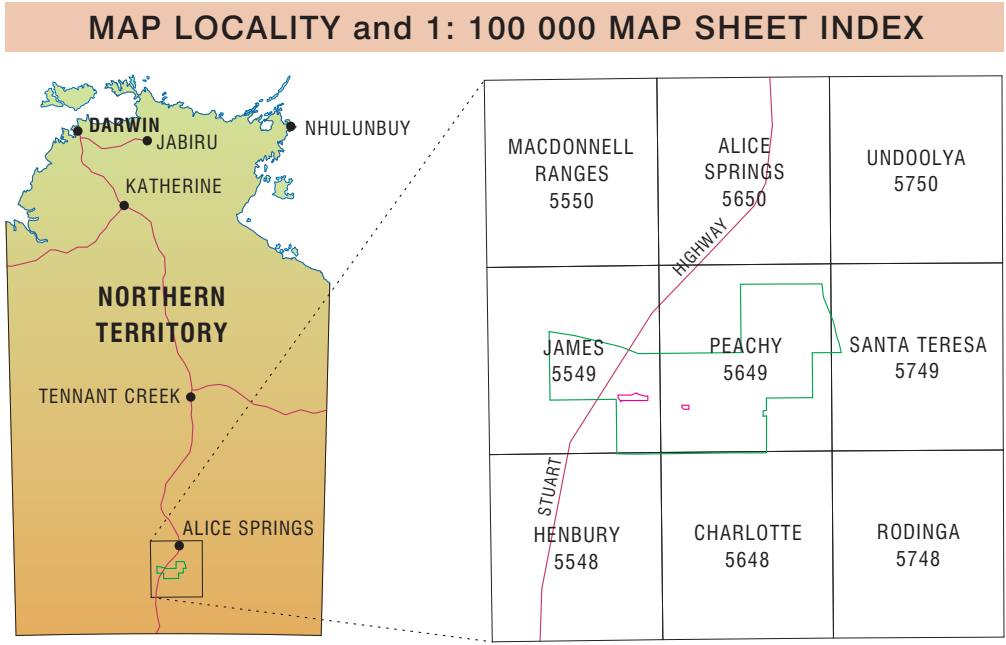
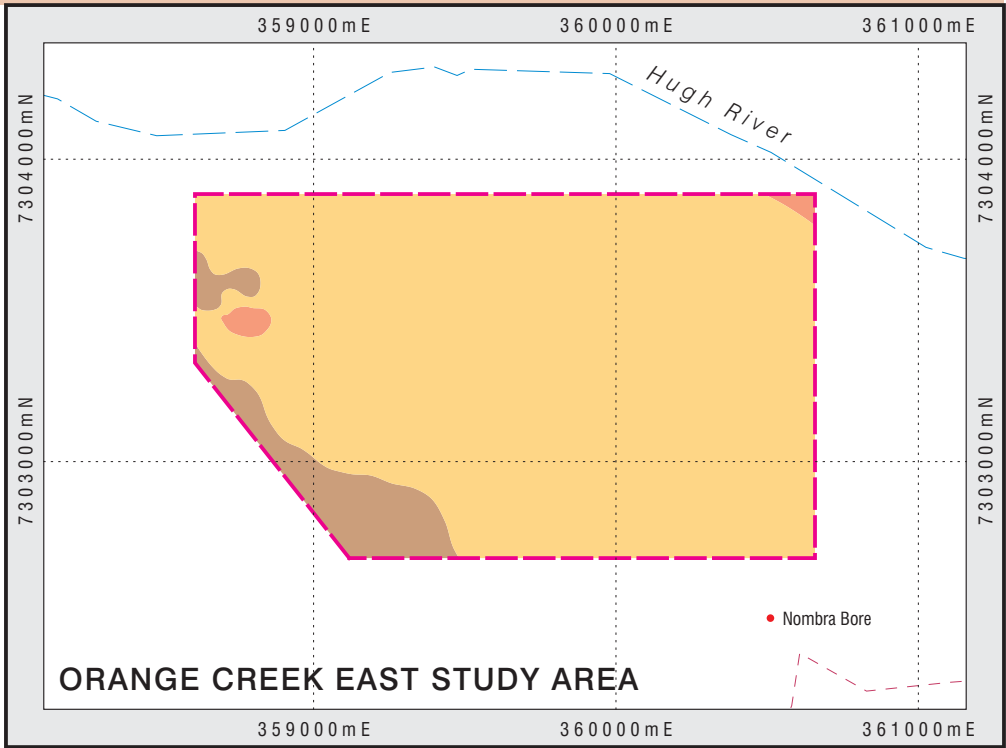
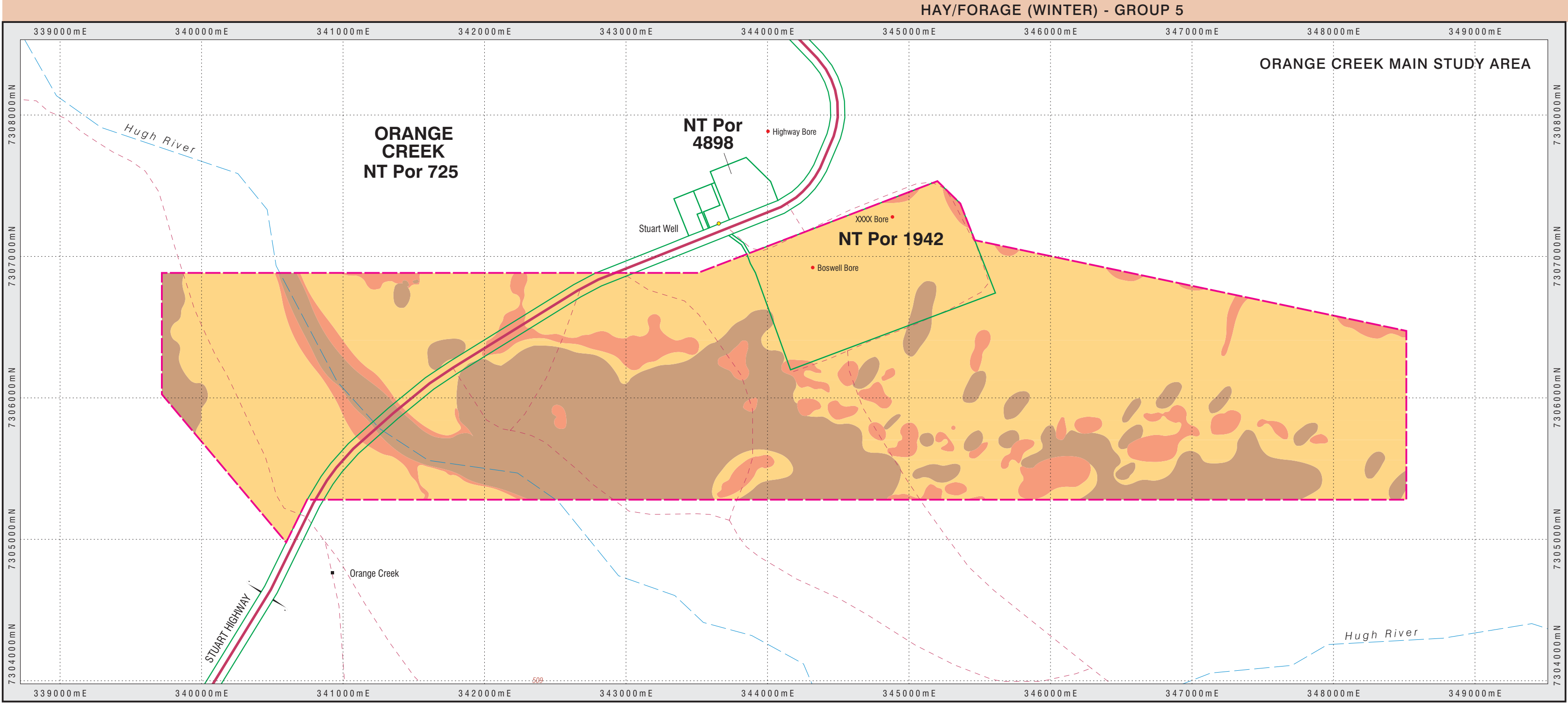
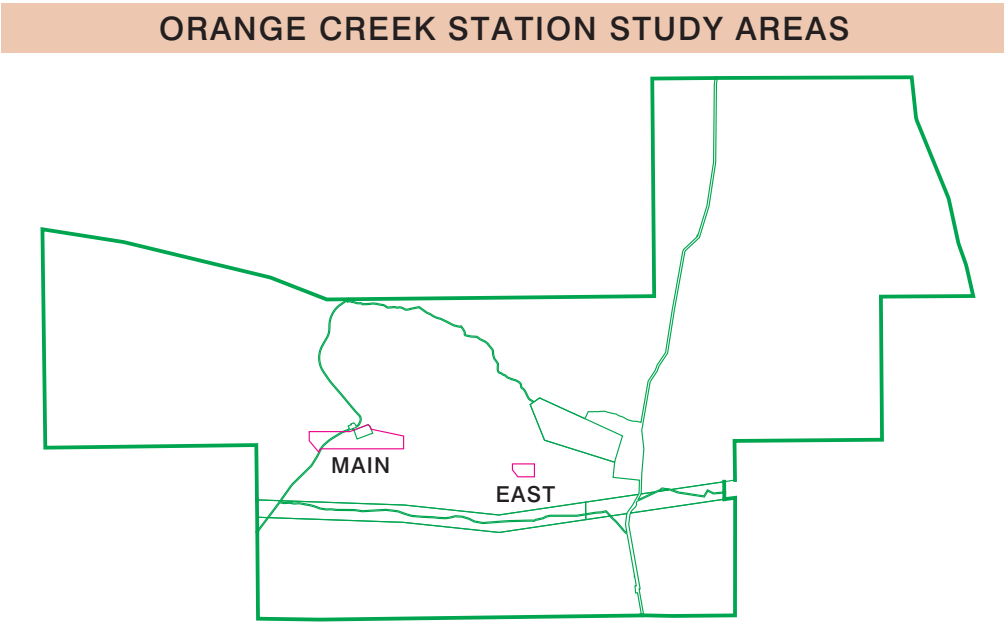
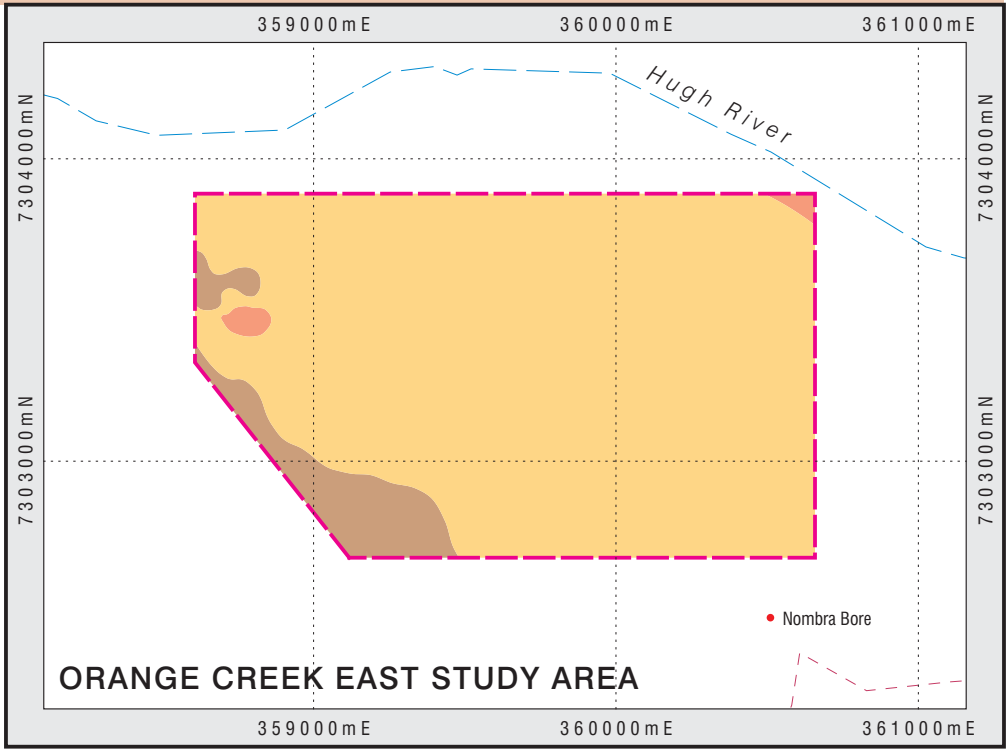
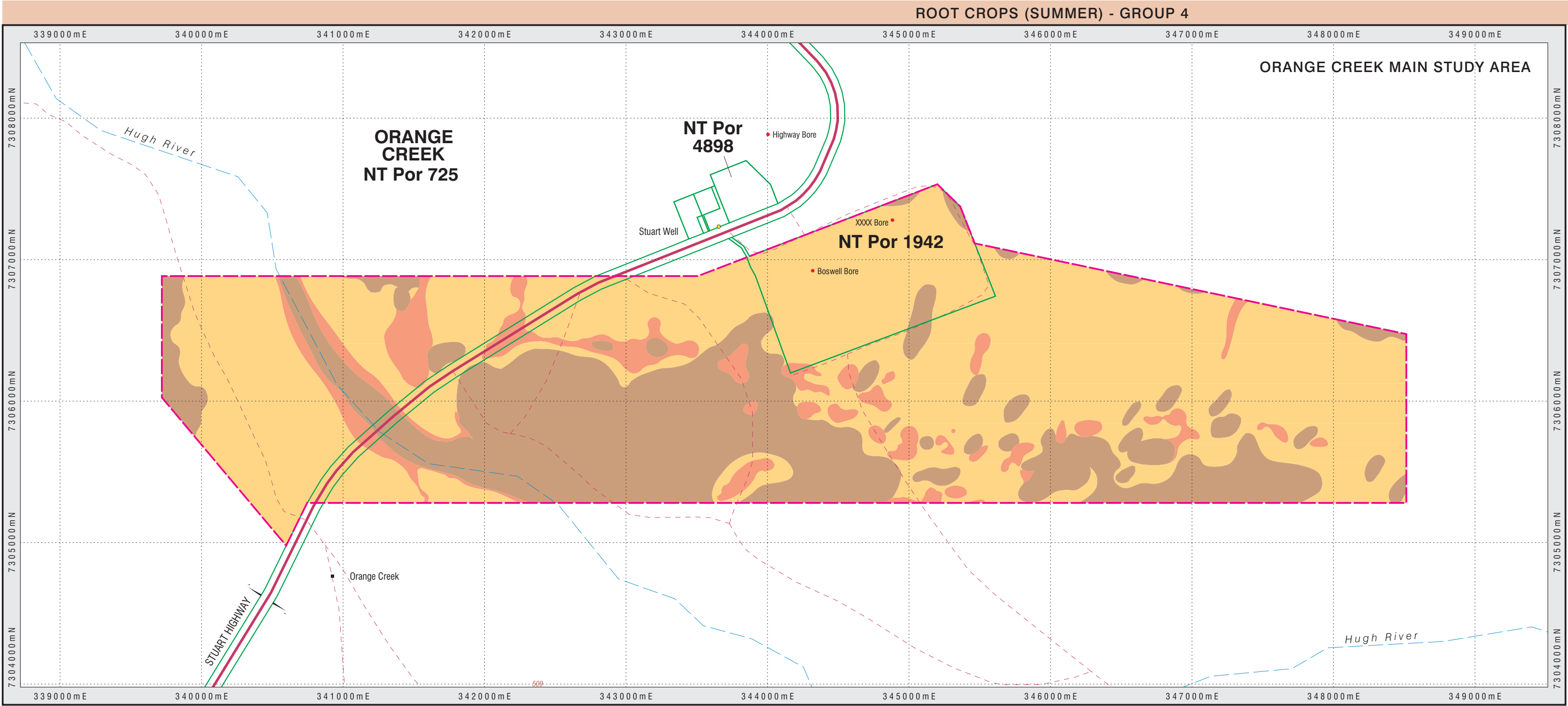
Hempel J, Carnavas M and Burley P (2017) *Agricultural Land Suitability Series, Report 9. Soil and Land Suitability Assessment for Irrigated Agriculture on part of Orange Creek Station, Hugh River Valley.* Technical Report 13/2017D. Department of Environment and Natural Resources, Darwin, NT.

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NORTHERN TERRITORY GOVERNMENT

Soil and Land Suitability Assessment for Irrigated Agriculture

LAND SUITABILITY for IRRIGATED CROP GROUPS 4 to 6 on part of ORANGE CREEK STATION, HUGH RIVER VALLEY

ORANGE CREEK AREA - Map 4 of 5

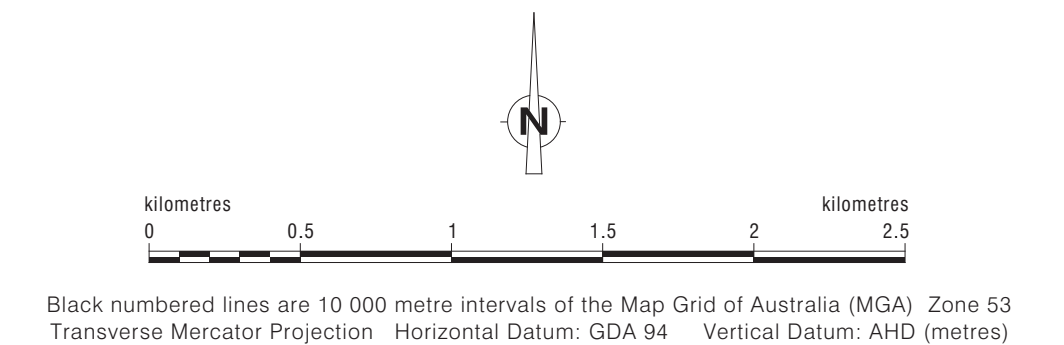
For further information contact:
Department of Environment and Natural Resources
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Level 3, Goyder Centre, 25 Craig Wah Terrace, Palmerston, Northern Territory of Australia.
Web: <http://nrmmaps.nt.gov.au> Map Reference: Orange-Creek_Land-Suitability_Map-4-of-5

LAND SUITABILITY CLASSES

| | |
|---------|---|
| Class 1 | SUITABLE LAND WITH NEGLIGIBLE LIMITATIONS Highly productive land requiring only simple management practices to maintain sustainable production. |
| Class 2 | SUITABLE LAND WITH MINOR LIMITATIONS Land with minor limitations that either constrain production or require more than the simple management practices of Class 1 land to maintain sustainable production. |
| Class 3 | SUITABLE LAND WITH MODERATE LIMITATIONS Land with moderate limitations that further constrain production or require more than the management practices of Class 2 land to maintain sustainable production. |
| Class 4 | UNSUITABLE LAND WITH SEVERE LIMITATIONS Currently unsuitable land with severe limitations that preclude successful or sustained use under existing conditions. Future changes in knowledge, economics or technology may alter this. |
| Class 5 | UNSUITABLE LAND WITH EXTREME LIMITATIONS Land with extreme limitations that preclude any possibility of successful or sustained use, either now or in the future. |

ORANGE CREEK AREA MAP SERIES

| Map | Map Title / Crop Group | Crop Group | Individual Crops Assessed |
|-----|--|------------|---|
| 1 | Land resources on part of Orange Creek Station | N/A | N/A |
| 2 | General land capability on part of Orange Creek Station | N/A | N/A |
| 3 | Land suitability for irrigated field crops (Summer) | 1 | Chia, quinoa, wheat, barley, chickpeas, triticale. |
| | Land suitability for irrigated hay/forage (Summer) | 2 | Grass hay - Rhodes grass, panics, sorghum, Forage legumes - peanut. |
| | Land suitability for irrigated annual row crops (Summer) | 3 | Cucurbit - watermelon, hami melon, honeydew melon, rockmelon, pumpkin, zucchini, squash, Salad vegetables - lettuce, baby spinach, rocket, brassicans. Asian greens. Summer vegetables - Solanaceae (capsicum, chilli, eggplant, tomato), sweet corn, beans, snow peas, brassica. |
| 4 | Land suitability for irrigated root crops (Summer) | 4 | Potato, sweet potato. |
| | Land suitability for irrigated hay/forage (Winter) | 5 | Grass hay - oats, barley, Forage legumes - lucerne. |
| | Land suitability for irrigated root crops (Winter) | 6 | Garlic, onion. |
| 5 | Land suitability for irrigated perennial row crops | 7 | Asparagus |
| | Land suitability for irrigated evergreen tree crops | 8 | Citrus - lemon, mandarin, orange, grapefruit, tangelo. Dates. |
| | Land suitability for irrigated Deciduous tree & vine crops | 9 | Fig, pomegranate, stone fruit, table grapes. |



Black numbered lines are 10 000 metre intervals of the Map Grid of Australia (MGA) Zone 53 Transverse Mercator Projection Horizontal Datum: GDA 94 Vertical Datum: AHD (metres)

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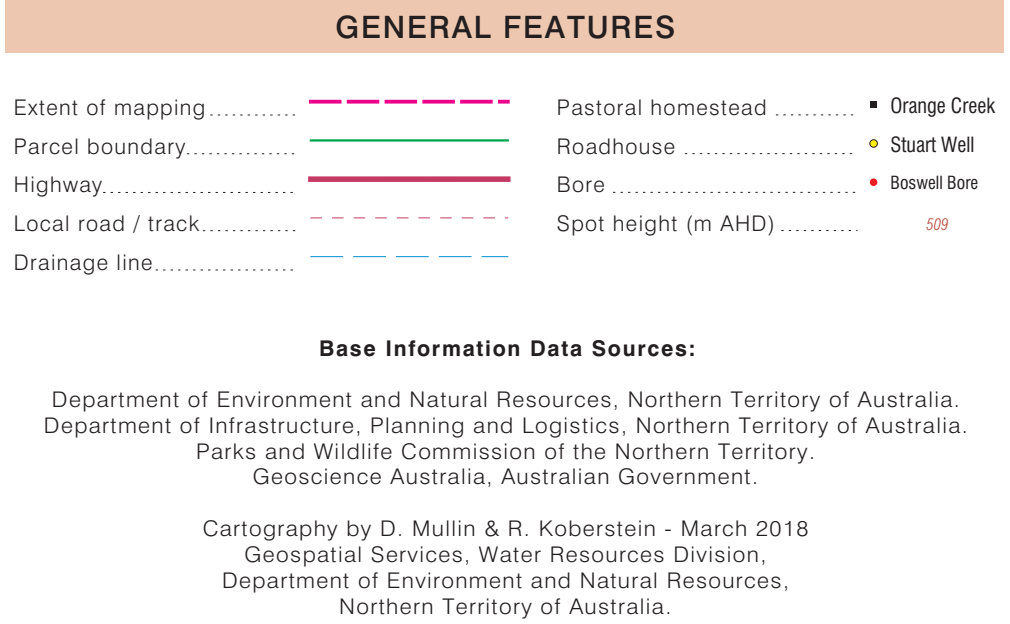
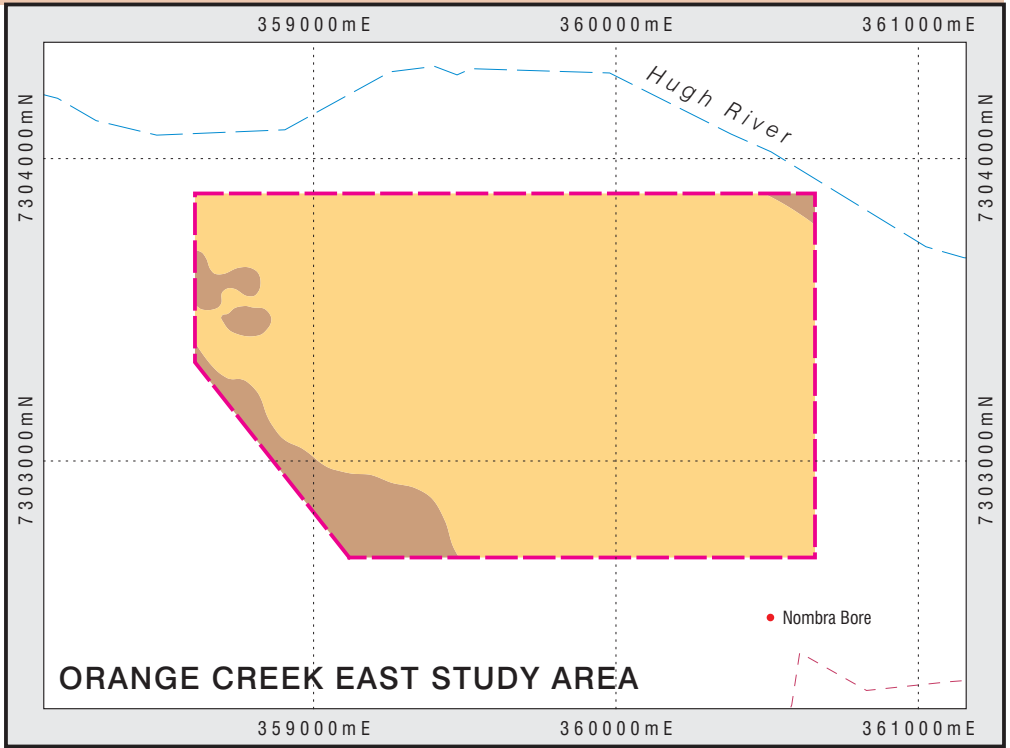
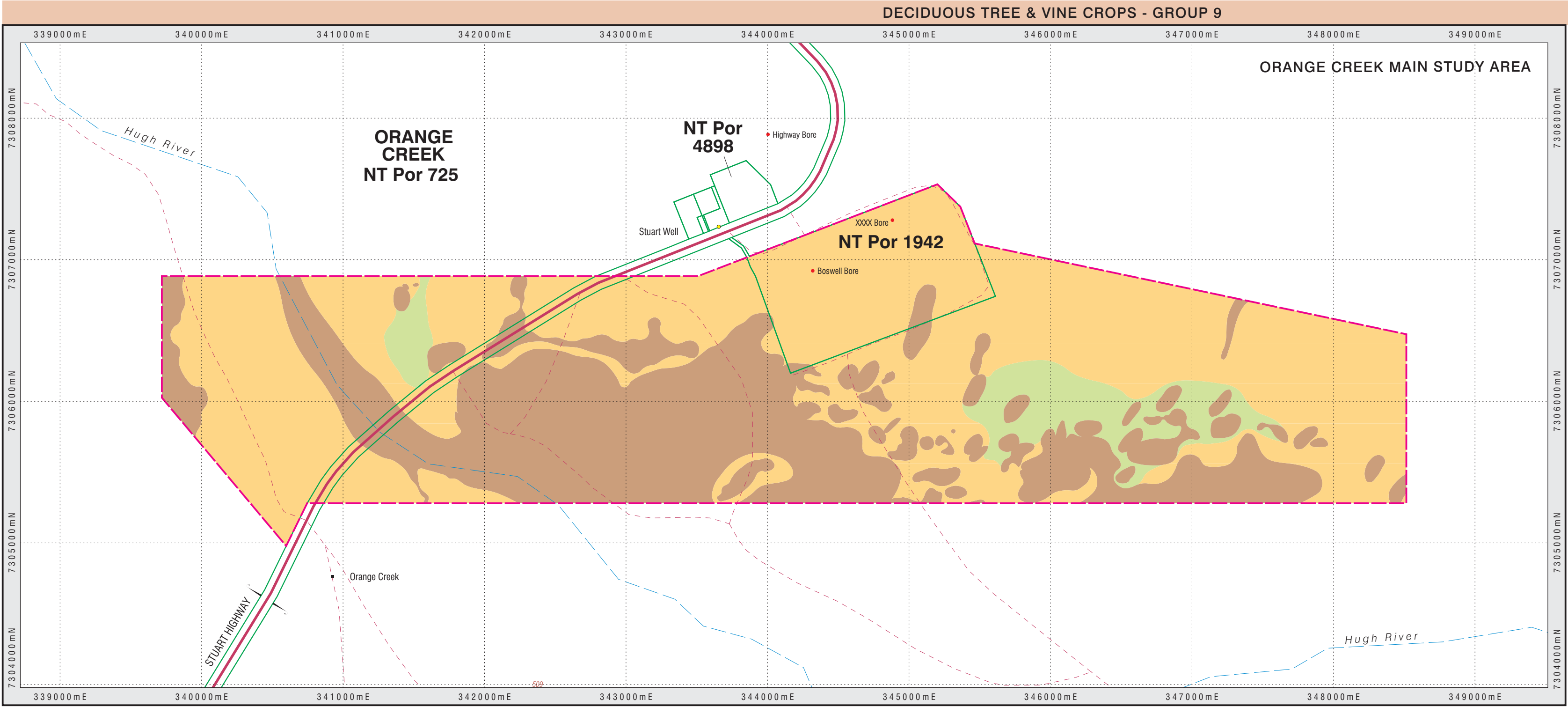
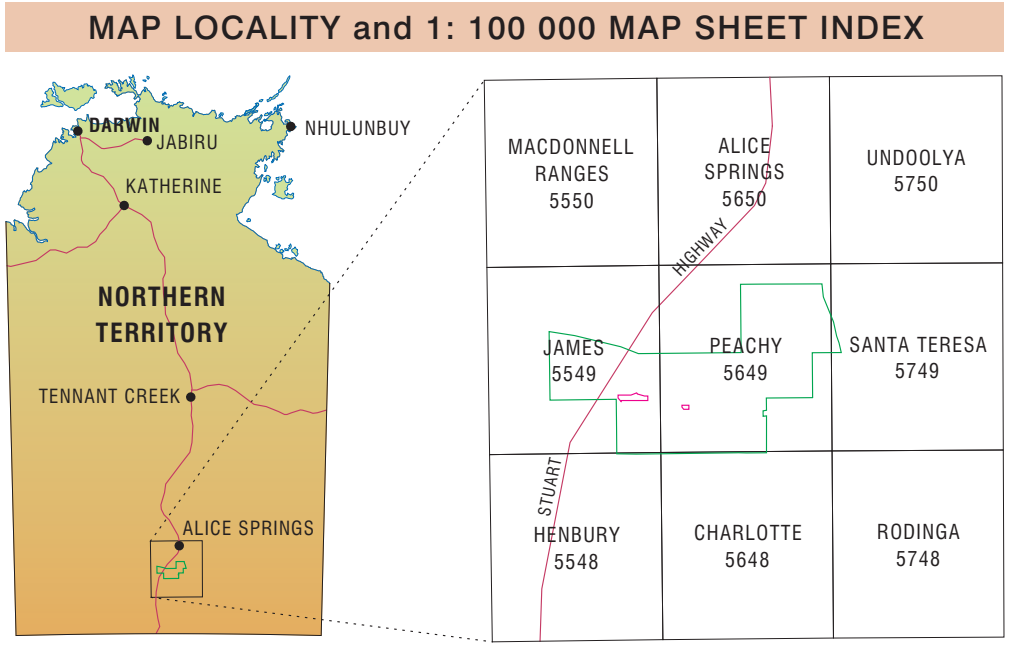
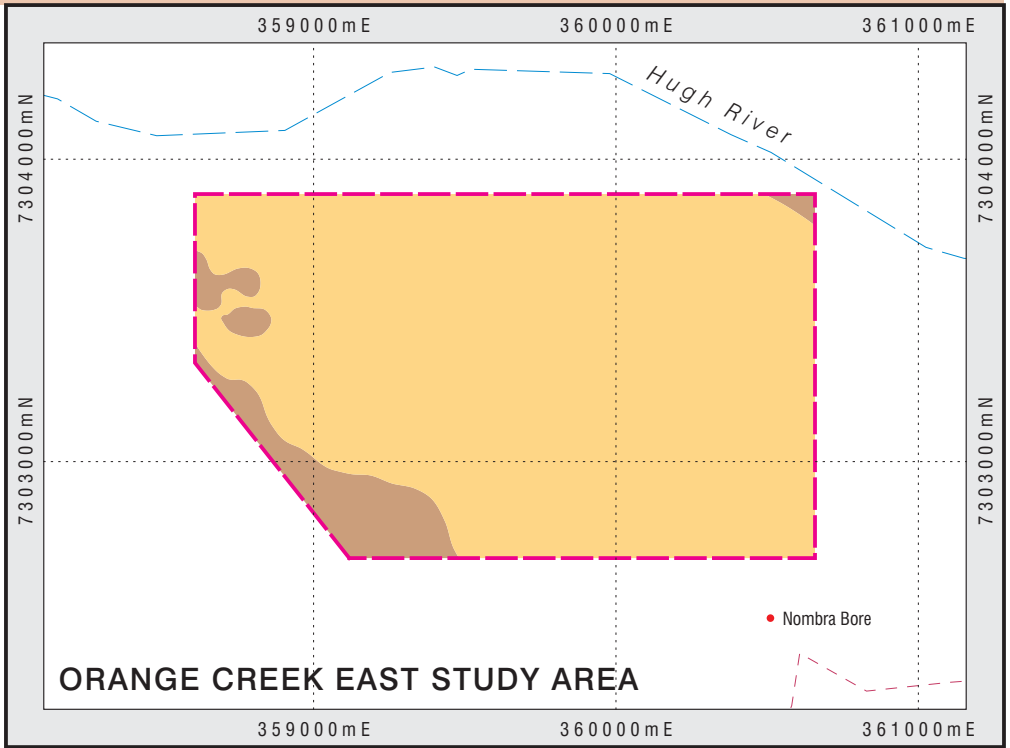
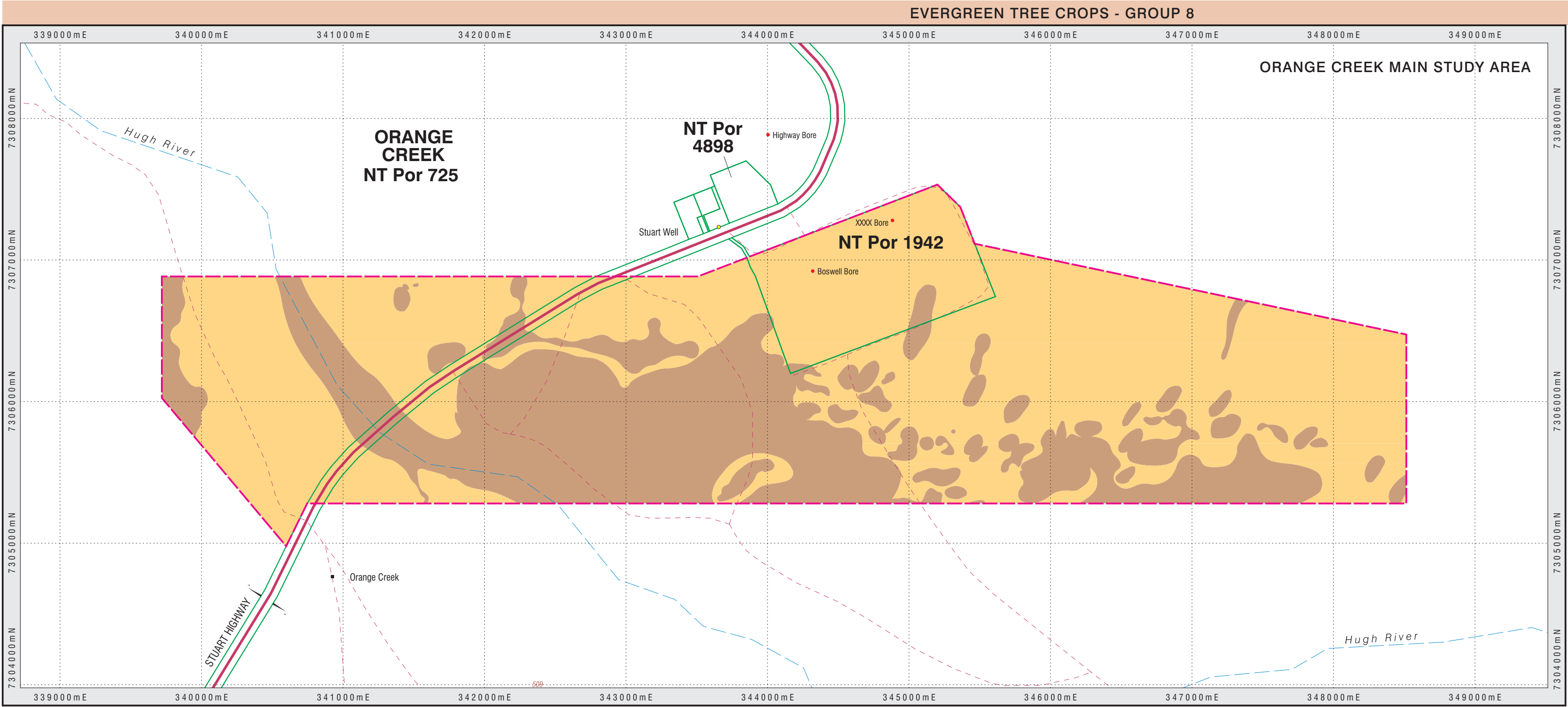
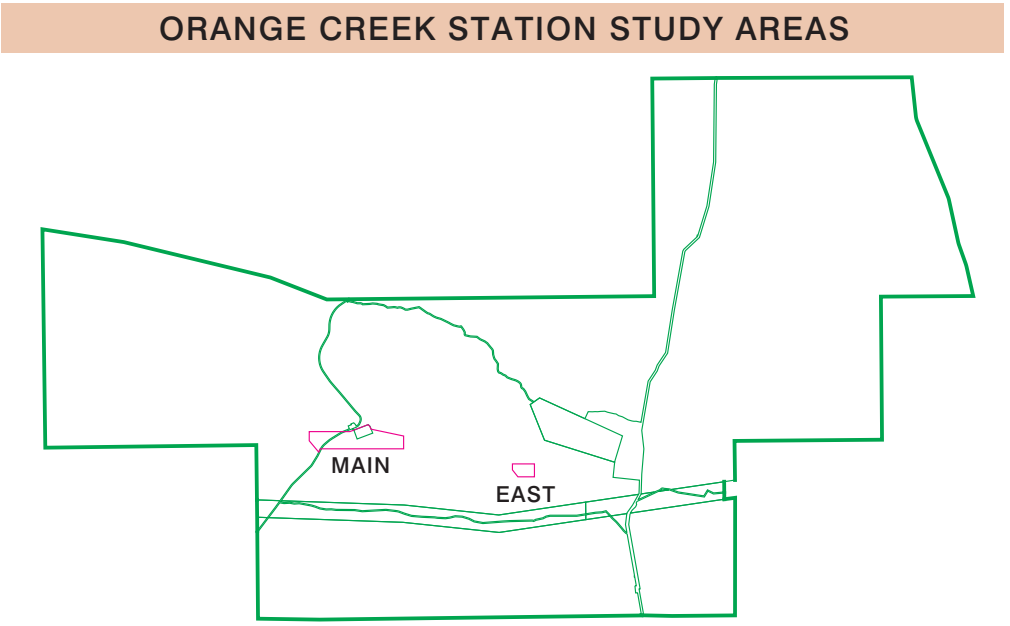
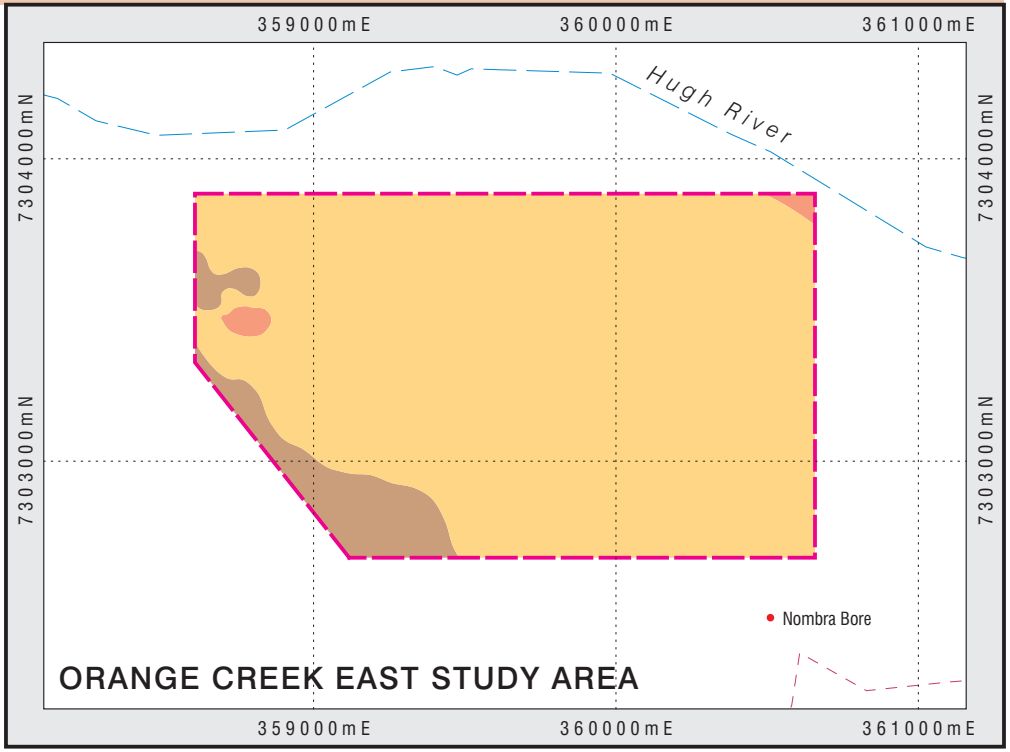
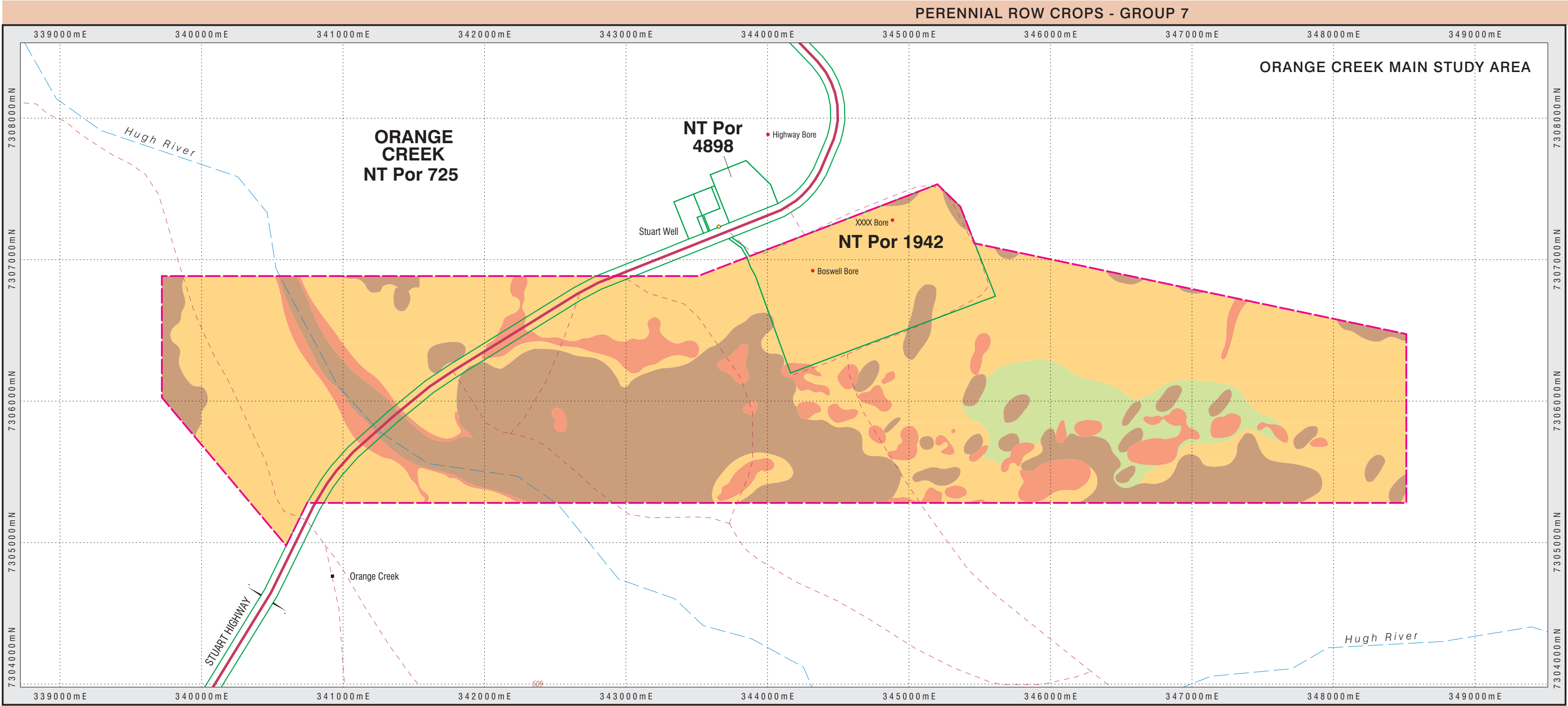
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NORTHERN TERRITORY GOVERNMENT

Soil and Land Suitability Assessment for Irrigated Agriculture

LAND SUITABILITY for IRRIGATED CROP GROUPS 7 to 9 on part of ORANGE CREEK STATION, HUGH RIVER VALLEY

ORANGE CREEK AREA - Map 5 of 5

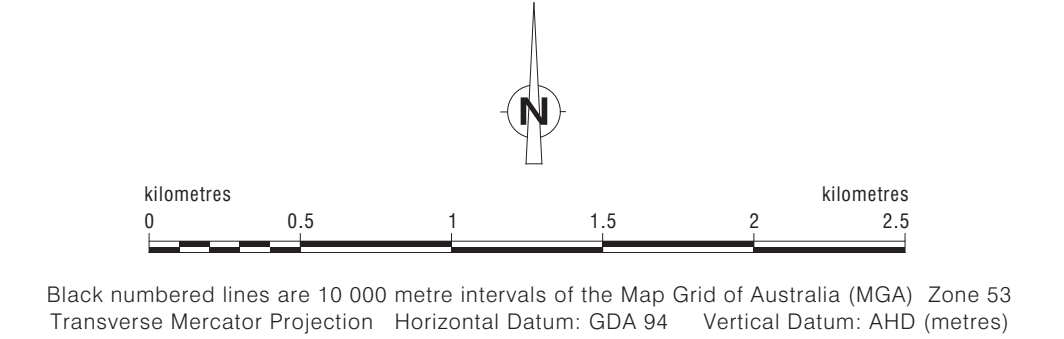
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Web: http://nrmmaps.nt.gov.au Map Reference: Orange-Creek_Land-Suitability_Map-5-of-5

LAND SUITABILITY CLASSES

| | |
|---------|---|
| Class 1 | SUITABLE LAND WITH NEGLIGIBLE LIMITATIONS Highly productive land requiring only simple management practices to maintain sustainable production. |
| Class 2 | SUITABLE LAND WITH MINOR LIMITATIONS Land with minor limitations that either constrain production or require more than the simple management practices of Class 1 land to maintain sustainable production. |
| Class 3 | SUITABLE LAND WITH MODERATE LIMITATIONS Land with moderate limitations that further constrain production or require more than the management practices of Class 2 land to maintain sustainable production. |
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| Class 5 | UNSUITABLE LAND WITH EXTREME LIMITATIONS Land with extreme limitations that preclude any possibility of successful or sustained use, either now or in the future. |

ORANGE CREEK AREA MAP SERIES

| Map | Map Title / Crop Group | Crop Group | Individual Crops Assessed |
|-----|--|------------|---|
| 1 | Land resources on part of Orange Creek Station | N/A | N/A |
| 2 | General land capability on part of Orange Creek Station | N/A | N/A |
| 3 | Land suitability for irrigated field crops (Summer) | 1 | Chia, quinoa, wheat, barley, chickpeas, triticale. |
| | Land suitability for irrigated hay/forage (Summer) | 2 | Grass hay - Rhodes grass, panics, sorghum, Forage legumes - peanut. |
| | Land suitability for irrigated annual row crops (Summer) | 3 | Cucurbit - watermelon, hami melon, honeydew melon, rockmelon, pumpkin, zucchini, squash, Salad vegetables - lettuce, baby spinach, rocket, brassicans, Asian greens, Summer vegetables - Solanaceae (capsicum, chilli, eggplant, tomato), sweet corn, beans, snow peas, brassica. |
| 4 | Land suitability for irrigated root crops (Summer) | 4 | Potato, sweet potato. |
| | Land suitability for irrigated hay/forage (Winter) | 5 | Grass hay - oats, barley, Forage legumes - lucerne. |
| | Land suitability for irrigated root crops (Winter) | 6 | Garlic, onion. |
| 5 | Land suitability for irrigated perennial row crops | 7 | Asparagus |
| | Land suitability for irrigated evergreen tree crops | 8 | Citrus - lemon, mandarin, orange, grapefruit, tangelo, Dates. |
| | Land suitability for irrigated Deciduous tree & vine crops | 9 | Fig, pomegranate, stone fruit, table grapes. |



Black numbered lines are 10 000 metre intervals of the Map Grid of Australia (MGA) Zone 53 Transverse Mercator Projection Horizontal Datum: GDA 94 Vertical Datum: AHD (metres)

This map was produced on the Geocentric Datum of Australia 1994 (GDA 94)

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MAP DISCLAIMER:

Map unit boundaries were derived using satellite imagery in association with digital elevation model, geological and topographic data. Landform, soil and vegetation field assessments conform to national standards and support mapping at a scale of 1:25 000. Final mapping is presented at a scale of 1:25 000.

When assessing specific areas within the mapping it is recommended a site inspection be undertaken to establish unmapped variation and confirm mapping accuracy on the ground.

This map does not indicate, imply or ascertain the likelihood of groundwater availability or the granting of appropriate water extraction licensing needed to satisfy the irrigation requirements of the potential agricultural development options indicated.

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