



Adani Mining Pty Ltd

adaniTM



**Carmichael Coal Mine and
Rail Project SEIS**
Report for Strategic Cropping Land
Assessment

19 July 2013





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Executive summary

This report provides additional information with relation to the proposed Carmichael Coal Mine and Rail Project impact on areas mapped as potential strategic cropping land (SCL). This report forms a component of the Supplementary Environmental Impact Statements (SEIS).

Based on the latest information regarding the rail alignment and ancillary infrastructure footprint, a total area of 155 hectares (ha) of triggered SCL is anticipated to be intersected by the Project (Rail and Ancillary Infrastructure), 116 ha of which is associated with the rail component (95 m wide corridor) and the remaining 40 ha associated with the ancillary infrastructure footprint. No SCL will be impacted by the 5 quarries positioned within the region.

As all the intersected potential SCL is within the western cropping zone management area, the potential SCL is to meet the requirements of a History of Cropping (HoC) and the 8 field criteria for the western cropping zone in order for it to be validated as being SCL. Likewise if the SCL potential SCL fails any of the criteria (HoC and field criteria) then it is not considered to be SCL. A HoC assessment has been undertaken for the affected properties containing potential SCL to verify if there is any evidence of the required HoC, being at least three cropping events from 1999 to 2010 within those properties containing SCL.

Two of the six affected properties have demonstrated evidence of HoC. The remaining four properties do not have any clear indications of previous cropping history.

The two properties with a HoC are Avon Downs (53.5 ha of SCL) and Lambing Lagoon (19.3 ha of SCL). There are 8 areas of SCL within Avon Downs (3 of which are within the rail corridor, the remaining 5 associated with the ancillary infrastructure), and 3 areas of SCL within Lambing Lagoon (1 within the rail corridor, the remaining 2 associated with the ancillary infrastructure).

To further validate those properties with a HoC, an assessment of relevant information was undertaken including a slope analysis and review of geotechnical reports. Slope was the only partially assessable SCL criteria. Geotechnical information was collected for the purpose of informing the design of the rail infrastructure, and not for an SCL assessment, so it was of limited use for this assessment.

Adani will elect to accept the SCL trigger mapping for both Avon Downs and Lambing Lagoon, and will enter into discussions with the Department of Natural Resources and Mines (DNRM) prior to submitting the protection decision application. Details on the impact type (permanent or temporary) will be established in line with the definitions in the SCL Act prior to submitting the applications. This will have some bearing on total mitigation fee and rehabilitation requirements.

For the properties containing SCL that failed the preliminary HoC assessment (Myra, Wentworth, Rugby, Rugby Run), Adani will submit the *Strategic Cropping Land Validation – Cropping History* application forms separate to this SEIS, but using the evidence gathered in this assessment for that submission. Consultation with DNRM will occur during prior to the submission of these forms to ensure the application process is streamlined.

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1. Introduction

1.1 Project overview

Adani Mining Pty Ltd (Adani, the Proponent), commenced an Environmental Impact Statement (EIS) process for the Carmichael Coal Mine and Rail Project (the Project) in 2010. On 26 November 2010, the Queensland (Qld) Office of the Coordinator General declared the Project a 'significant project' and the Project was referred to the Commonwealth Department of Sustainability, Environment, Water, Population and Communities (DSEWPac) (referral No. 2010/5736). The Project was identified as a controlled action on the 6 January 2011 under section 75 and section 87 of the Commonwealth *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act). The controlling provisions for the Project include:

- World Heritage properties (sections 12 & 15A)
- National Heritage places (sections 15B & 15C)
- Wetlands (Ramsar) (sections 16 & 17B)
- Listed threatened species and communities (sections 18 & 18A)
- Listed migratory species (sections 20 & 20A)
- The Great Barrier Reef Marine Park (GBRMP) (sections 24B & 24C)
- Protection of water resources (sections 24D & 24E)

The Qld Government's EIS process has been accredited for the assessment under Part 8 of the EPBC Act in accordance with the bilateral agreement between the Commonwealth of Australia and the State of Queensland.

The Proponent prepared an EIS in accordance with the Terms of Reference (ToR) issued by the Qld Coordinator-General in May 2011 (Qld Government, 2011). The EIS process is managed under section 26(1) (a) of the *State Development and Public Works Act 1971* (SDPWO Act), which is administered by the Qld Government's Department of State Development, Infrastructure and Planning (DSDIP).

The EIS, submitted in December 2012, assessed the environmental, social and economic impacts associated with developing a 60 million tonne (product) per annum (Mtpa) thermal coal mine in the northern Galilee Basin, approximately 160 kilometres (km) north-west of Clermont, Central Queensland, Australia. Coal from the Project will be transported by rail to the existing Goonyella and Newlands rail systems, operated by Aurizon Operations Limited (Aurizon). The coal will be exported via the Port of Hay Point and the Point of Abbot Point over the 60 year (90 years in the EIS) mine life.

Project components are as follows:

- The Project (Mine): a greenfield coal mine over EPC 1690 and the eastern portion of EPC 1080, which includes both open cut and underground mining, on mine infrastructure and associated mine processing facilities (the Mine) and the Mine (offsite) infrastructure including a workers accommodation village and associated facilities, a permanent airport site, an industrial area and water supply infrastructure



- The Project (Rail): a greenfield rail line connecting the mine to the existing Goonyella and Newlands rail systems to provide for the export of coal via the Port of Hay Point (Dudgeon Point expansion) and the Port of Abbot Point, respectively including:
 - Rail (west): a 120 km dual gauge portion running west from the Mine site east to Diamond Creek
 - Rail (east): a 69 km narrow gauge portion running east from Diamond Creek connecting to the Goonyella rail system south of Moranbah
 - Quarries: The use of five local quarries to extract quarry materials for construction and operational purposes

1.2 Report purpose

This report has been prepared as part of the Supplementary Environmental Impact Statement (SEIS) for the proposed Carmichael Coal Mine and Rail Project. As part of the Environmental Impact Statement (EIS) for the Project, six areas were identified as potentially impacting strategic cropping land (SCL). This report provides an assessment of these areas based on the history of cropping and desktop review of available information against the SCL criteria.

Since the preparation of the EIS, the rail alignment has been refined resulting in a minor amendment to the alignment, with ancillary infrastructure and quarries now being included within the study area. A reassessment of the affected potential SCL impacted by the rail corridor, ancillary infrastructure and the quarries is provided in this report.

1.3 Study area

The study area for this assessment relates to the Project (Rail), inclusive of the associated ancillary infrastructure, quarries and rail corridor. The Project (Rail) consists of a 95 metre (m) corridor referred to as:

- Rail (west): a 120 km dual gauge portion running west from the Mine site east to Diamond Creek
- Rail (east): a 69 km narrow gauge portion running east from Diamond Creek connecting to the Goonyella rail system south of Moranbah

In addition to the 95 m wide rail corridor the following is also included in the study area:

- The ancillary infrastructure (bridge laydown, track laydown and turning circle laydown) will be located outside of the 95 m rail corridor
- There are a total of 5 quarries, identified as Disney, Borrow 7, Back Creek South, Moray Quarry and North Creek, have been positioned within the region to extract quarry materials for construction and operational purposes

The study area is solely within the SCL management area, specifically the western cropping zone.

1.4 Strategic cropping land overview

As all the intersected potential SCL is within the western cropping zone management zone, the potential SCL is to meet the requirements of a History of Cropping (HoC) and the eight field criteria for the western cropping zone in order for it to be validated as being SCL. Likewise if the

SCL potential SCL fails any of the criteria (HoC or any of the field criteria) then it is not considered to be SCL. As such a HoC assessment has been undertaken for the affected properties containing potential SCL, as a first pass, to verify if there is any evidence of the required HoC. A HoC is briefly defined as being at least three cropping events from 1999 to 2010 within those properties containing SCL.

Impacts under the SCL Act are categorised as being either temporary or permanent. Under the SCL Act, temporary impacts are defined as those that prevent cropping for up to 50 years, at which point the soil resource and landform will be restored to its former SCL status. The impact on the soil resource and landforms will need to be as such that they can be restored to pre-existing condition and soil health.

Permanent impacts disturb cropping activities for 50 years or beyond and may not facilitate restoration of land to its former SCL status. In this case, a mitigation fee is required to maintain productivity of Australia's agricultural land, but does not substitute activities to minimise impacts on SCL.

Details on the impact type (permanent or temporary) will be established in line with the definitions in the SCL Act prior to submitting the applications. This will have some bearing on total mitigation fee and rehabilitation requirements

1.5 Assessment methodology

A HoC assessment and review and interpretation of information collected from the geotechnical investigations against the relevant SCL criteria for the western cropping zone has been undertaken to assess the potential SCL impacted by this project.

From a desktop level, the following has been undertaken to assess the potential SCL:

- An assessment of the HoC of the SCL properties traversed by the Project (Rail)
- An assessment of the slope criteria for the impacted areas of potential SCL using LiDAR data
- An assessment, where possible, of field information collected from geotechnical investigations undertaken within the potential SCL areas against the eight criteria for SCL for the western cropping management area

A series of maps per property illustrating aerial evidence, or lack thereof, of cropping from the period 1999 to 2010 are included in Appendix A, accompanied by the SCL trigger mapping results for those individual land parcels.

This assessment was conducted according to the following legislation and guidelines:

- Queensland Government 2011, Strategic Cropping Land Act 2011
- Department of Environment and Resource Management (DERM) 2012, Protecting Queensland's Strategic Cropping Land: Cropping History Assessment Guidelines
- Guidelines for Applying the Proposed Strategic Cropping Land Criteria (DERM 2011)

1.5.1 History of cropping

In accordance with the *Strategic Cropping Land Act 2011* (SCL Act), SCL areas within a management zone are required to pass the history of cropping (HoC) test as well as the field criteria. If the SCL area fails this HoC test, the site does not qualify as SCL and field validation

assessment is not required. Sections 46, 49 and 50 of the SCL Act set out the requirements for demonstrating whether or not a property has the required HoC.

A cropping history assessment requires that at least three cropping events occurred on the property from 1 January 1999 to 31 December 2010. This static period was specifically chosen because it includes at least two periods of above average rainfall for most areas of the state in which cropping occurs. All types of cultivated food, fibre, timber, medicinal and fodder crops are considered to be crops for demonstrating cropping history.

The HoC applies at a property level; whereby the entire property is assessed even if only a portion of the property is mapped as SCL. A property is defined as a single lot or a set of contiguous lots that are owned by the same person, have one or more common owners or are managed as a single agricultural unit. The definition of a property includes lots separated by a road or watercourse (as described under section 5 of the *Water Act 2000*). For example, if a landowner owned two lots adjacent to each other on either side of road it would be defined as a property. If a property consists of multiple lots with different owners, it can only be considered as a single property where it is managed as a single agricultural unit.

A HoC assessment was undertaken on the six properties (identified as Avon Downs, Lambing Lagoon, Myra, Wentworth, Rugby and Rugby Run, details provided in Table 4) containing SCL polygons intersected by the study area, utilising LANDSAT aerial imagery, Google Maps and information contained in the EIS. For the purpose of reporting, SCL polygons intersected by the Project (Rail) were segregated to differentiate between rail corridor and ancillary infrastructure disturbances according to property boundaries.

1.5.2 Assessment against field criteria

SCL is divided into five zones that reflect regional differences in climate, land form and cropping systems. These zones are sub-divided into management areas and protection areas. An assessment of the SCL trigger mapping of the relevant zone was conducted to identify potential SCL in the study area. The criterion for assessing SCL in the Western Cropping zone is provided in Table 1.

Table 1 Strategic cropping land field criteria for western cropping

Criteria	Western cropping
1. Slope	Less than 3 percent
2. Rockiness	Less than 20 percent for rocks greater than 60 mm
3. Gilgai microrelief	Less than 50 percent of land surface being gilgai microrelief of greater than 500 mm in depth
4. Soil depth	Greater than 600 mm
5. Soil wetness	Has favourable drainage
6. Soil pH	For non-rigid soils, the soil at 300 mm and 600 mm soil depth must be greater than pH 5.0.
7. Salinity	Chloride content less than 800 mg/kg within 600 mm of the soil surface
8. Soil Water Storage	Greater than or equal to 100 mm to a soil depth or soil physico-chemical limitation of less than or equal to 1000 mm

The eight criteria were analysed using a variety of available information, including LiDAR information and the creation of a digital elevation model (DEM) and geotechnical data (Cardno, Ullman and Nolan, 2012 and 2013). The geotechnical investigations were undertaken to obtain



sufficient information to progress design of the SP1 & 2 railway and not to assess SCL so their application to an SCL assessment was limited.

Each criterion is described and discussed according to the acceptable procedure for site measurement and reporting requirements set out in *Protecting Queensland's strategic cropping land: Guidelines for applying the proposed strategic cropping land criteria* (DERM 2011), with a discussion on the ability to use existing information to assess the criteria. This assessment is provided below:

- Slope describes the incline of the land and is assessable by topographic maps, interpretation of aerial photography and DEM prior to field investigation to ascertain the likelihood of the triggered polygon passing the criteria. Measurements of slope should be measured over distances of at least 20 metre (m) intervals following the direction of incline. Significant change in slope and artificial features are excluded from assessment. For the purpose of this assessment, slope was partially assessable at a desktop level utilising LiDAR technology with incline of slope estimated over distances of 20 m intervals. Available LiDAR information allowed an assessment of polygons SCL-09 to SCL-20 but excluded polygons to the west of SCL-09 due to no LiDAR information being available.
- Rockiness refers to the percentage of unattached rocks, coarse rock fragments or rocky outcrops greater than 60 millimetre (mm) in diameter on the soil surface and within a 10 m radius of the site. This criterion was not able to be assessed from the geotechnical records. Gilgai microrelief refers to depressions and mounds formed on the surface of the landscape and are usually associated with cracking clays. Photographs will indicate presence of microrelief but depth and density of depressions must be measured in the field using a tape or level staff and recorded photographically. Photographs included in the geotechnical reports were not of sufficient resolution for this assessment.
- Soil depth is the depth of potential root penetration to 1 metre Below Ground Level (mBGL) and is restricted by a physical barrier such as bedrock, weathered rock, hard pans and continuous gravel layers. Sampling methods include hand auguring or excavation of a test pit. Depth of soil must be recorded to the nearest 50 mm and must detail type and size of barrier encountered, degree of cementation, abundance and size of coarse fragments in a gravel layer and presence and degree of weathering in bedrock. The geotechnical investigations were not able to be used to assess these criteria.
- Favourable drainage is preferable to soil wetness. Impediments to drainage can be initially identified by vegetation, low-lying topography and mottling in the soil profile. More thorough indications of soil wetness are described by soil colour, abundance and contrast of mottles in each soil horizon according to *Australian Soil and Land Survey Field Handbook* (NCST 2009) and *Munsell Colour Company* (2000). Reporting must include depth to waterlogged horizons. Whilst colour of soil and mottling was described in geotechnical reports, reporting was not undertaken in accordance with the required guideline and therefore was not able to be used in this assessment.
- Soil pH refers to the alkalinity or acidity of soil and must be reported at intervals of 0.30 m and 0.60 m in accordance with the method in Rayment and Lyons (2011). In-field pH kits, electrode meters or laboratory data were not included in reviewed documents and is therefore not assessable in the absence of a field investigation.



- As with soil pH, salinity concentrations must be measured at depths of 0.3 m and 0.6 m by measuring concentrations of soluble chloride in accordance with Rayment and Lyons (2011). Chloride concentrations were not included in reviewed documents and is therefore not assessable in the absence of a field investigation.
- If the seven prior criteria have been met, soil water storage may be calculated from morphological and chemical elements that affect effective rooting depth. The soil descriptions and laboratory reports did not allow for an assessment of this criterion.

2. Strategic cropping land

2.1 Overview

The study area is solely within the SCL management area, specifically the western cropping zone. The infrastructure components (rail corridor, ancillary infrastructure and quarries) create 20 parcels of potential SCL (Figure 1). There is no impact on any potential SCL associated with the 5 quarries.

A total of 155 ha of potential SCL will be impacted by the Study Area. A unique SCL polygon identifier has been allocated to each potential SCL area that will be impacted and has been delineated based on whether it is impacted by the rail and ancillary infrastructure. Figure 1 details the location of the SCL with relation to the project infrastructure.

2.2 Rail infrastructure

Eight potential SCL polygons will be created following the intersection of potential SCL by the rail corridor as detailed in Table 2. SCL trigger mapping indicates that approximately 115 ha of SCL will be impacted by the rail component of the project. There are 36.02 ha of potential SCL impacted within the Rail (west) corridor, with the remaining 79.09 ha located within the Rail (east) corridor.

Table 2 Potential strategic cropping land within rail corridor

SCL polygon identifier	Approximate Chainage (CH) km	Rail alignment	Area of strategic cropping land*
SCL-01	CH78	Rail (west)	14.86
SCL-05	CH74	Rail (west)	16.07
SCL-08	CH70	Rail (west)	5.09
SCL-09	CH64	Rail (east)	12.28
SCL-12	CH61	Rail (east)	9.19
SCL-13	CH23	Rail (east)	37.58
SCL-16	CH21	Rail (east)	4.82
SCL-17	CH11	Rail (east)	15.22
Total			115.11
*Total area calculation based on 95 m Project (Rail) corridor			

2.1 Ancillary infrastructure

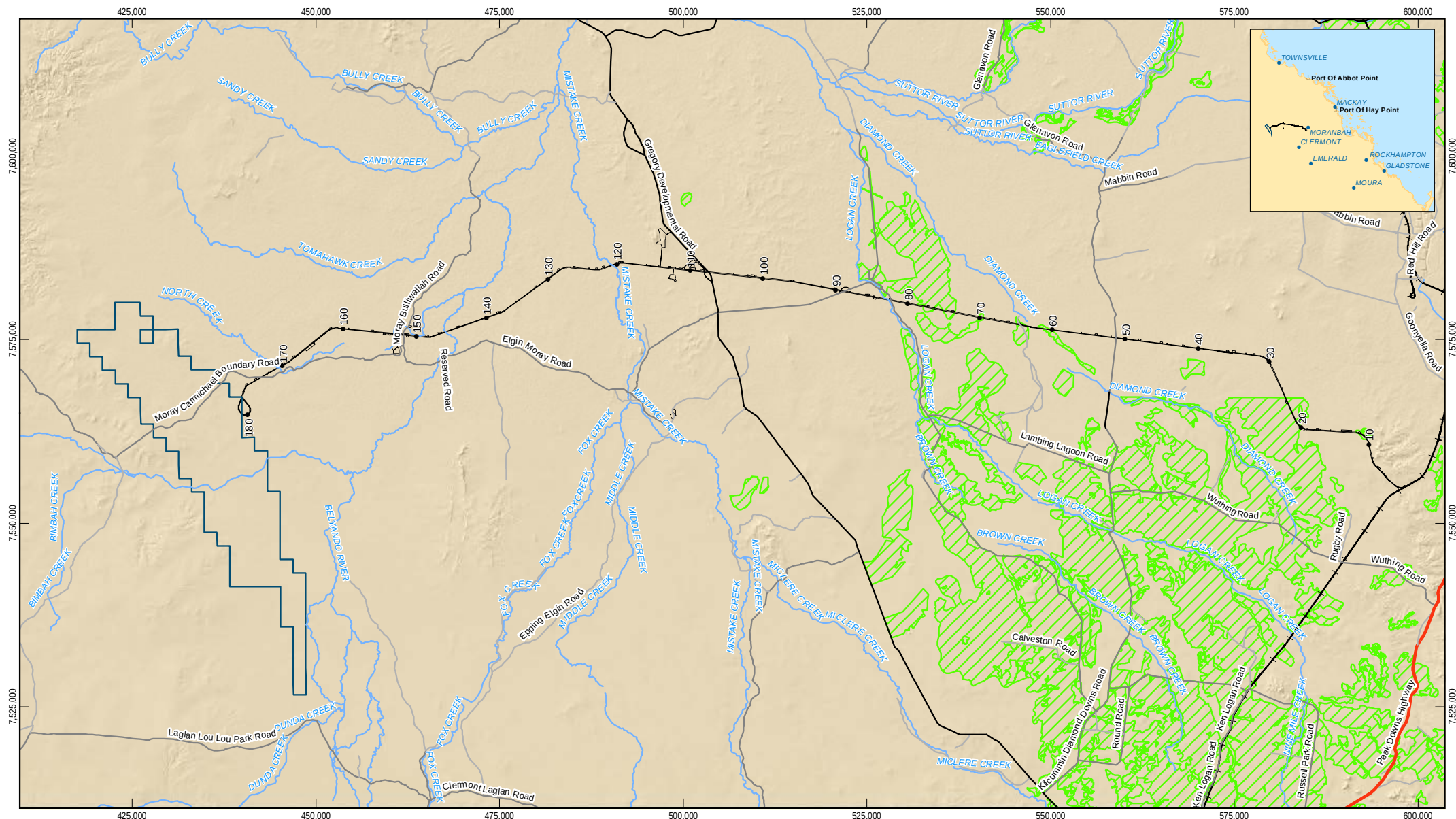
Twelve potential SCL polygons will be created following the intersection of potential SCL by ancillary infrastructure, details of which are presented in Table 3. Impact from ancillary infrastructure has been differentiated from that imposed by rail infrastructure given that all impacts associated with the ancillary infrastructure are reported to be temporary in nature (see Section 2.2 for further detail on the definition of impact). There are 17.5 ha of potential SCL impacted within the Rail (west) ancillary infrastructure, with the remaining 22.07 ha of potential SCL within areas impacted by ancillary infrastructure associated with Rail (east).

The SCL trigger mapping does not show any potential SCL within areas identified as future quarries. As such, there will be no impact on any potential SCL associated with the quarries.

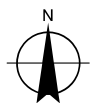


Table 3 Potential strategic cropping land impacted by ancillary infrastructure

SCL polygon identifier	Approximate Chainage (CH) km	Ancillary infrastructure type	Area of strategic cropping land (ha)
SCL-02	Offset from CH78	Track laydown	4.49
SCL-03	Offset from CH77	Bridge laydown	6.00
SCL-04	Offset from CH76	Turning circle laydown	1.00
SCL-06	Offset from CH74	Track laydown	5.00
SCL-07	Offset from CH74	Turning circle laydown	1.00
SCL-10	Offset from CH65	Bridge laydown	6.00
SCL-11	Offset from CH64	Turning circle laydown	1.00
SCL-14	Offset from CH24	Turning circle laydown	1.00
SCL-15	Offset from CH24	Track laydown	4.50
SCL-18	Offset from CH12	Track laydown	4.56
SCL-19	Offset from CH12	Turning circle laydown	1.00
SCL-20	Offset from CH11	Bridge laydown	4.01
Total			39.56



1:700,000 (at A4)
0 2.5 5 10 15 20
Kilometres
Map Projection: Universal Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 55



LEGEND

Highway	Railway	Project (Mine)
Main Road	Watercourse (Major)	Project (Rail)
Secondary Road		Strategic Cropping Land
Local Road		



Adani Mining Pty Ltd
Carmichael Coal Mine and Rail Project SEIS
**Strategic Cropping Land
Assessment - Overview**

Job Number 41-26422
Revision 1
Date 16-07-2013

Figure 1

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Data source: GA: Populated Places, Railway, Watercourse/2007, SRTM DEM/2002; Adani: Sp1 and 2 Corridor 01/07/13, Ancillary Features 01/07/13; DNRM/GHD: Property Boundary/2013; DNRM: Roads/2010, DCDB /2013; Created by IH

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2.2 Disturbance type

Impacts under the SCL Act are categorised as being either temporary or permanent. The impacted potential SCL polygons have been segregated to differentiate between areas impacted by temporary and permanent structures according to property boundaries and impact by rail or ancillary infrastructure. At the current stage of assessment, Adani Mining (Adani) has differentiated disturbance type, which may change relative to outcomes of discussions with Department of Natural Resources and Mines (DNRM) that will occur prior to submission of the protection decision application (required only for those properties that have a history of cropping).

Under the SCL Act, temporary impacts are defined as those that prevent cropping for up to 50 years, at which point the soil resource and landform will be restored to its former SCL status. The impact on the soil resource and landforms will need to be as such that they can be restored to pre-existing condition and soil health.

Permanent impacts disturb cropping activities for 50 years or beyond and may not facilitate restoration of land to its former SCL status. In this case, a mitigation fee is required to maintain productivity of Australia's agricultural land, but does not substitute activities to minimise impacts on SCL.

Mitigation costs of each activity pertaining to permanent impacts is calculated based on the Strategic Cropping Land Regulation 2011, whereby parcels of SCL are rounded up to the nearest 1 ha increment. The prescribed mitigation fee for the Central Highlands Isaac sub-zone (in which all SCL for this project is located) as prescribed in the SCL Regulation, is \$4,750 / ha.

3. Desktop assessment

3.1 History of cropping assessment

Twenty triggered SCL polygons will be intersected by rail and ancillary infrastructure, which traverses through six properties (see Table 4). Of the six properties assessed for HoC, two properties demonstrated evidence of at least three cropping events from the period 1999 until 2010, observed in LANDSAT imagery included in Appendix A. Google imagery confirmed current cultivation activities on one of these properties. Evidence of at least three cropping events was not observed on the remaining four properties, resulting in two properties with a HoC in line with the assessment criteria and four properties not having a HoC in line with the assessment criteria.

Table 4 History of cropping assessment

SCL polygon	Rail or Ancillary Infrastructure	Area of SCL (ha)	Property Lot on Plan	Evidence	Result
SCL-01	Rail	14.86	Avon Downs Lot 10 on BL49	Evidence of three cropping events was observed from LANDSAT imagery. Additional evidence of cultivation was observed in Google Maps.	HoC observed
SCL-02	Ancillary – Track laydown	4.49			
SCL-03	Ancillary – bridge laydown	6.00			
SCL-04	Ancillary – turning circle laydown	1.00			
SCL-05	Rail	16.07			
SCL-06	Ancillary – track laydown	5.00			
SCL-07	Ancillary – turning circle laydown	1.00			
SCL-08	Rail	5.09	Lambing Lagoon Lot 6 on SP125740	Evidence of three cropping events were observed from LANDSAT imagery	HoC observed
SCL-09	Rail	12.28			
SCL-10	Ancillary – bridge laydown	6.00			
SCL-11	Ancillary– turning circle laydown	1.00	Myra Lot 5 on SP125740	Evidence of three cropping events were <u>not</u> observed from LANDSAT imagery	No HoC observed
SCL-12	Rail	9.19			
SCL-13	Rail	37.58	Wentworth Lot 2 on DC99	Evidence of three cropping events were <u>not</u> observed from LANDSAT imagery	No HoC observed
SCL-14	Ancillary – turning circle laydown	1.00			
SCL-15	Ancillary – track laydown	4.50			
SCL-16	Rail	4.82	Rugby Lot 5305 on SP240414	Evidence of three cropping events were <u>not</u> observed from LANDSAT imagery	No HoC observed
SCL-17	Rail	15.22	Rugby Run Lot 2 on GV248	Evidence of three cropping events were <u>not</u> observed from LANDSAT imagery	No HoC observed
SCL-18	Ancillary – track laydown	4.56			
SCL-19	Ancillary – turning circle laydown	1.00			
SCL-20	Ancillary – bridge laydown	4.01			



3.2 Findings

Of the six properties identified as being intersected by the rail corridor, ancillary infrastructure and quarries, only two properties (Avon Downs and Lambing Lagoon) have demonstrated evidence of three cropping events during the period from 1999 to 2010. Polygons SCL-01 to SCL-08 (total of 53.5 ha) is located on Avon Downs and polygons SCL-09 to SCL-11 (total of 19.28 ha) are situated on Lambing Lagoon. For those properties containing SCL polygons that were identified as passing the HoC assessment, Adani will elect to accept the potential SCL as actual SCL, and submit an application for a protection decision.

The associated mitigation costs for the SCL that is to be permanently impacted will be paid in a staged manner, prior to the disturbance to each new area of SCL. This is to cater for any future planning decisions with relation to final alignment options, in order to ensure mitigation costs are paid only for those areas of SCL that will be impacted. In submitting these forms, the justification for identifying the areas of permanent and / or temporary impacts will also be provided. A pre-lodgement meeting with DNRM will be held prior to submission of this application.

To provide additional information on the condition of the potential SCL with respect to the SCL field criteria, a review of available information relating to the condition of land and soil has been undertaken. This is detailed in Section 3.3.

For the properties containing SCL that failed the preliminary HoC assessment, Adani will submit the Strategic Cropping Land Validation – Cropping History (Part B) forms separate to this SEIS submission. Consultation with DNRM will occur prior to the submission of these forms to ensure the application process is streamlined.

This process requires submission of two application forms:

- Part A—Strategic cropping land validation—All applications application form
- Part B—Strategic cropping land validation—Cropping history application form

If DNRM confirm that the properties do not have a HoC, then the potential SCL will not be considered to be SCL and no further work is required. Such a decision will incorporate polygons SCL-12 to SCL-20.

3.3 Review against field criteria

Adani have elected to not undertake any further validation (i.e. field assessment against the zonal criteria assessment) of the potential SCL that has demonstrated a HoC. However an assessment of available information against the relevant SCL criteria for western cropping has been undertaken to identify whether any additional refinement / validation of the potential SCL could be established. The two sources of information that were able to be used to assess against the SCL criteria were the geotechnical records and the LiDAR information. Geotechnical records were reviewed and revealed as not being applicable to an SCL assessment; however LiDAR data was able to be used to assess the slope criterion.

3.3.1 Slope (LiDAR)

A slope analysis on SCL within the Study Area footprints is provided in Figure 2. Available LiDAR data provided covered the area of polygons SCL-09 to SCL-20. Consequently, slope analysis could only be assessed for those polygons. All of the assessable SCL polygons



intersected by rail and ancillary infrastructure passed the prescribed criteria with slope of the land surface being less than 3 percent.

4. Key findings

Twenty triggered SCL polygons will be intersected by the Study Area, eight of which are devoted to rail infrastructure and twelve of which are devoted to ancillary infrastructure. The proposed quarries will not impact SCL. The area of impacted SCL is approximately 155 ha inclusive of both rail and ancillary infrastructure areas. Broken down, 115 ha are impacted by rail infrastructure (permanent impact) and 40 ha of which is impacted by ancillary infrastructure (temporary impact). A final decision on the type of disturbance will be made by DNRM following submission of relevant documentation.

A history of cropping assessment has determined that two properties (Avon Downs and Lambing Lagoon) containing 11 SCL polygons that have a HoC demonstrating evidence of at least three cropping events from 1999 to 2010. The remaining nine polygons are within four properties that do not have a HoC and are not considered to be SCL. An application to DNRM will be submitted for these properties, separate to this SEIS, with the supporting evidence provided.

Avon Downs contains eight SCL polygons (separated into rail corridor and ancillary infrastructure). Permanent impacts arising from the rail corridor relate to three different SCL areas totalling 36.02 ha, with temporary impacts, affecting 17.5 ha. Lambing Lagoon contains three SCL polygons. Permanent impacts arising from the rail corridor relate to one SCL area totalling 12.3 ha, with temporary impacts, affecting 7 ha.

The desktop assessment was based on available resources, including LiDAR technology, previous reporting and geotechnical investigations. Based on relevant information, slope was the only partially assessable SCL criteria, and was within the criterion threshold of less than three per cent.

5. Conclusions

This report has been prepared to provide a desktop assessment of SCL impacted by the proposed Project (Rail). A HoC has confirmed evidence of at least three cropping events on two properties (Avon Downs and Lambing Lagoon) containing 11 SCL areas (divided into rail and ancillary infrastructure). Available information, LiDAR and geotechnical reports were reviewed to allow for further SCL assessment against the eight field criteria. Slope was the only criteria able to be assessed, and relevant information (LiDAR) covered only a portion of the site. Where slope was assessed, slope was within the less than 3 percent criterion for Western Cropping. At this stage, Adani proposes to accept the triggered SCL that passed the HoC assessment as actual SCL and no field verification of SCL is proposed to be undertaken..

6. References

Cardno, Ullman and Nolan Geotechnic 2012, Factual report on Geotechnical Investigation: Carmichael Coal Mine and Rail Project – SP1 Rail Corridor, Cardno (Qld) Pty Ltd, Australia

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Department of Environment and Resource Management (DERM) 2011, Protecting Queensland's strategic cropping land: Guidelines for applying the proposed strategic cropping land criteria, State of Queensland (Department of Environment and Resource Management)

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Rayment, GE and Lyons, DJ. 2011, Soil Chemical Methods – Australasia, pp. 495, CSIRO Publishing, Australia Melbourne.



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Appendices



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Appendix A - History of Cropping

Avon Downs 1999 – 2010

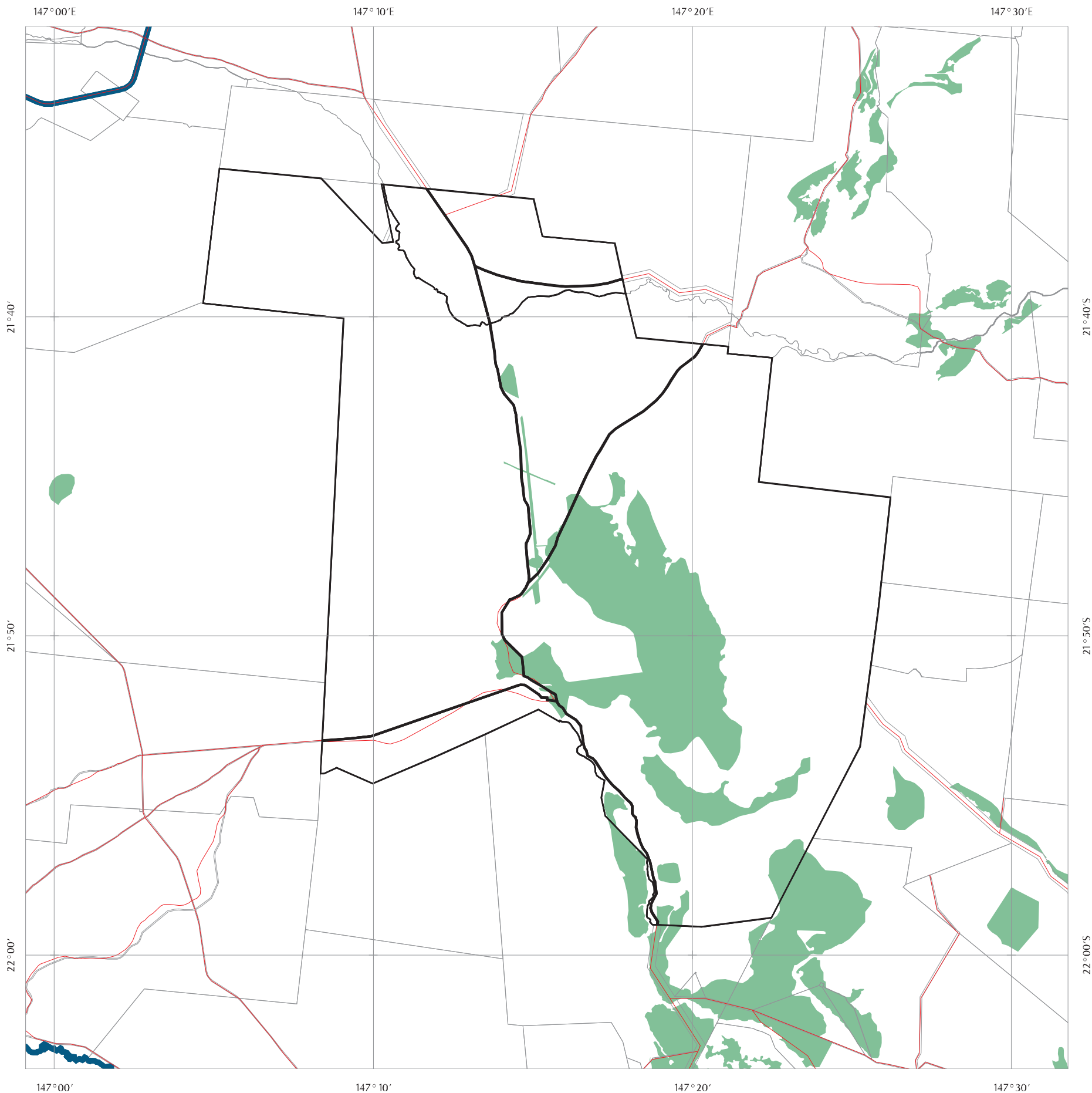
Lambing Lagoon 1999 – 2010

Myra 1999 – 2010

Rugby Run 1999 – 2010

Rugby 1999 – 2010

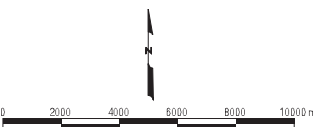
Wentworth 1999 – 2010



STRATEGIC CROPPING LAND TRIGGER MAP

Requested By: DAVID.DOOLAN@GHD.COM
Date: 16 Jul 13 Time: 16.36.56

Centred on Lot on Plan:
10 BL49



This scale bar is approximate only
Horizontal Datum: Geocentric Datum of Australia 1994 (GDA94)
This product is unprojected and is not suitable for measuring distances

This map can be used to identify land that is subject to the
Strategic Cropping Land Act 2011.

The location of potential strategic cropping land (SCL) was prepared using Class A Agricultural Land and Versatile Cropping Land data and 1999 Queensland Land Use Mapping Program (QLUMP) data identified as production from agriculture or plantations. Land is excluded as potential SCL where it is remnant vegetation, or is in a national park, state forest, timber reserve or forest reserve. Land is excluded as potential SCL where it is within the urban footprints for Far North Queensland or South East Queensland, or is in a collection of small cadastral parcels. The extent of potential SCL is limited to those areas within the five SCL zones.

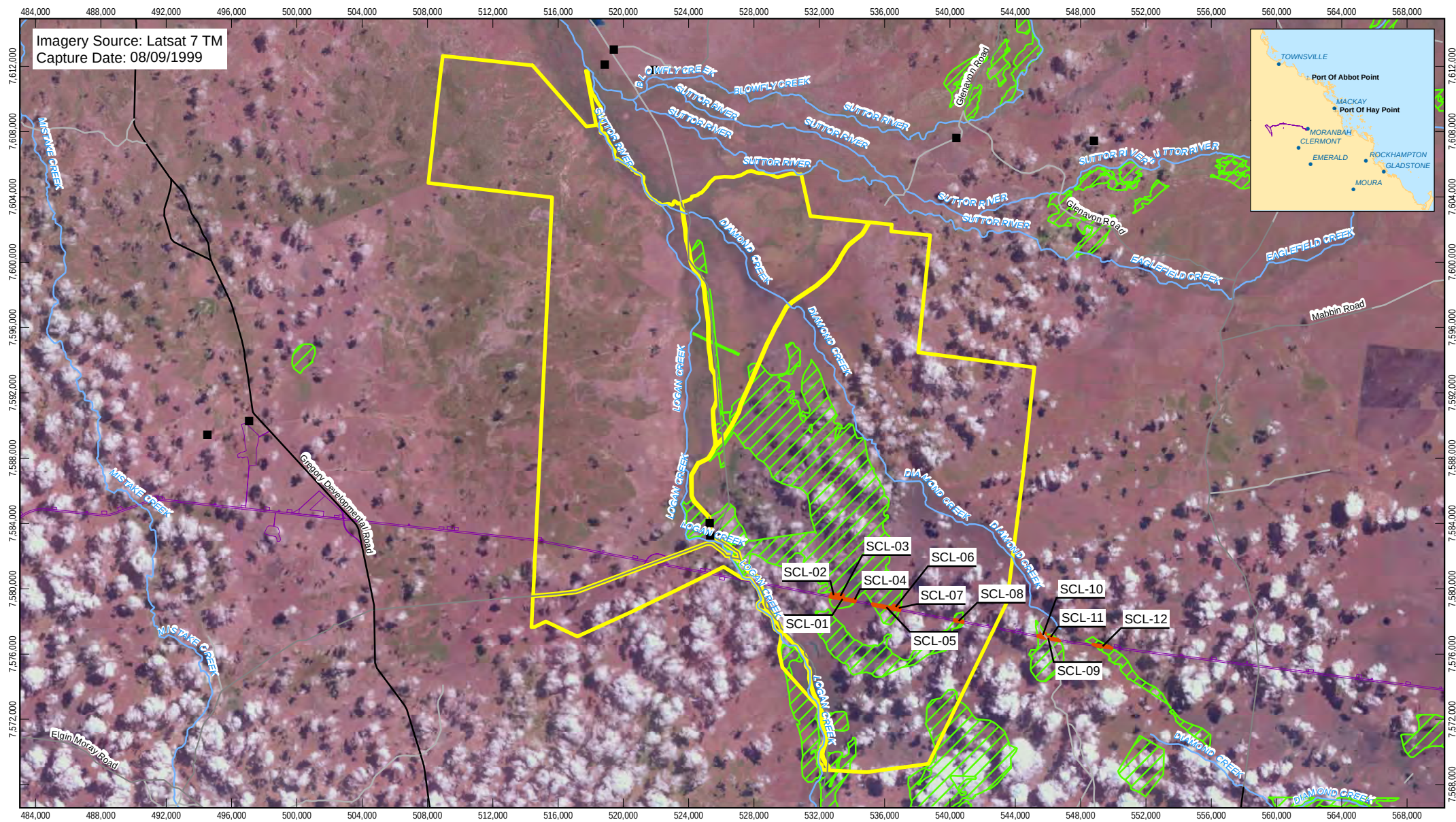
The map shows land that has been validated as SCL or decided non-SCL under the *Strategic Cropping Land Act 2011*. It also indicates areas that are currently subject to a validation application, and where a zonal criteria or cropping history decision has been made but further assessment is required to validate the land as SCL or decided non-SCL.

For further information on the strategic cropping land policy or the specific assessment requirements of land under the strategic cropping land policy, go to the website:
www.dnrm.qld.gov.au

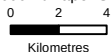
Digital GIS data and full metadata can be obtained from
<<http://dds.information.qld.gov.au/dds/>>

- Potential strategic cropping land
- Strategic cropping land
- Zonal criteria validated (management area only)
- Cropping history validated (management area only)
- Decided non-strategic cropping land
- Current validation applications
Application reference number(s) shown on map face
- Protection area boundary
- Zone boundary
- Subject lot
- Roads
© Pitney Bowes Software 2012
- Cadastral line
Lot on Plan boundaries shown are provided as a locational aid only.
- Towns

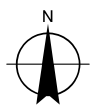
This Lot on Plan is located in:
(1) MANAGEMENT AREA
(2) WESTERN CROPPING ZONE
(3) CENTRAL HIGHLANDS ISAAC MITIGATION SUB-ZONE



1:315,000 At Paper Size A4



Map Projection: Universal Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 55



LEGEND

- Homesteads
- Main Road
- Secondary Road
- Local Road
- Railway
- Watercourse (Major)
- SCL Footprint
- Property Boundary - Affected
- Project (Rail)
- Strategic Cropping Land



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Carmichael Coal Mine and Rail Project SEIS
**Strategic Cropping Land
Assessment - Avon Downs 1999**

Job Number 41-26422
Revision A
Date 10-07-2013

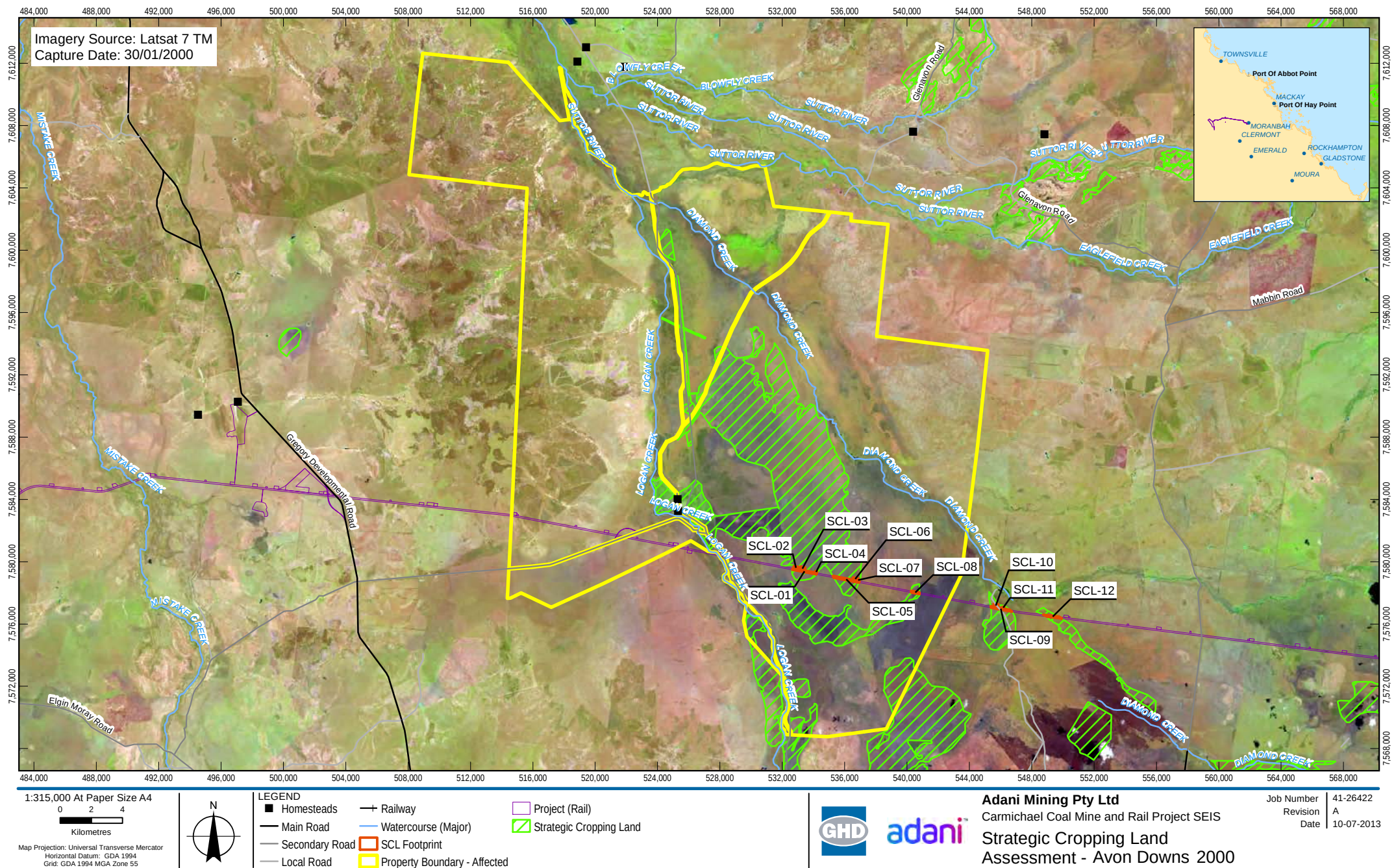
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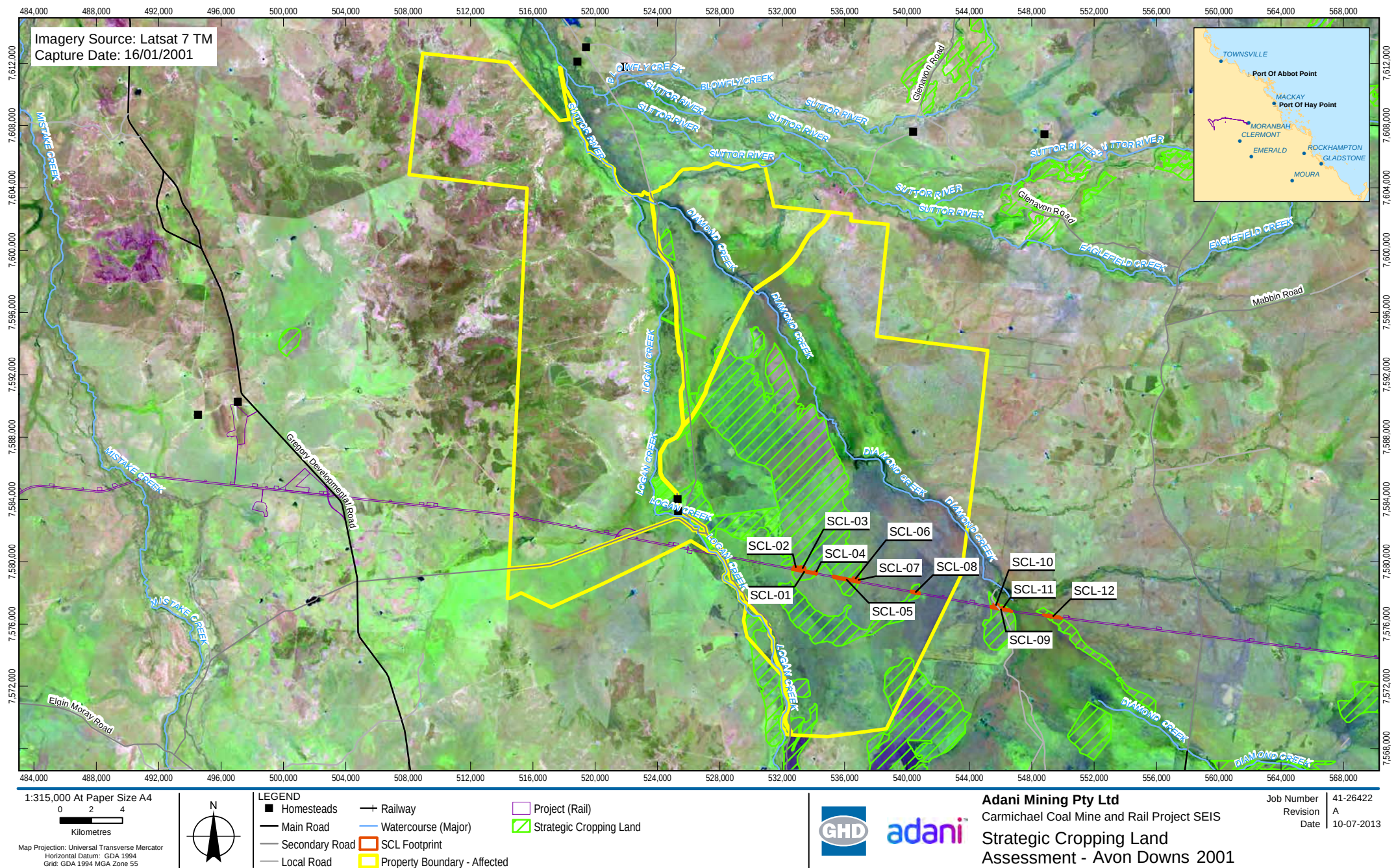
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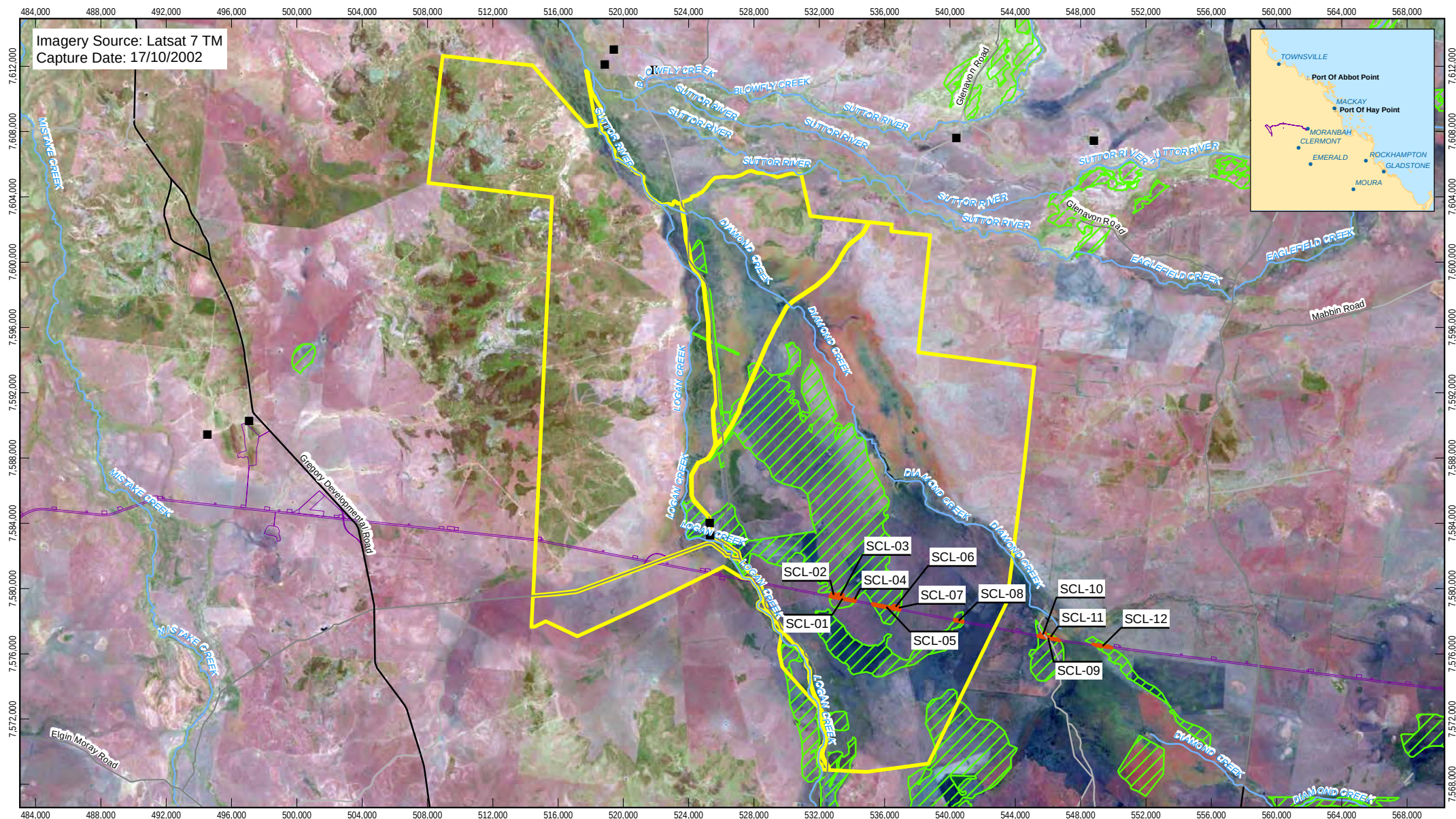
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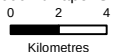
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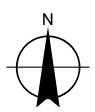
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Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 55



LEGEND

- Homesteads
- Main Road
- Secondary Road
- Local Road
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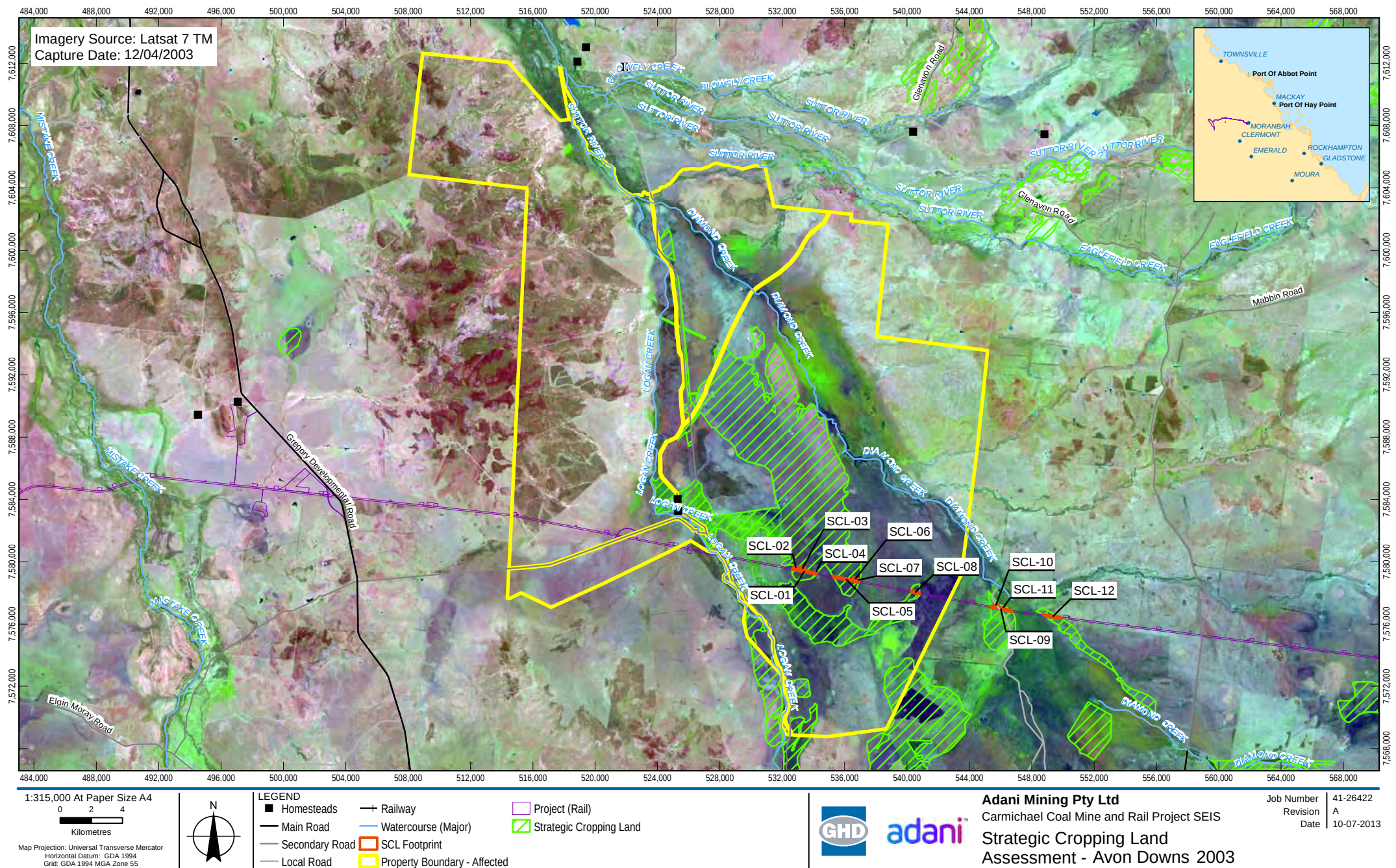
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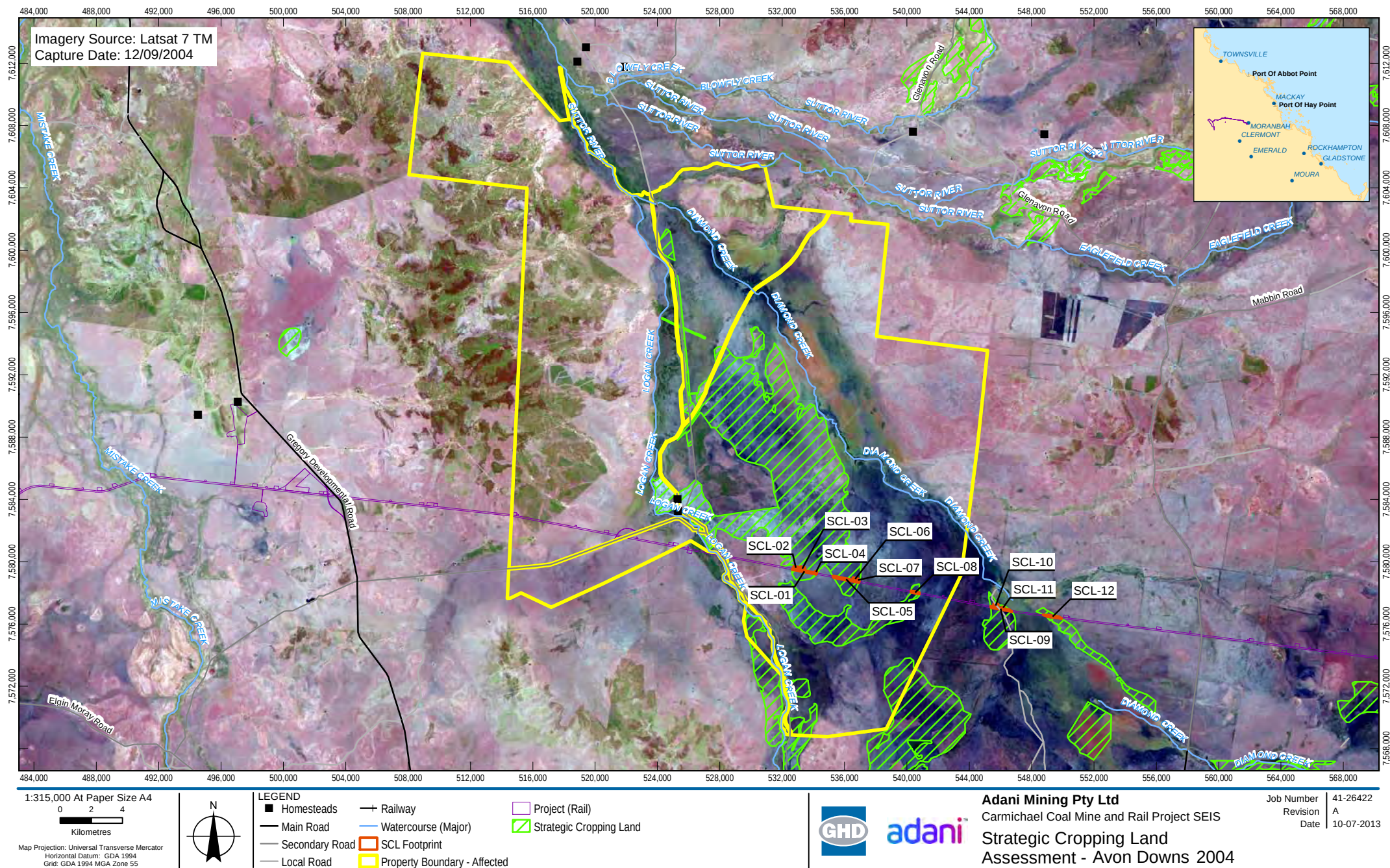
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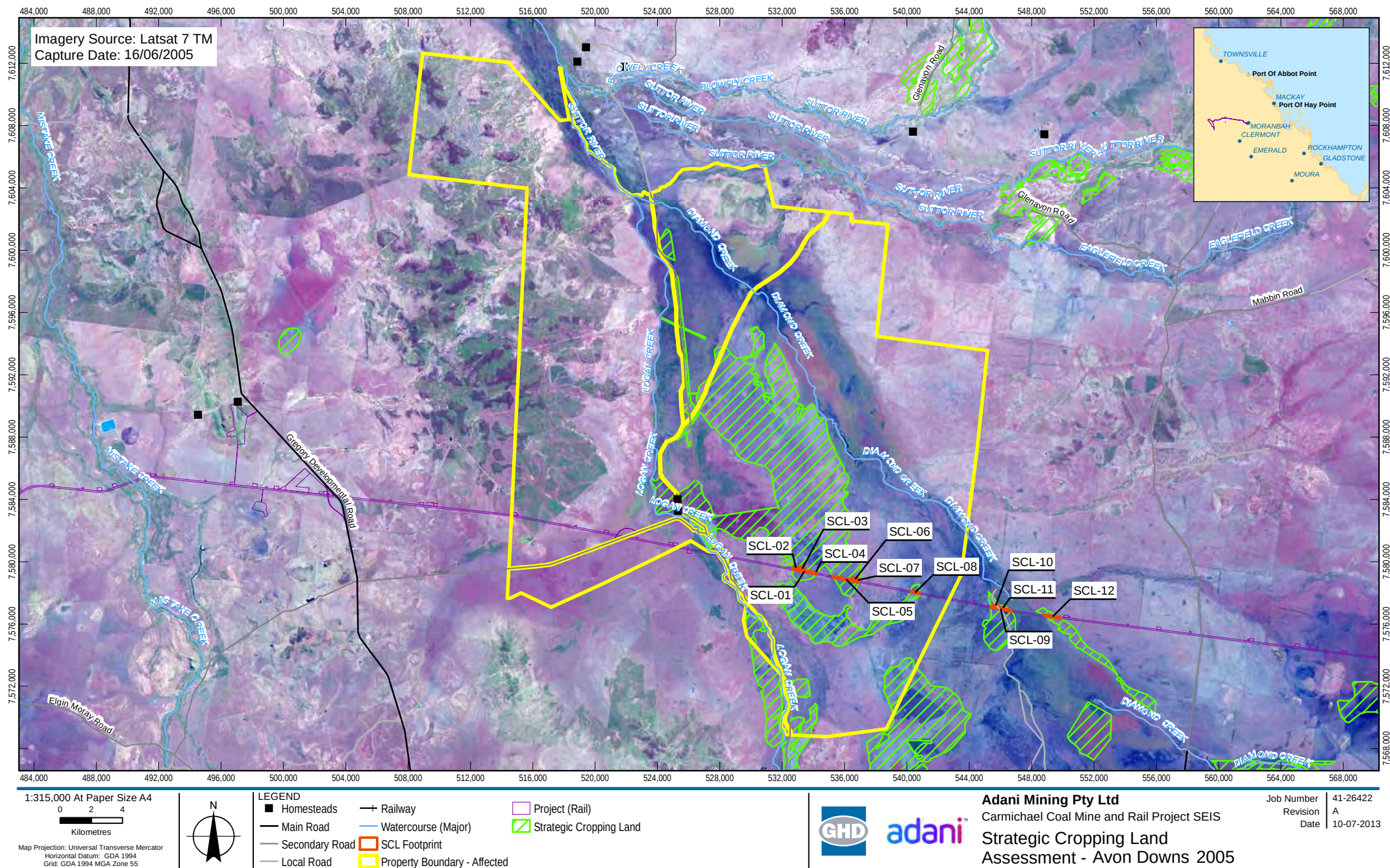
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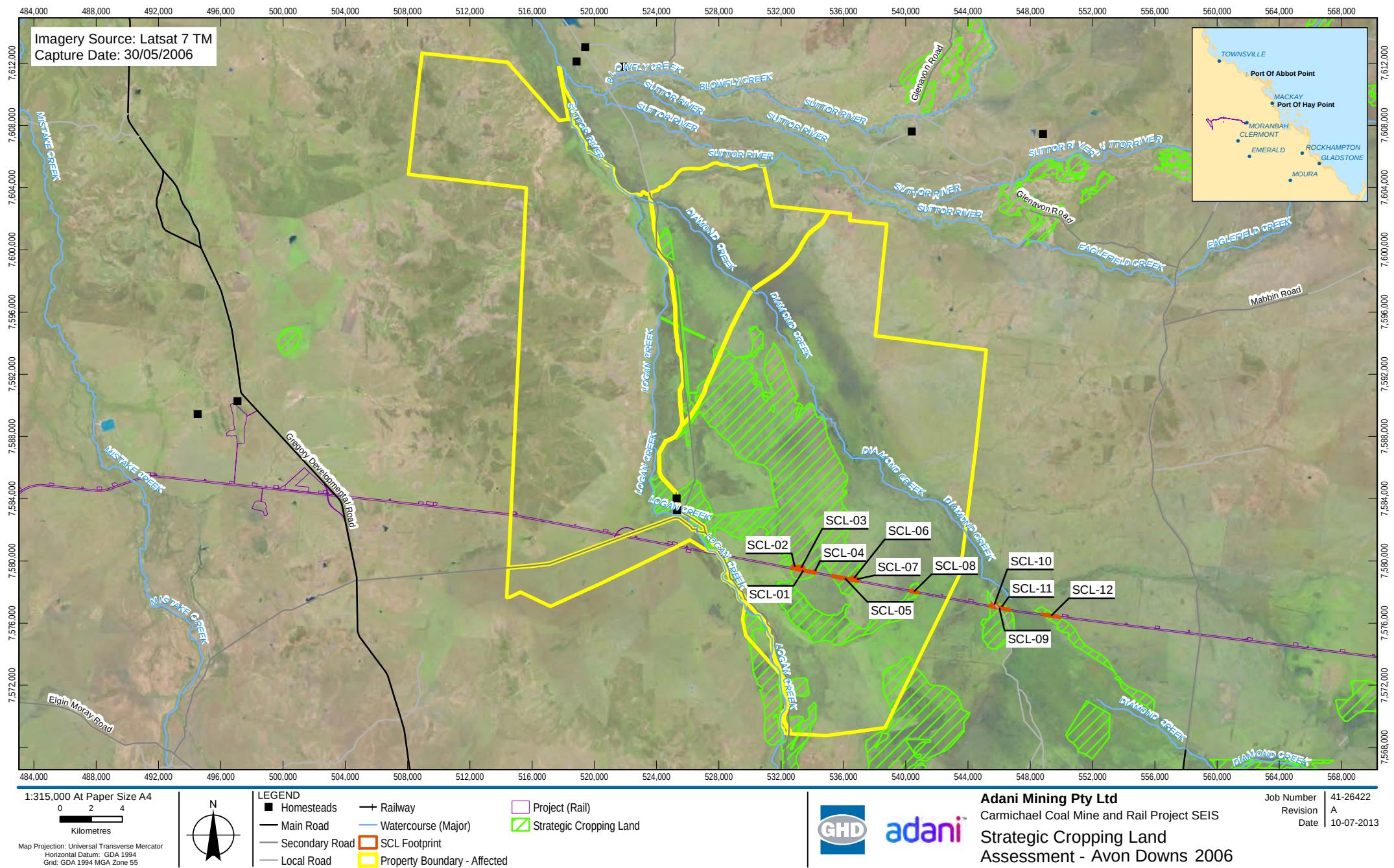


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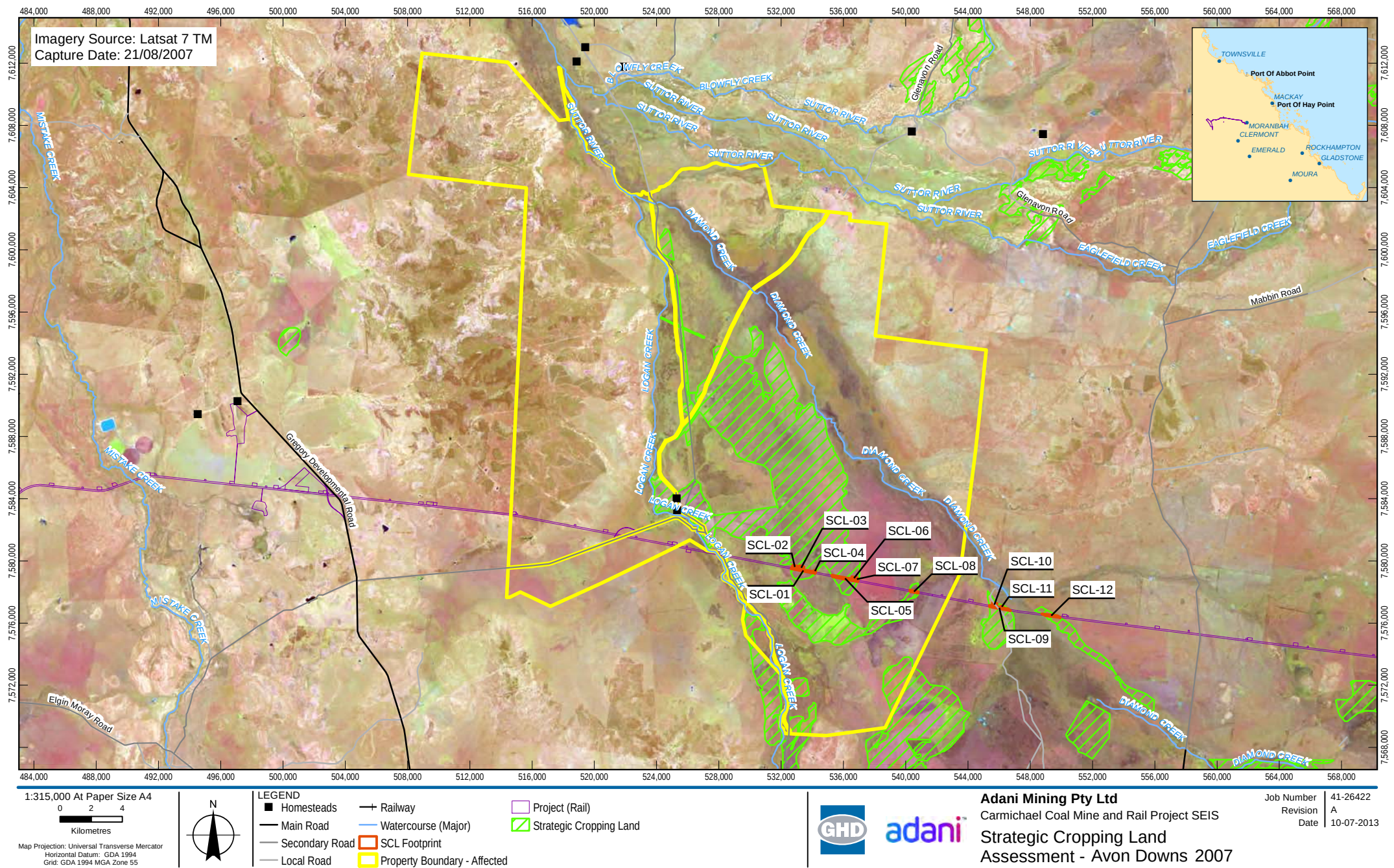
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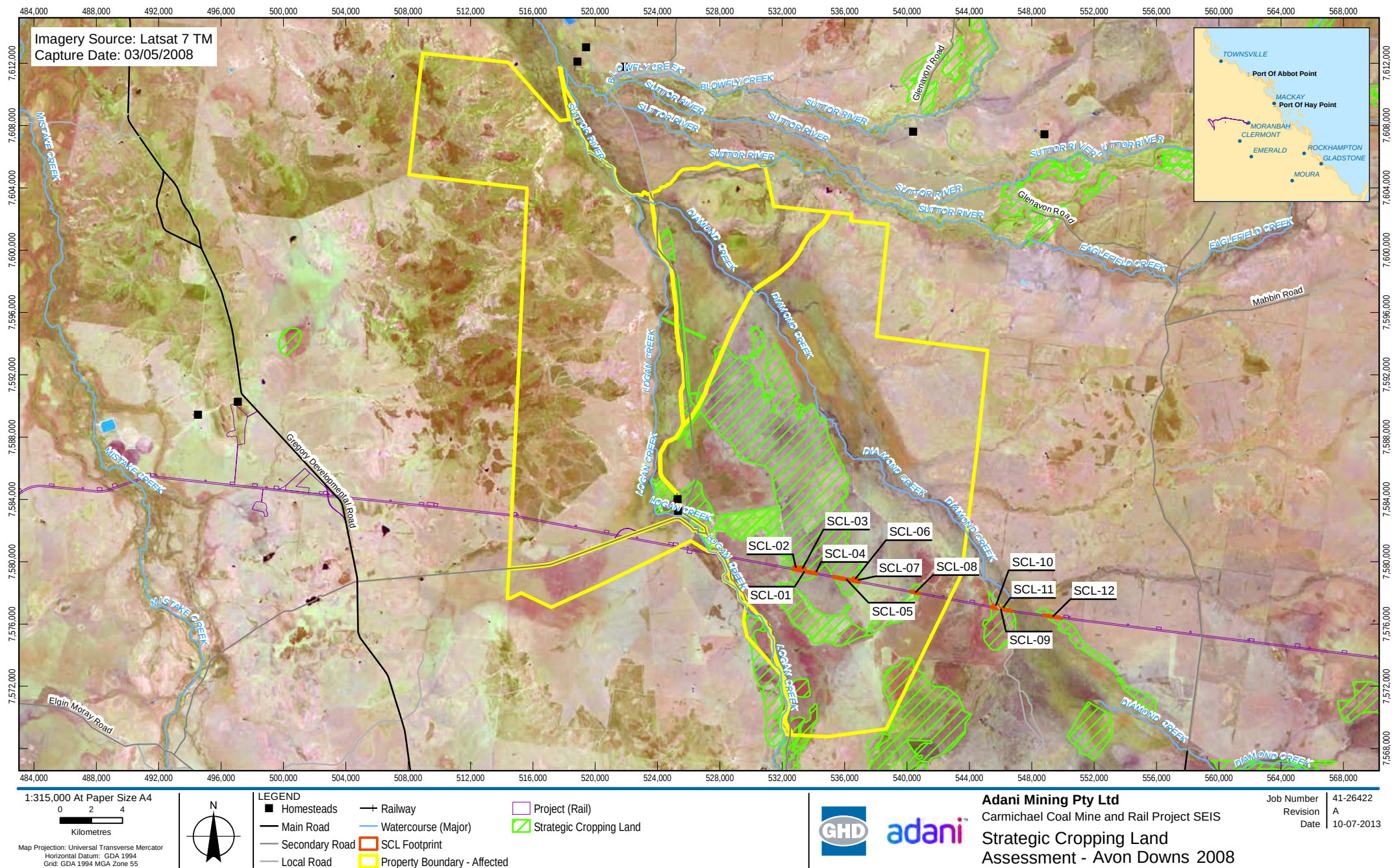
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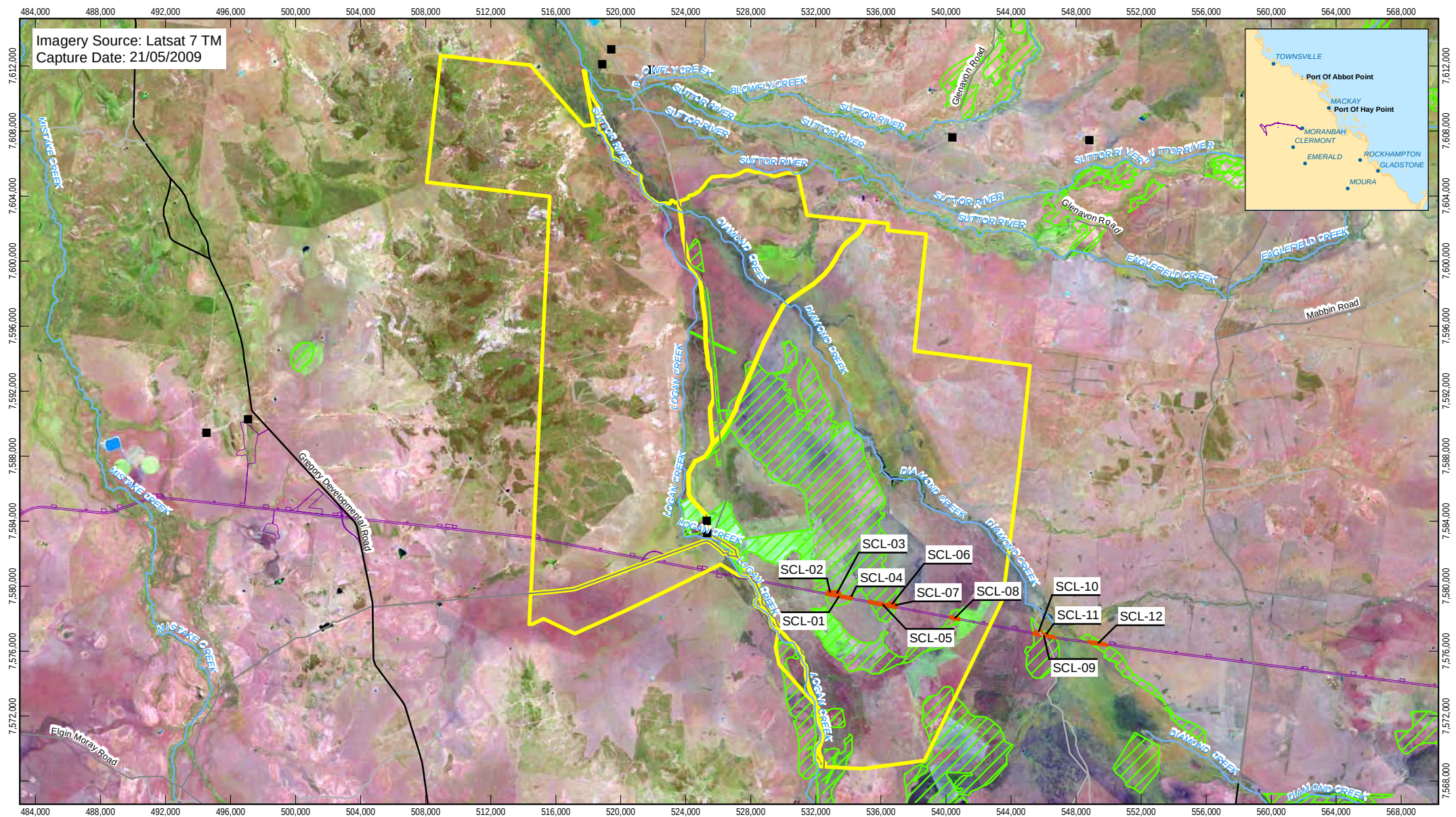
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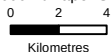
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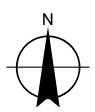
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Horizontal Datum: GDA 1994
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LEGEND

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- Railway
- Watercourse (Major)
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- ▨ Strategic Cropping Land



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**Strategic Cropping Land
Assessment - Avon Downs 2009**

Job Number 41-26422
Revision A
Date 10-07-2013

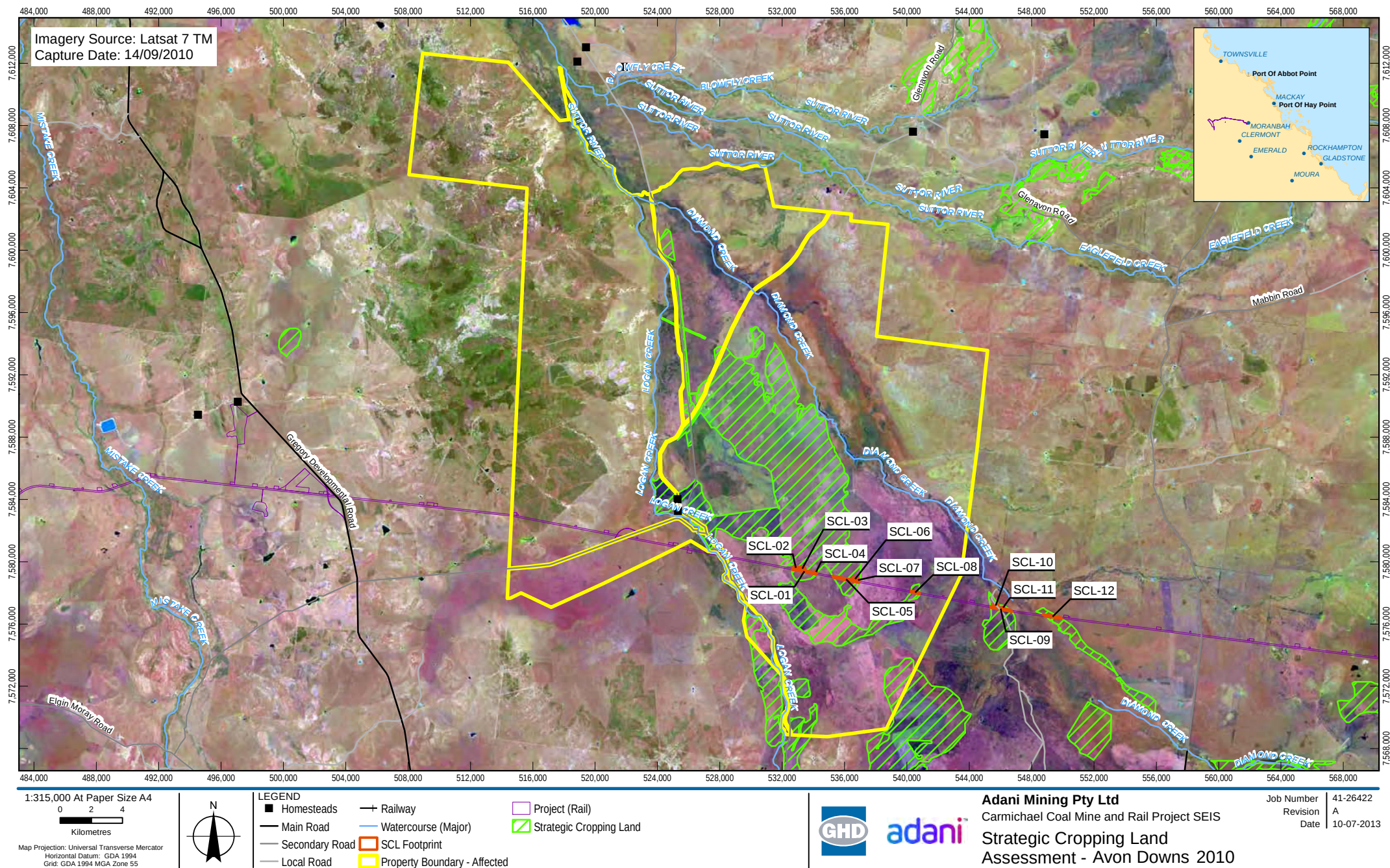
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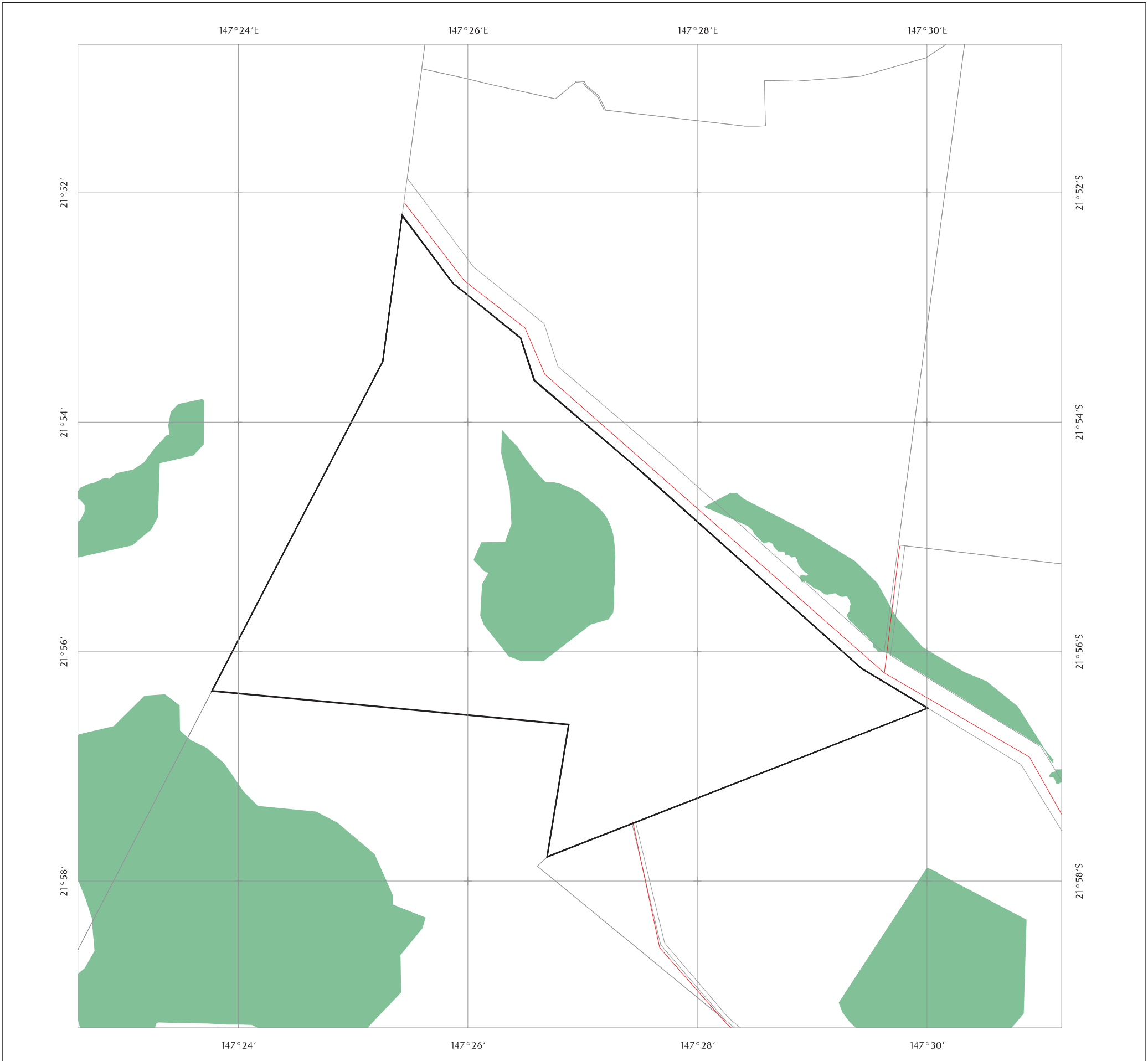


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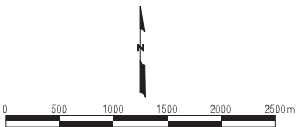
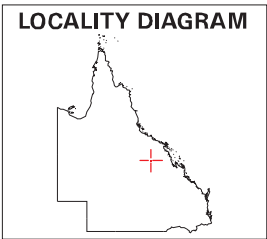


STRATEGIC CROPPING LAND TRIGGER MAP

Requested By: DAVID.DOOLAN@GHD.COM
Date: 16 Jul 13 Time: 16.37.21

Centred on Lot on Plan:
6 SP125740

- Potential strategic cropping land
- Strategic cropping land
- Zonal criteria validated (management area only)
- Cropping history validated (management area only)
- Decided non-strategic cropping land
- Current validation applications
Application reference number(s) shown on map face
- Protection area boundary
- Zone boundary
- Subject lot
- Roads
© Pitney Bowes Software 2012
- Cadastral line
Lot on Plan boundaries shown are provided as a locational aid only.
- Towns



This map can be used to identify land that is subject to the *Strategic Cropping Land Act 2011*.

The location of potential strategic cropping land (SCL) was prepared using Class A Agricultural Land and Versatile Cropping Land data and 1999 Queensland Land Use Mapping Program (QLUMP) data identified as production from agriculture or plantations. Land is excluded as potential SCL where it is remnant vegetation, or is in a national park, state forest, timber reserve or forest reserve. Land is excluded as potential SCL where it is within the urban footprints for Far North Queensland or South East Queensland, or is in a collection of small cadastral parcels. The extent of potential SCL is limited to those areas within the five SCL zones.

The map shows land that has been validated as SCL or decided non-SCL under the *Strategic Cropping Land Act 2011*. It also indicates areas that are currently subject to a validation application, and where a zonal criteria or cropping history decision has been made but further assessment is required to validate the land as SCL or decided non-SCL.

For further information on the strategic cropping land policy or the specific assessment requirements of land under the strategic cropping land policy, go to the website:
www.dnrm.qld.gov.au

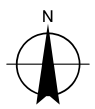
Digital GIS data and full metadata can be obtained from
<<http://dds.information.qld.gov.au/dds/>>

This Lot on Plan is located in:
(1) MANAGEMENT AREA
(2) WESTERN CROPPING ZONE
(3) CENTRAL HIGHLANDS ISAAC MITIGATION SUB-ZONE

This scale bar is approximate only
Horizontal Datum: Geocentric Datum of Australia 1994 (GDA94)
This product is unprojected and is not suitable for measuring distances



1:150,000 At Paper Size A4
0 2 4
Kilometres
Map Projection: Universal Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 55



LEGEND
■ Homesteads
— Main Road
— Secondary Road
— Local Road
— Railway
— Watercourse (Major)
— SCL Footprint
— Property Boundary - Affected
□ Project (Rail)
▨ Strategic Cropping Land



adani

Adani Mining Pty Ltd
Carmichael Coal Mine and Rail Project SEIS
Strategic Cropping Land
Assessment - Lambing Lagoon 1999

Job Number 41-26422
Revision A
Date 10-07-2013

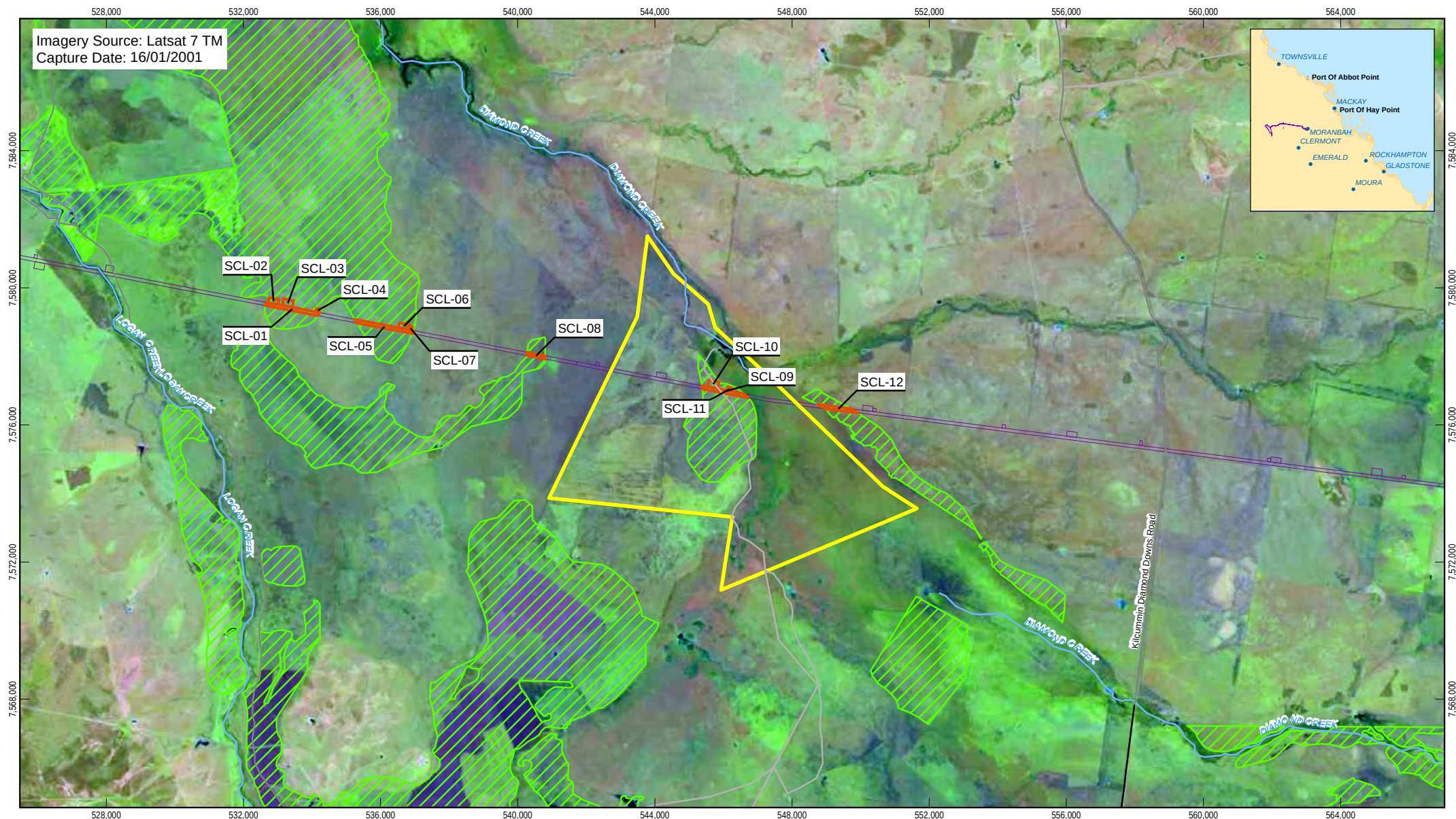
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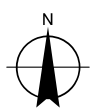
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1:150,000 At Paper Size A4
0 2 4
Kilometres
Map Projection: Universal Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 55



LEGEND
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— Railway
— Watercourse (Major)
— SCL Footprint
— Property Boundary - Affected
□ Project (Rail)
▨ Strategic Cropping Land



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Adani Mining Pty Ltd
Carmichael Coal Mine and Rail Project SEIS
Strategic Cropping Land
Assessment - Laming Lagoon 2001

Job Number 41-26422
Revision A
Date 10-07-2013

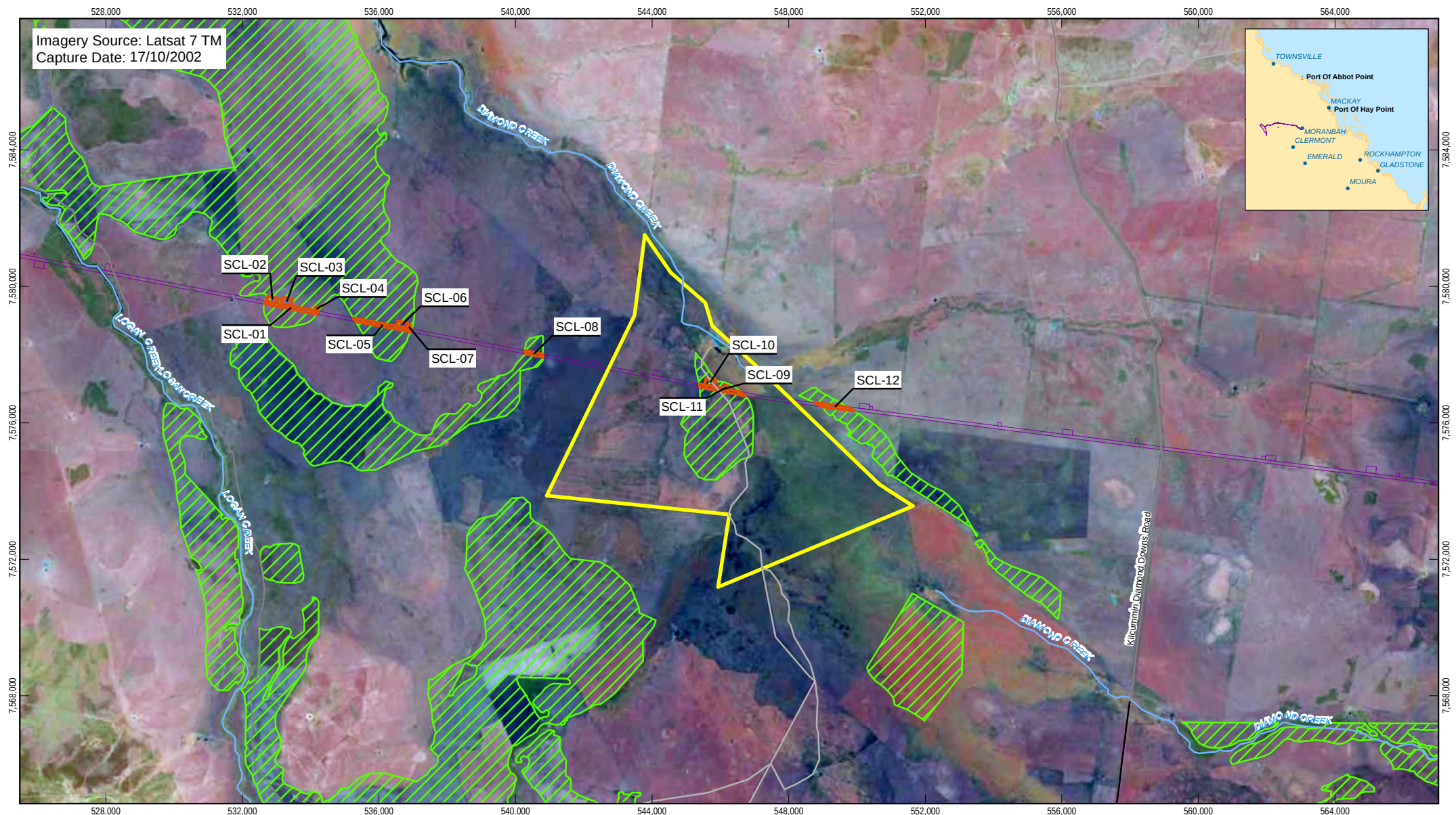
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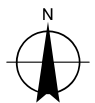
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Kilometres
Map Projection: Universal Transverse Mercator
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Grid: GDA 1994 MGA Zone 55



LEGEND
■ Homesteads
— Main Road
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— Local Road
— Railway
— Watercourse (Major)
— SCL Footprint
— Property Boundary - Affected
□ Project (Rail)
▨ Strategic Cropping Land



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Adani Mining Pty Ltd
Carmichael Coal Mine and Rail Project SEIS
**Strategic Cropping Land
Assessment - Laming Lagoon 2002**

Job Number 41-26422
Revision A
Date 10-07-2013

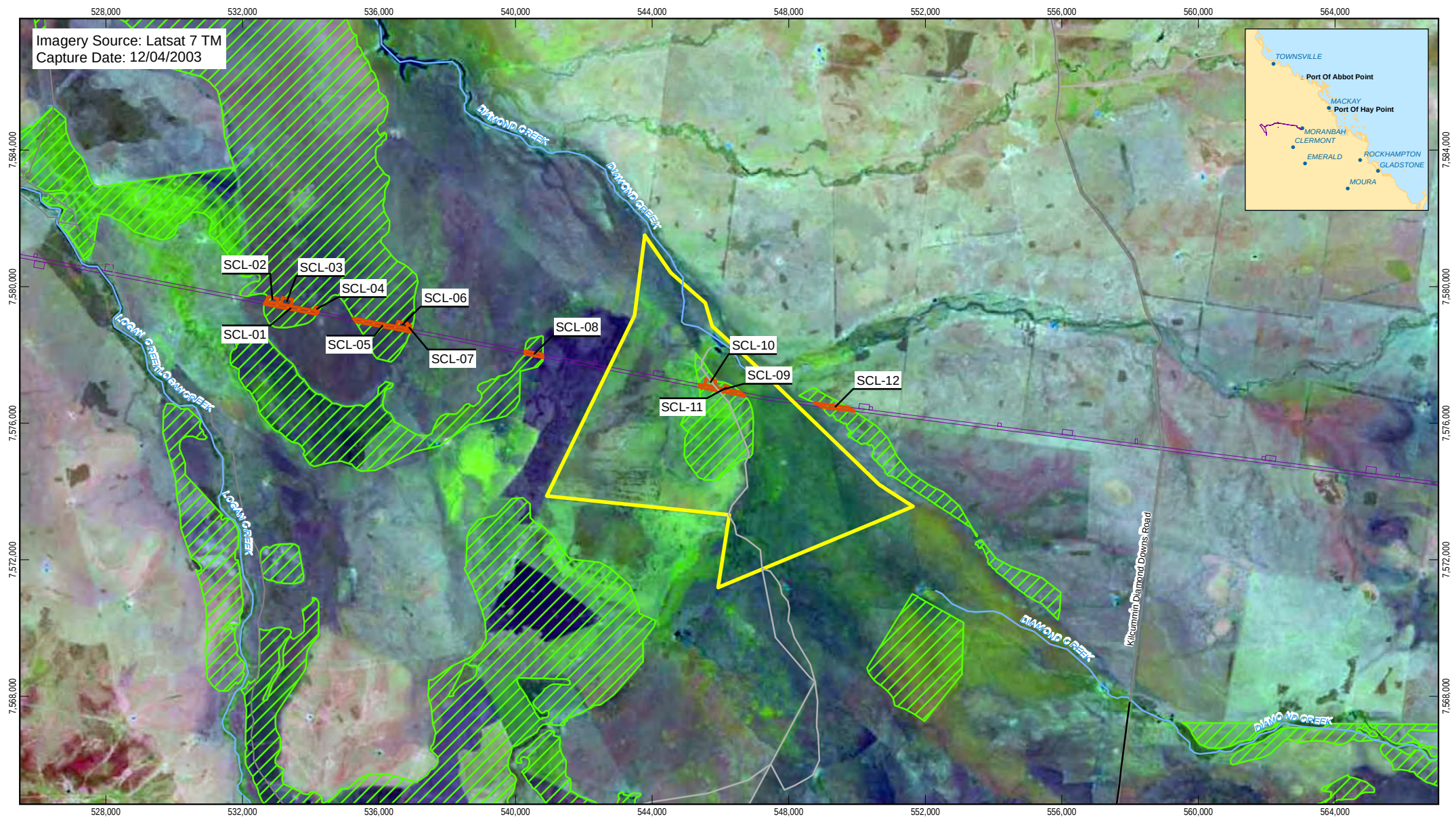
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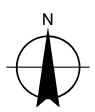
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Kilometres
Map Projection: Universal Transverse Mercator
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LEGEND
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— Main Road
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□ Project (Rail)
▨ Strategic Cropping Land



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Carmichael Coal Mine and Rail Project SEIS
**Strategic Cropping Land
Assessment - Laming Lagoon 2003**

Job Number 41-26422
Revision A
Date 10-07-2013

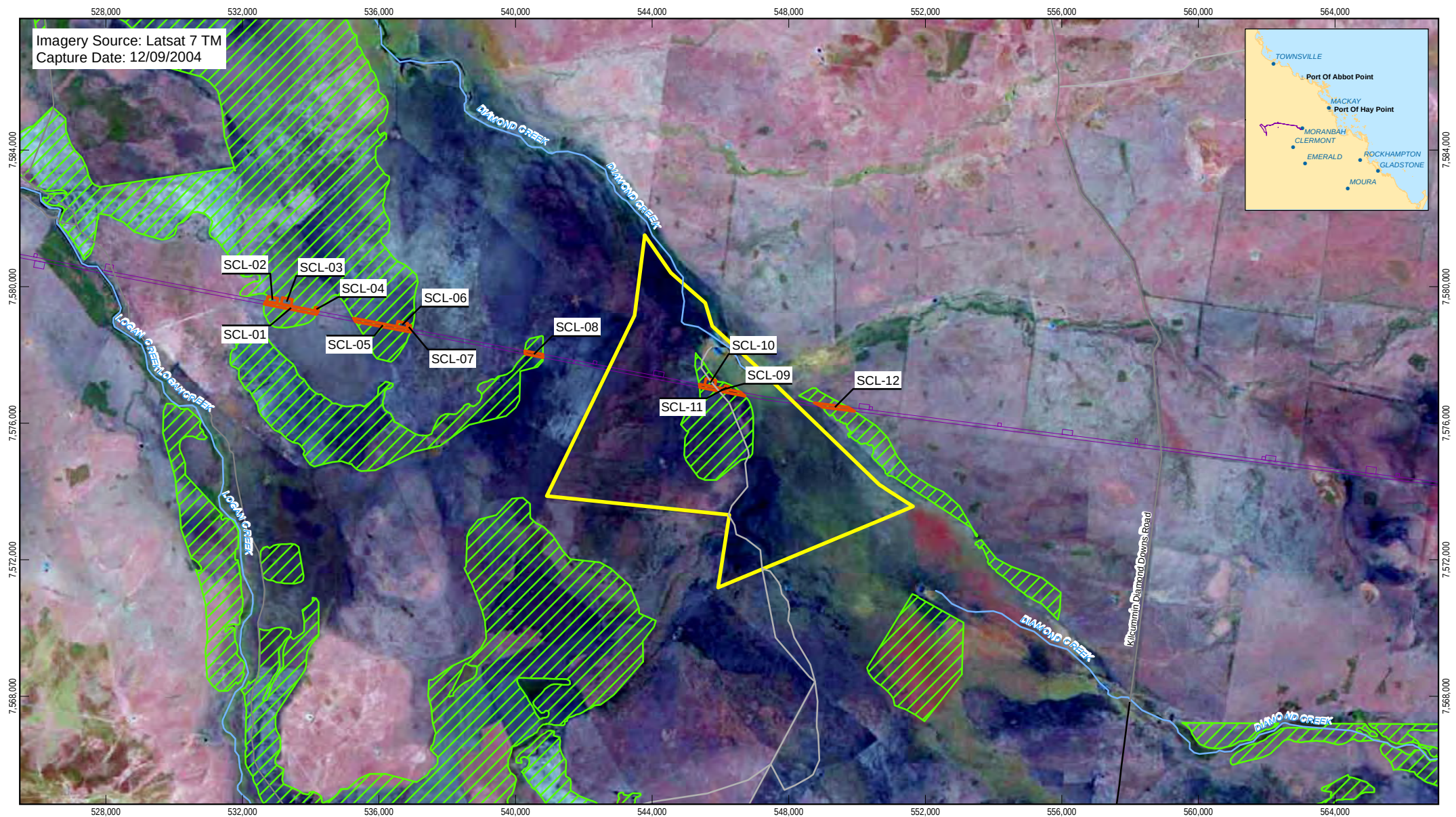
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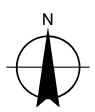
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Kilometres
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Grid: GDA 1994 MGA Zone 55



LEGEND
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Carmichael Coal Mine and Rail Project SEIS
**Strategic Cropping Land
Assessment - Laming Lagoon 2004**

Job Number 41-26422
Revision A
Date 10-07-2013

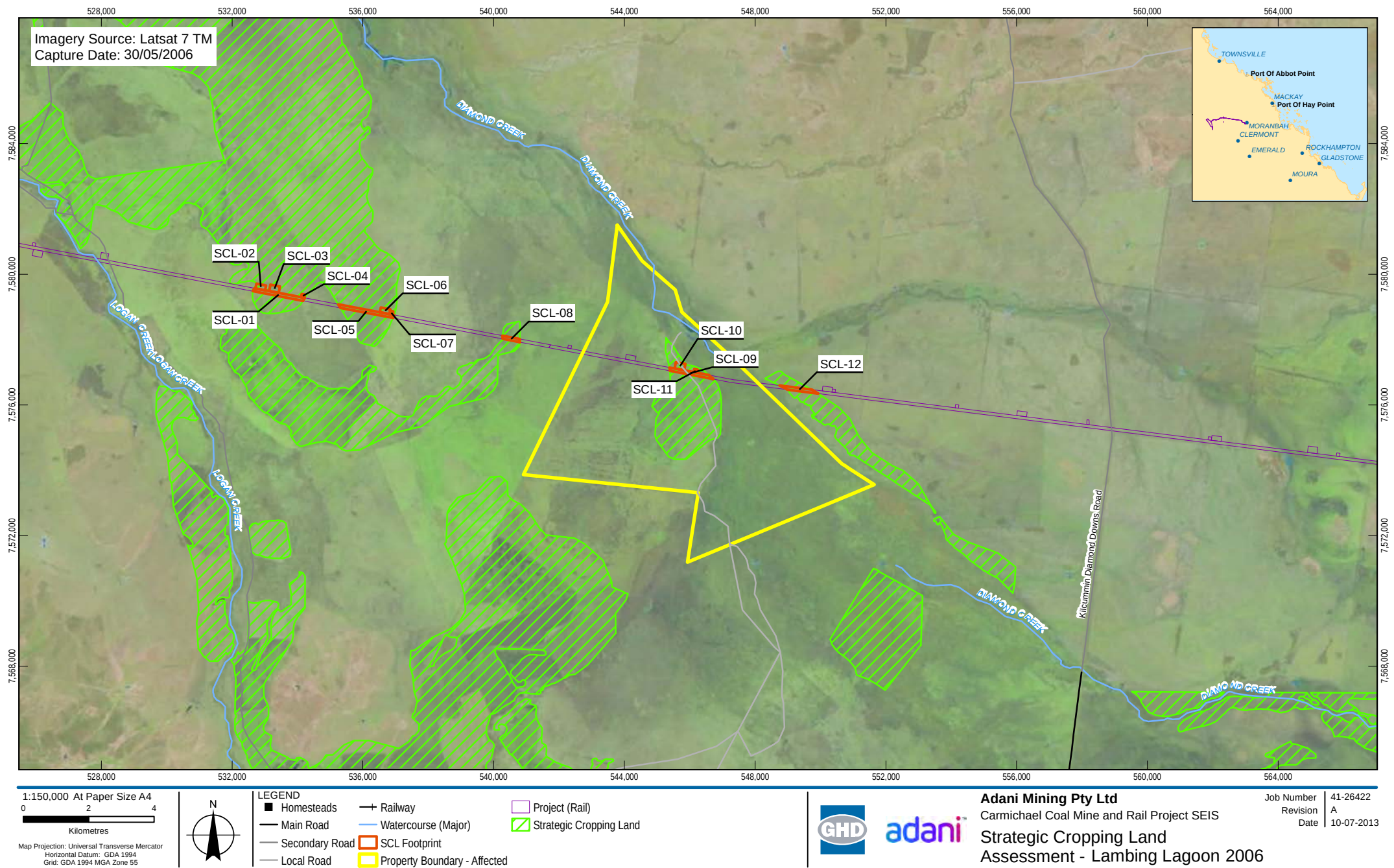
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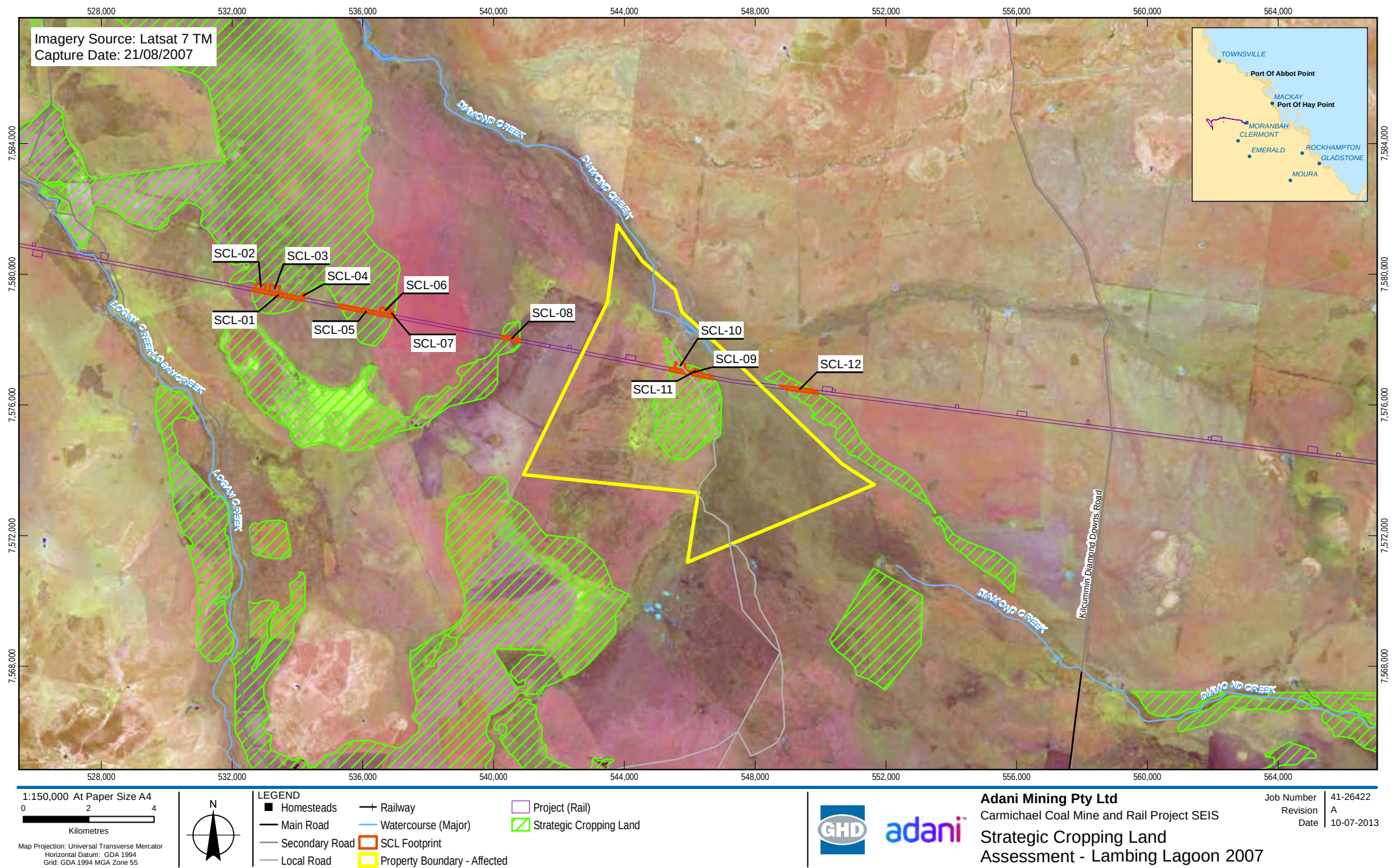
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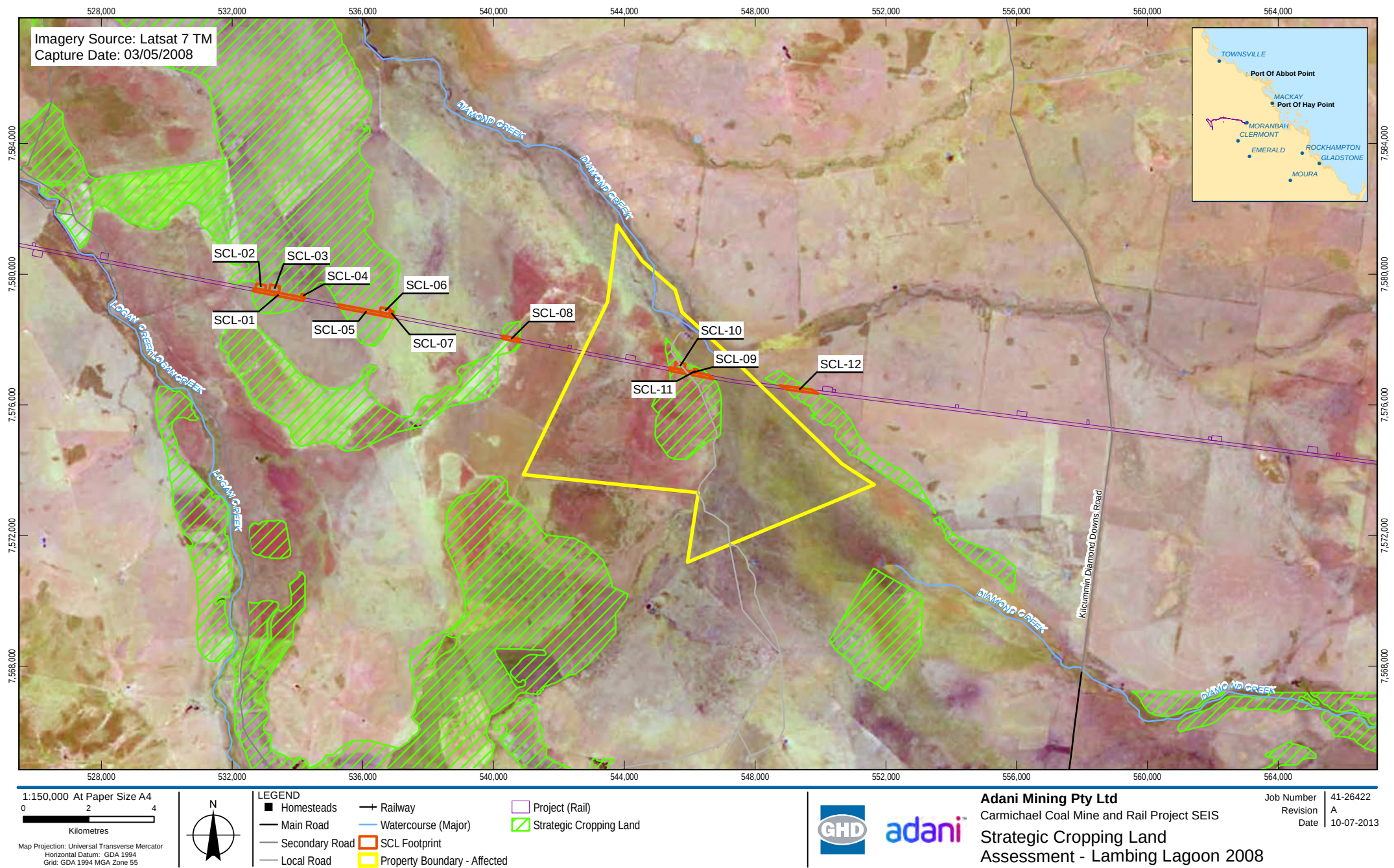
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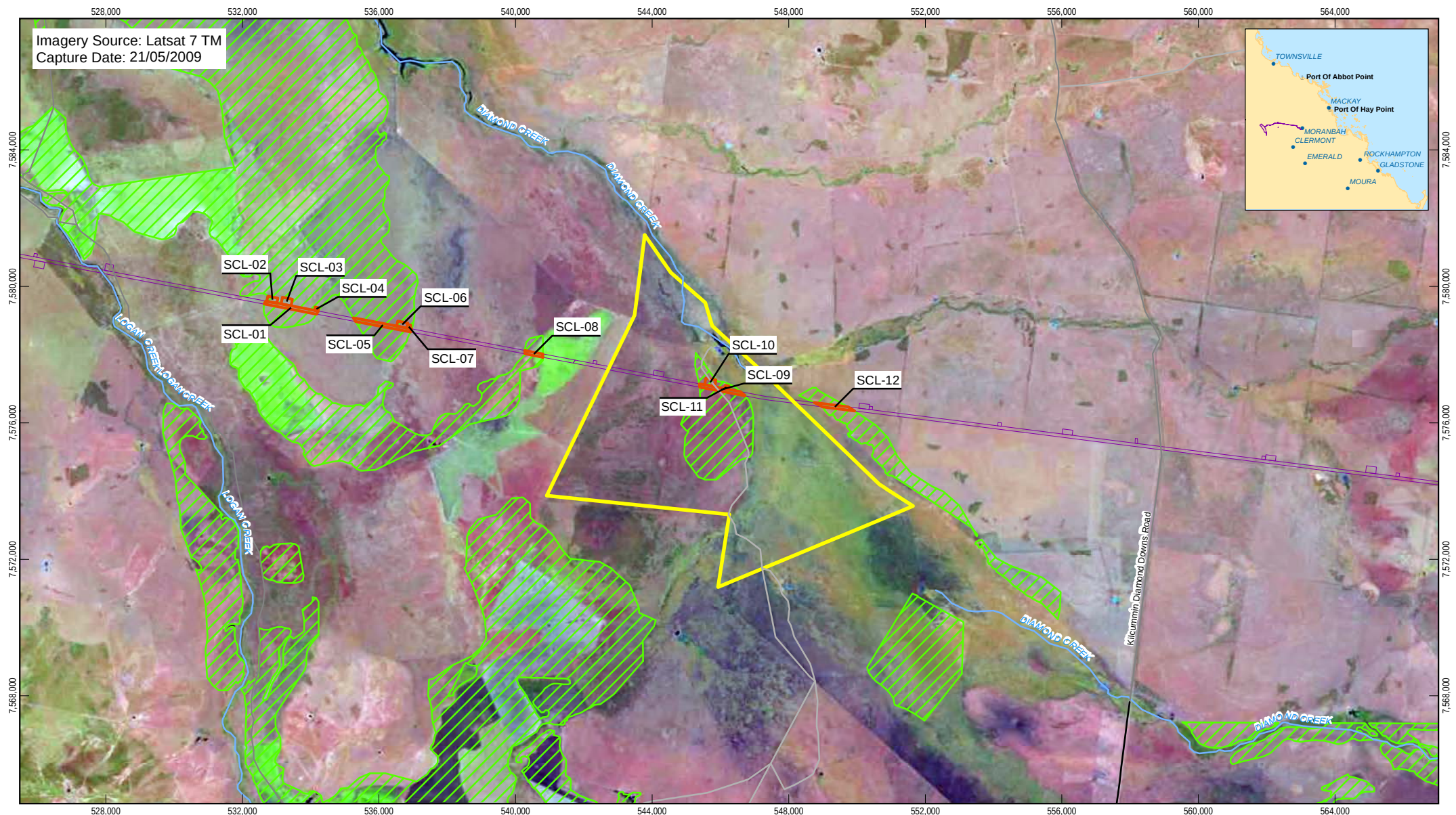
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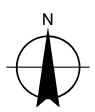
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1:150,000 At Paper Size A4
0 2 4
Kilometres
Map Projection: Universal Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 55



LEGEND
■ Homesteads
— Main Road
— Secondary Road
— Local Road
— Railway
— Watercourse (Major)
— SCL Footprint
— Property Boundary - Affected
□ Project (Rail)
▨ Strategic Cropping Land



adani

Adani Mining Pty Ltd
Carmichael Coal Mine and Rail Project SEIS
**Strategic Cropping Land
Assessment - Lambing Lagoon 2009**

Job Number 41-26422
Revision A
Date 10-07-2013

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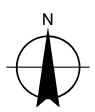
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Adani Mining Pty Ltd
Carmichael Coal Mine and Rail Project SEIS
**Strategic Cropping Land
Assessment - Lambing Lagoon 2010**

Job Number 41-26422
Revision A
Date 10-07-2013

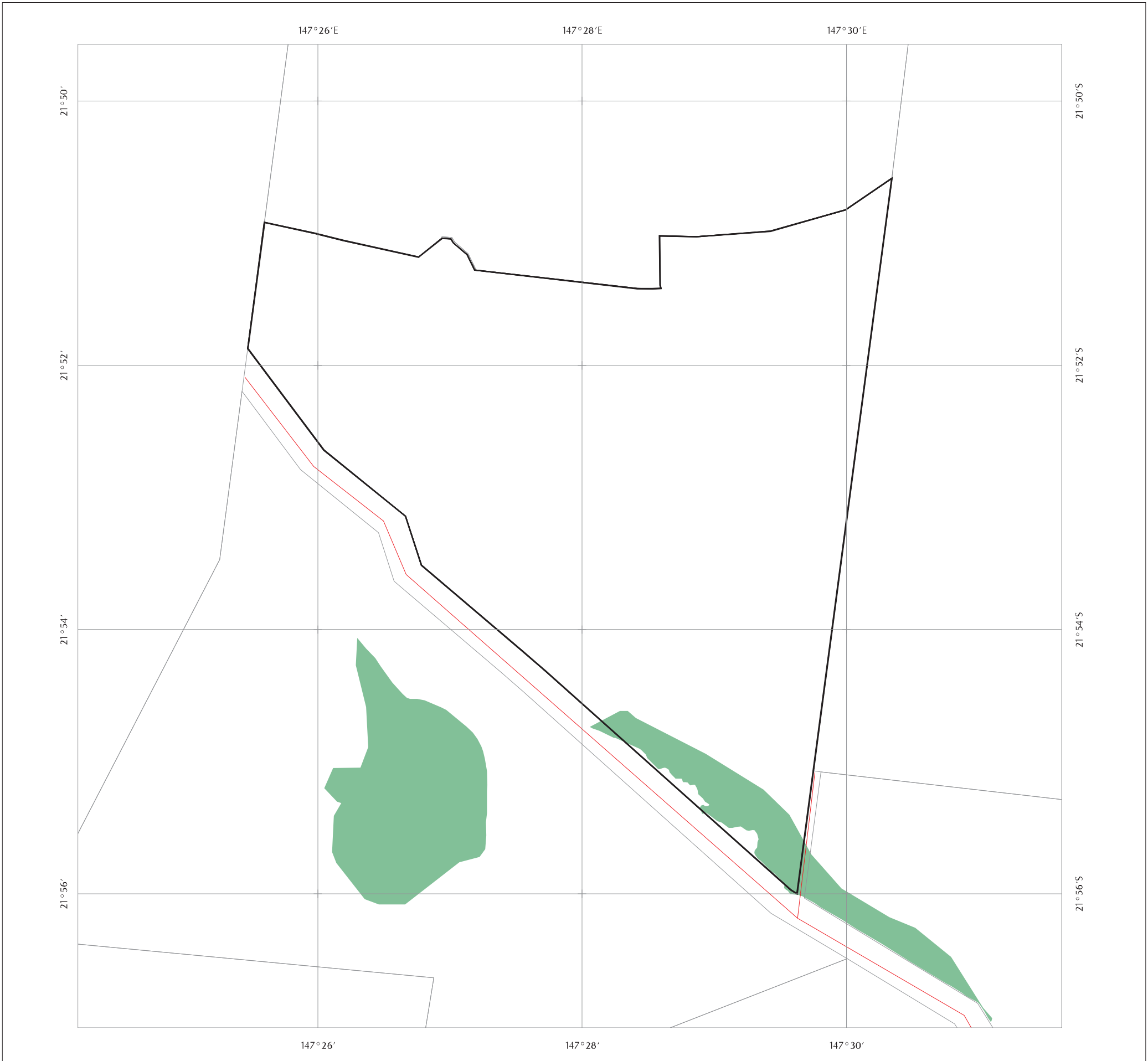
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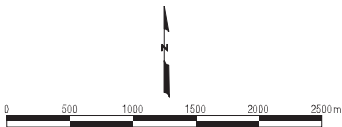
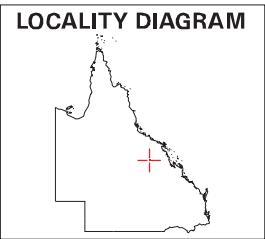


STRATEGIC CROPPING LAND TRIGGER MAP

Requested By: DAVID.DOOLAN@GHD.COM
Date: 16 Jul 13 Time: 16.37.38

Centred on Lot on Plan:
5 SP125740

- Potential strategic cropping land
- Strategic cropping land
- Zonal criteria validated (management area only)
- Cropping history validated (management area only)
- Decided non-strategic cropping land
- Current validation applications
Application reference number(s) shown on map face
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- Roads
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- Cadastral line
Lot on Plan boundaries shown are provided as a locational aid only.
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This scale bar is approximate only
Horizontal Datum: Geocentric Datum of Australia 1994 (GDA94)
This product is unprojected and is not suitable for measuring distances

This map can be used to identify land that is subject to the *Strategic Cropping Land Act 2011*.

The location of potential strategic cropping land (SCL) was prepared using Class A Agricultural Land and Versatile Cropping Land data and 1999 Queensland Land Use Mapping Program (QLUMP) data identified as production from agriculture or plantations. Land is excluded as potential SCL where it is remnant vegetation, or is in a national park, state forest, timber reserve or forest reserve. Land is excluded as potential SCL where it is within the urban footprints for Far North Queensland or South East Queensland, or is in a collection of small cadastral parcels. The extent of potential SCL is limited to those areas within the five SCL zones.

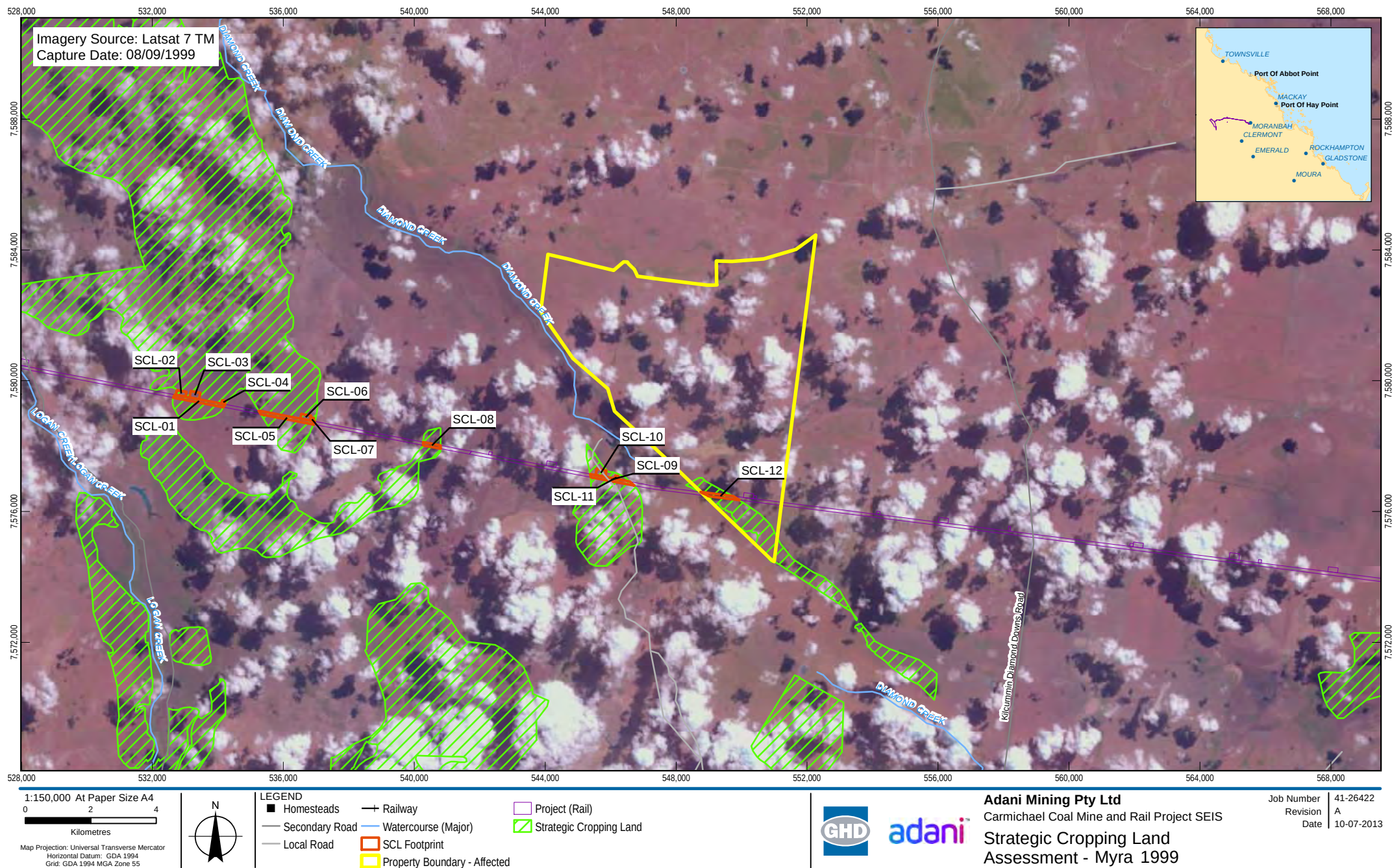
The map shows land that has been validated as SCL or decided non-SCL under the *Strategic Cropping Land Act 2011*. It also indicates areas that are currently subject to a validation application, and where a zonal criteria or cropping history decision has been made but further assessment is required to validate the land as SCL or decided non-SCL.

For further information on the strategic cropping land policy or the specific assessment requirements of land under the strategic cropping land policy, go to the website:
www.dnrm.qld.gov.au

Digital GIS data and full metadata can be obtained from
<<http://dds.information.qld.gov.au/dds/>>

This Lot on Plan is located in:

- (1) MANAGEMENT AREA
- (2) WESTERN CROPPING ZONE
- (3) CENTRAL HIGHLANDS ISAAC MITIGATION SUB-ZONE



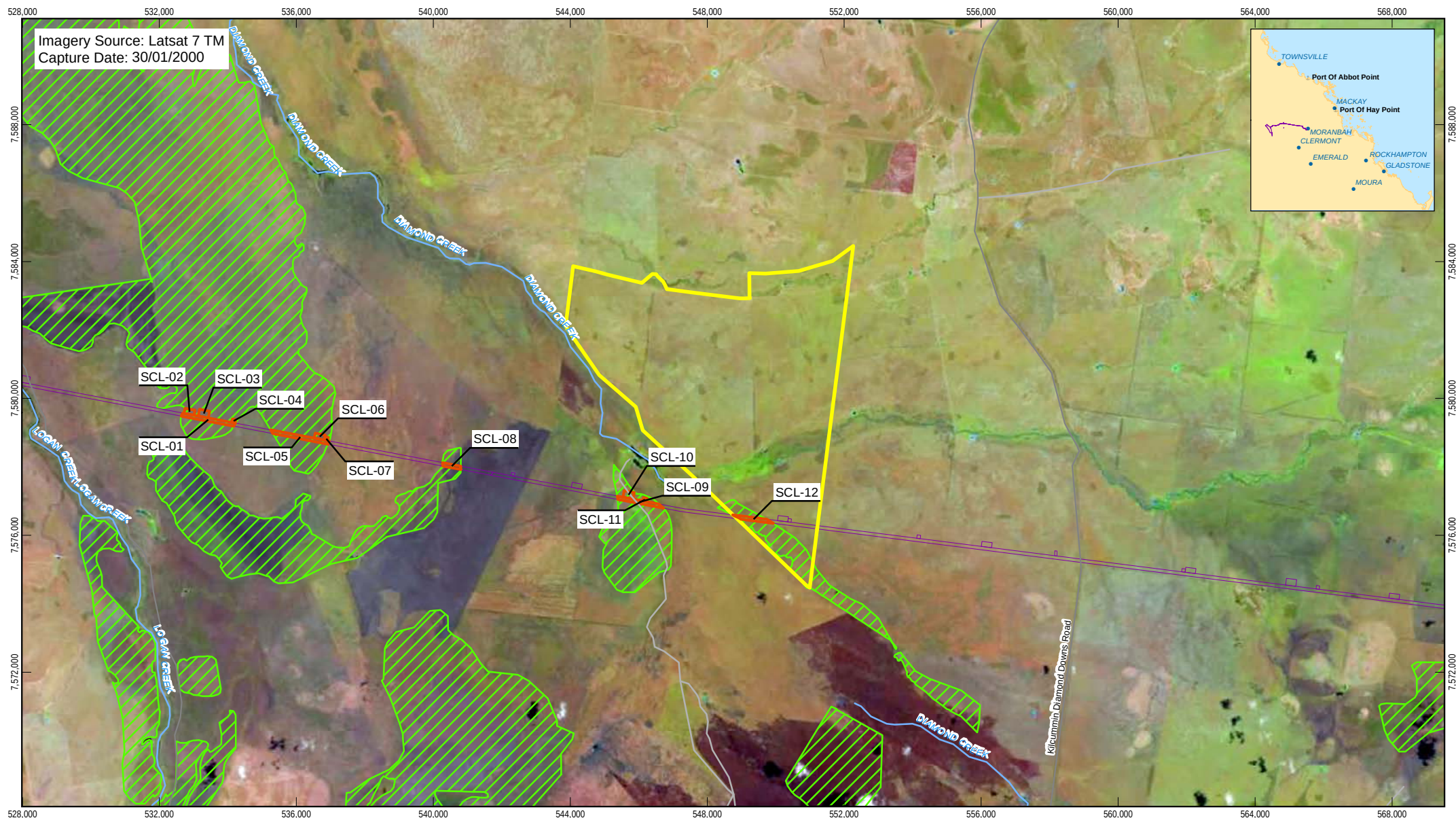
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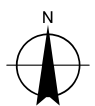
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1:150,000 At Paper Size A4
0 2 4
Kilometres
Map Projection: Universal Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 55



LEGEND
■ Homesteads
— Secondary Road
— Local Road
— Railway
— Watercourse (Major)
— SCL Footprint
— Property Boundary - Affected
□ Project (Rail)
▨ Strategic Cropping Land



adani

Adani Mining Pty Ltd
Carmichael Coal Mine and Rail Project SEIS
**Strategic Cropping Land
Assessment - Myra 2000**

Job Number 41-26422
Revision A
Date 10-07-2013

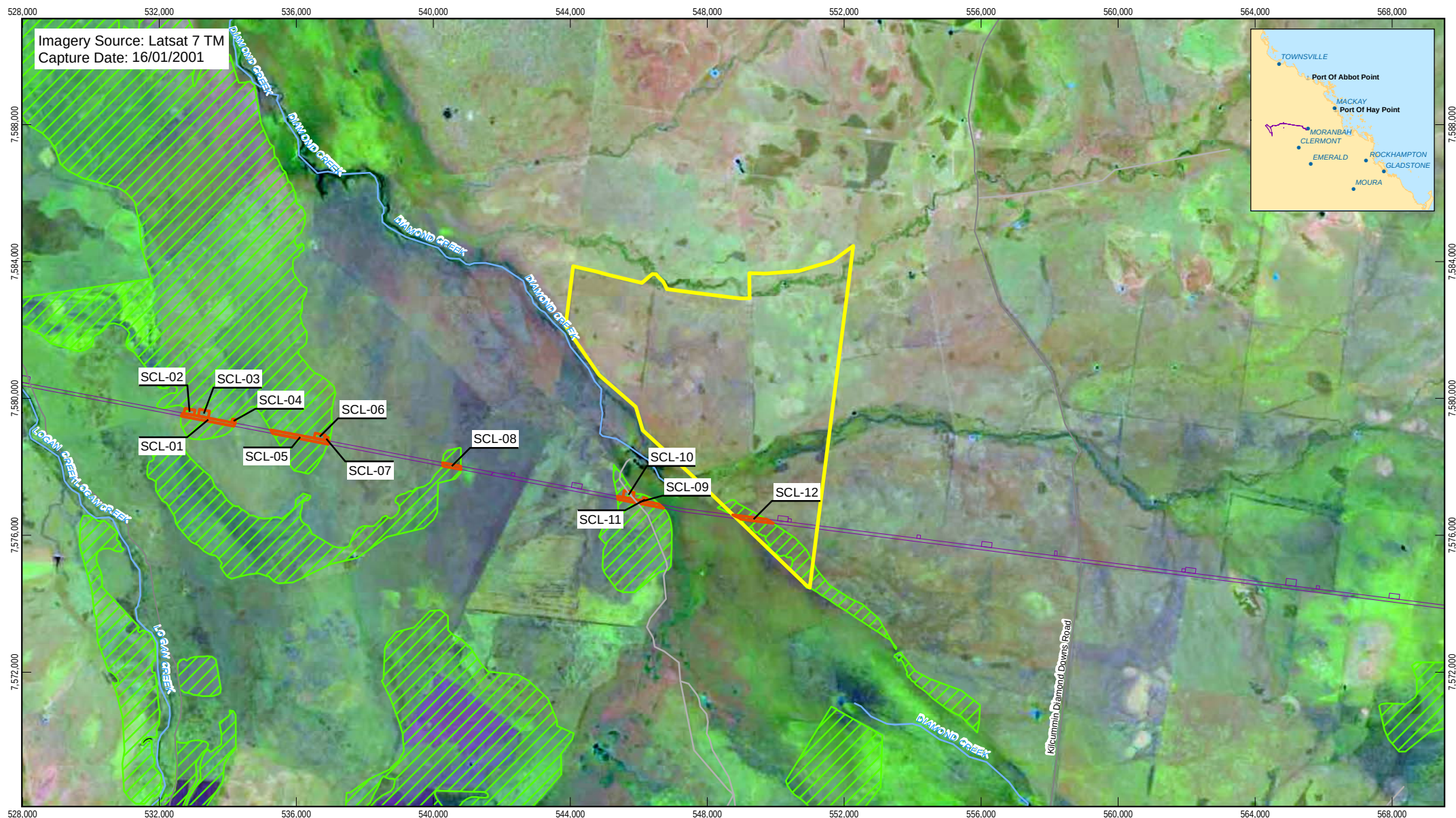
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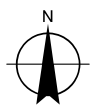
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Kilometres
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LEGEND
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 — Local Road
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 — Watercourse (Major)
 SCL Footprint
 Property Boundary - Affected
 Project (Rail)
 Strategic Cropping Land



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 Carmichael Coal Mine and Rail Project SEIS
**Strategic Cropping Land
 Assessment - Myra 2001**

Job Number 41-26422
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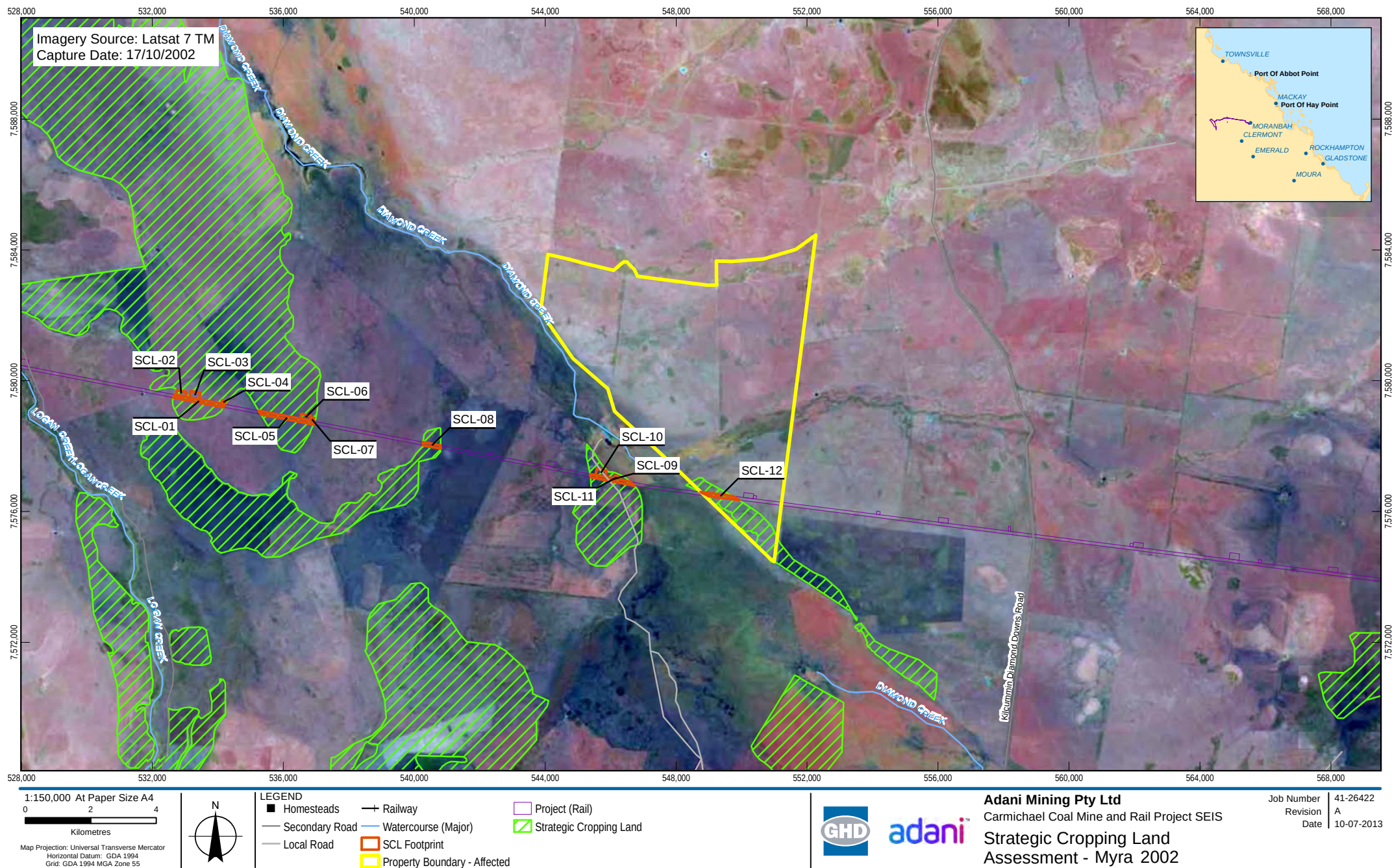
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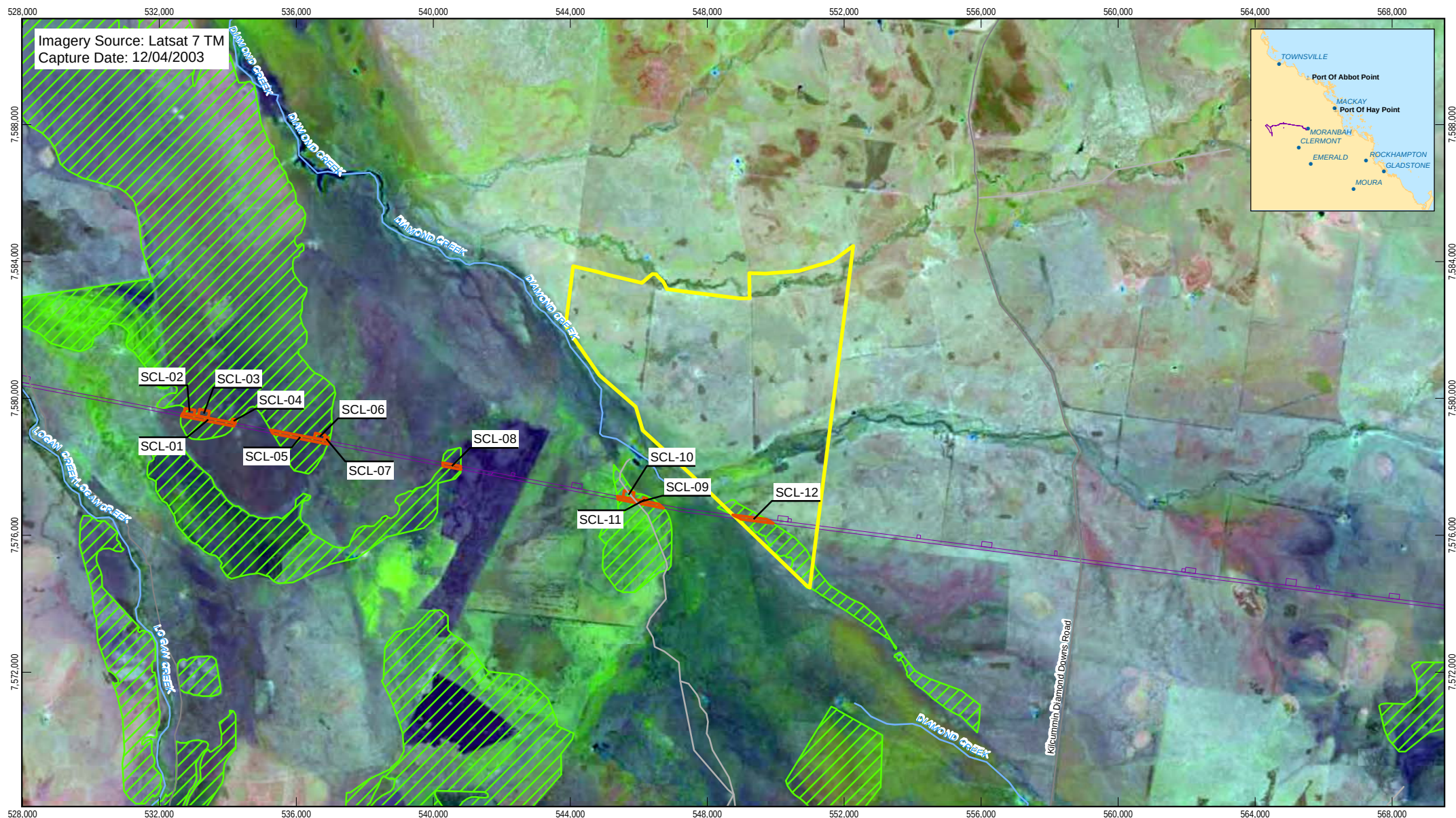
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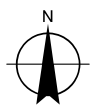
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Kilometres
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LEGEND
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▨ Strategic Cropping Land



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Carmichael Coal Mine and Rail Project SEIS
**Strategic Cropping Land
Assessment - Myra 2003**

Job Number 41-26422
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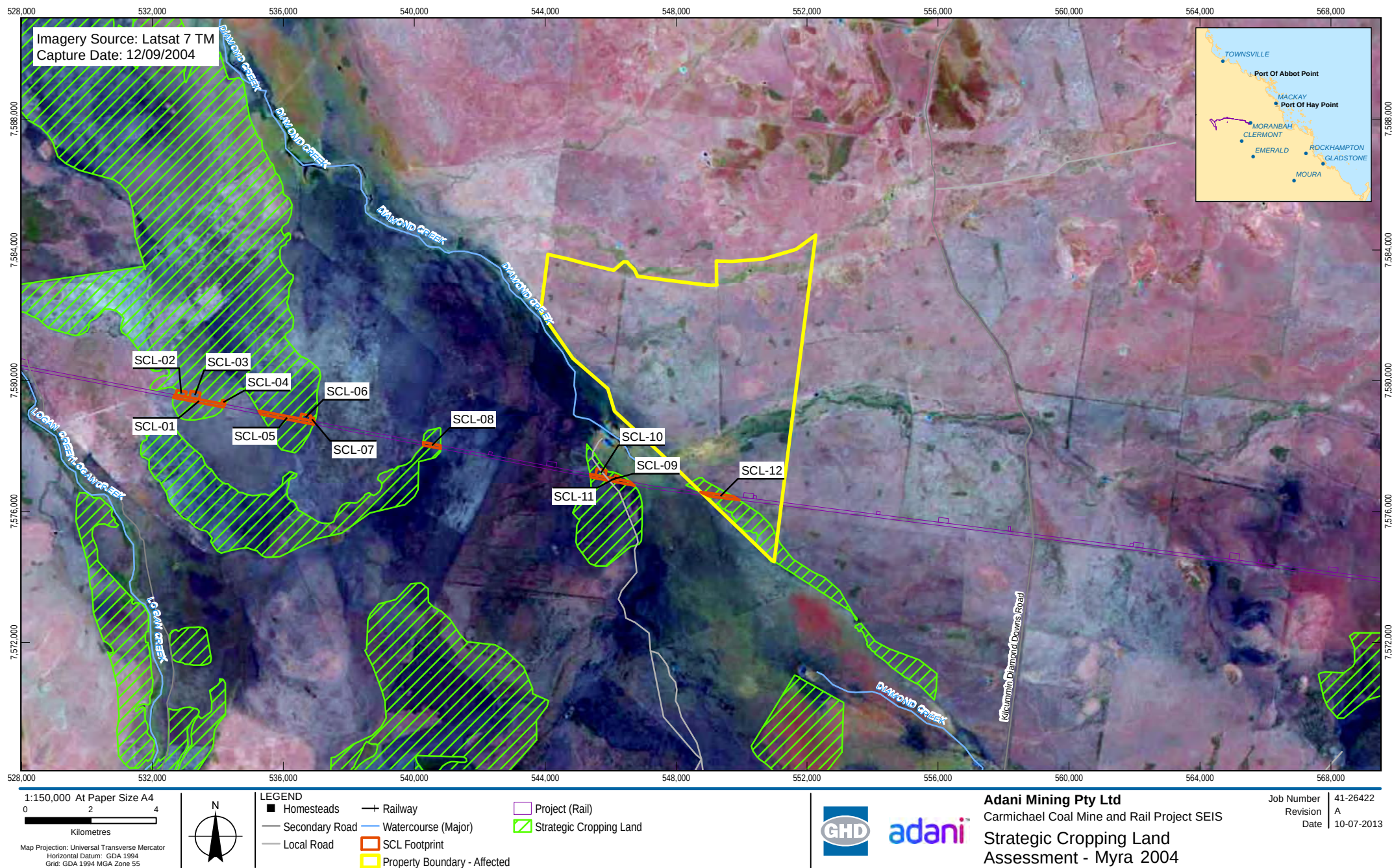
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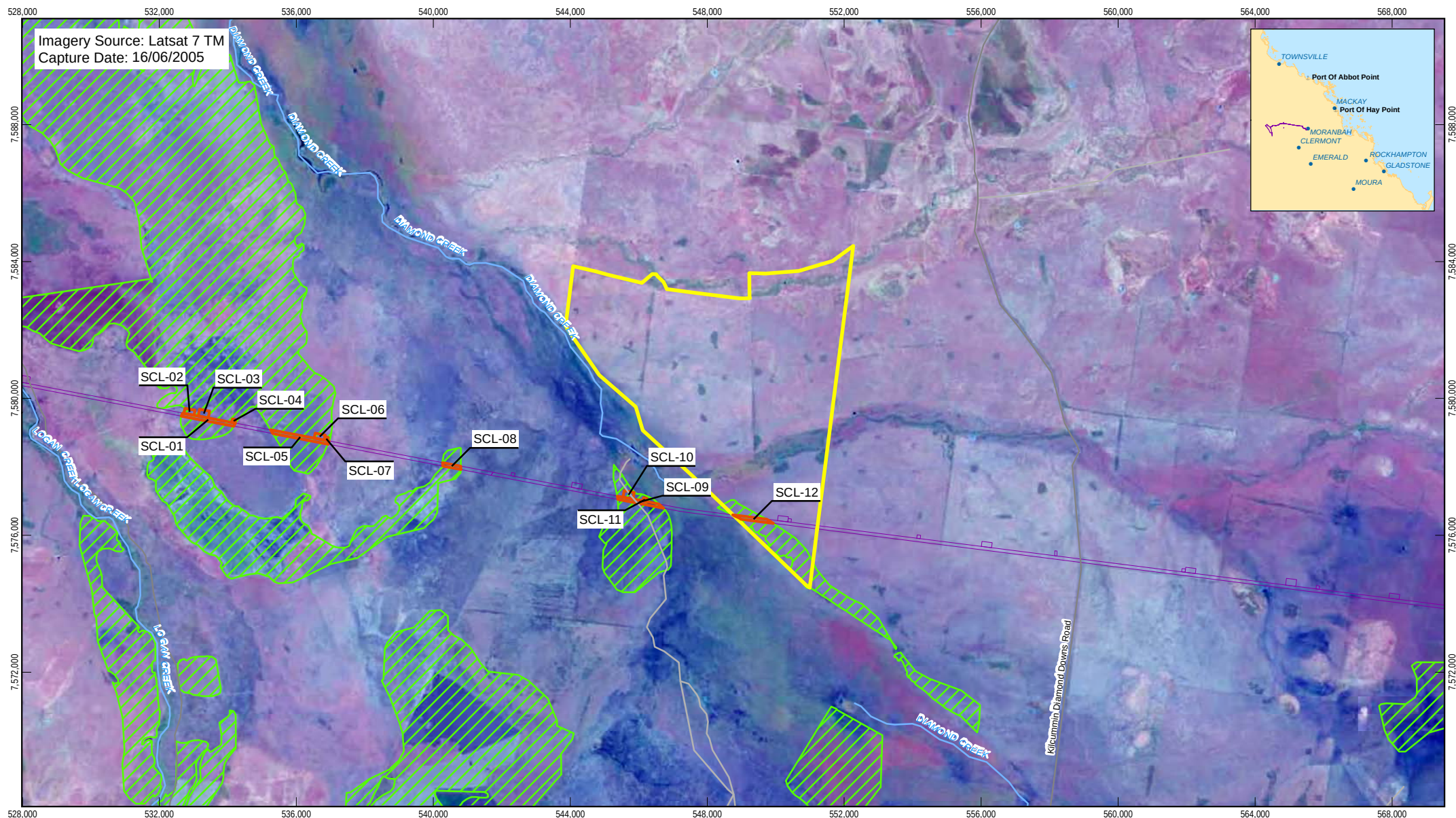
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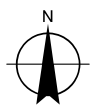
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Kilometres
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LEGEND
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Carmichael Coal Mine and Rail Project SEIS
**Strategic Cropping Land
Assessment - Myra 2005**

Job Number 41-26422
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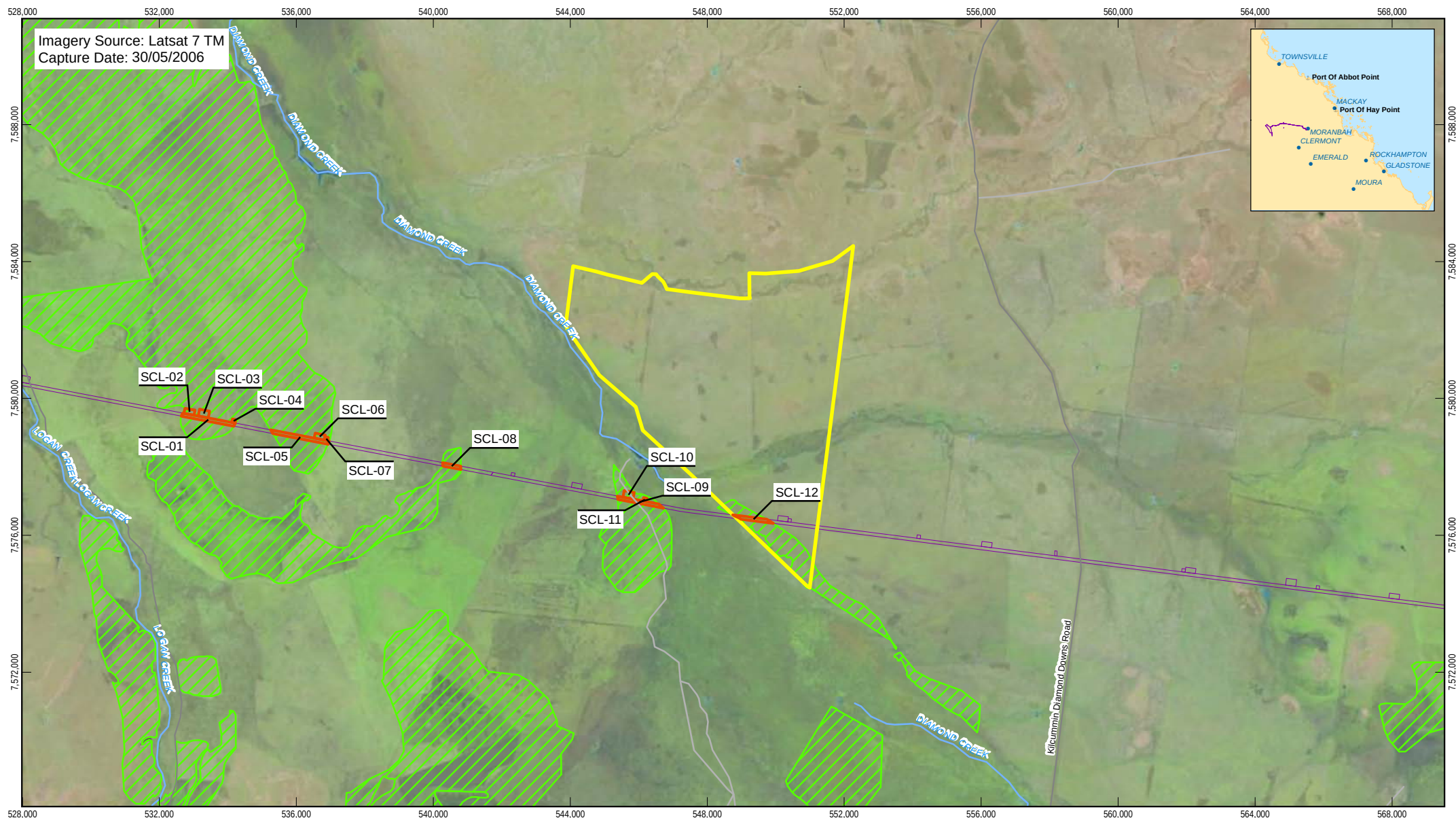
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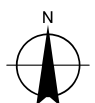
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LEGEND
 ■ Homesteads
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 SCL Footprint
 Property Boundary - Affected
 Project (Rail)
 Strategic Cropping Land



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 Carmichael Coal Mine and Rail Project SEIS
**Strategic Cropping Land
 Assessment - Myra 2006**

Job Number 41-26422
 Revision A
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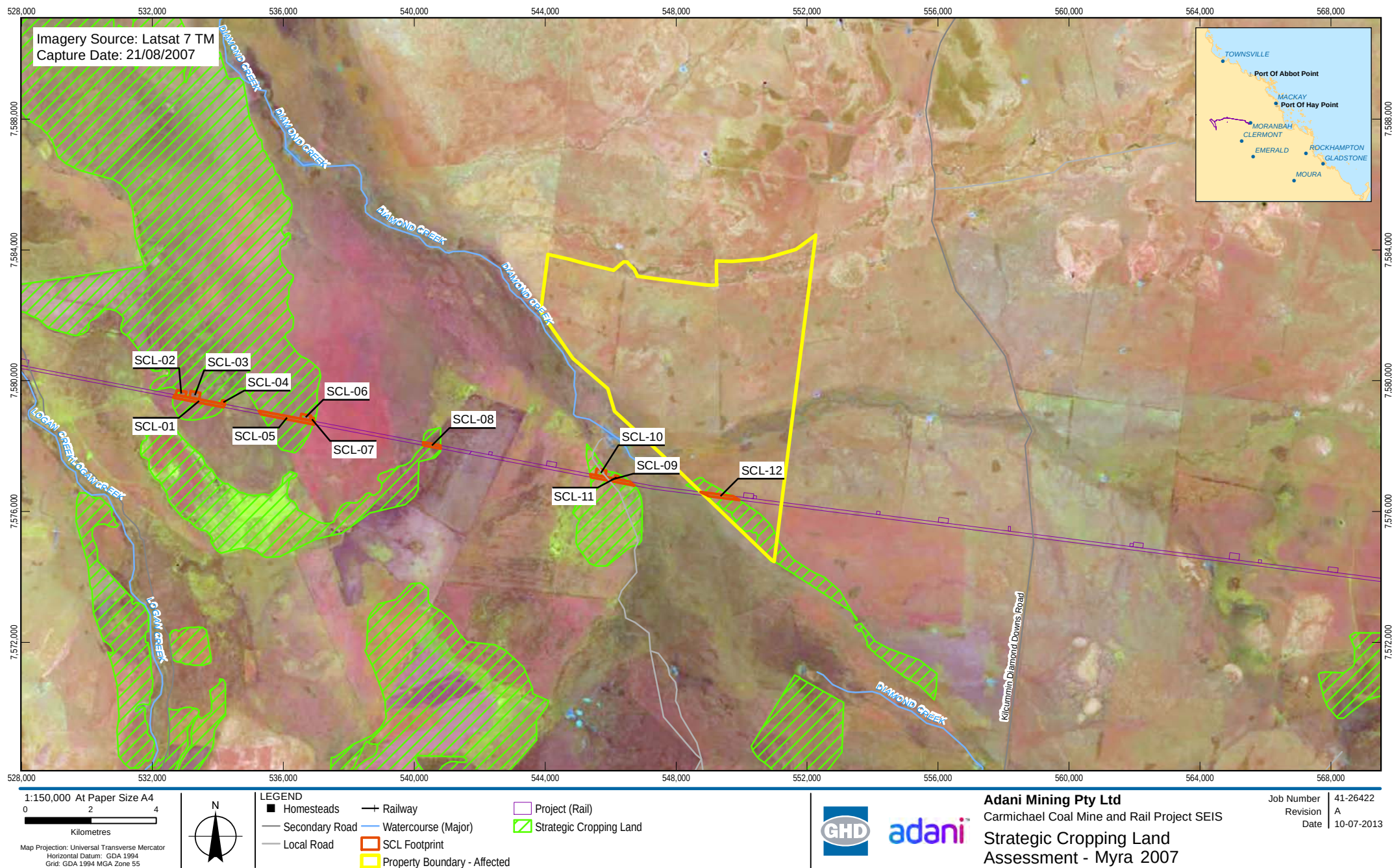
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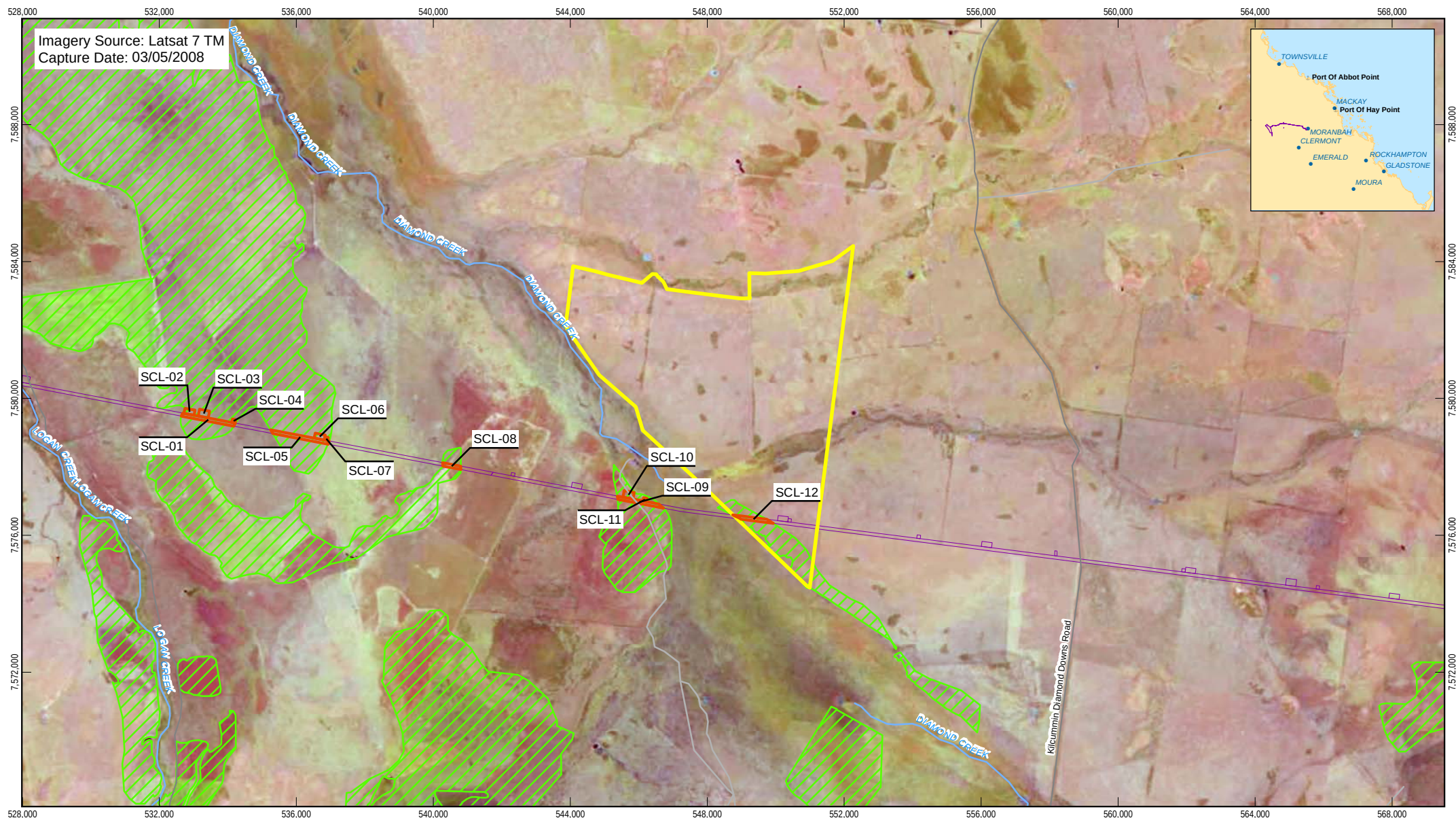


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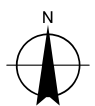
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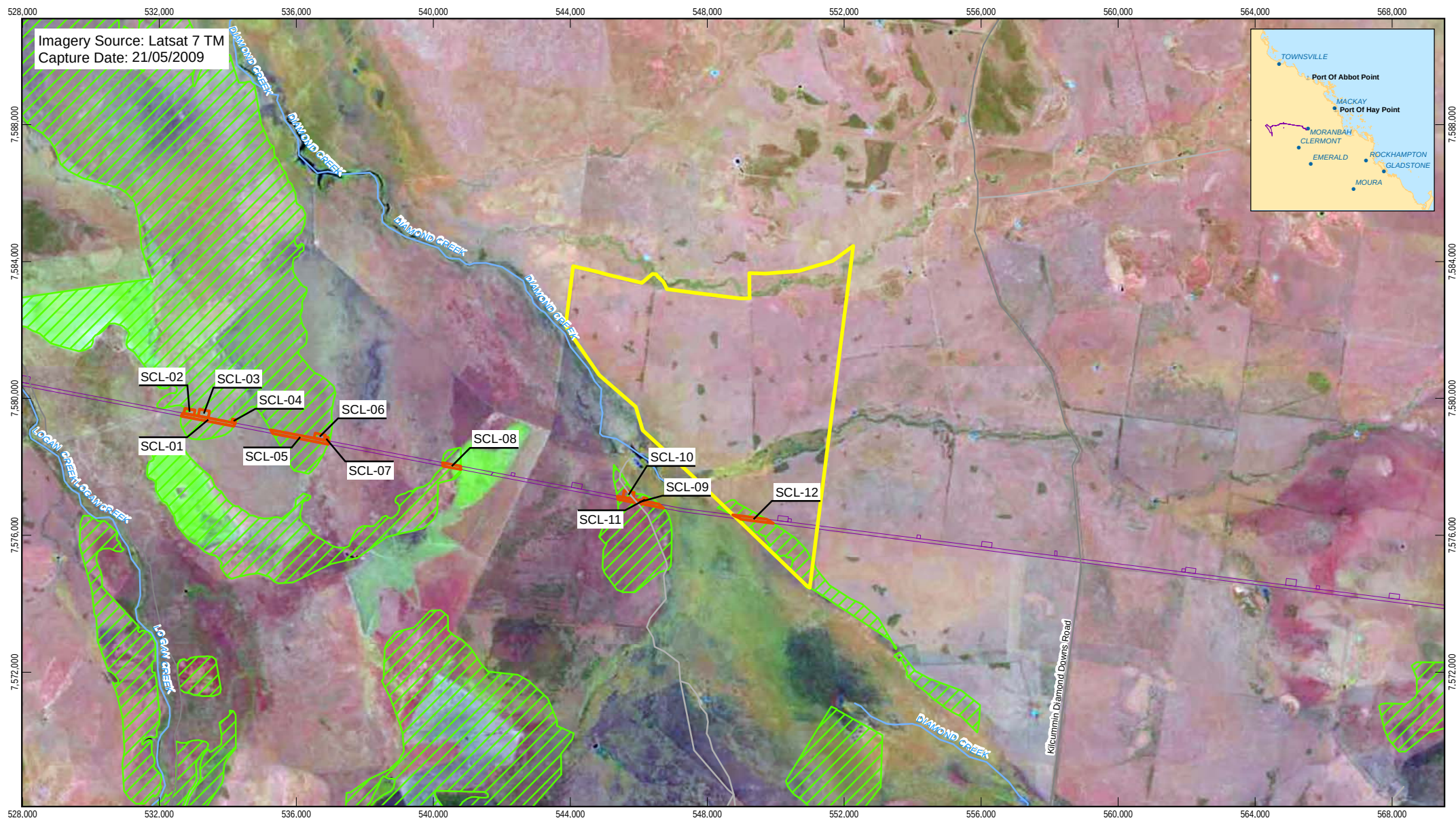
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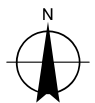
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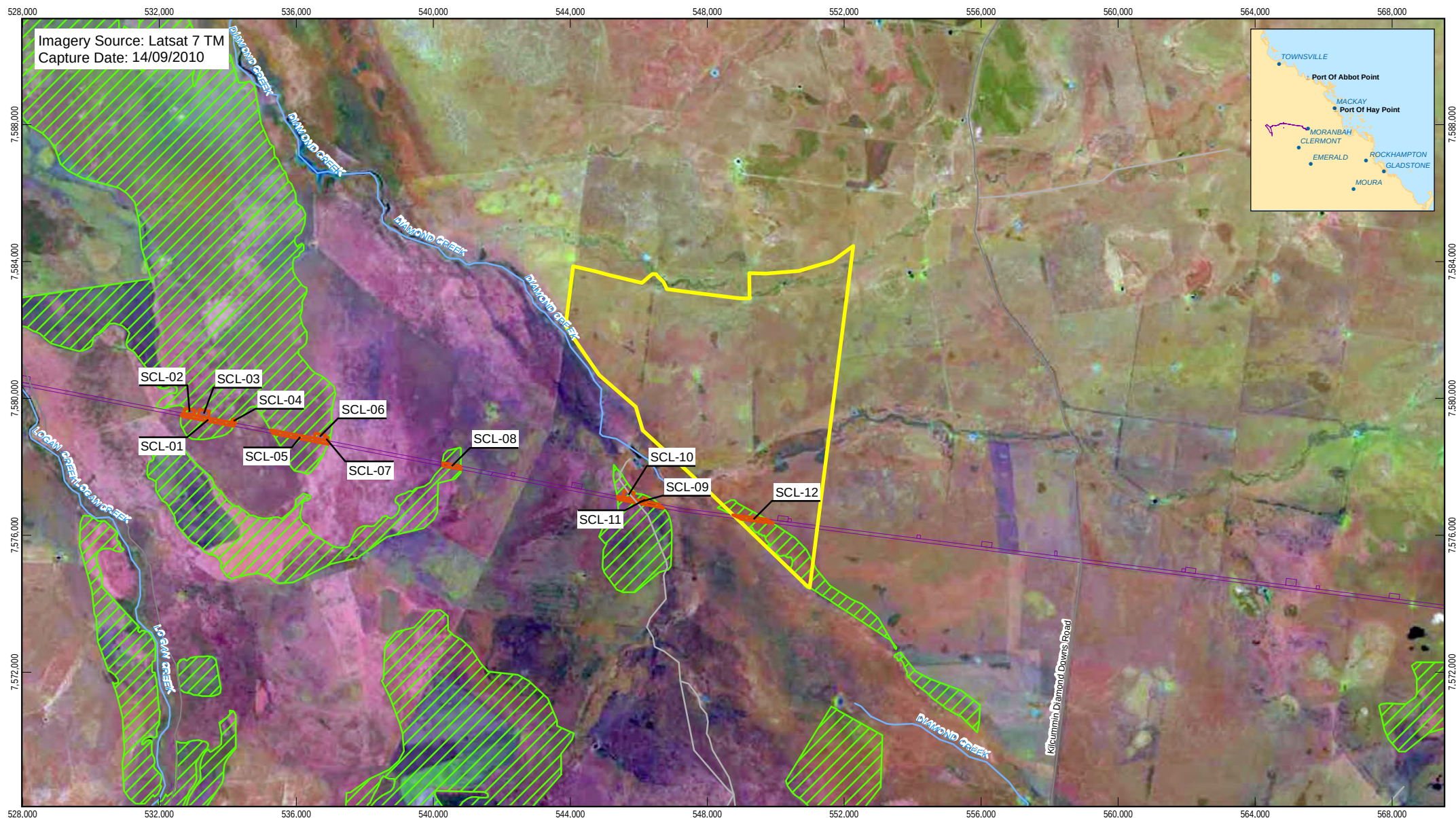
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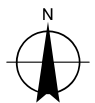
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Kilometres
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Carmichael Coal Mine and Rail Project SEIS
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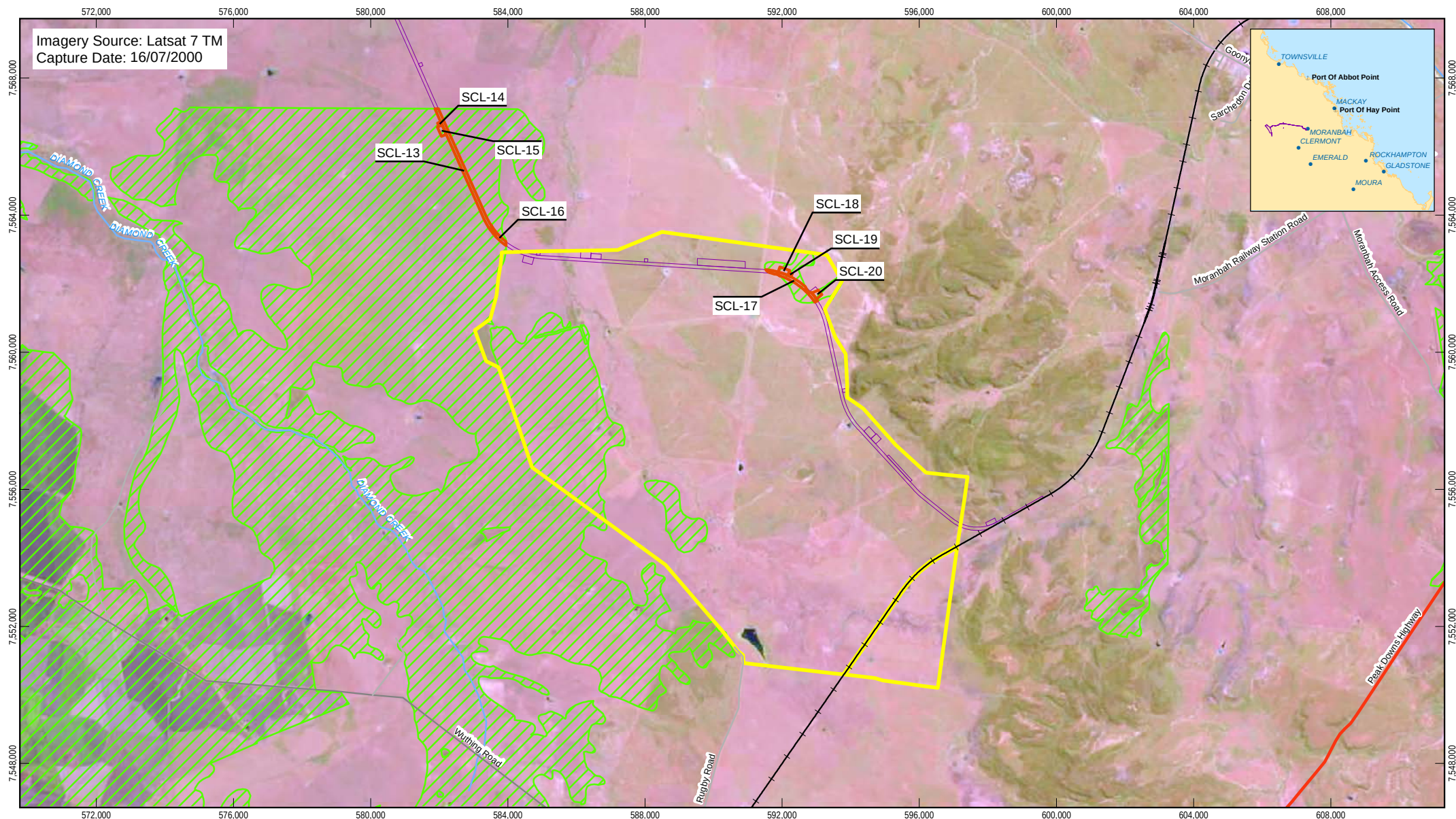
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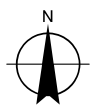
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1:150,000 At Paper Size A4
0 2 4
Kilometres
Map Projection: Universal Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 55



LEGEND

■ Homesteads	—+— Railway	□ Project (Rail)
— Highway	— Watercourse (Major)	▨ Strategic Cropping Land
— Secondary Road	□ SCL Footprint	
— Local Road	□ Property Boundary - Affected	



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Carmichael Coal Mine and Rail Project SEIS
Strategic Cropping Land
Assessment - Rugby Run 2000

Job Number 41-26422
Revision A
Date 10-07-2013

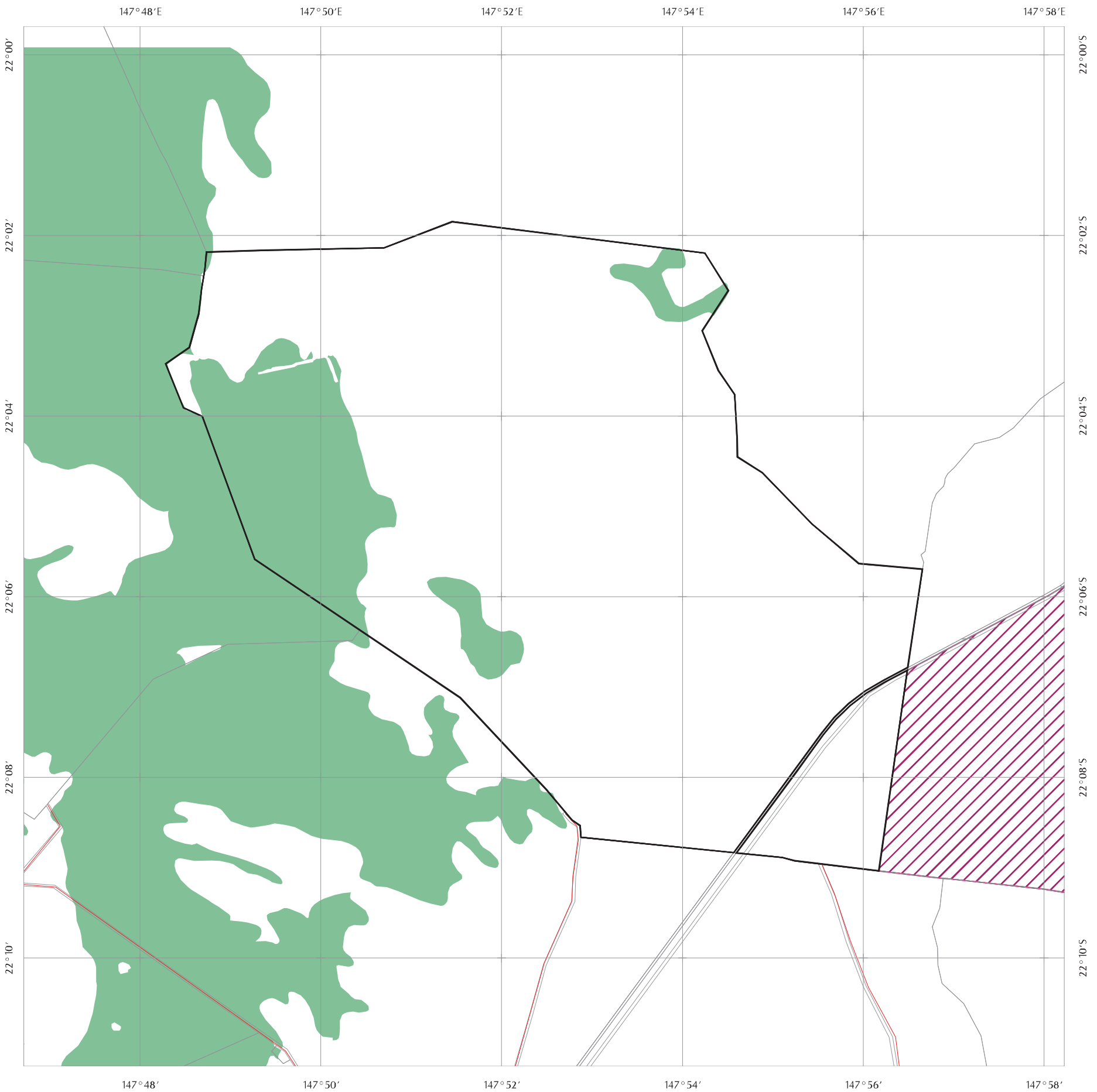
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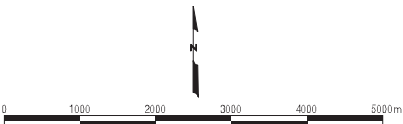
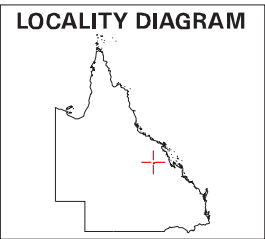
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STRATEGIC CROPPING LAND TRIGGER MAP

Requested By: DAVID.DOOLAN@GHD.COM
Date: 16 Jul 13 Time: 16.38.50

Centred on Lot on Plan:
2 GV248



This scale bar is approximate only
Horizontal Datum: Geocentric Datum of Australia 1994 (GDA94)
This product is unprojected and is not suitable for measuring distances

This map can be used to identify land that is subject to the Strategic Cropping Land Act 2011.

The location of potential strategic cropping land (SCL) was prepared using Class A Agricultural Land and Versatile Cropping Land data and 1999 Queensland Land Use Mapping Program (QLUMP) data identified as production from agriculture or plantations. Land is excluded as potential SCL where it is remnant vegetation, or is in a national park, state forest, timber reserve or forest reserve. Land is excluded as potential SCL where it is within the urban footprints for Far North Queensland or South East Queensland, or is in a collection of small cadastral parcels. The extent of potential SCL is limited to those areas within the five SCL zones.

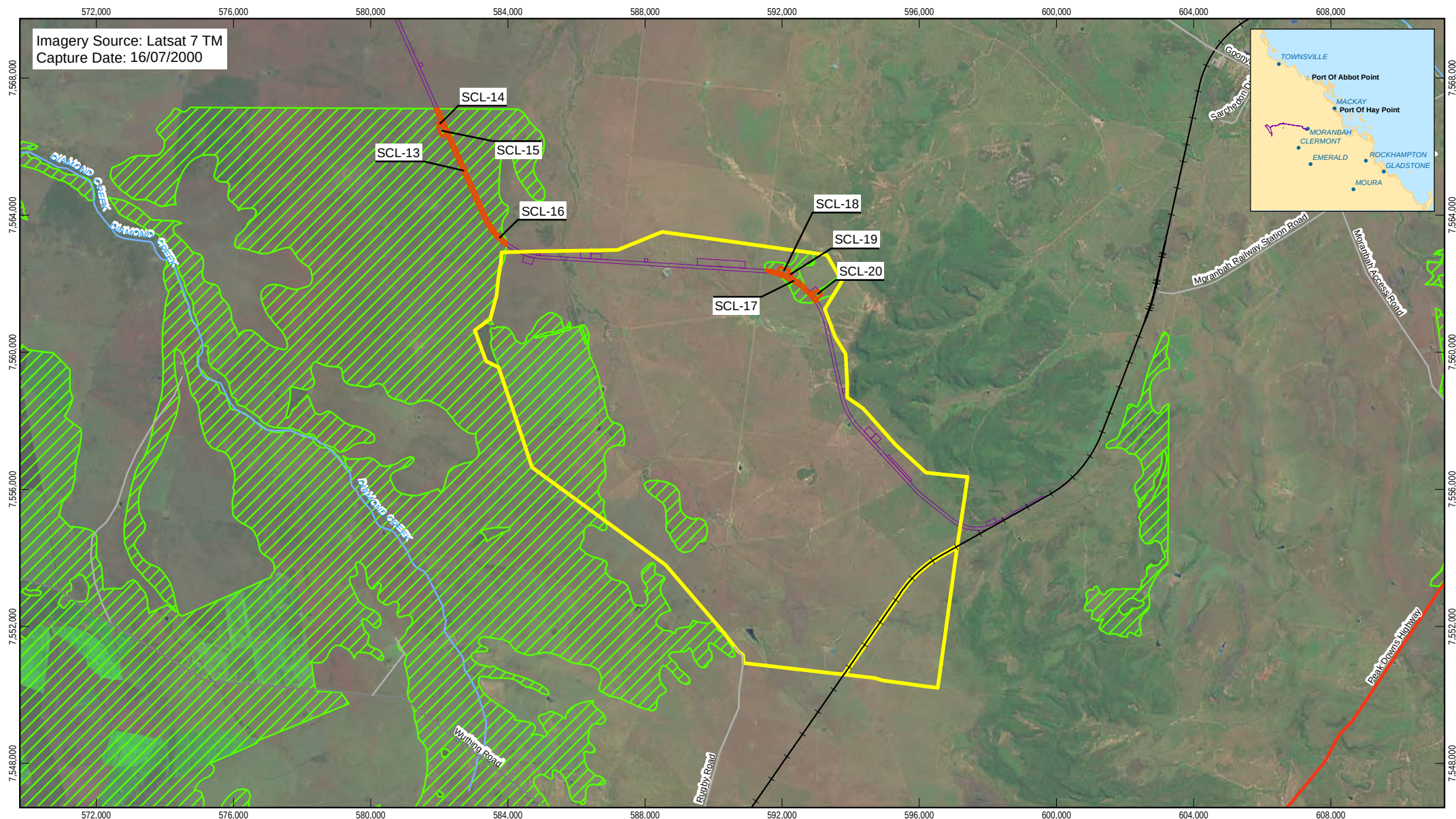
The map shows land that has been validated as SCL or decided non-SCL under the Strategic Cropping Land Act 2011 . It also indicates areas that are currently subject to a validation application, and where a zonal criteria or cropping history decision has been made but further assessment is required to validate the land as SCL or decided non-SCL.

For further information on the strategic cropping land policy or the specific assessment requirements of land under the strategic cropping land policy, go to the website: www.dnrm.qld.gov.au

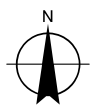
Digital GIS data and full metadata can be obtained from <http://dds.information.qld.gov.au/dds/>

- Potential strategic cropping land
- Strategic cropping land
 - Zonal criteria validated (management area only)
 - Cropping history validated (management area only)
- Decided non-strategic cropping land
- Current validation applications
Application reference number(s) shown on map face
- Protection area boundary
- Zone boundary
- Subject lot
- Roads
© Pitney Bowes Software 2012
- Cadastral line
Lot on Plan boundaries shown are provided as a locational aid only.
- Towns

This Lot on Plan is located in:
(1) MANAGEMENT AREA
(2) WESTERN CROPPING ZONE
(3) CENTRAL HIGHLANDS ISAAC MITIGATION SUB-ZONE



1:150,000 At Paper Size A4
0 2 4
Kilometres
Map Projection: Universal Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 55



LEGEND

■ Homesteads	—+— Railway	□ Project (Rail)
— Highway	— Watercourse (Major)	▨ Strategic Cropping Land
— Secondary Road	— SCL Footprint	
— Local Road	— Property Boundary - Affected	



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Strategic Cropping Land
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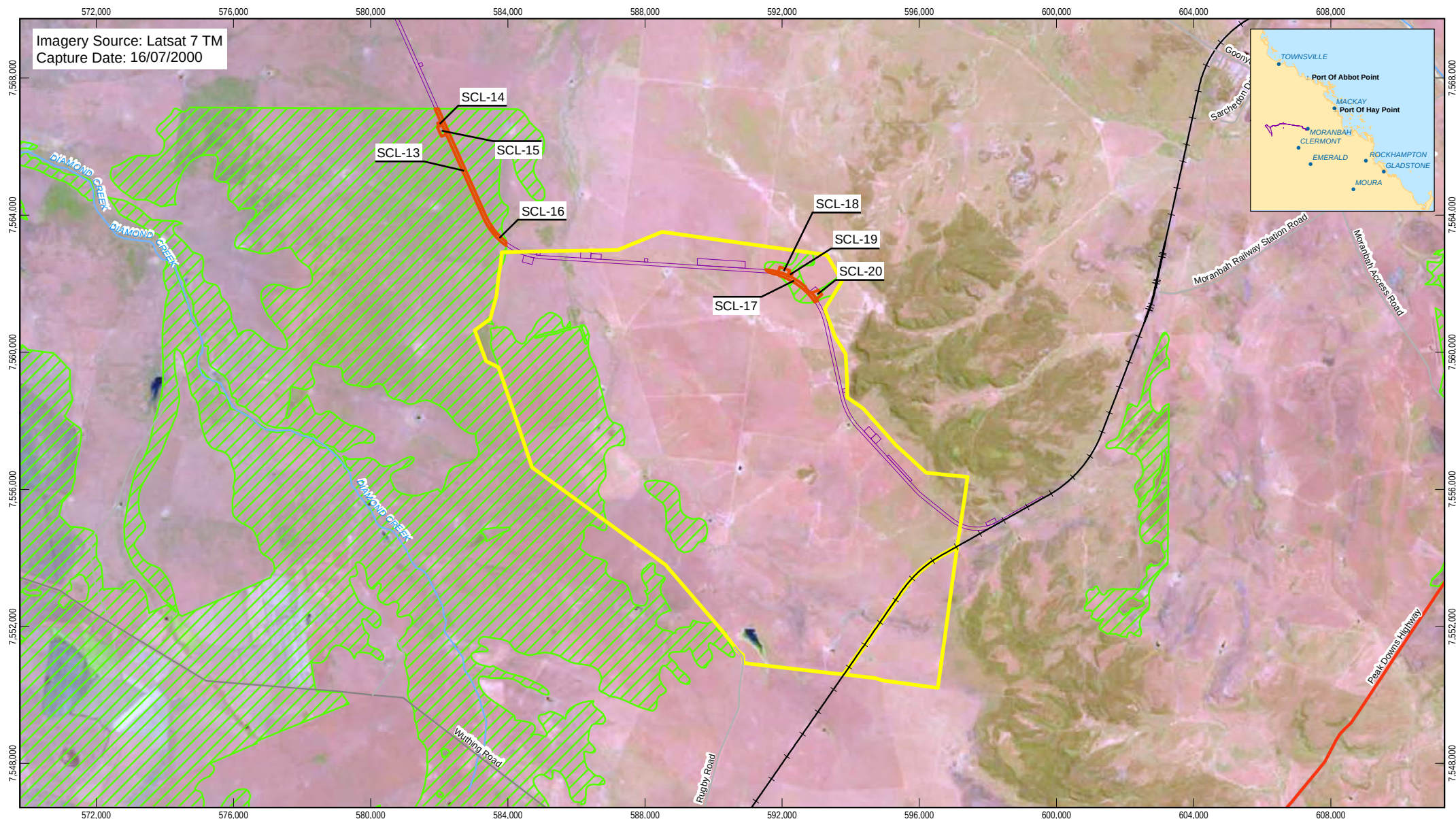
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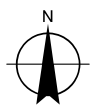
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LEGEND
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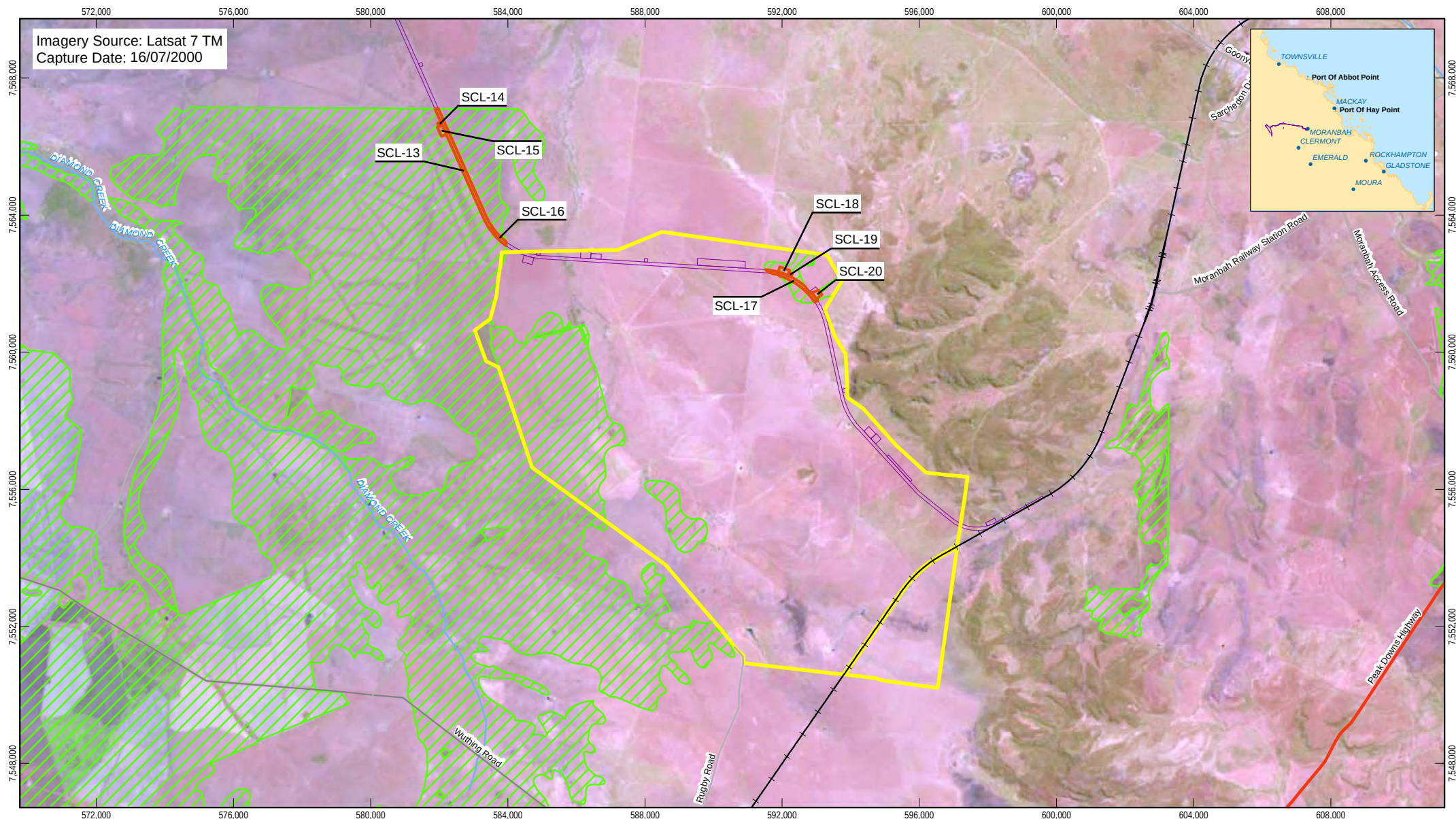
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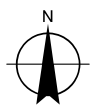
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LEGEND

- Homesteads
- Railway
- Watercourse (Major)
- Secondary Road
- Local Road
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- Property Boundary - Affected
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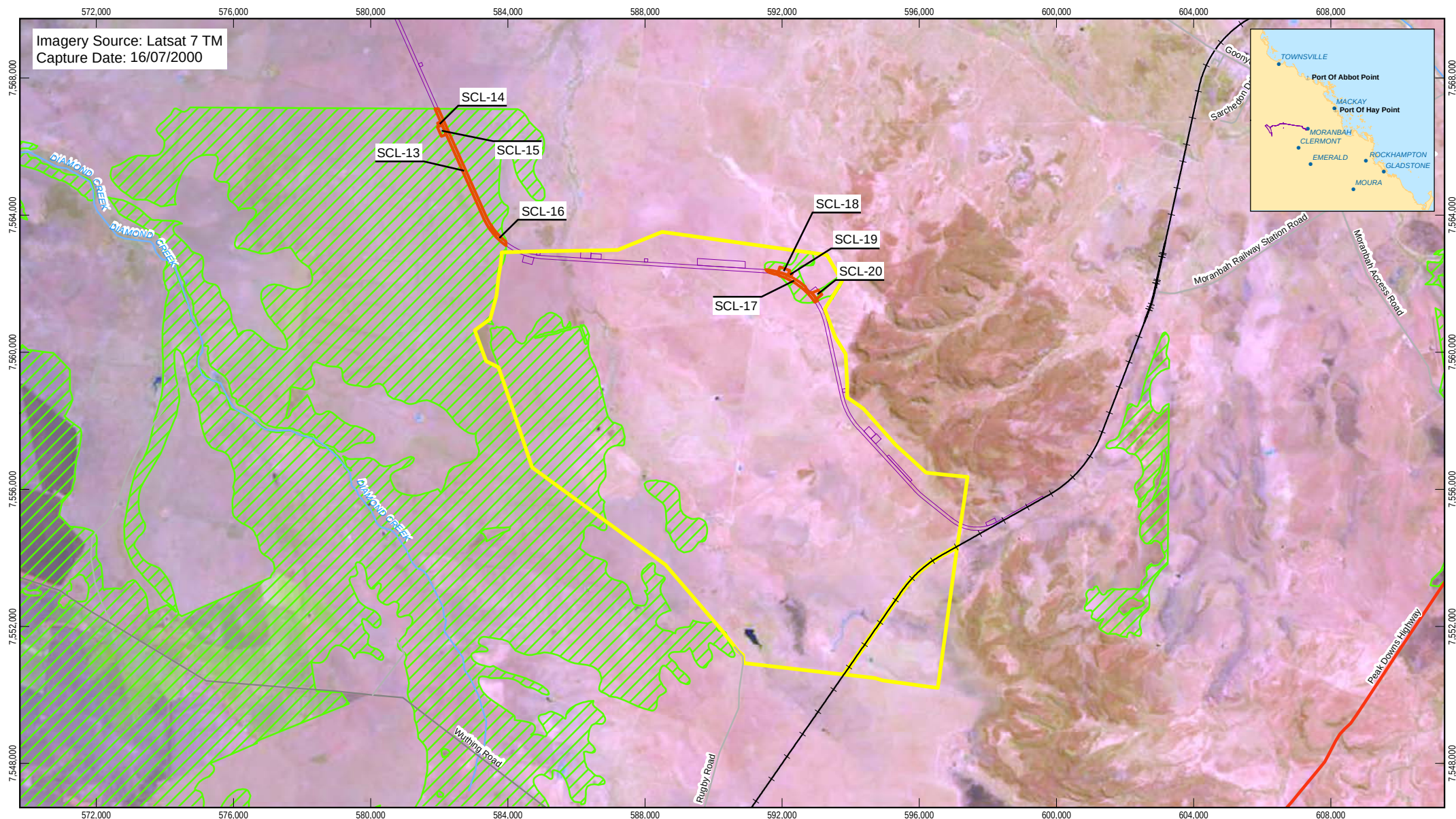
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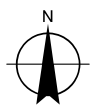
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LEGEND

- Homesteads
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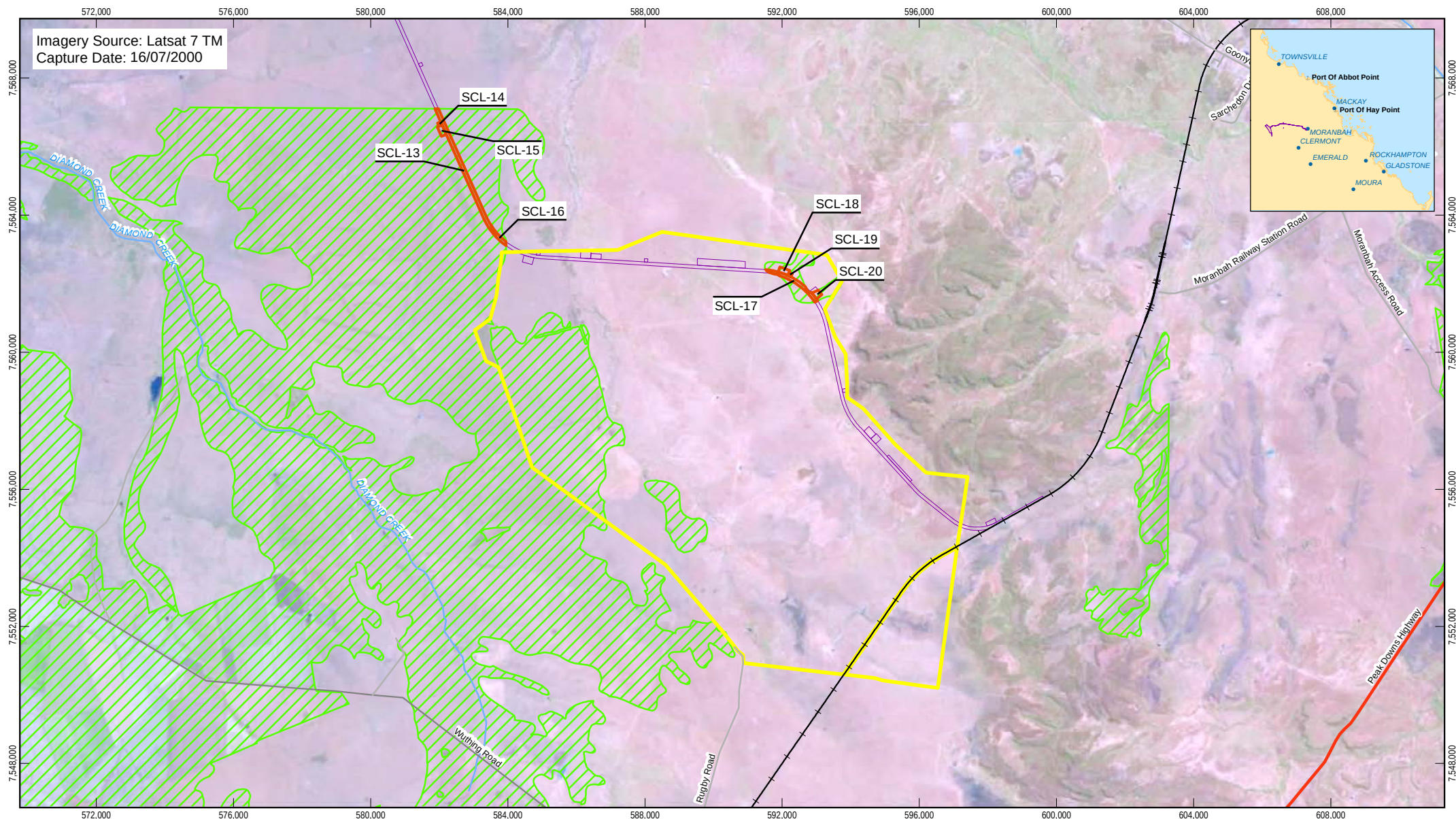
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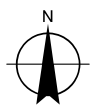
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LEGEND

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Assessment - Rugby Run 2000**

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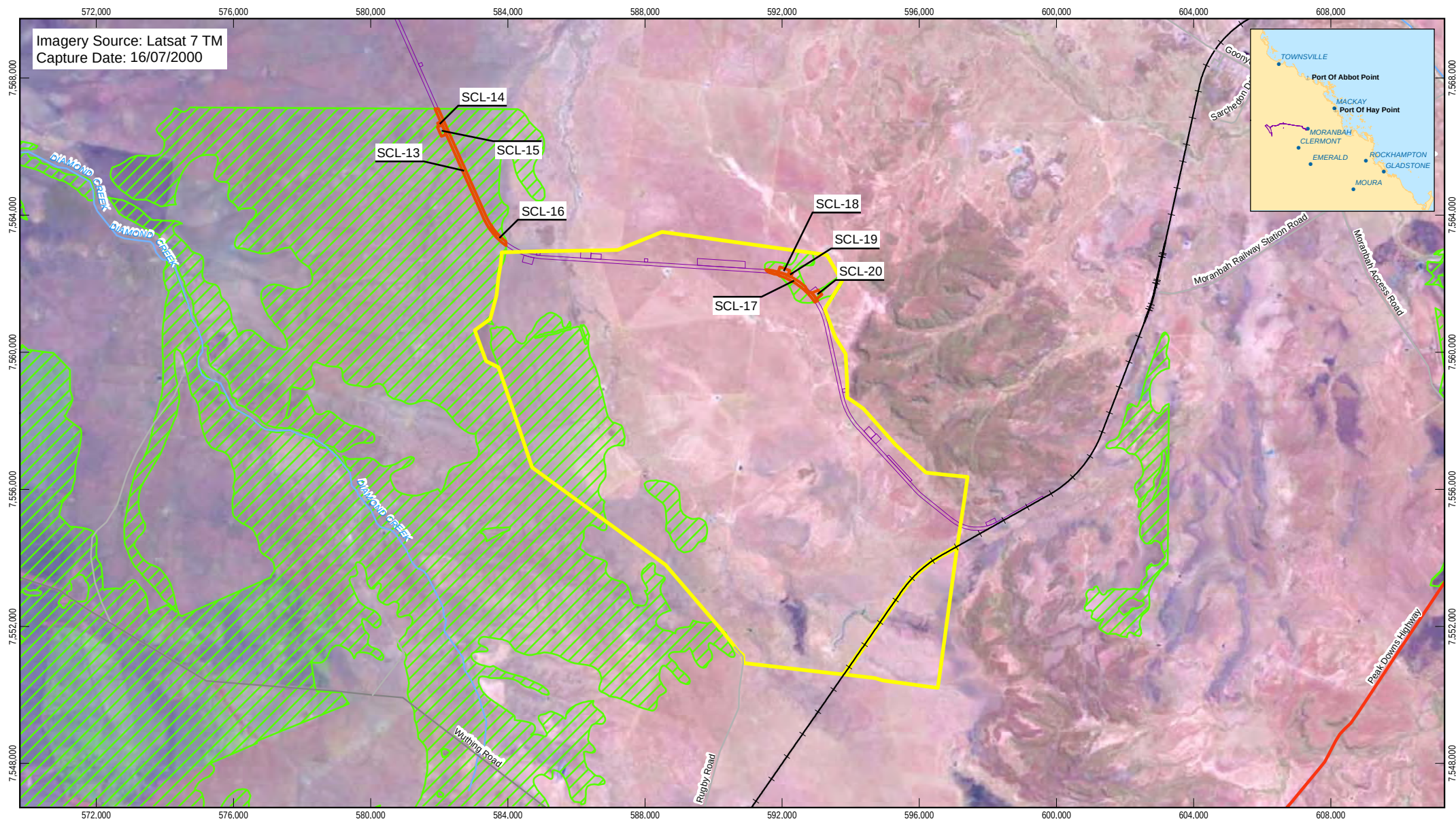
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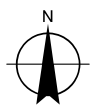
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LEGEND

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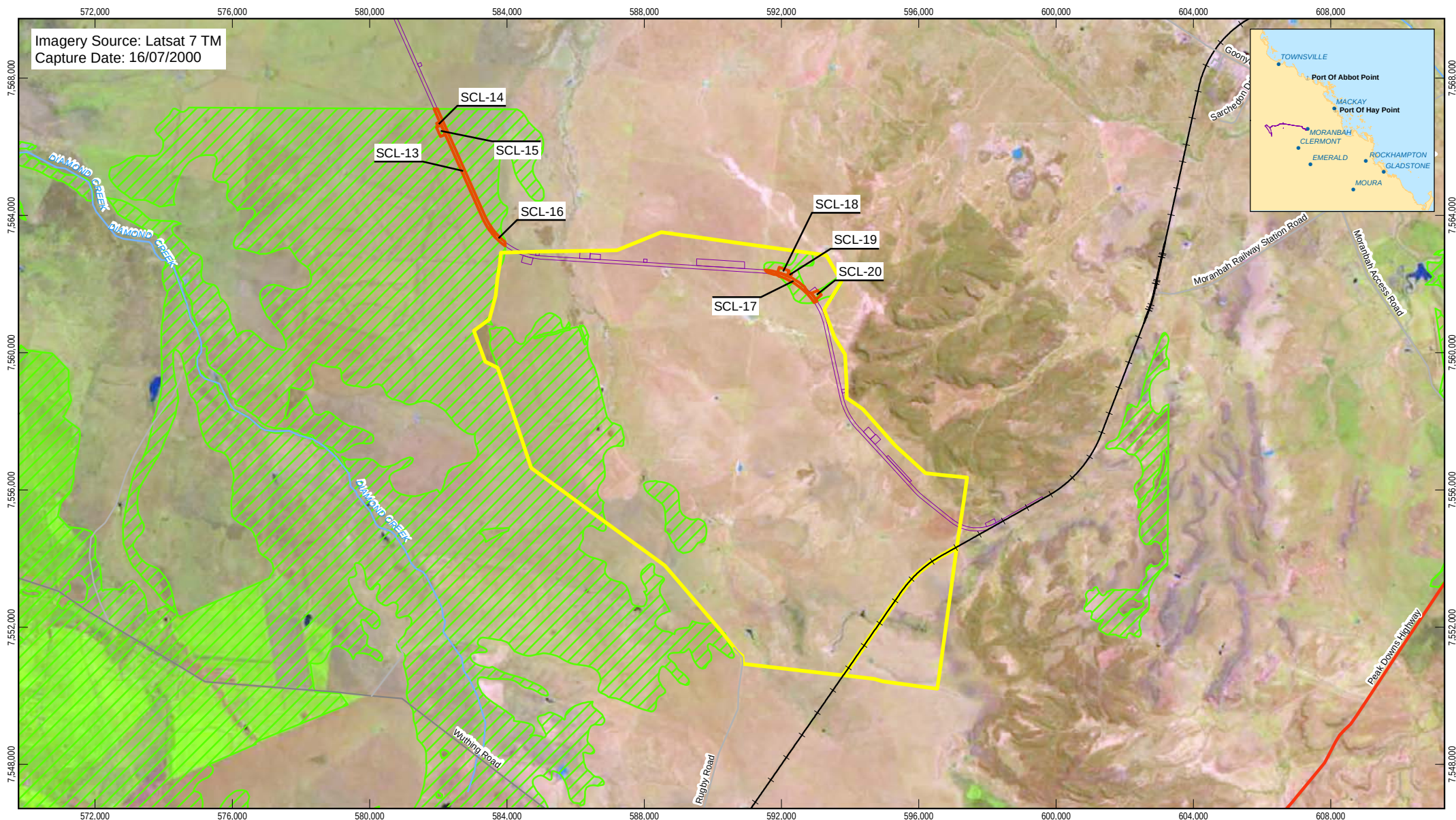
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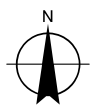
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LEGEND
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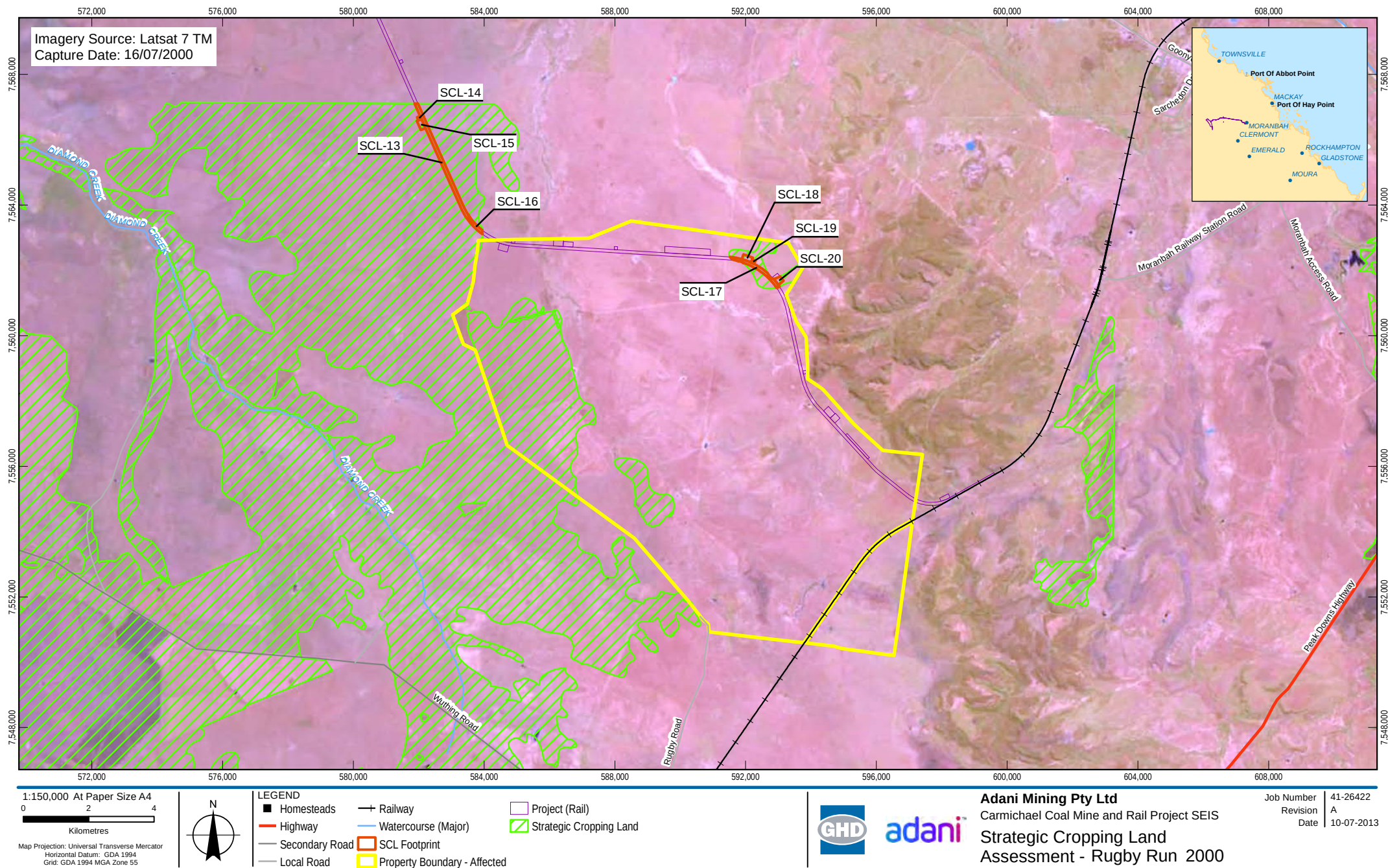
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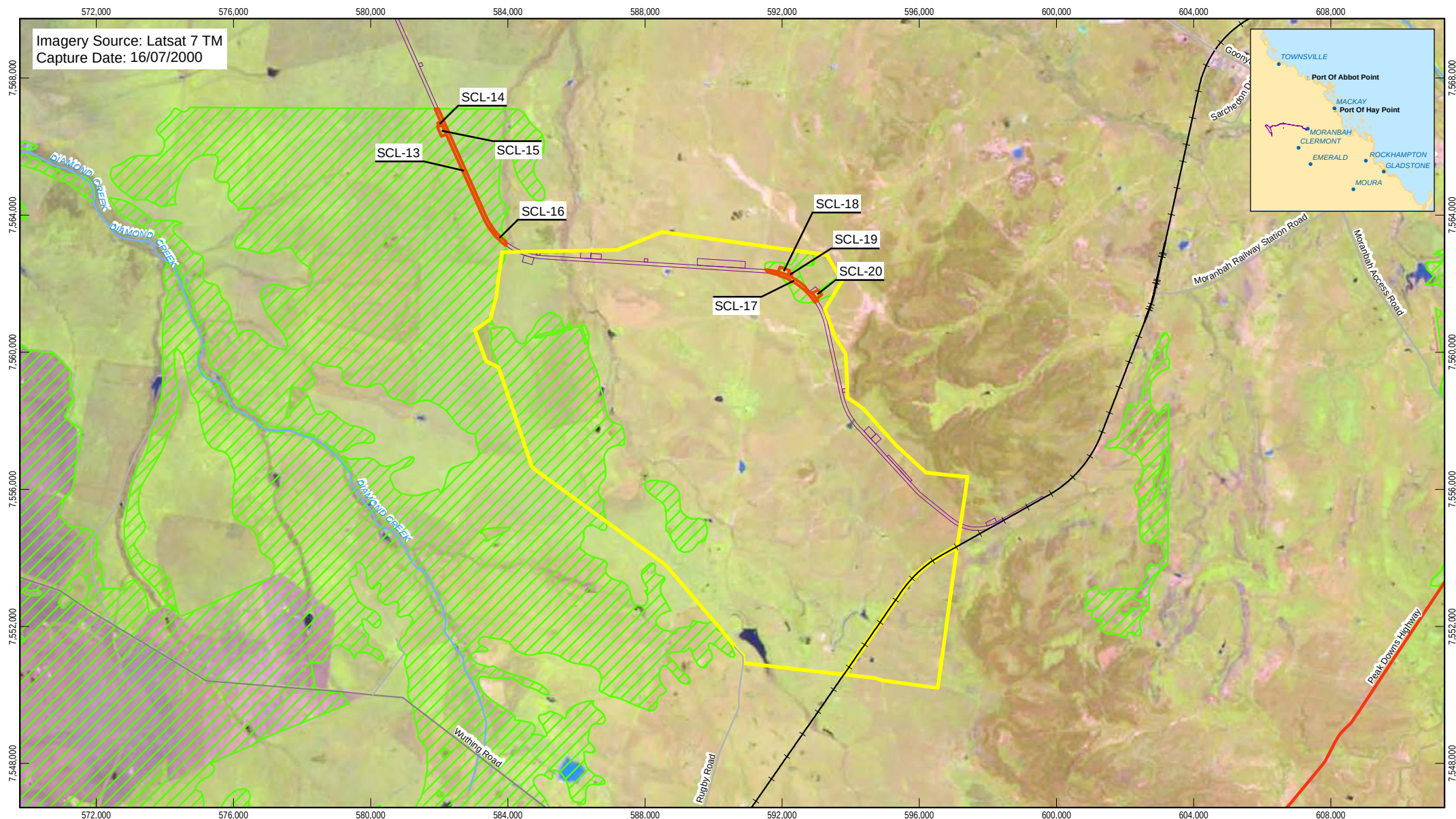


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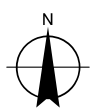
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Kilometres
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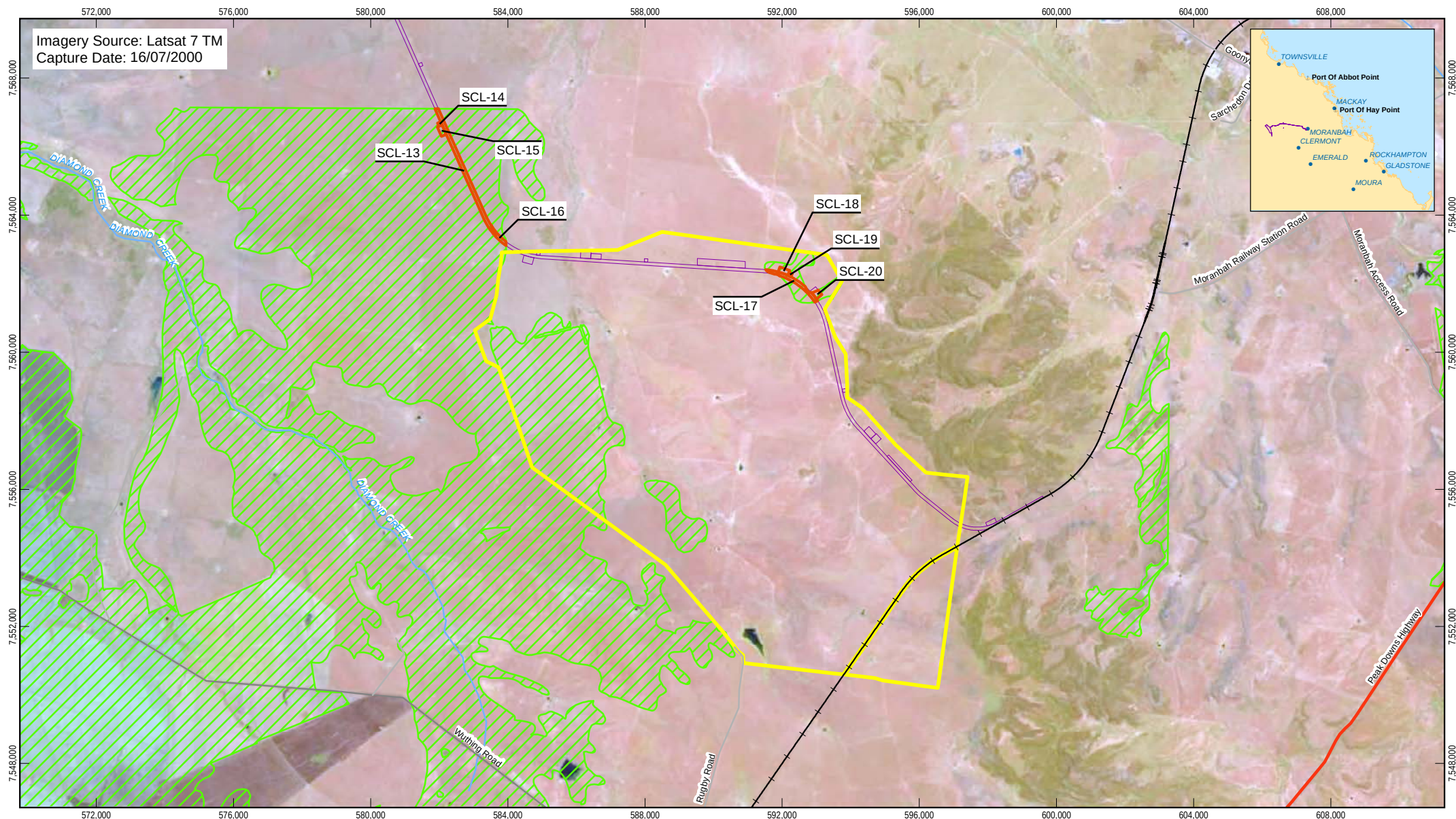
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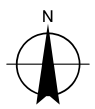
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1:150,000 At Paper Size A4
0 2 4
Kilometres
Map Projection: Universal Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 55



LEGEND

- Homesteads
- Railway
- Watercourse (Major)
- Secondary Road
- Local Road
- Project (Rail)
- SCL Footprint
- Property Boundary - Affected
- Strategic Cropping Land



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Adani Mining Pty Ltd
Carmichael Coal Mine and Rail Project SEIS
**Strategic Cropping Land
Assessment - Rugby Run 2000**

Job Number 41-26422
Revision A
Date 10-07-2013

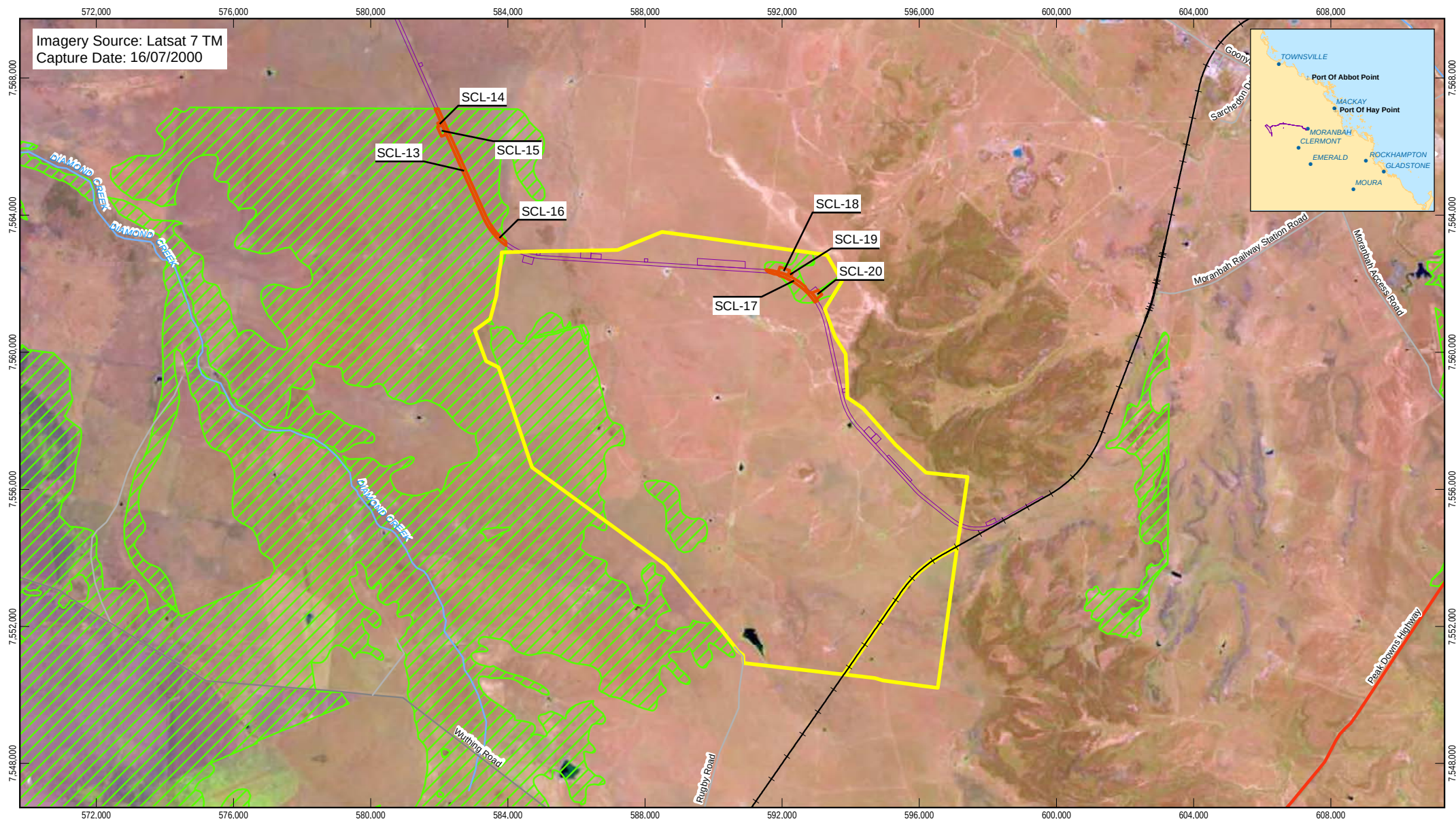
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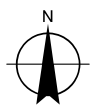
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Kilometres



LEGEND

- Homesteads
- Railway
- Watercourse (Major)
- Secondary Road
- Local Road
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- SCL Footprint
- Property Boundary - Affected
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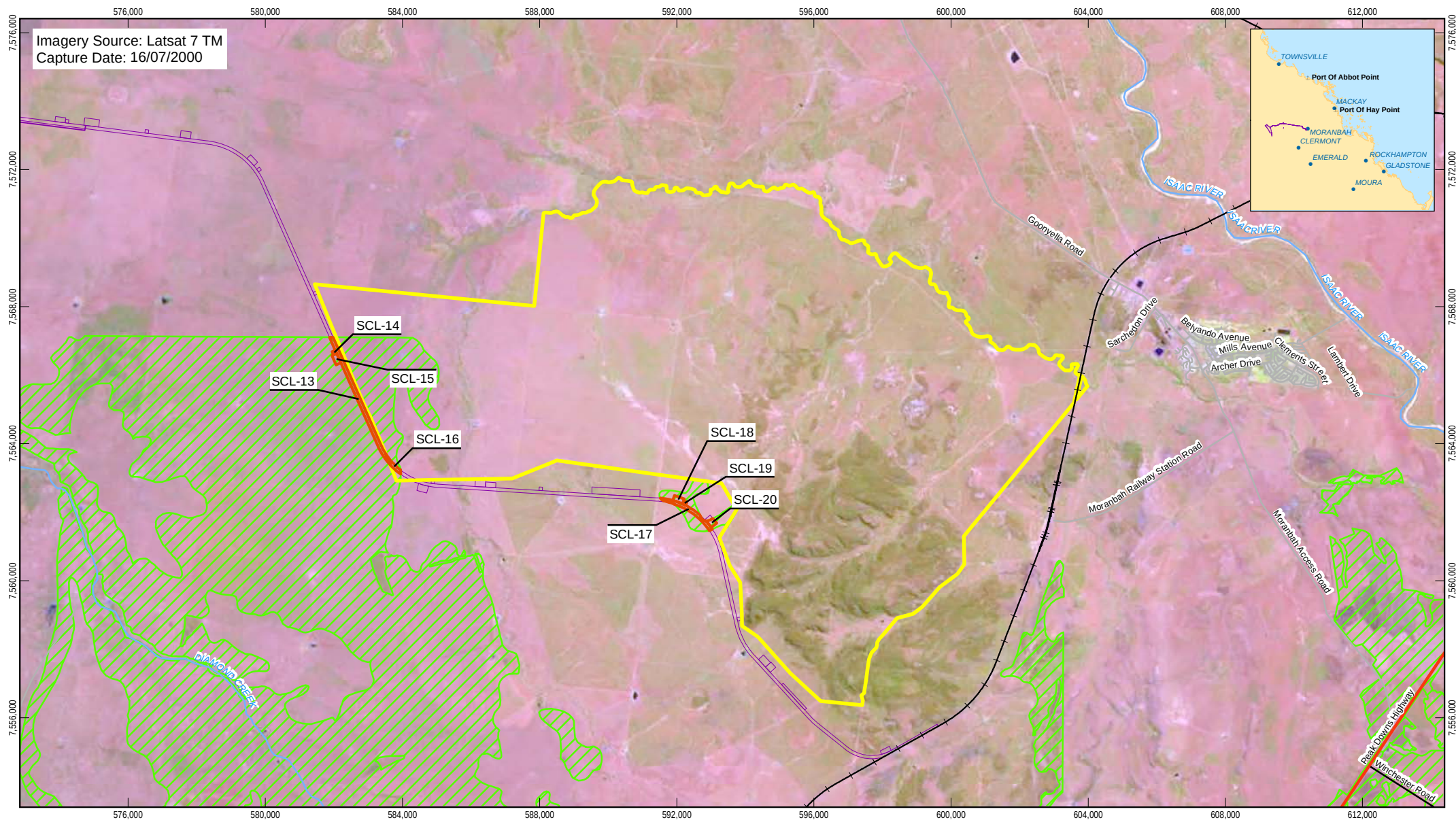
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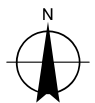
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Kilometres
Map Projection: Universal Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 55



LEGEND
■ Homesteads —+— Railway
— Highway — Watercourse (Major)
— Main Road — SCL Footprint
— Local Road — Property Boundary - Affected
□ Project (Rail)
▨ Strategic Cropping Land



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Assessment - Rugby 2000**

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147° 50' E

148° 00' E

22° 00' S

22° 00' S

22° 10' S

22° 10' S

147° 50' E

148° 00' E

STRATEGIC CROPPING LAND TRIGGER MAP

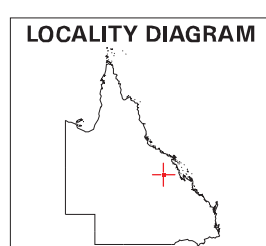
-  Potential strategic cropping land
-  Strategic cropping land
-  Zonal criteria validated (management area only)
-  Cropping history validated (management area only)
-  Decided non-strategic cropping land
-  Current validation applications
Application reference number(s) shown on map face
-  Protection area boundary
-  Zone boundary
-  Subject lot
-  Roads
© Pitney Bowes Software 2012
-  Cadastral line
Lot on Plan boundaries shown are provided as a locational aid only.
-  Towns

This Lot on Plan is located in:

- (1) MANAGEMENT AREA
- (2) WESTERN CROPPING ZONE
- (3) CENTRAL HIGHLANDS ISAAC MITIGATION SUB-ZONE

Requested By: DAVID.DOOLAN@GHD.COM
Date: 16 Jul 13 Time: 16.38.26

Centred on Lot on Plan:
5305 SP240414



0 1500 3000 4500 6000 7500m

This scale bar is approximate only
Horizontal Datum: Geocentric Datum of Australia 1994 (GDA94)
This product is unprojected and is not suitable for measuring distances

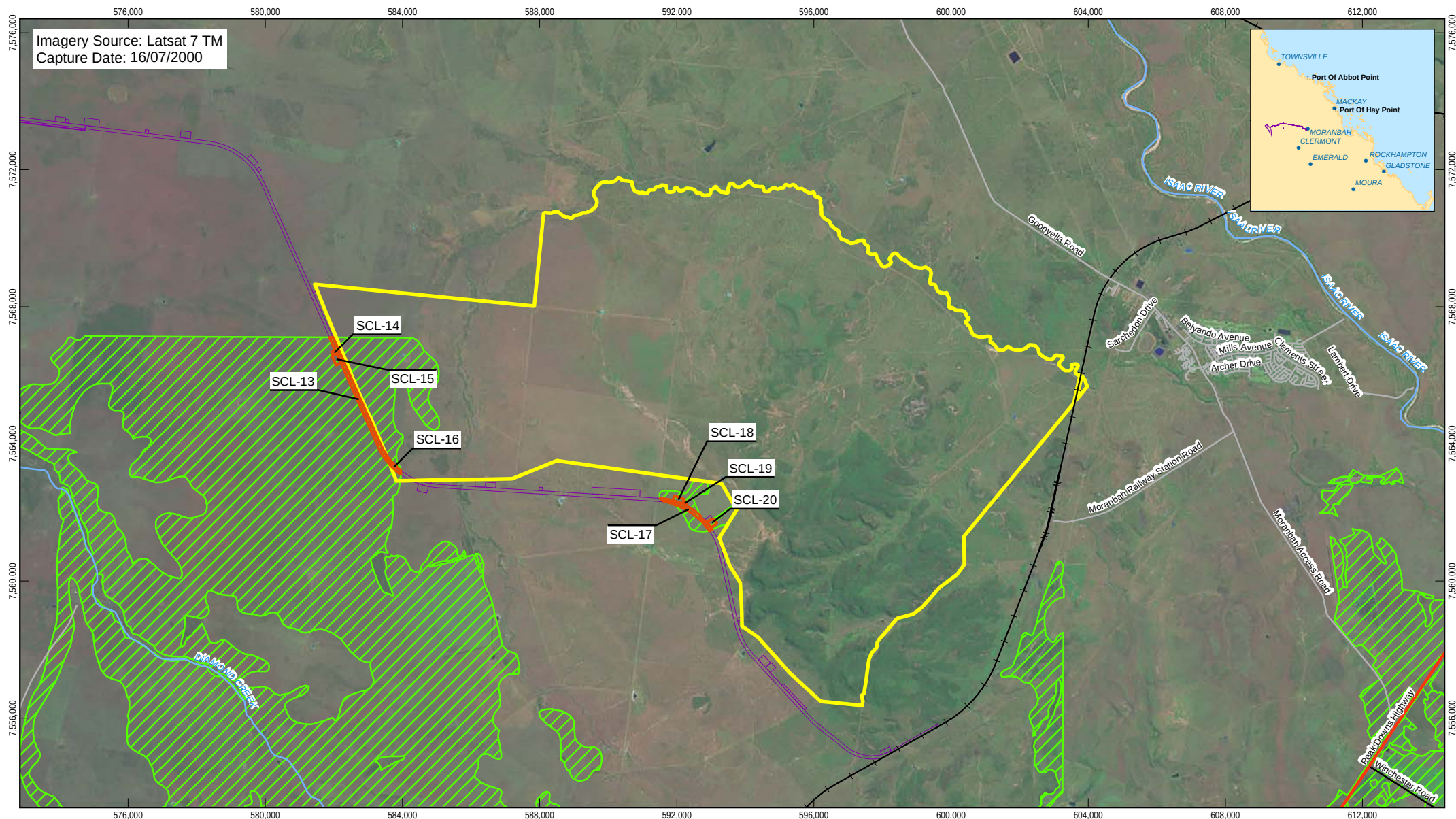
This map can be used to identify land that is subject to the *Strategic Cropping Land Act 2011*.

The location of potential strategic cropping land (SCL) was prepared using Class A Agricultural Land and Versatile Cropping Land data and 1999 Queensland Land Use Mapping Program (QLUMP) data identified as production from agriculture or plantations. Land is excluded as potential SCL where it is remnant vegetation, or is in a national park, state forest, timber reserve or forest reserve. Land is excluded as potential SCL where it is within the urban footprints for Far North Queensland or South East Queensland, or is in a collection of small cadastral parcels. The extent of potential SCL is limited to those areas within the five SCL zones.

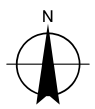
The map shows land that has been validated as SCL or decided non-SCL under the *Strategic Cropping Land Act 2011*. It also indicates areas that are currently subject to a validation application, and where a zonal criteria or cropping history decision has been made but further assessment is required to validate the land as SCL or decided non-SCL.

For further information on the strategic cropping land policy or the specific assessment requirements of land under the strategic cropping land policy, go to the website:
www.dnrm.qld.gov.au

Digital GIS data and full metadata can be obtained from
<<http://dds.information.qld.gov.au/dds/>>



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0 2 4
Kilometres
Map Projection: Universal Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 55



LEGEND

- Homesteads
- Highway
- Main Road
- Local Road
- Railway
- Watercourse (Major)
- SCL Footprint
- Property Boundary - Affected
- Project (Rail)
- Strategic Cropping Land



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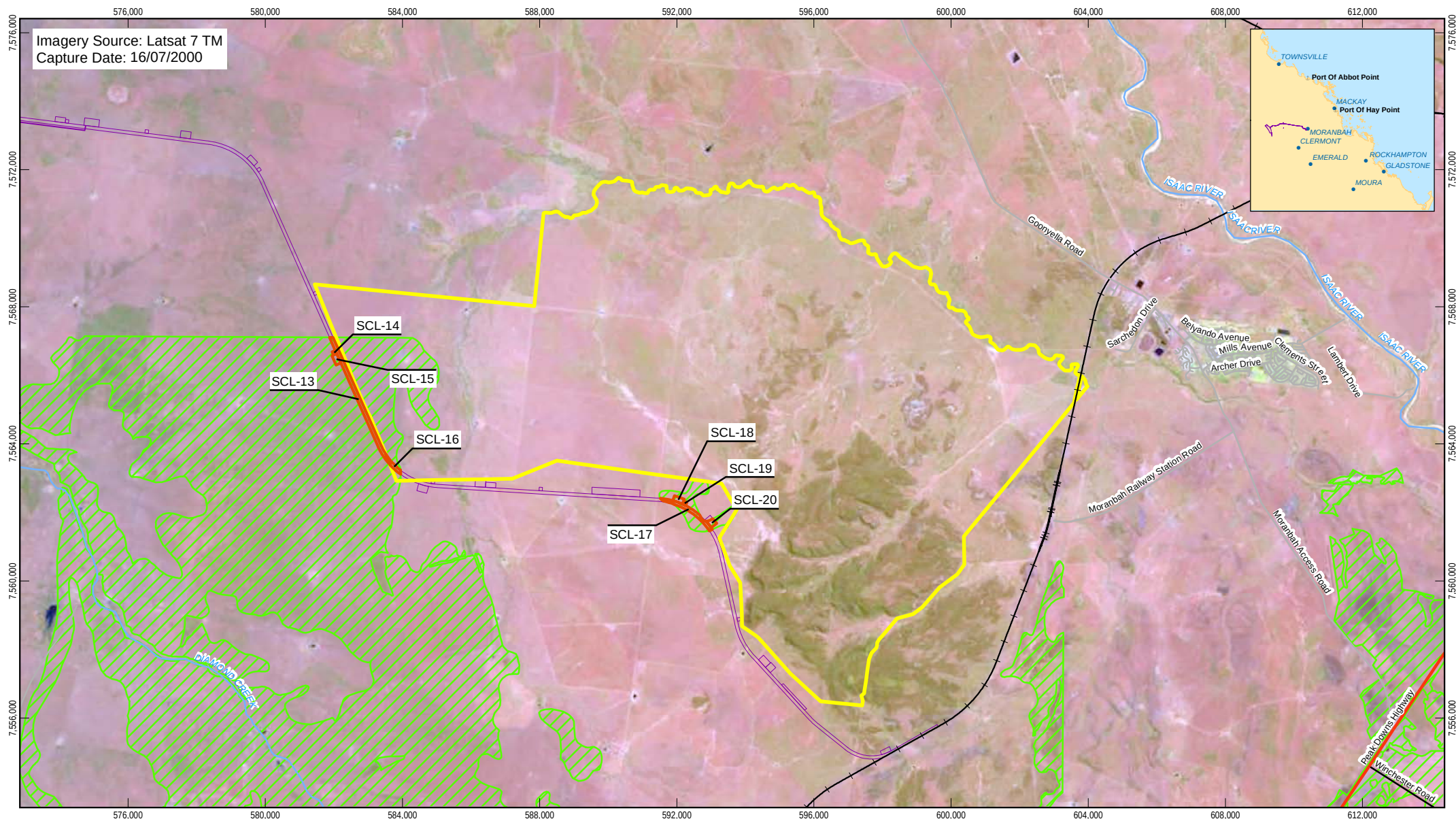
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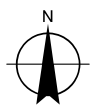
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Kilometres
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LEGEND
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 — Highway — Watercourse (Major)
 — Main Road — SCL Footprint
 — Local Road — Property Boundary - Affected
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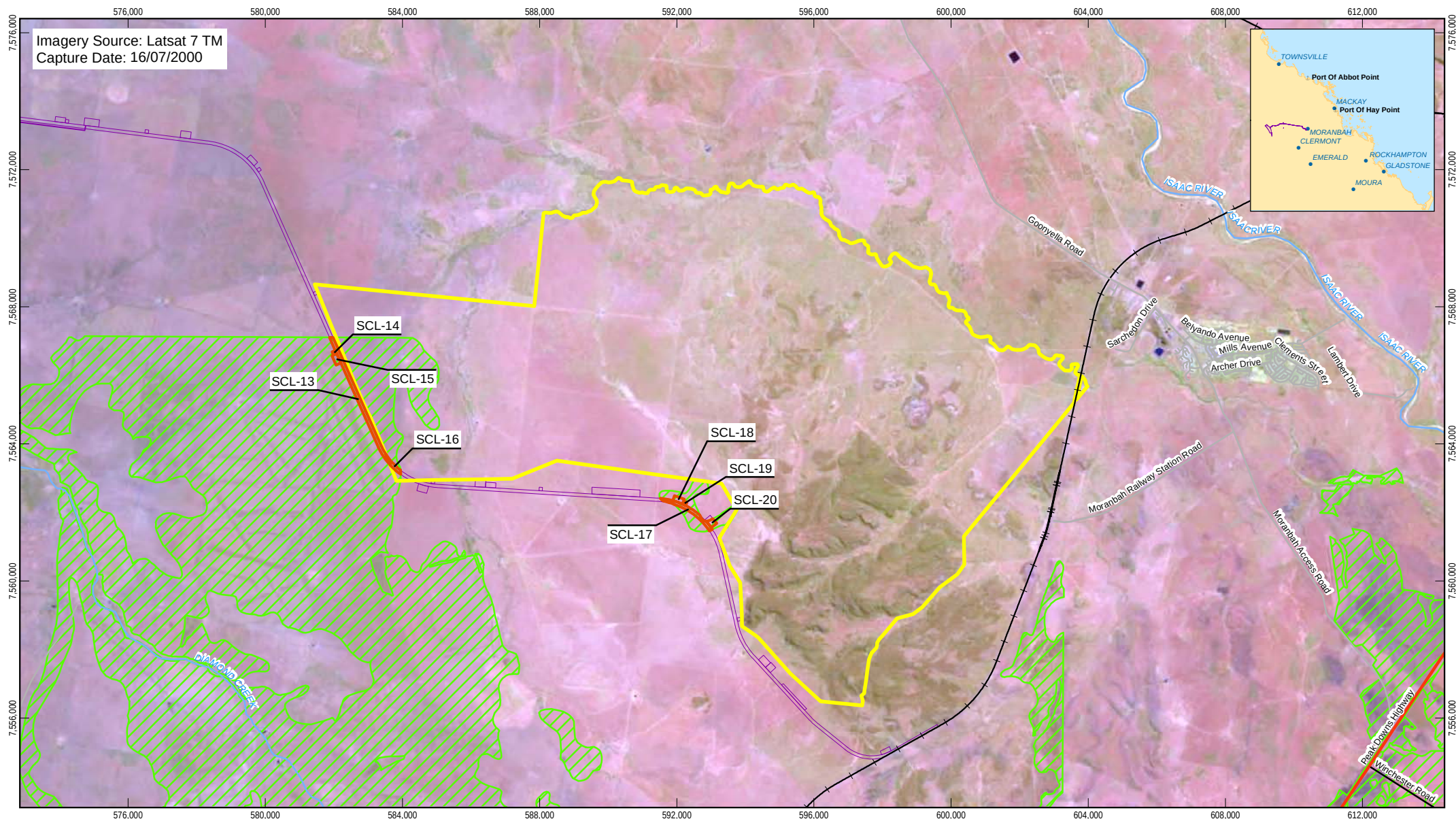
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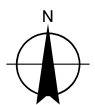
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Kilometres
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LEGEND
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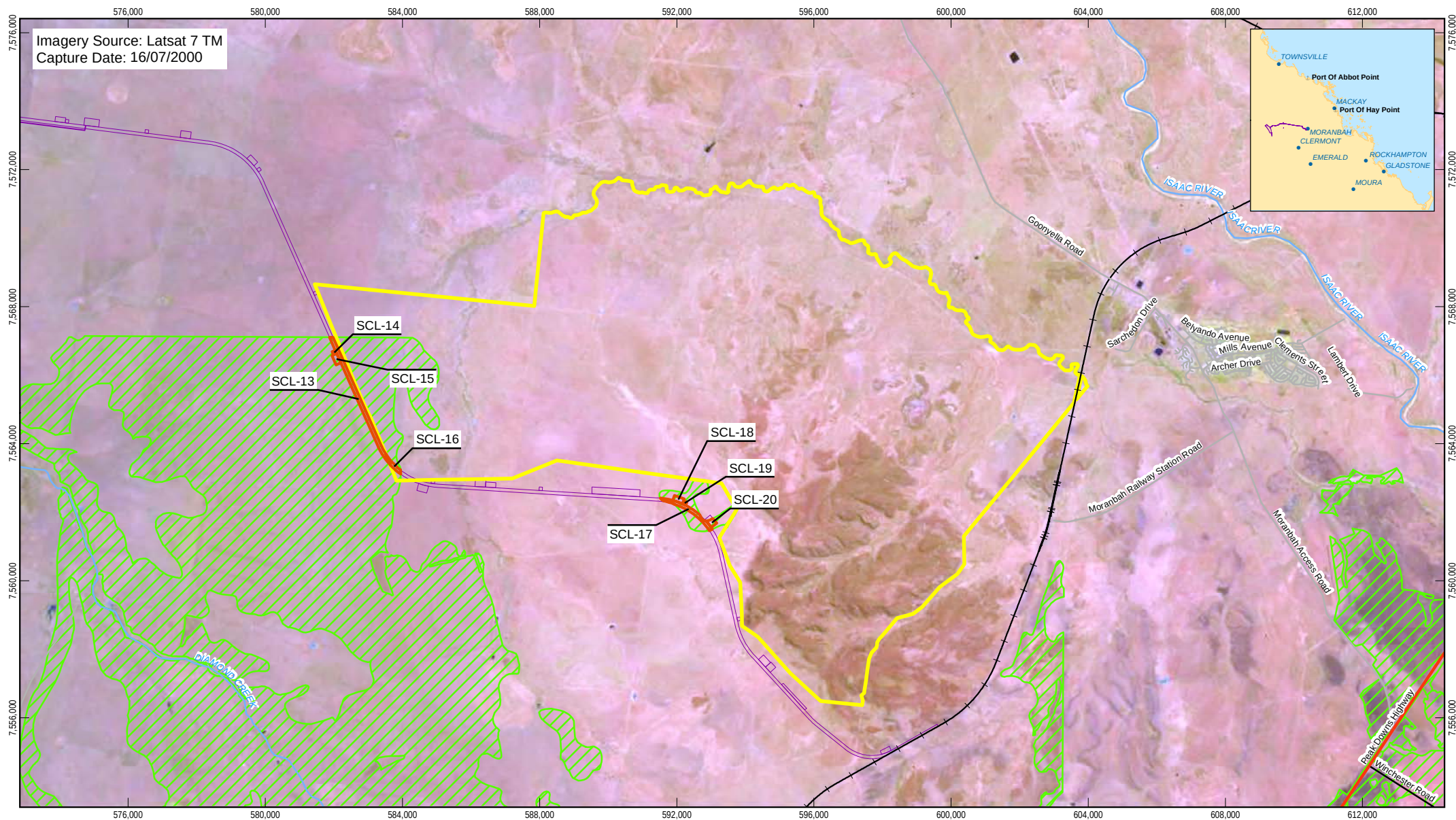
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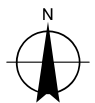
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LEGEND
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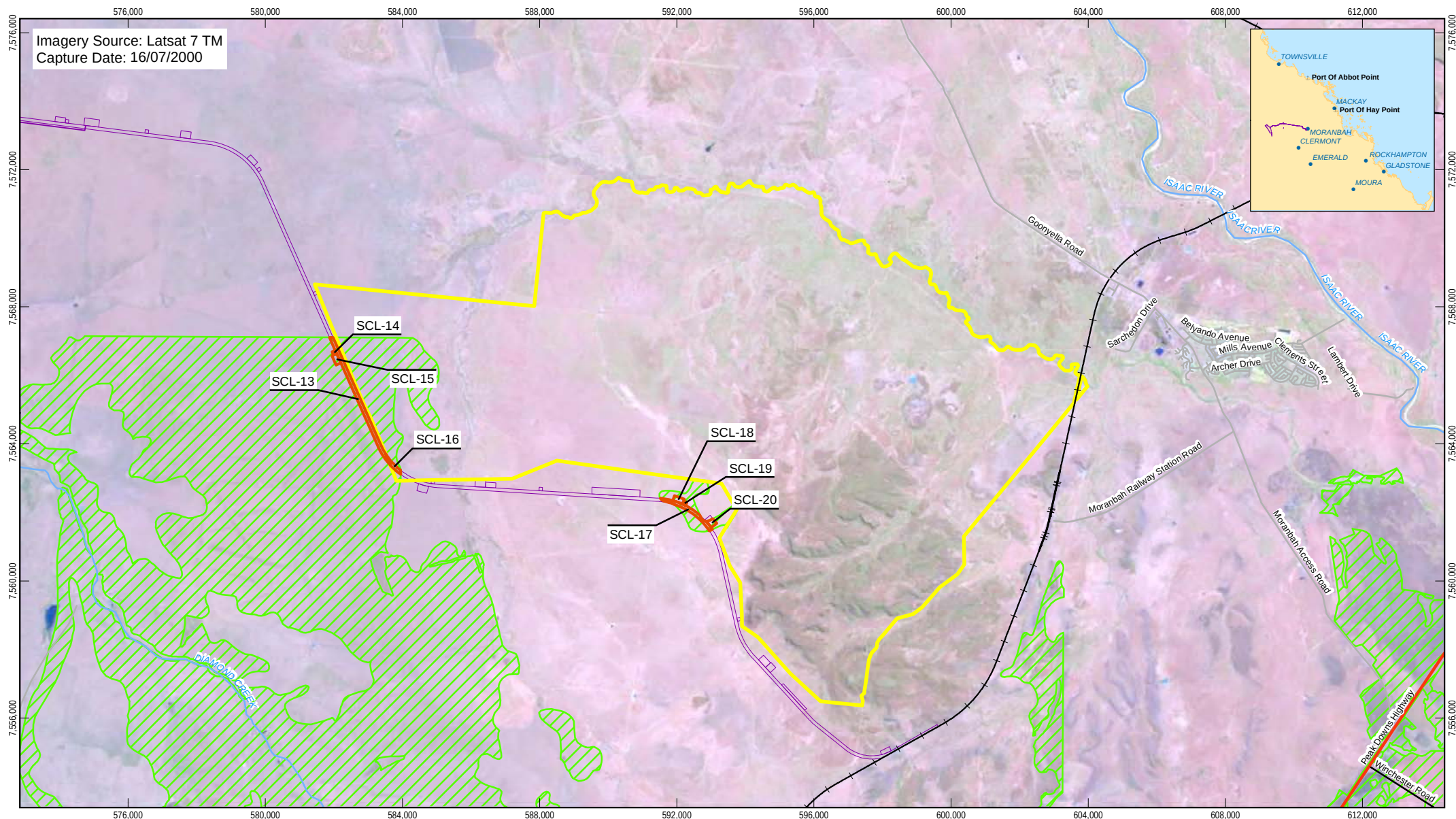
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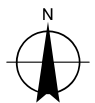
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LEGEND
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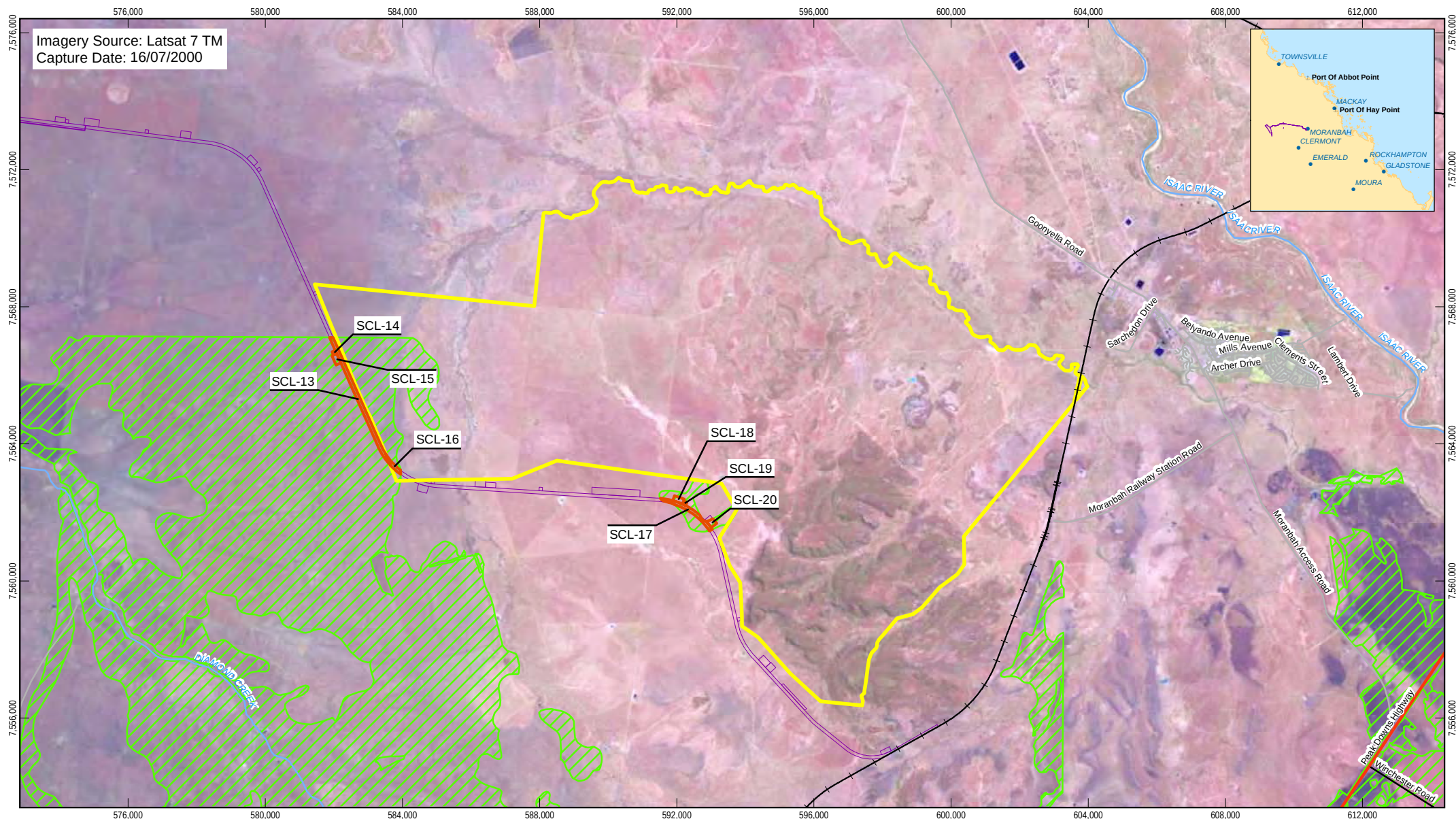
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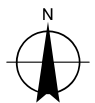
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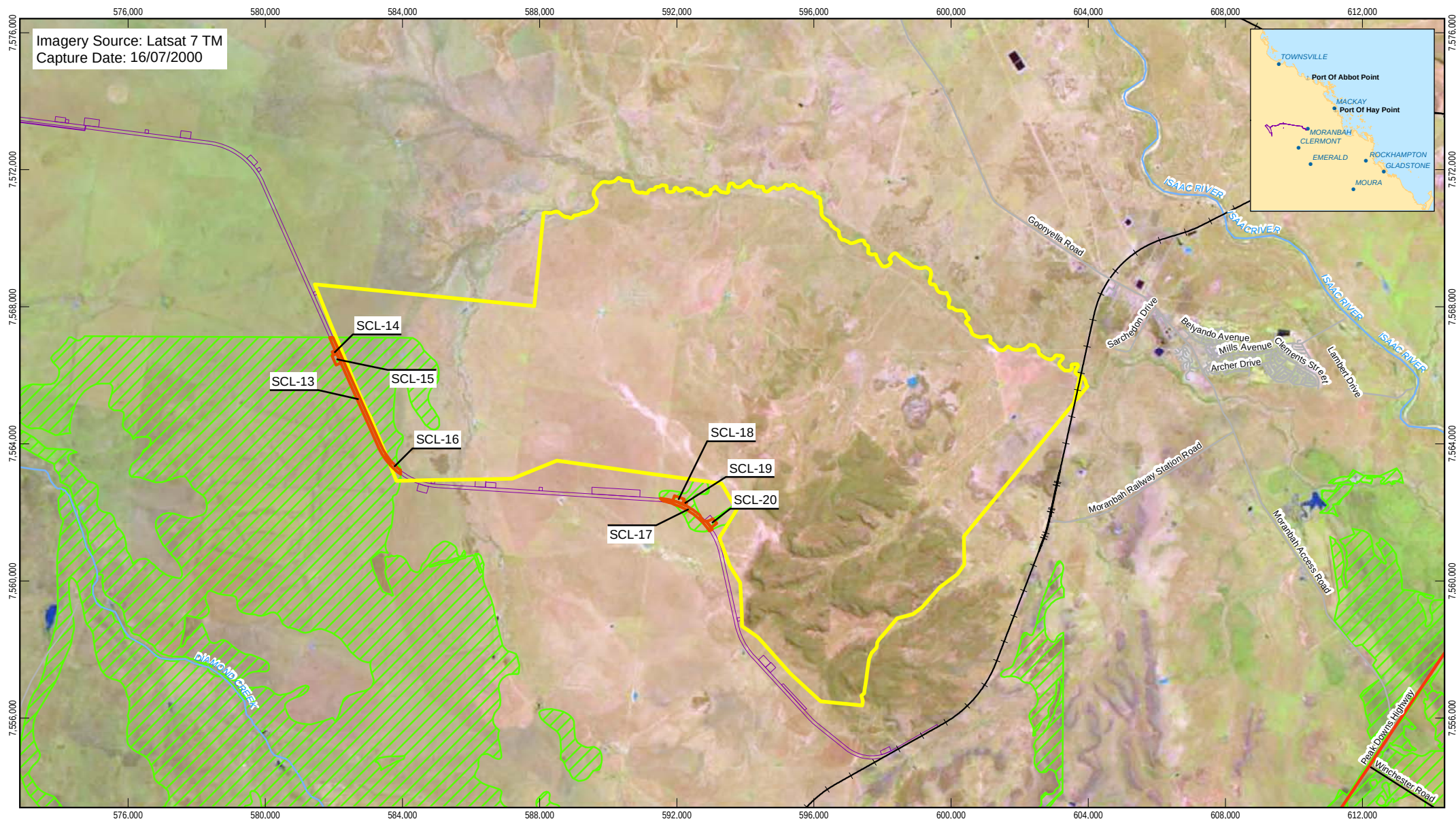
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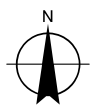
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LEGEND

- Homesteads
- Railway
- Project (Rail)
- Highway
- Watercourse (Major)
- Strategic Cropping Land
- Main Road
- SCL Footprint
- Local Road
- Property Boundary - Affected



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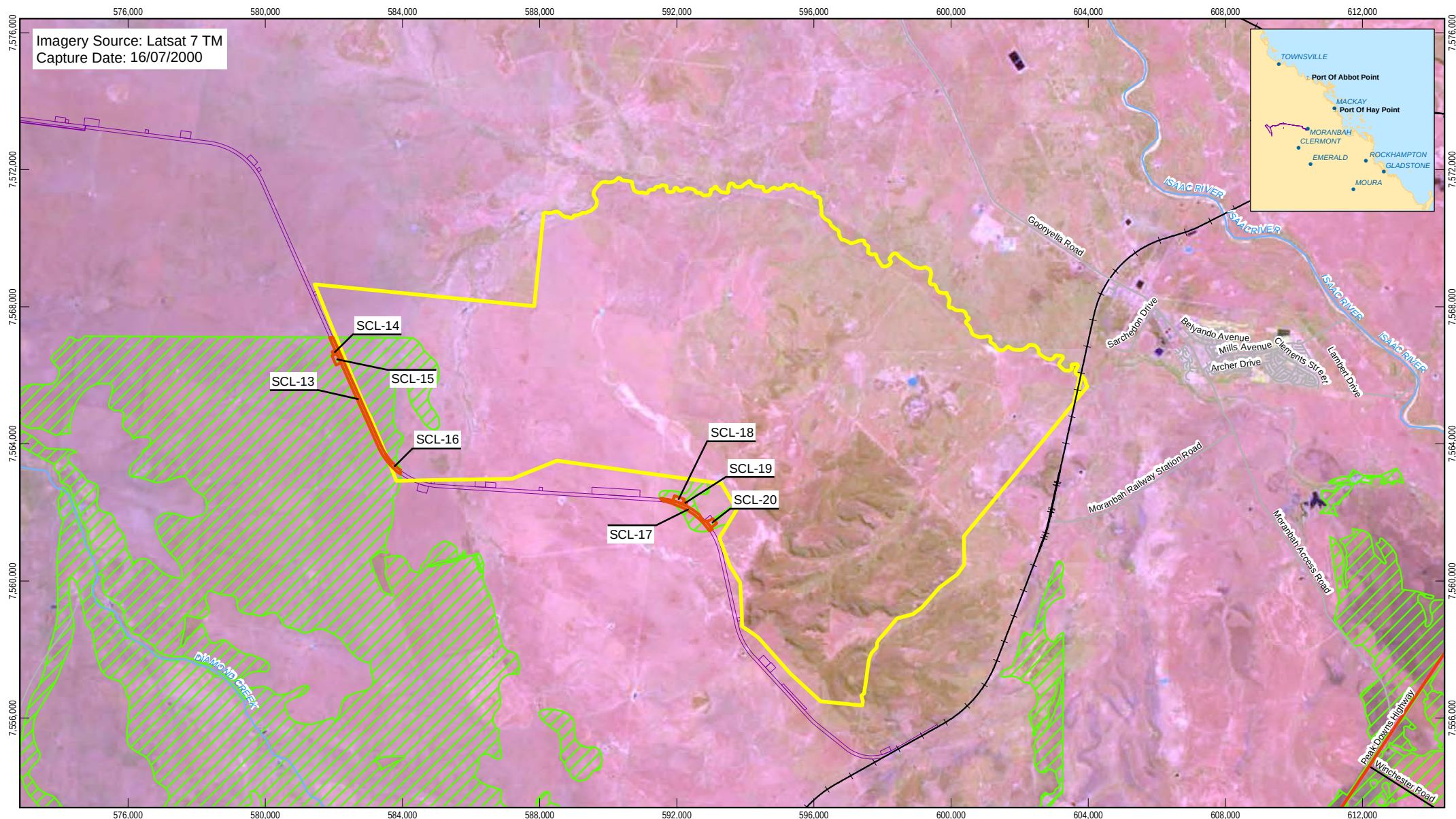
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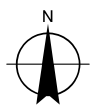
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Imagery Source: Latsat 7 TM
Capture Date: 16/07/2000



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Kilometres
Map Projection: Universal Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 55



LEGEND
 ■ Homesteads —+— Railway
 — Highway — Watercourse (Major)
 — Main Road — SCL Footprint
 — Local Road — SCL Boundary - Affected
 □ Project (Rail)
 □ Strategic Cropping Land



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Adani Mining Pty Ltd
Carmichael Coal Mine and Rail Project SEIS
**Strategic Cropping Land
Assessment - Rugby 2000**

Job Number 41-26422
Revision A
Date 10-07-2013

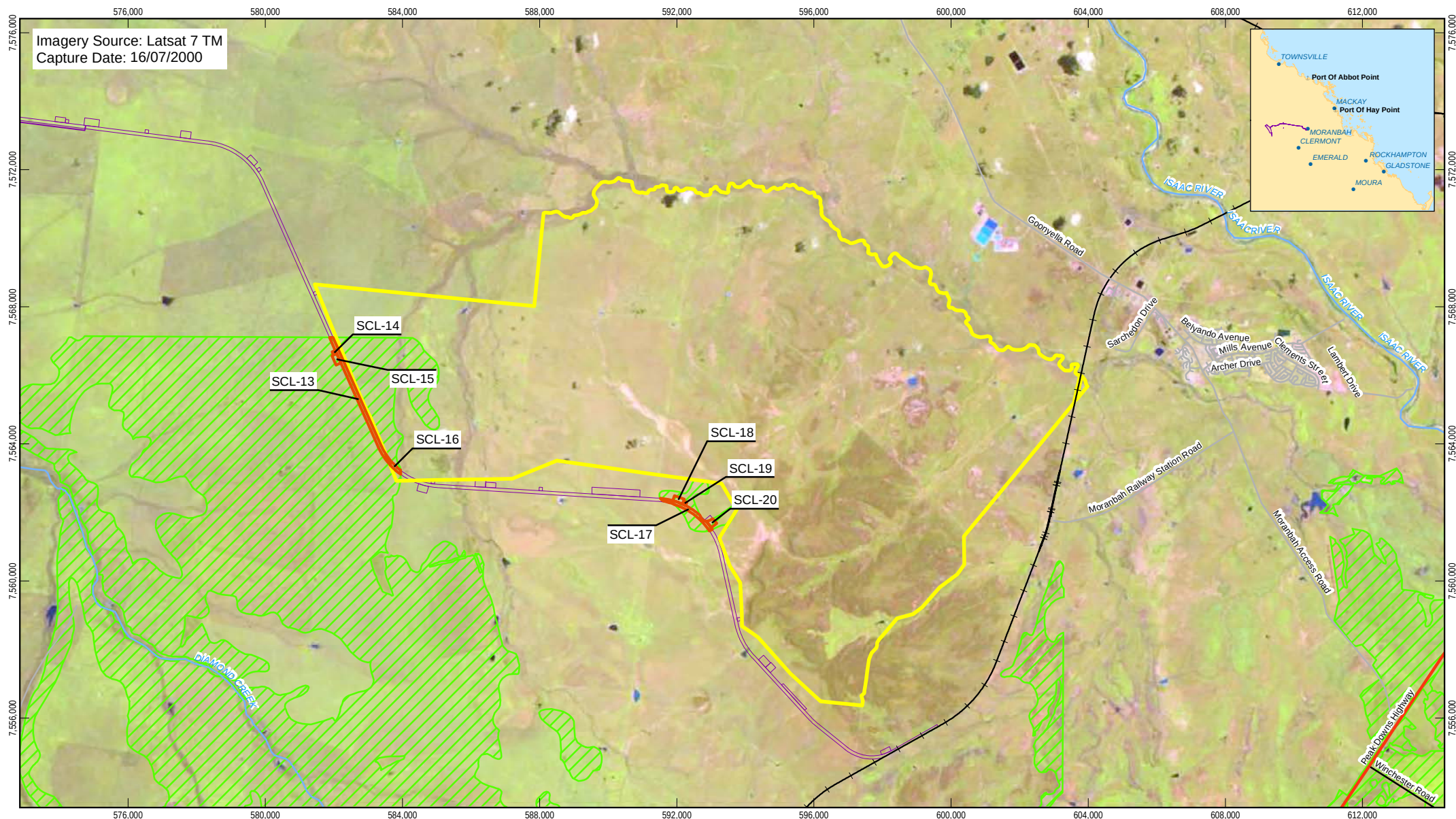
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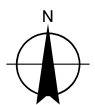
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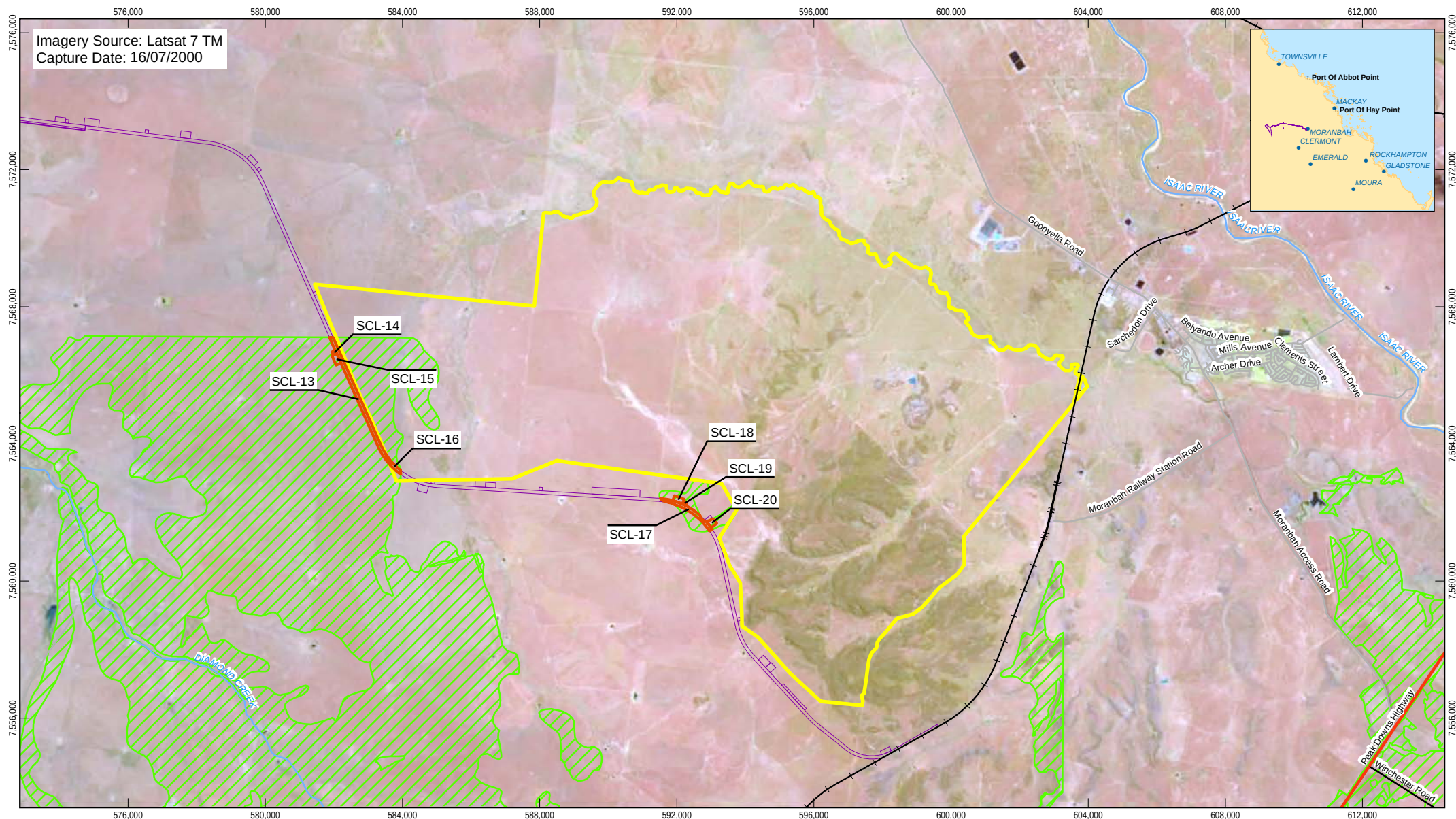
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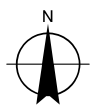
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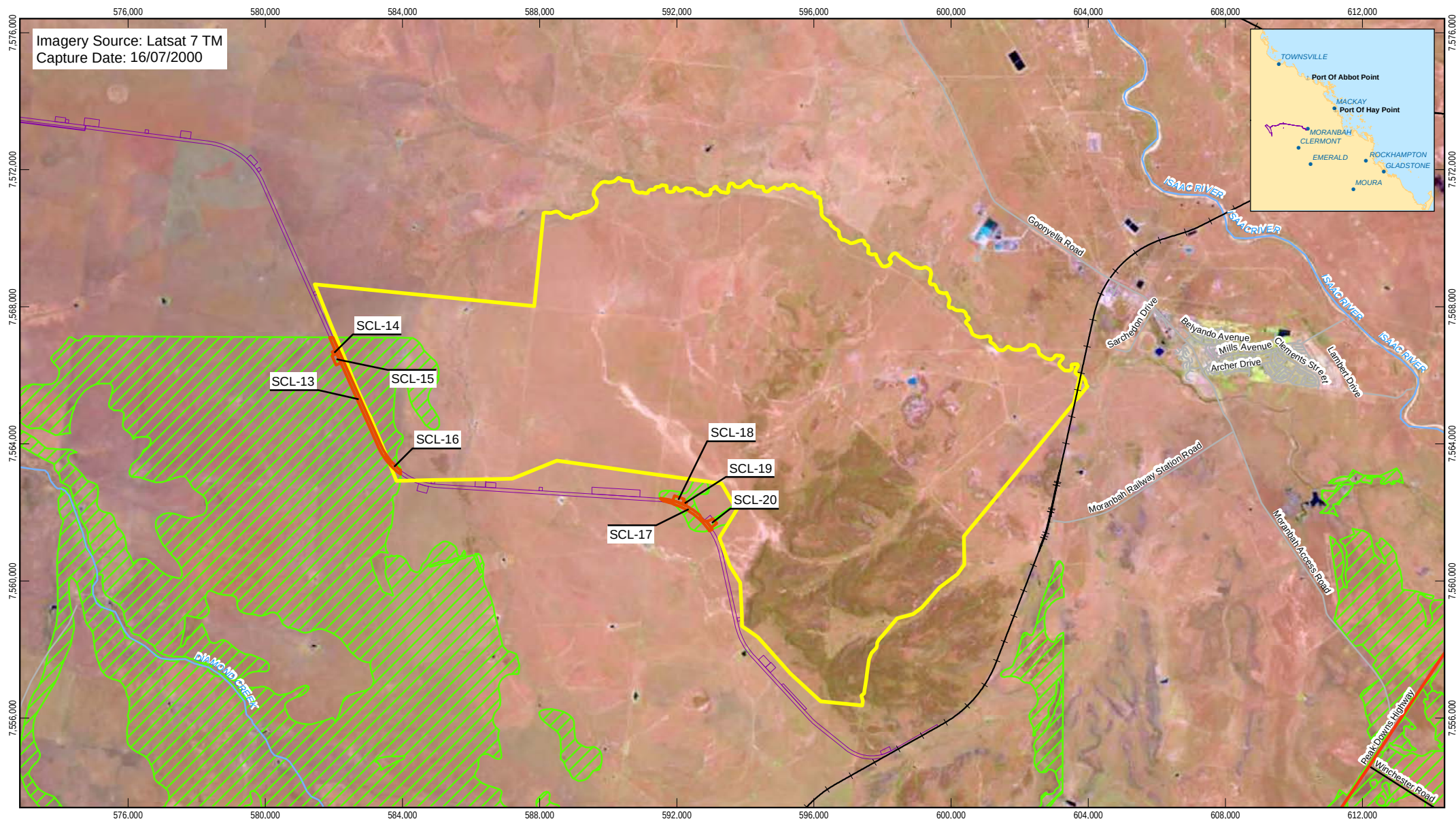
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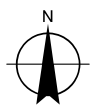
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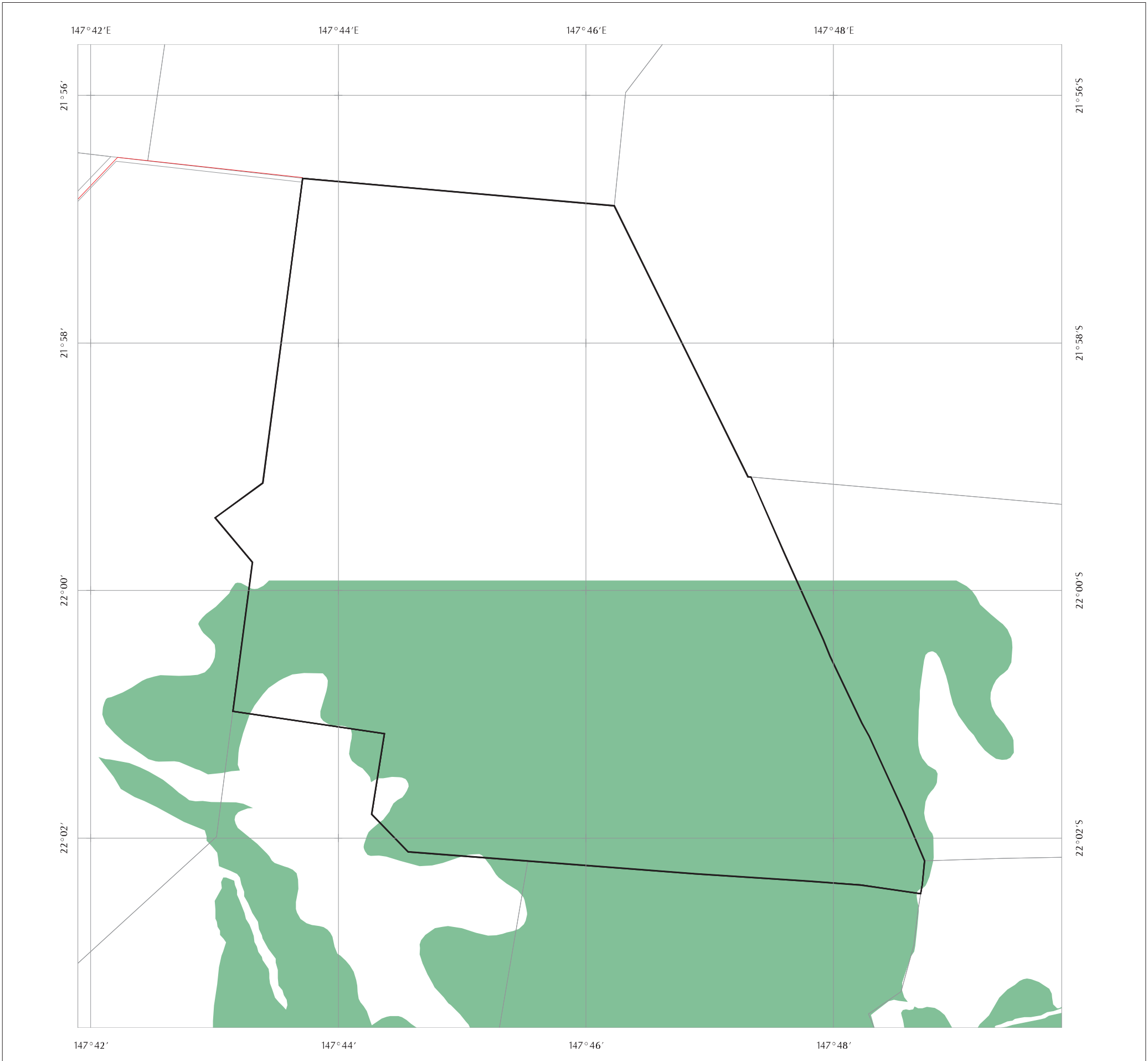
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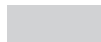
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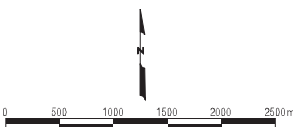
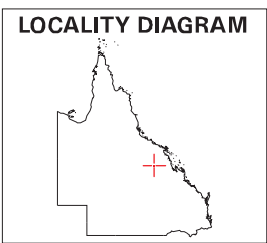


STRATEGIC CROPPING LAND TRIGGER MAP

Requested By: DAVID.DOOLAN@GHD.COM
Date: 16 Jul 13 Time: 16.38.23

Centred on Lot on Plan:
2 DC99

-  Potential strategic cropping land
-  Strategic cropping land
-  Zonal criteria validated (management area only)
-  Cropping history validated (management area only)
-  Decided non-strategic cropping land
-  Current validation applications
Application reference number(s) shown on map face
-  Protection area boundary
-  Zone boundary
-  Subject lot
-  Roads
© Pitney Bowes Software 2012
-  Cadastral line
Lot on Plan boundaries shown are provided as a locational aid only.
-  Towns



This scale bar is approximate only
Horizontal Datum: Geocentric Datum of Australia 1994 (GDA94)
This product is unprojected and is not suitable for measuring distances

This map can be used to identify land that is subject to the *Strategic Cropping Land Act 2011*.

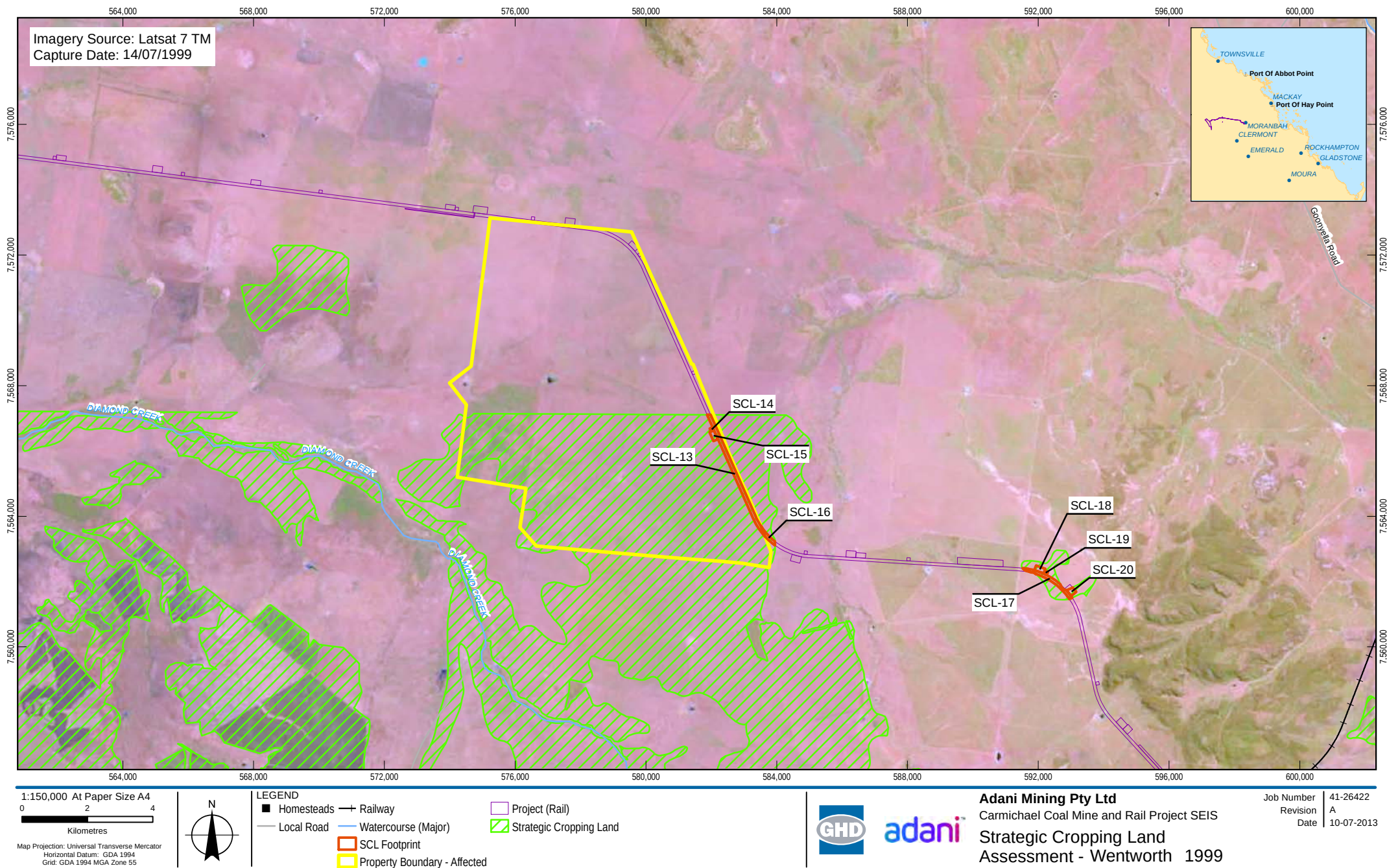
The location of potential strategic cropping land (SCL) was prepared using Class A Agricultural Land and Versatile Cropping Land data and 1999 Queensland Land Use Mapping Program (QLUMP) data identified as production from agriculture or plantations. Land is excluded as potential SCL where it is remnant vegetation, or is in a national park, state forest, timber reserve or forest reserve. Land is excluded as potential SCL where it is within the urban footprints for Far North Queensland or South East Queensland, or is in a collection of small cadastral parcels. The extent of potential SCL is limited to those areas within the five SCL zones.

The map shows land that has been validated as SCL or decided non-SCL under the *Strategic Cropping Land Act 2011*. It also indicates areas that are currently subject to a validation application, and where a zonal criteria or cropping history decision has been made but further assessment is required to validate the land as SCL or decided non-SCL.

For further information on the strategic cropping land policy or the specific assessment requirements of land under the strategic cropping land policy, go to the website:
www.dnrm.qld.gov.au

Digital GIS data and full metadata can be obtained from
<<http://dds.information.qld.gov.au/dds/>>

This Lot on Plan is located in:
(1) MANAGEMENT AREA
(2) WESTERN CROPPING ZONE
(3) CENTRAL HIGHLANDS ISAAC MITIGATION SUB-ZONE



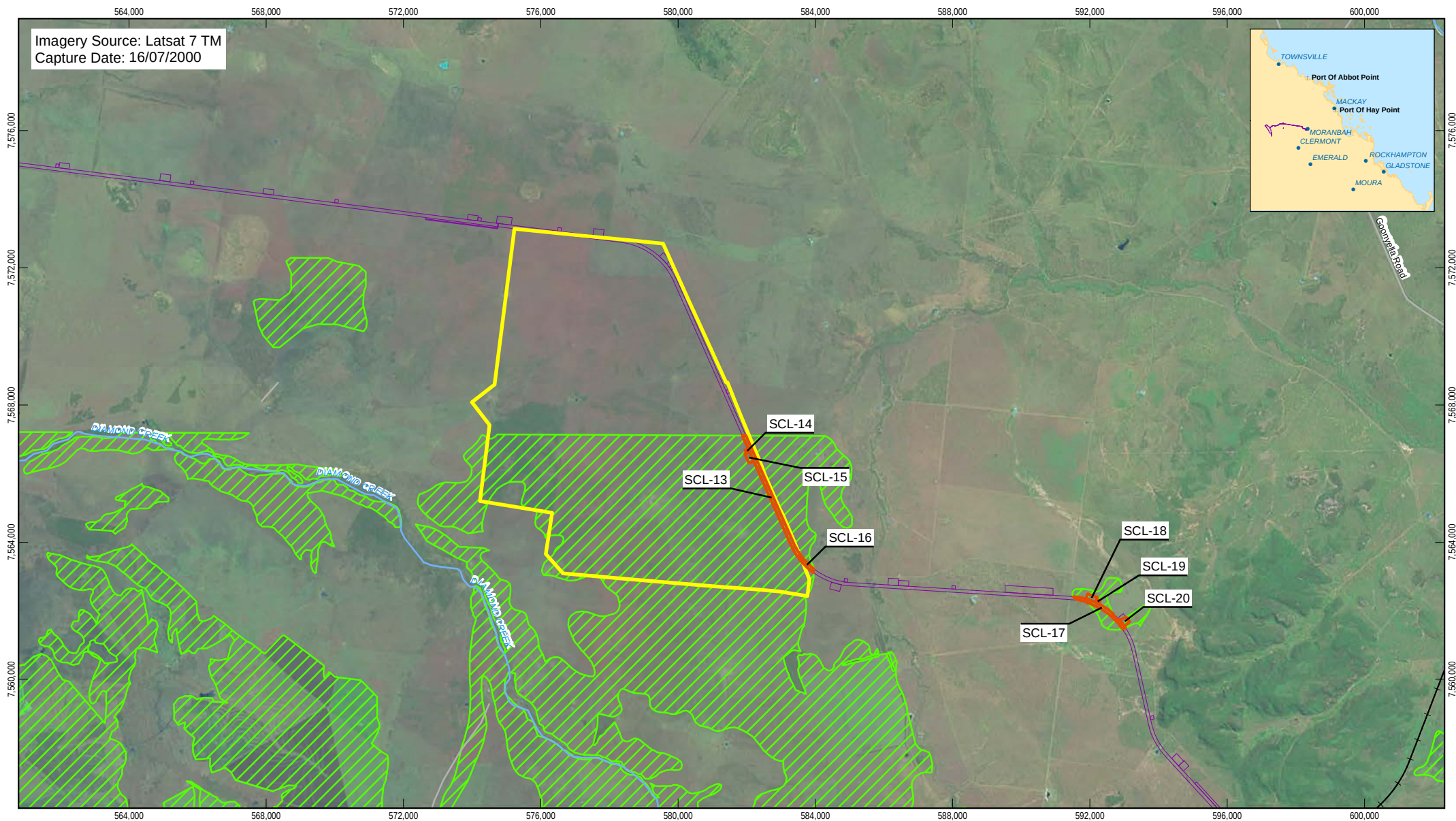
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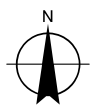
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Kilometres
Map Projection: Universal Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 55



LEGEND
■ Homesteads —+— Railway
— Local Road — Watercourse (Major)
□ Project (Rail)
□ Strategic Cropping Land
□ SCL Footprint
□ Property Boundary - Affected



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Carmichael Coal Mine and Rail Project SEIS
**Strategic Cropping Land
Assessment - Wentworth 2000**

Job Number 41-26422
Revision A
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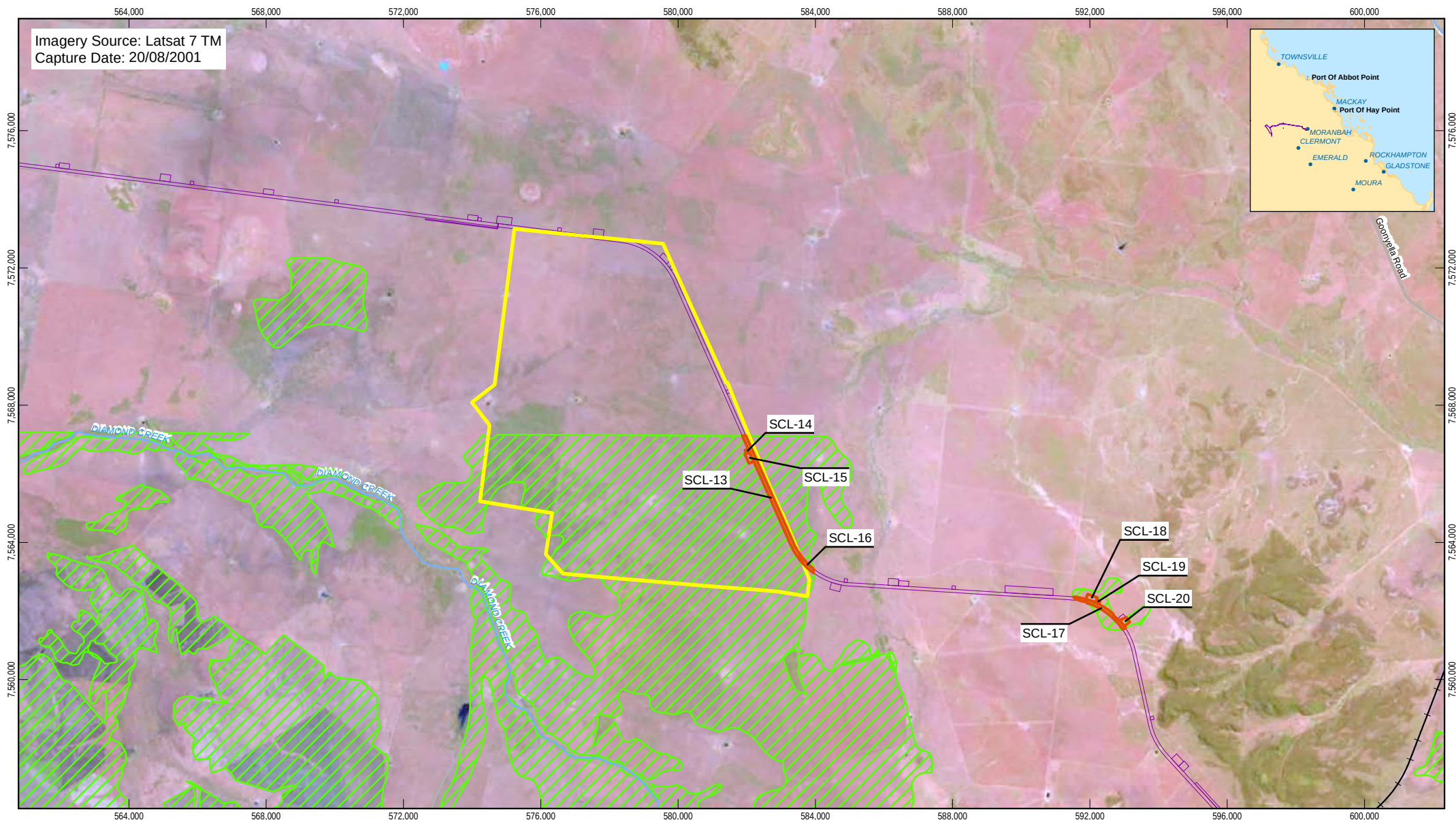
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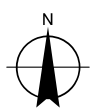
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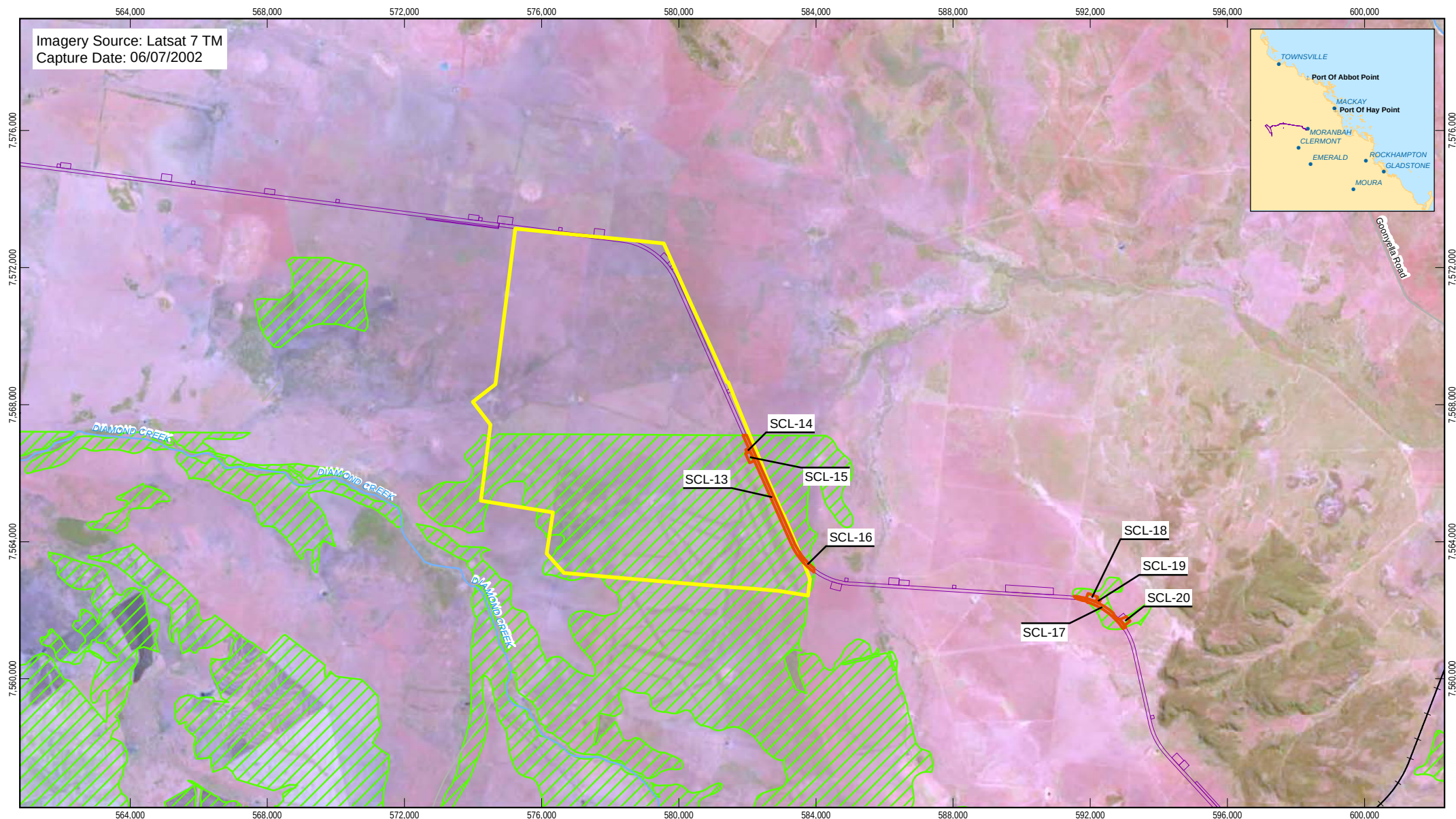
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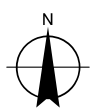
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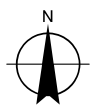
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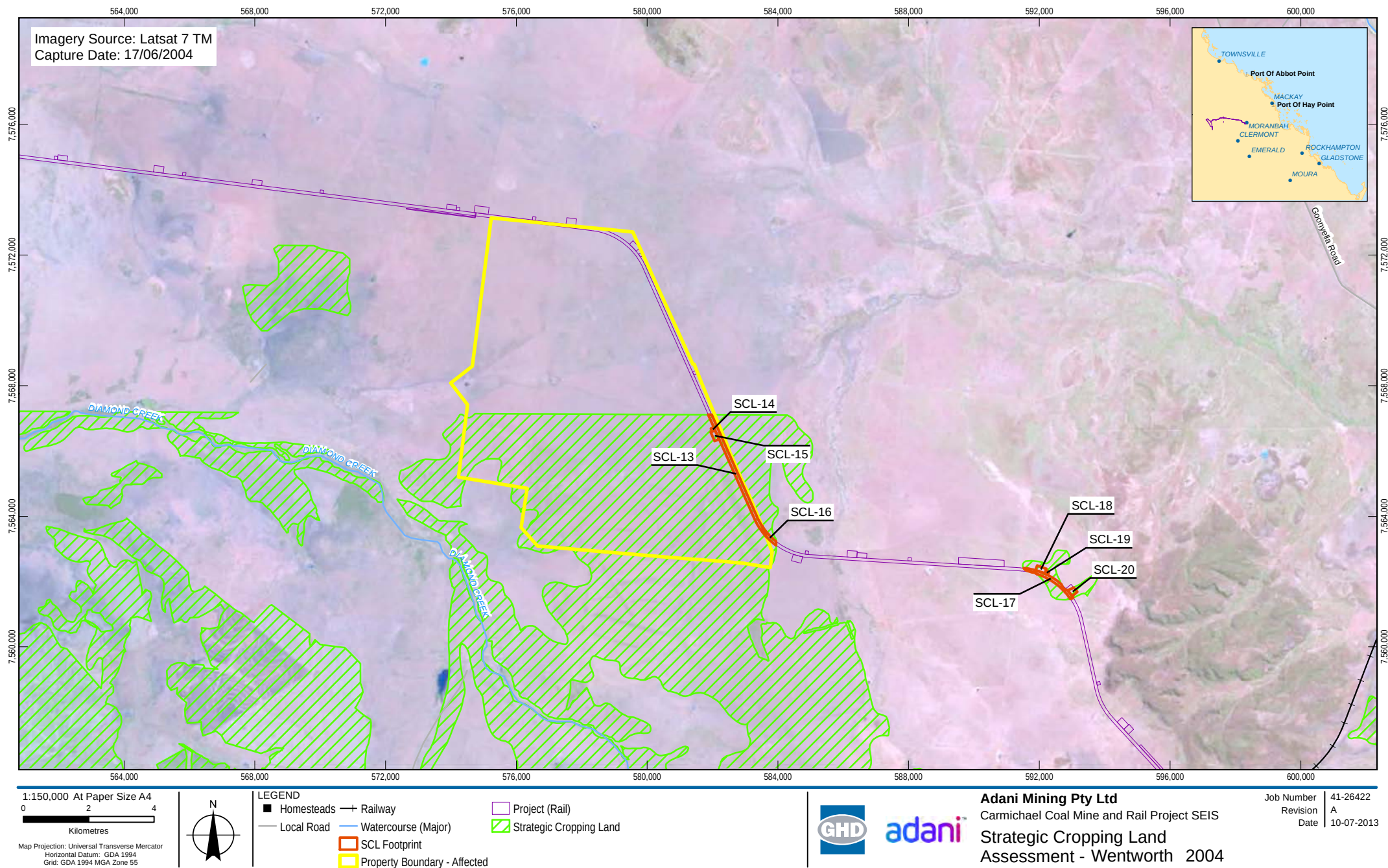
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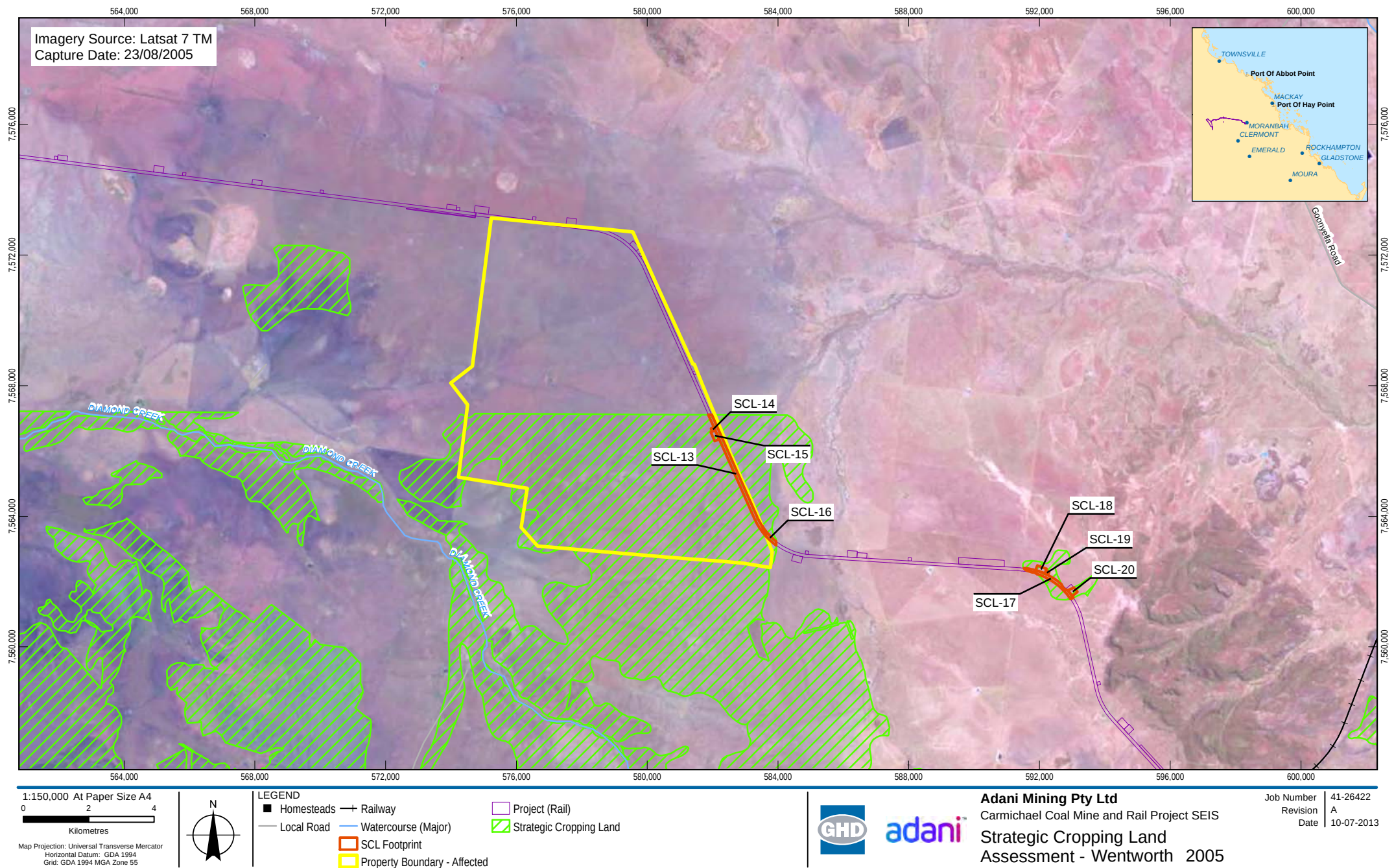


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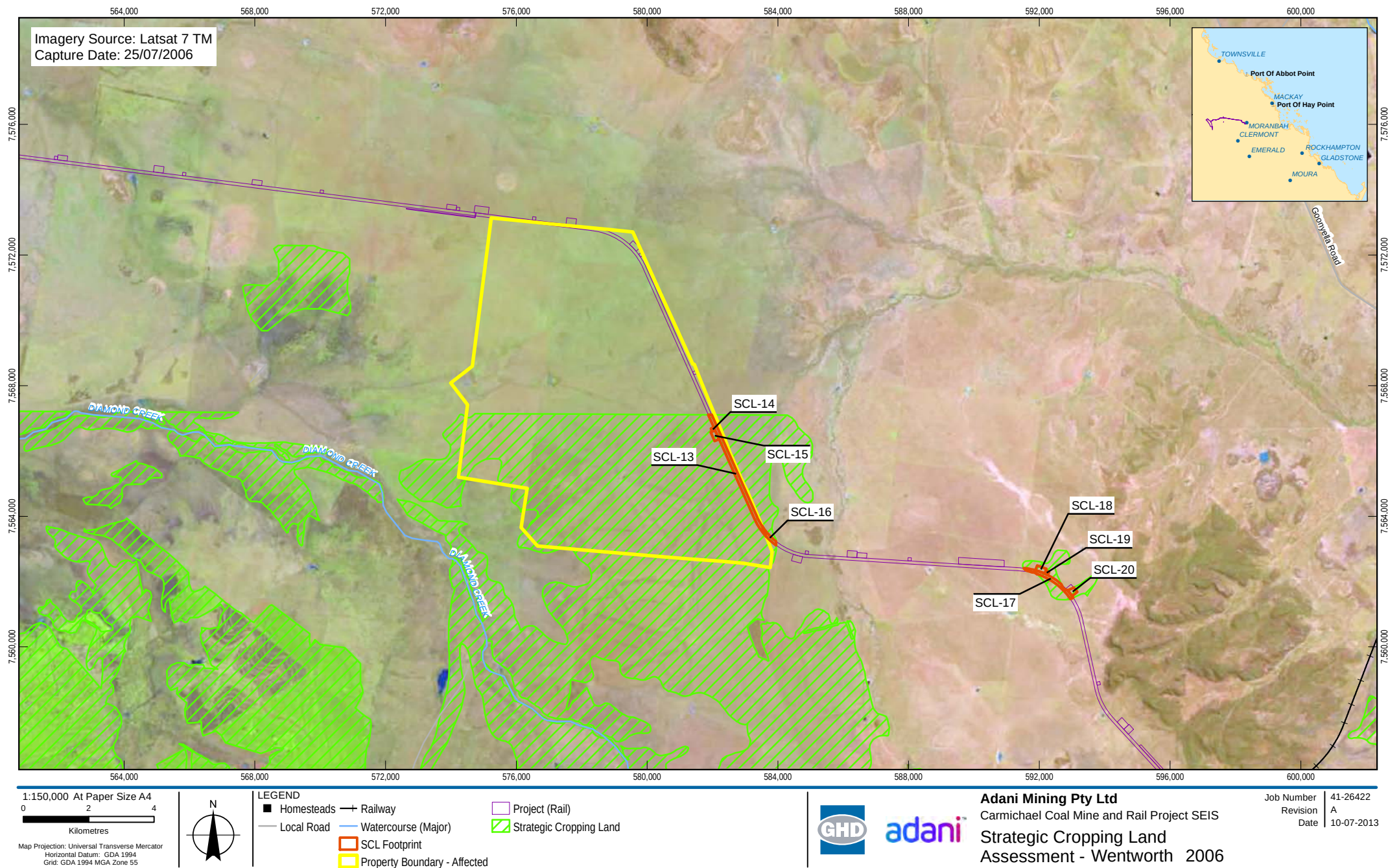
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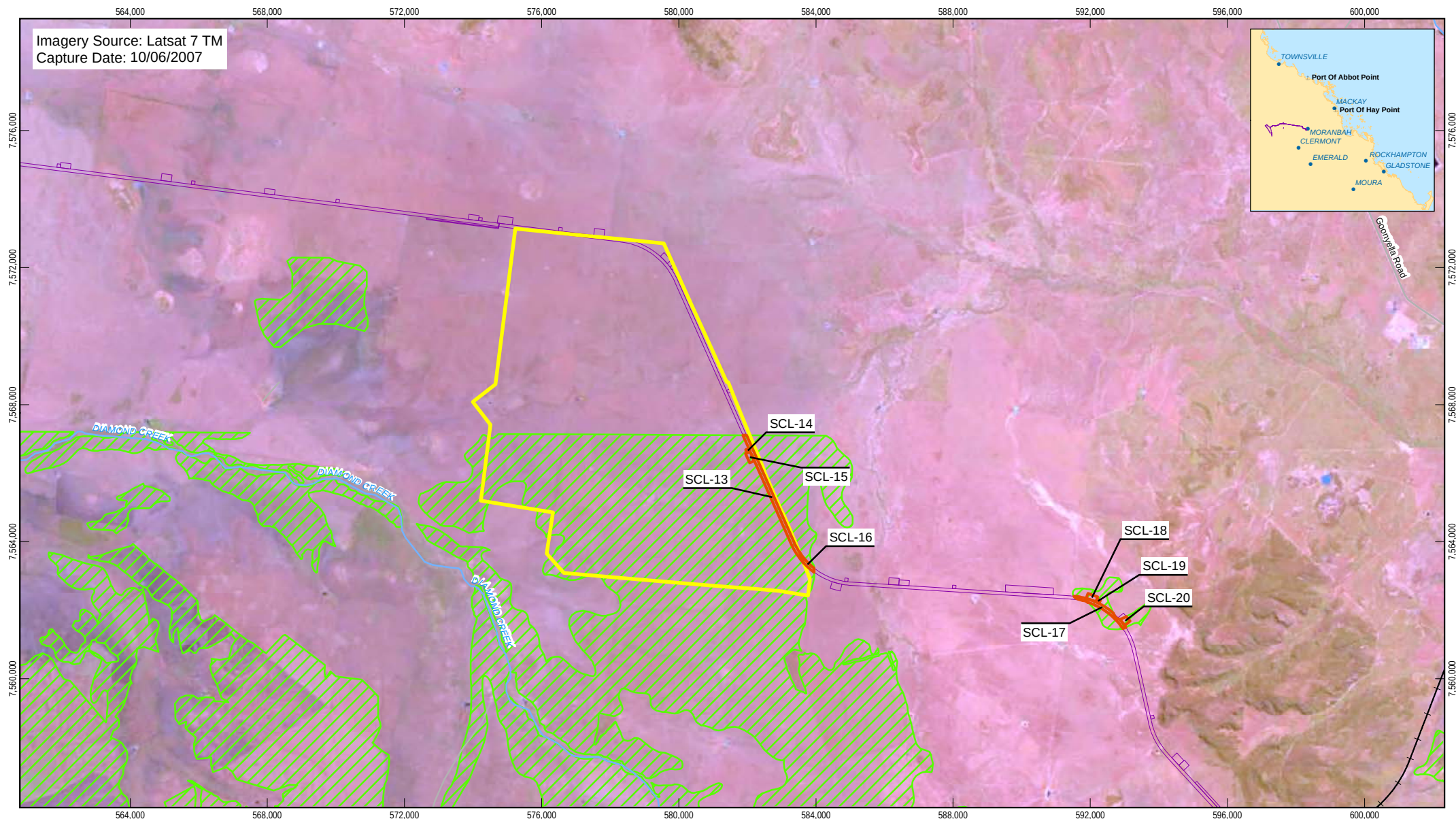


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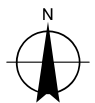
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0 2 4
Kilometres
Map Projection: Universal Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 55



LEGEND
■ Homesteads —+— Railway
— Local Road — Watercourse (Major)
□ Project (Rail)
□ SCL Footprint
□ Strategic Cropping Land
□ Property Boundary - Affected



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Adani Mining Pty Ltd
Carmichael Coal Mine and Rail Project SEIS
**Strategic Cropping Land
Assessment - Wentworth 2007**

Job Number 41-26422
Revision A
Date 10-07-2013

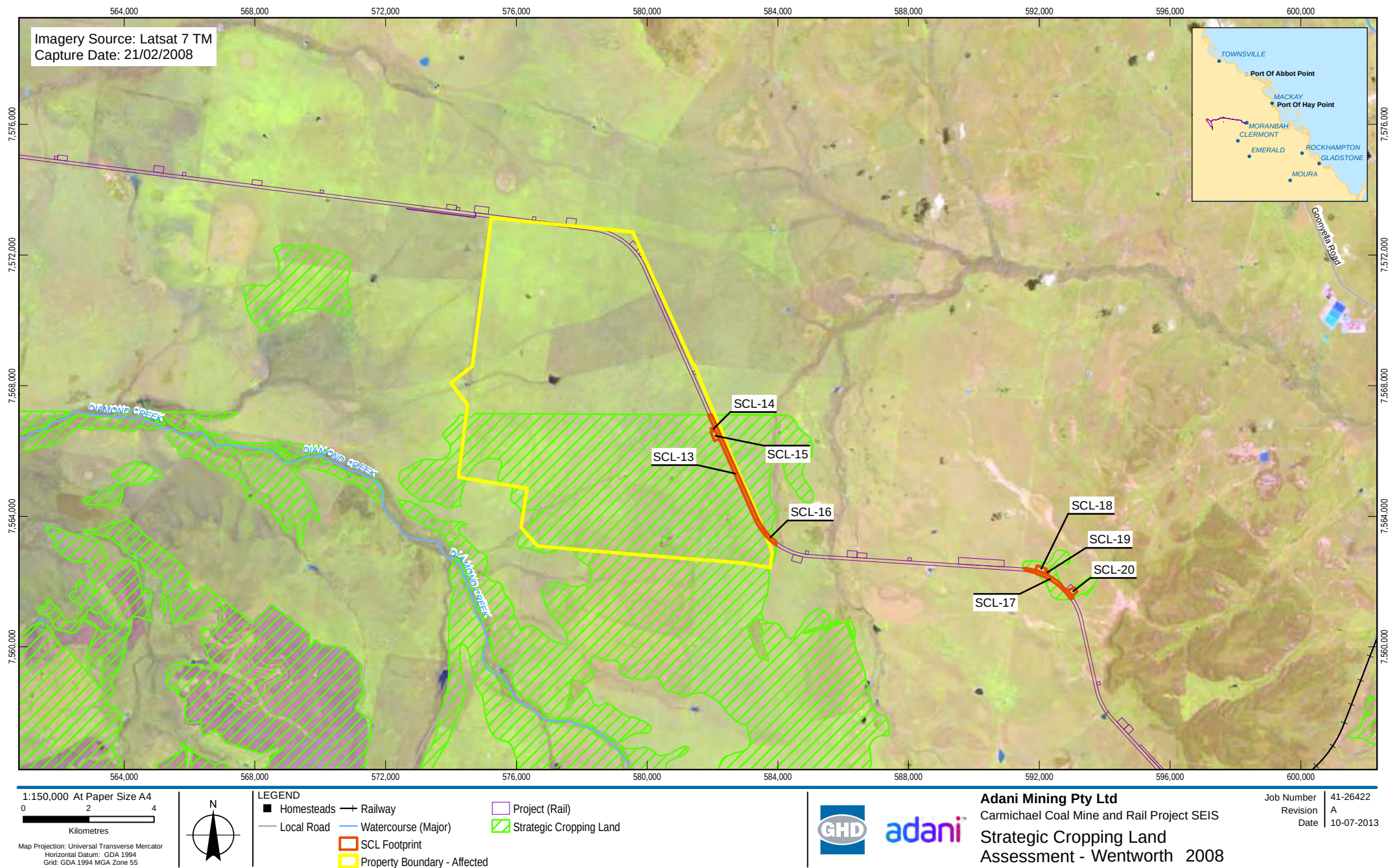
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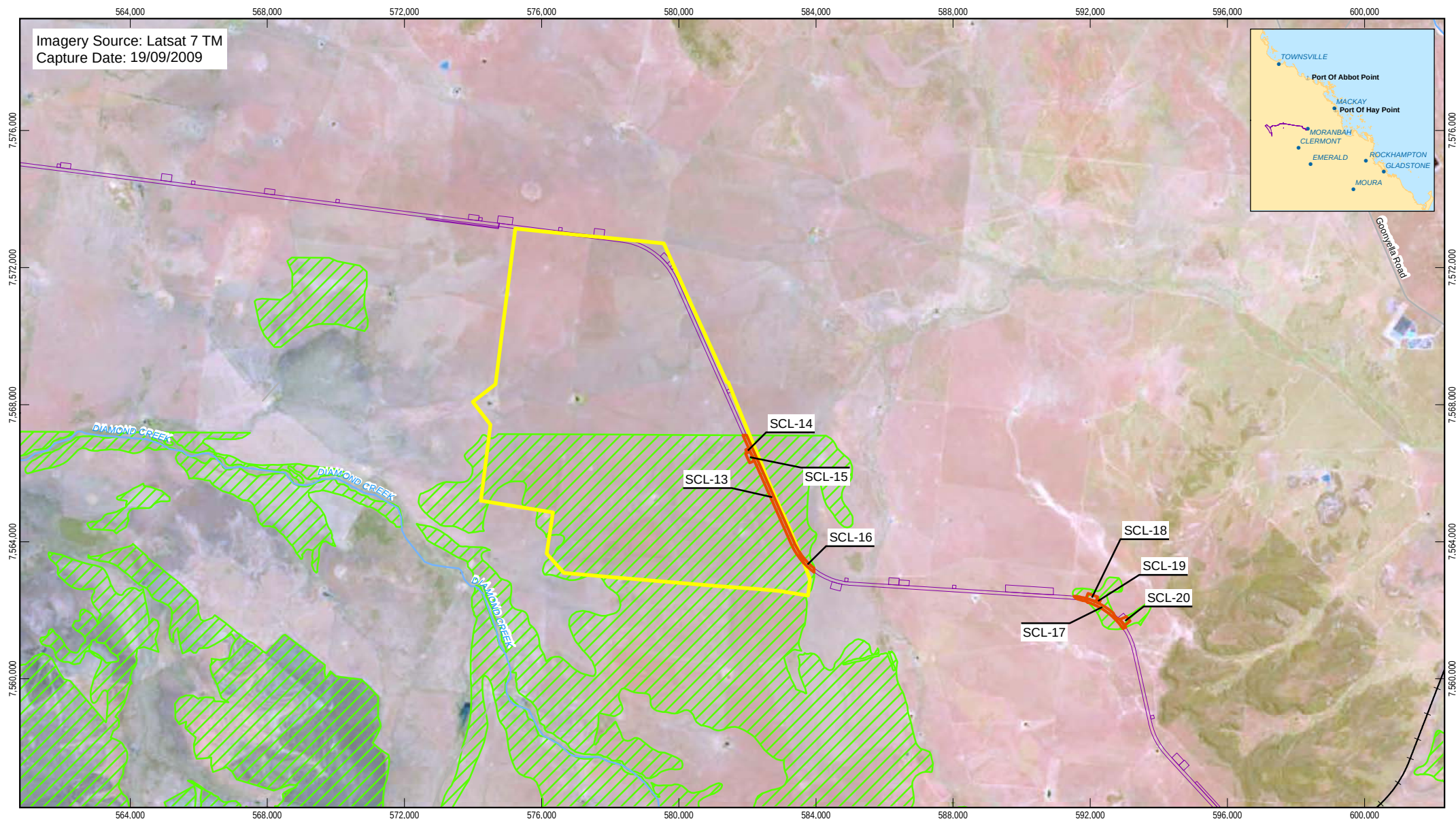
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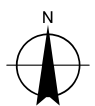
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LEGEND
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**Strategic Cropping Land
Assessment - Wentworth 2009**

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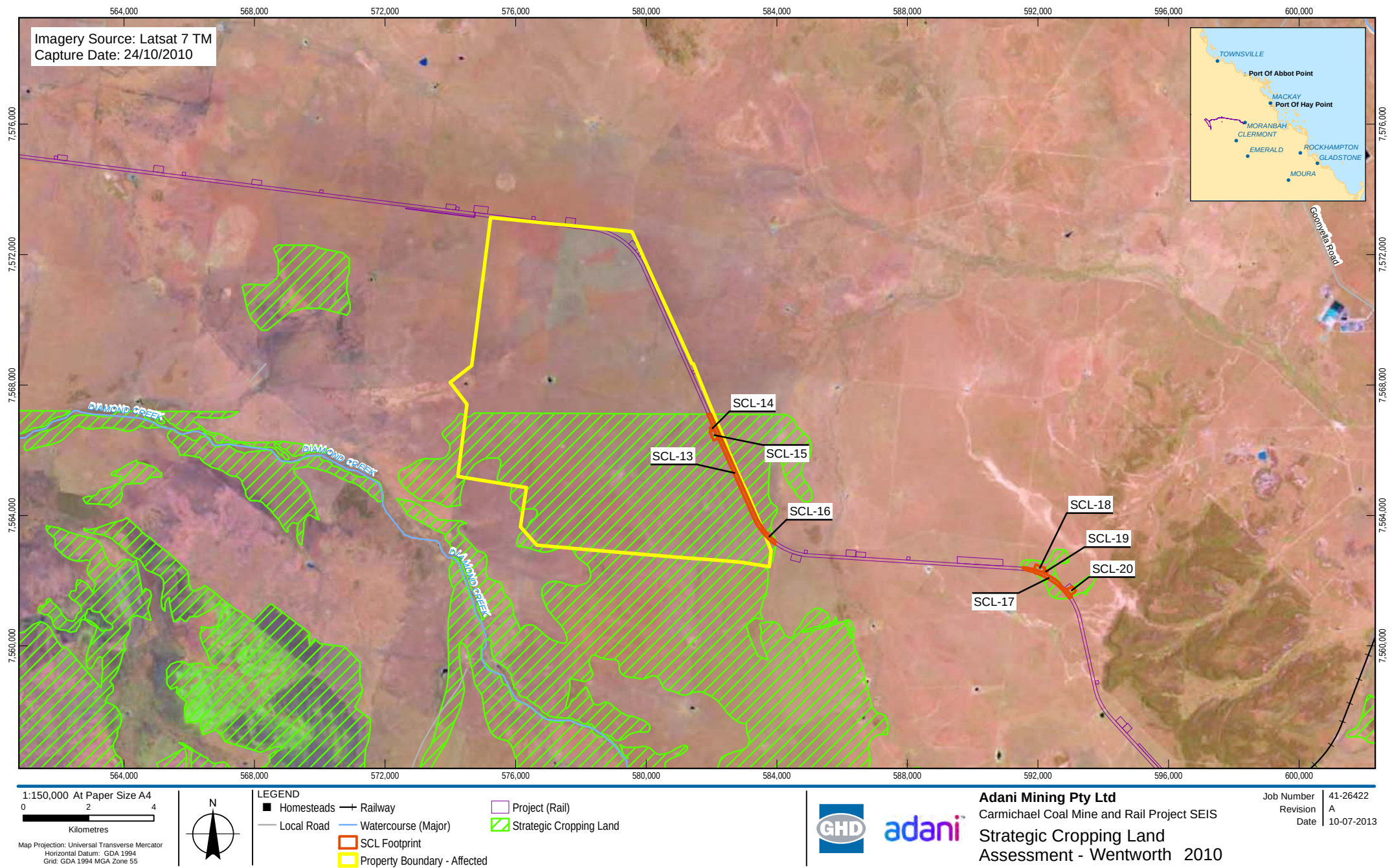
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Rev No.	Author	Reviewer		Approved for Issue		
		Name	Signature	Name	Signature	Date
A	K Shears	D Doolan	DRAFT	J Keane	DRAFT	12/07/2013
0	K Shears	D Doolan		J Keane		19/07/2013

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