Version Control

<table>
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<tr>
<th>Date</th>
<th>Version No.</th>
<th>Description Number</th>
<th>Author</th>
</tr>
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<tbody>
<tr>
<td>June 2015</td>
<td>1.0</td>
<td>Finalised LPI, OEH and T&amp;I profiles</td>
<td>Location Policy and Coordination Unit, LPI</td>
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Endorsement

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<tr>
<td>NSW Location Leadership Group</td>
<td>10 June 2015</td>
</tr>
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Introduction

The NSW Government Spatial Web Services Register documents existing NSW Government spatial web services held across multiple agencies. The requirement for authoritative, accurate and timely information is critical in the information age. Spatial web services facilitate access to this information through the elimination of previously costly and storage intensive requirements associated with spatial data and information.

This Register enables users to search the available profiles published by NSW Government agencies. This empowers the user with the ability to make informed decisions about the spatial data and information that they are able to consume.

About the Register

The NSW Government Spatial Web Services Register is intended to provide a plain English, non-technical document describing NSW Government spatial web services. It has been designed to be easy to access and use through simple descriptions about the use, features and classification of the type of spatial data and information available via the documented web services.

It aims to communicate the nature of the services offered by the NSW Government and allows the user the option of integrating them into their own applications and datasets.

Strategic drivers

Spatial data and information is a critical component of the NSW economy and is relied upon heavily for regional issues associated with environmental management, prevention of and response to natural disasters as well as economic growth. A report by Oxera, commissioned by Google, in 2013 found that spatial services generate $150 - $270 billion of revenue globally1.

The implementation of spatial data frameworks and spatial web services, such as this Register, will realise the potential of spatial data for applications beyond its current use. Consequently this will encourage innovation and entrepreneurship within the marketplace.

Underpinning the key driver for documenting spatial web services is the NSW Location Intelligence Strategy. The NSW Location Intelligence Strategy specially aims to share spatial data and information across NSW Government, industry and the community through the development and delivery of spatial web services.

Achieving location intelligence in a board range of industries is made possible through access and discovery to information, and enhanced by spatial web services.

This Register compliments the work that has been undertaken by the NSW Government through the NSW Information Management Framework and the documentation of spatial data frameworks including the NSW Foundation Spatial Data Framework.

The work undertaken has created a fundamental shift in the use and access to this critical government asset. It has been recognised that the documentation of these services and datasets is of enormous benefit to not only the NSW Government, but the wider community as well.

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The Queensland Government has seen a 500% increase in the usage of public datasets since it started its Queensland Globe less than a year ago\(^2\), similar figures are anticipated for the NSW Globe in the near future.

The NSW Government’s emphasis on digital by default and open data means that these spatial web services can be consumed into existing Open Geospatial Consortium\(^3\) (OGC) compliant spatial applications and platforms.

**Spatial web services defined**

Web services are a method of communicating across the internet using software components that are operating system and platform agnostic ensuring interoperability of machine to machine interaction. Web services are typically characterised by the following:

- Application components
- Communicate using open protocols
- Self-containment and self-describing
- Used by other applications\(^4\).

Spatial web services therefore take on these characteristics in the delivery and facilitation of access to spatial data and information across the Internet.

**Types of spatial web services**

Spatial web services can be any one of the following types:

- Data discovery: provide search and discovery to spatial data and services
- Data visualisation: provide visualisation images of the actual spatial data
- Data access: provides access to the actual spatial data\(^5\).

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\(^3\) The Open Geospatial Consortium (OGC) is an international industry consortium made up by private, public and academic bodies across the globe. This is a cooperative movement towards the development of publicly available interface standards.


Figure 1 Geospatial Web Services Types

6 Ibid 5
Benefits

Spatial Web Services provide a number of benefits to users. These have been identified as follows:

- Web services are inherently interoperable enabling users to consume NSW Government web services outside private government networks, regardless of proprietary software or technology platforms\(^7\).
- Web services can be used in multiple instances by various customers at any one time, e.g. direct use, mashups, mobile apps, GIS software\(^8\).
- Deployment of web services can be accessed using standard Internet technologies, allowing NSW Government agencies to distribute data quickly and easily\(^9\).
- Time savings through the provision of real time data delivery through live feeds and access to up to date spatial data and information enabling users to access and exploit a wide variety of spatial data on demand.
- Reduction in spatial data maintenance cost through the removal of storage and hosting requirements, ensuring web service providers can focus on maintaining and providing only the data they are responsible for.
- Encourages innovation and entrepreneurship by breaking down previous barriers to access via openly available streams of accurate, authoritative and timely spatial data and information.
- Substantial cost savings to the provider and the user of spatial web services through availability of services for use on existing platforms, hence not requiring the investment in more or later technology by the user.
- Enhanced analytics through the ability to provide linked data enabling the ability to connect data to other pieces of data, contextualising and adding value to the information that already exists\(^10\).

There are many benefits to be realised by releasing and documenting NSW Government Spatial Web Services in a register, this includes:

- Improved access and awareness of spatial web services through a non-technical description of the services available.
- A single inventory of all NSW Government spatial web services in one location, prompting minimum standards of the data specifications to be maintained.
- Alignment with the *NSW 2021 Plan* Goals 31 and 32 by providing access to spatial web services the NSW Government is improving its transparency through the release of data and information while providing the public with insight and involvement in decision making processes.

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\(^8\) Ibid 7

\(^9\) Ibid 7

Users

The Register is aimed at a wide range of users including federal, state, local government agencies as well as the academic, private and individual users.

Spatial web services

NSW Government is a spatial data and information rich entity. A number of agencies currently make available their spatial data and information via spatial web services. It is the intention of this Register to document such services.

The NSW Foundation Spatial Data Framework documented and defined the fundamental spatial data underpinning all other spatial data and information. This spatial data and information is now available as spatial web services and includes:

- NSW Imagery
- NSW Base Map
- NSW Points of Interest
- NSW Administrative Boundaries
- NSW Imagery Date
- NSW Address Location Service.

NSW Trade and Investment spatial web services and Office of Environment and Heritage spatial web services are similarly documented in this Register.

This Register is in no way restricted to just Foundation Spatial Data web services. It is expected that this Register will grow over time as more NSW Government agencies open their spatial web services to a wider audience beyond internal use only.
Spatial Web Services terminology

Spatial web services tend to be jargonistic and steeped in a range of terminology the following table seeks to clarify a number of terms that will appear throughout the Register.

<table>
<thead>
<tr>
<th>Term</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>XML</td>
<td>Extensible Markup Language (XML) is a W3C (World Wide Web Consortium) specification defining a meta language for describing data. It is both human and machine readable. Forms the basis for all modern web services, which use XML-based technologies to describe their interfaces and to encode their messages.</td>
</tr>
<tr>
<td>WSDL</td>
<td>Web Service Definition Language (WSDL) is an XML based format for describing web services. Acts as the initial web services interface. Through the WSDL, one can discover where a service can be accessed, the operations that service performs, the communication protocols the service supports and the correct format for sending messages to the service.</td>
</tr>
<tr>
<td>SOAP</td>
<td>Simple Object Access Protocol (SOAP) is an XML based protocol from the W3C for exchanging data over HTTP. It is used for the exchange of structured information in the implementation of web services.</td>
</tr>
<tr>
<td>UDDI</td>
<td>Universal Description Discovery and Integration (UDDI) is a directory service where businesses can register and search for web services.</td>
</tr>
<tr>
<td>REST</td>
<td>Representational State Transfer (REST) is a simpler alternative to SOAP and WSDL. It is a design pattern used as a set of guidelines for creating web services allow anything connected to a network to communicate with one another via a HTTP.</td>
</tr>
<tr>
<td>WMS</td>
<td>Web Map Service (WMS) is a standard protocol for serving georeferenced map images over the internet that are generated by a map server using data from a GIS Database.</td>
</tr>
<tr>
<td>WFS</td>
<td>Web Feature Service (WFS) provides an interface that allows requests for geographical features across the web using platform independent calls.</td>
</tr>
<tr>
<td>WCS</td>
<td>Web Coverage Service (WCS) provides coverage data in forms that are useful for users to use within models and other analytical purposes. It allows users to choose portions of a server’s information holdings based on spatial constraints and other query criteria.</td>
</tr>
</tbody>
</table>
The NSW Address Location Service web service allows the user to enter an address and pinpoint the location of that address.

The NSW Address Location Service is derived from the Geocoded Urban and Rural Address System (GURAS) database.

The addressing web service provides users with a unique and unambiguous identification of an address site and its location within NSW. The ability to identify the location of an address supports a wide range of business functions including: the delivery of products and services, public safety, communication and socio-economic and demographic analysis.

The GURAS database is the authoritative property addressing system for NSW.

Web service description

The NSW Address Location Service web service allows the user to enter an address and pinpoint the location of that address.

Web service uses/fitness for purpose

This web service allows users to easily integrate NSW addressing information into spatial platforms and applications.

The addressing web service provides users with a unique and unambiguous identification of an address site and its location within NSW. The ability to identify the location of an address supports a wide range of business functions including: the delivery of products and services, public safety, communication and socio-economic and demographic analysis.

The GURAS database is the authoritative property addressing system for NSW.
## Current state

This web service is current and complete.

## Update frequency

As required.

## Future development

LPI’s Comprehensive Property and Addressing System (CPAS) program is currently reviewing the legislation, data and procedure for addressing in NSW. This is to minimise the duplication of address maintenance within government, reduce return on notices and important deliveries, improve property identification, and to complete jurisdictional commitment to the Geocoded National Address File (GNAF). Accessible through LPI Spatial Data Services.

## Standards and specifications

Suitable for consumption by common GIS platforms.

## Access and licensing

Accessible through LPI Spatial Data Services.

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Save for the content in this web service supplied by third parties, the LPI logo, NSW Government logo, the Commonwealth Coat of Arms, and any material protected by a trade mark. LPI has applied the Creative Commons Attribution 3.0 Australia Licence.

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## Web service access


## Custodian agency and contact

Manager Delivery  
Business Development and Delivery  
Land and Property Information  
E: sds@lpi.nsw.gov.au

## Additional comments

## Version

1.0
The NSW Administrative Boundaries web service is a dynamic map of administrative boundaries.

Administrative Areas Boundaries depict a polygon feature class within the NSW Digital Cadastral Database maintained by LPI.

The administrative boundaries provided through this web service includes:

- Counties
- Suburbs
- Parishes
- Local Government Areas
- State Forests
- National Parks
- State Electoral Districts.

This web service allows users to easily integrate NSW Administrative Boundaries into Open Geospatial Consortium (OGC) compliant spatial platforms and applications.

Administrative Boundaries can be used to aggregate information for analytical purposes. Administrative boundary data in combination with geocoded address data, demographic information and agency specific business information underpins the ability to perform high quality spatial analysis.
**Current state**
This web service is current and complete.

**Update frequency**
As required.

**Future development**
This web service is updated when new information is captured or sourced by LPI.

**Standards and specifications**
OGC compliant and suitable for consumption by common GIS platforms.
This dataset is compliant with the NSW Foundation Spatial Data Framework and its specifications.

**Access and licensing**
Accessible through LPI Spatial Data Services.
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**Web service access**

**Custodian agency and contact**
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Business Development and Delivery
Land and Property Information
E: sds@lpi.nsw.gov.au

**Additional comments**

**Version**
1.0
The NSW Base Map web service depicts a map of NSW using layers from the Digital Topographic Database, the Geocoded Urban and Rural Addressing System database and the Digital Cadastral Database. This includes:

- roads
- points of interest
- localities
- landform
- drainage
- cultural data
- parks and forests
- property boundaries
- street address numbers.

This web service allows users to easily integrate a NSW base map into Open Geospatial Consortium (OGC) compliant spatial platforms and applications. This web service provides an ideal base map depicting a combined view of NSW Foundation Spatial Information for use within spatial applications and systems.
<table>
<thead>
<tr>
<th><strong>Current state</strong></th>
<th>This web service is current and complete.</th>
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<tbody>
<tr>
<td><strong>Update frequency</strong></td>
<td>As required.</td>
</tr>
<tr>
<td><strong>Future development</strong></td>
<td>This web service is updated when new information has been captured or sourced by LPI.</td>
</tr>
<tr>
<td><strong>Standards and specifications</strong></td>
<td>OGC compliant and suitable for consumption by common GIS platforms. This dataset is compliant with the NSW Foundation Spatial Data Framework and its specifications.</td>
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</tr>
</tbody>
</table>
| **Custodian agency and contact** | Manager Delivery  
Business Development and Delivery  
Land and Property Information  
E: sds@lpi.nsw.gov.au |
| **Additional comments**   |                                           |
| **Version**               | 1.0                                      |
NSW Cadastre web service is a dynamic map of cadastral features extracted from the NSW Digital Cadastral Database (DCDB).

It provides access to a state wide integrated database and a component of the foundation spatial datasets within the New South Wales. A ‘cadastre’ is an official register of property showing boundaries. The DCDB contains current land titles only.

The cadastral feature class layers provided through this web service includes:

- Large Rural Plan Extent
- Rural Plan Extent
- Section Extent
- Plan Extent
- Lot
- Plan Extent Labels
- Section Extent Labels
- Lot Labels

The available attributes for point queries are:

- Lot/Section/Plan string
- CadID
<table>
<thead>
<tr>
<th><strong>Web service uses/fitness for purpose</strong></th>
<th>This web service allows users to easily integrate NSW Cadastre into Open Geospatial Consortium (OGC) compliant spatial platforms and applications. The NSW Cadastral web service can be used for resource management, environmental management, land use planning, agriculture management, emergency management and recreational purposes. This service can be used to aggregate information for analytical purposes. Cadastral boundary data in combination with geo-coded address data, imagery, demographic information and agency specific business information underpins the ability to perform high quality spatial analysis.</th>
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<tbody>
<tr>
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<td>This web service is current and complete.</td>
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<tr>
<td><strong>Update frequency</strong></td>
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<td><strong>Future development</strong></td>
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<td><strong>Standards and specifications</strong></td>
<td>Open Geospatial Consortium (OGC) compliant and suitable for consumption by common GIS platforms. Available as either cache or non-cache, depending on client use or requirement.</td>
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<tr>
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<tr>
<td><strong>Custodian agency and contact</strong></td>
<td>Spatial Data Services Land and Property Information T: 02 6332 8463 E: <a href="mailto:sds@lpi.nsw.gov.au">sds@lpi.nsw.gov.au</a></td>
</tr>
<tr>
<td><strong>Version</strong></td>
<td>1.0</td>
</tr>
</tbody>
</table>
The NSW Imagery Date Web Service provides a footprint detailing imagery capture dates of:

- LandSat 2014® satellite imagery
- LPI’s standard coverage ADS sensor orthorectified imagery
- LPI’s high resolution ADS sensor town imagery
- LPI’s high resolution ADS sensor project imagery
- AAM 2012 Tweed orthorectified imagery
- AAM 2012 Sydney conurbation 10cm GSD orthorectified imagery
- Jacobs 2009 Upper Hunter AUSIMAGE® orthophoto imagery
- Jacobs 2004 Queanbeyan AUSIMAGE® orthophoto imagery
- Jacobs 2006 Yass AUSIMAGE® orthophoto imagery
- Jacobs 2002 Goulburn AUSIMAGE® orthophoto imagery
- Jacobs 2014 AUSIMAGE® orthophoto imagery.

This web service allows users to easily integrate a geographical index of the features described above. When used in conjunction with other mapping datasets, it can be an excellent referencing tool for determination of imagery coverage and approximate dates over any given area in NSW.

This service allows the user to enquire on any point in NSW and have imagery coverage and approximate dates returned.
<table>
<thead>
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| Custodian agency and contact | Manager Delivery  
Business Development and Delivery  
Land and Property Information  
E: sds@lpi.nsw.gov.au |
| Additional comments  |                                           |
| Version             | 1.0                                       |
The NSW Imagery web service provides spatial imagery covering the extent of NSW. It depicts an imagery map of NSW which includes:

- LandSat 2014® satellite imagery
- LPI's standard coverage ADS sensor orthorectified imagery
- LPI's high resolution ADS sensor town imagery
- LPI's high resolution ADS sensor project imagery
- AAM 2012 Tweed orthorectified imagery
- AAM 2012 Sydney conurbation 10cm GSD orthorectified imagery
- Jacobs 2009 Upper Hunter AUSIMAGE® orthophoto imagery
- Jacobs 2004 Queanbeyan AUSIMAGE® orthophoto imagery
- Jacobs 2006 Yass AUSIMAGE® orthophoto imagery
- Jacobs 2002 Goulburn AUSIMAGE® orthophoto imagery
- Jacobs 2014 AUSIMAGE® orthophoto imagery.

The web service will provide spatial imagery currently available from the LPI Imagery warehouse.

Web service uses/fitness for purpose

This web service allows users to easily integrate the Imagery coverage for NSW into Open Geospatial Consortium (OGC) compliant spatial platforms and applications.

Imagery provides an analytical source and contextual background for decision making and supports multiple applications including:

- mapping
- emergency services
- sustainable human and land use development.
- geosciences
- natural resource management
The NSW Imagery web service provides access to accurate, authoritative and timely aerial imagery of NSW. This service ensures users are able to consume spatial imagery without the requirement of hosting the imagery files on their own servers.

The Imagery cache is maintained by LPI and is an output of LPI's imagery collection and maintenance program.

<table>
<thead>
<tr>
<th>Current state</th>
<th>This web service is complete and current.</th>
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<tr>
<td>Custodian agency and contact</td>
<td>Manager Delivery Business Development and Delivery Land and Property Information E: <a href="mailto:sds@lpi.nsw.gov.au">sds@lpi.nsw.gov.au</a></td>
</tr>
<tr>
<td>Additional comments</td>
<td></td>
</tr>
</tbody>
</table>

Version 1.0
Profile: NSW Property Web Service

Image depicts a screenshot of the NSW Property web service © Land and Property Information 2015

Web service description

The NSW Property web service provides access to a polygon feature class that spatially represents an aspatial property description as provided by the Valuer Generals Department in their ValNet database.

The property features provided through this web service includes:

- Large Rural Property
- Rural Property
- Semi-Rural Property
- Urban Property

The available attributes for point queries are:

- Address string
- House Number
- PropID

No labels are displayed
| **Web service uses/fitness for purpose** | This web service allows users to easily integrate NSW Property into Open Geospatial Consortium (OGC) compliant spatial platforms and applications. NSW Property web service is used to spatially locate the property as defined by the Valuer General's ValNet database. A property contains all address and the property ID related to it. This service can be used to aggregate information for analytical purposes. Property data in combination with geo-coded address data, imagery, demographic information and agency specific business information underpins the ability to perform high quality spatial. |
| **Current state** | This web service is current and complete. |
| **Update frequency** | As required. |
| **Future development** | This web service is updated when new information is captured or sourced by LPI. |
| **Standards and specifications** | Open Geospatial Consortium (OGC) compliant and suitable for consumption by common GIS platforms. |
| **Access and licensing** | Accessible through LPI Spatial Data Services. To the extent that Creative Commons licensing applies, all data and other material produced by LPI constitutes Crown copyright. Save for the content on this website supplied by third parties, the LPI logo, NSW Government logo, the Commonwealth Coat of Arms, and any material protected by a trade mark. LPI has applied the Creative Commons Attribution 3.0 Australia Licence. LPI asserts the right to be attributed as author of the original material in the following manner: © Land and Property Information [2015] As far as practicable, material for which the copyright is owned by a third party will be clearly labelled. LPI has made all reasonable efforts to ensure that this material has been reproduced on this website with the full consent of the copyright owners. |
| **Web service access** | http://maps.six.nsw.gov.au/arCGis/rest/services/public/Nsw_Property/MapServer |
| **Custodian agency and contact** | Spatial Data Services Land and Property Information T: 02 6332 8463 E: sds@lpi.nsw.gov.au |
| **Version** | 1.0 |
Profile: NSW Points of Interest (POI)

The NSW Points of Interest (POI) web service allows users to search for and identify the location of features that people may want to see on a map, know about or visit.

POI features are derived from features maintained within the LPI Digital Topographic Database (DTDB). The features included in the NSW POI web service include: community, education, medical, recreation, transportation, utility, hydrography, physiography and place.

Community features include

- ambulance stations, art galleries, cemeteries, convents/monasteries, co-operatives, court houses, crematoriums, embassies, fire stations, gaols, graves, homesteads, libraries, lighthouses, local government chambers, museums, observatories, places of worship, police stations, post offices, nursing homes, retirement villages, rural fire stations, SES facilities, shopping centres, and tourist information centres.

Education features include

- combined primary-high schools, high schools, preschools, primary schools, research stations, special schools, TAFE colleges, and universities.

Medical features include

- general hospitals, psychiatric hospitals, children’s hospitals, integrated health services, multi purpose services and community medical centres.

Recreation features include

- athletics tracks, BMX tracks, camping grounds, caravan parks, clubs, cycling tracks, dog tracks, golf courses, historic sites, lookouts, monuments, motor racing tracks, observation towers, outdoor theatres, parks, picnic areas, racecourses, ship wrecks, showgrounds, sports centres, sports courts, sports fields, swimming pools, target ranges, tourist attractions, training tracks, trotting tracks and zoos.

Transportation features include

- airports, boat ramps, named cable cars, marinas, railway stations, slipways and transport interchanges.

Utility features include

- filtration plants, fuel driven power stations, gas facilities, geothermal power stations, hydro power stations, rubbish depots, sewage works, solar power stations, transmission stations and wind power stations.

Physiography and Hydrography include

- physiography: caves, cliffs, gaps / passes / saddles, headlands, mountains, hills / peaks, peninsulas / spits, or plateaus / tablelands. Hydrography: named bays / inlets / basins, beaches, bore, breakwaters, dam walls, islands, locks, manmade water bodies, natural water bodies, reaches / river bends, reefs, rock awash, sandbars / shoals, springs, swamps and water falls.

Place Features include

- cities, towns, suburbs, localities, regions and villages.
This web service allows users to easily integrate NSW POI into Open Geospatial Consortium (OGC) compliant spatial platforms and applications. When used in conjunction with maps and atlases, it can be a very powerful tool. The POI feature types are maintained by LPI.

**Current state**

This web service is current and complete.

**Update frequency**

As required.

**Future development**

This web service is updated when new information is captured or sourced by LPI.

**Standards and specifications**

OGC compliant and suitable for consumption by common GIS platforms. This dataset is compliant with the NSW FSDF and its specifications.

**Access and licensing**

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**Web service access**


**Custodian agency and contact**

Manager Delivery
Business Development and Delivery
Land and Property Information
E: sds@lpi.nsw.gov.au

**Additional comments**

**Version**

1.0
Profile: Acid Sulfate Soils

This web service maps the occurrence of Acid Sulfate Soils (ASS) along the coast of NSW and provides information that will assist land management and rehabilitation.

This web service allows users to easily integrate acid sulfate soil information into OGC compliant spatial platforms and applications.

This web service is current and complete.

This web service is updated when new information is captured or sourced by OEH.

OGC compliant and suitable for consumption by common GIS platforms. Available as a tiled service.

Available in the following formats:
- JSON
- SOAP
- WMS
- WMTS
In their natural state, these soils are submerged but when exposed or drained, they become oxidised and sulfuric acid is produced. This reduces soil fertility, kills vegetation and reduces fish populations. The identification of the location and extent of potential acid sulfate soils (PASS) is the essential first step in managing this problem. 128 map sheets were mapped for risk of occurrence of ASS at a scale of 1:25,000. This project was co-funded by the Natural Resources Audit Council (NRAC), and was revised in 1997.

Version

1.0
Profile: Australian Soil Classification (ASC) Soil Types

This web service classifies soil types across NSW using the Australian Soil Classification (ASC) at Order level. It uses the best available soils natural resource mapping coverage developed for the Land and Soil Capability (LSC) dataset.

This web service allows users to easily integrate ASC information into OGC compliant spatial platforms and applications.

This web service is current and complete.

This web service is updated when new information is captured or sourced by OEH.

OGC compliant and suitable for consumption by common GIS platforms. Available as a tiled service.

Available in the following formats:
- JSON
- SOAP
- WMS
- WMTS
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<td>and contact</td>
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<td>T: 131 555</td>
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<tr>
<td></td>
<td>E: <a href="mailto:data.broker@environment.nsw.gov.au">data.broker@environment.nsw.gov.au</a></td>
</tr>
<tr>
<td><strong>Additional comments</strong></td>
<td>This web service was derived from a lookup table system linking an ASC class to the most appropriate Great Soil Group classification soil type allocated for each mapping unit. Individual map units have been grouped and dissolved according to the Soil Type field to produce the final map.</td>
</tr>
<tr>
<td><strong>Version</strong></td>
<td>1.0</td>
</tr>
</tbody>
</table>
Profile: Land and Soil Capability (NENW)

This web service uses the Land and Soil Capability (LSC) dataset to detail natural resources across the New England/North West (NENW) strategic regional land use area. It provides a broad-scale, regional view as to the dominant LSC class present for over 340 individual mapping units through the assessment of eight key soil and landscape limitations (e.g. erosion, acidity and salinity).

This web service allows users to easily integrate land and soil capability information into OGC compliant spatial platforms and applications.

This web service is current and complete.

This web service is updated when new information is captured or sourced by OEH.

OGC compliant and suitable for consumption by common GIS platforms.

Available as a tiled service.

Available in the following formats:
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### Web service access

### Custodian agency and contact
Data Broker  
Office of Environment and Heritage (OEH)  
T: 131 555  
E: data.broker@environment.nsw.gov.au

### Additional comments
The mapping describes soil fertility according to a five class system:
- Low (L)  
- Moderately low (ML)  
- Moderate (M)  
- Moderately high (MH)  
- High (H). It was derived from a lookup table system linking a fertility class to a particular soil type (Great Soil Group), which was then attributed for each map unit. Individual map units have been grouped and dissolved according to the Soil Type field to produce the final map.

### Version
1.0
### Profile: Climate Change Corridors (Coastal Habitat) for North-East NSW

![Image](image.png)

Image depicts a screenshot of the Climate Change Corridors (Coastal Habitat) for North-East NSW web service © Office of Environment and Heritage 2015

#### Web service description
This web service integrates best available information to identify broad wildlife corridors for fauna occupying coastal habitat, along climatic gradients. The objective of the layer is to best delineate large-scale wildlife corridors that are significant for wildlife adaptation to the threatening processes of climate change.

#### Web service uses/fitness for purpose
This web service allows users to easily integrate coastal habitat information into OGC compliant spatial platforms and applications.

#### Current state
This web service is current and complete.

#### Future development
This web service is updated when new information is captured or sourced by OEH.

#### Standards and specifications
OGC compliant and suitable for consumption by common GIS platforms. Available as a tiled service.
- Available in the following formats:
  - JSON
  - SOAP
  - WMS
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<th><strong>Web service access</strong></th>
<th><a href="http://appmapdata.environment.nsw.gov.au/arcgiswa/rest/services/Corridors/CC_Corridors_Coastal_NE_NSW/MapServer">http://appmapdata.environment.nsw.gov.au/arcgiswa/rest/services/Corridors/CC_Corridors_Coastal_NE_NSW/MapServer</a></th>
</tr>
</thead>
</table>

| **Custodian agency and contact** | Data Broker  
Office of Environment and Heritage (OEH)  
T: 131 555  
E: data.broker@environment.nsw.gov.au |
|-------------------------------|-----------------------------------------------------------------------------------------------|

<table>
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<tr>
<th><strong>Additional comments</strong></th>
<th>The Climate Change Corridors (Coastal Habitat) for North-East NSW web service is based on key habitats (Scotts, 2003), vegetation mapping layers and NSW Wildlife Atlas and YETI databases to represent areas of the landscape that contain high conservation values and high fauna corridor values.</th>
</tr>
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<th><strong>Version</strong></th>
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</table>
Profile: Declared Wilderness

This web service shows boundaries of declared wilderness areas in NSW under S.59(1) of the National Parks and Wildlife Act 1974 and S.8 of the Wilderness Act 1987.

This web service allows users to easily integrate declared wilderness information into OGC compliant spatial platforms and applications.

This web service is current and complete.

This web service is updated when new information is captured or sourced by OEH.

OGC compliant and suitable for consumption by common GIS platforms. Available as a tiled service.

Available in the following formats:

- JSON
- SOAP
- WMS
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Image depicts a screenshot of the Declared Wilderness web service

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### Additional comments

### Version

1.0
Profile: Estimated Inherent Fertility of Soils (NENW)

![Image](image.png)

Image depicts a screenshot of the Estimated Inherent Fertility of Soils (NENW) web service © Office of Environment and Heritage 2015

<table>
<thead>
<tr>
<th>Web service description</th>
<th>This web service provides an estimated inherent fertility of soils in the New England/North West (NENW) strategic regional land use area. It uses the best available soils natural resource mapping coverage developed for the Land and Soil Capability (LSC) dataset.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Web service uses/fitness for purpose</td>
<td>This web service allows users to easily integrate estimated inherent fertility of soil into OGC compliant spatial platforms and applications.</td>
</tr>
<tr>
<td>Current state</td>
<td>This web service is current and complete.</td>
</tr>
<tr>
<td>Future development</td>
<td>This web service is updated when new information is captured or sourced by OEH.</td>
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</tbody>
</table>
| Standards and specifications | OGC compliant and suitable for consumption by common GIS platforms. Available as a tiled service. Available in the following formats:  
- JSON  
- SOAP  
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### Additional comments
The mapping describes soil fertility according to a five class system: • Low (L) • Moderately low (ML) • Moderate (M) • Moderately high (MH) • High (H). It was derived from a lookup table system linking a fertility class to a particular soil type (Great Soil Group), which was then attributed for each map unit. Individual map units have been grouped and dissolved according to the soil type field to produce the final map.

### Version
1.0
Profile: Estimated Inherent Fertility of Soils (Upper Hunter)

Image depicts a screenshot of the Estimated Inherent Fertility of Soils (Upper Hunter) web service © Office of Environment and Heritage 2015

**Web service description**
This web service depicts estimated inherent fertility of soils in the Upper Hunter Area. It uses the best available soils natural resource mapping coverage developed for the Land and Soil Capability (LSC) dataset.

**Web service uses/fitness for purpose**
This web service allows users to easily integrate estimated inherent fertility of soil into OGC compliant spatial platforms and applications.

**Current state**
This web service is current and complete.

**Future development**
This web service is updated when new information is captured or sourced by OEH.

**Standards and specifications**
OGC compliant and suitable for consumption by common GIS platforms. Available as a tiled service.

Available in the following formats:
- JSON
- SOAP
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</table>
| Custodian agency and contact | Data Broker  
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T: 131 555  
E: data.broker@environment.nsw.gov.au |
| Additional comments  | The mapping describes soil fertility according to a five class system: • Low (L)  
• Moderately low (ML)  
• Moderate (M)  
• Moderately high (MH)  
• High (H).  
It was derived from a lookup table system linking a fertility class to a particular soil type (Great Soil Group), which was then attributed for each map unit.  
Individual map units have been grouped and dissolved according to the soil type field to produce the final map. |
| Version              | 1.0                                                                                           |
This web service illustrates the hydrological boundary of the catchment draining to each estuary in NSW. There are two spatial layers:

- a line feature class (Estuary Drainage Catchment Body) to record the source of the catchment boundaries line work, and
- a polygon feature class (Estuary Drainage Catchment) to record the surface area of the catchments.

Both layers are based on the digitising of catchments for the NSW Stressed Rivers Assessments conducted for the water sharing plan process.

**Web service uses/fitness for purpose**

This web service allows users to easily integrate estuary catchment information into OGC compliant spatial platforms and applications.

**Current state**

This web service is current and complete.

**Future development**

This web service is updated when new information is captured or sourced by OEH.
Standards and specifications

OGC compliant and suitable for consumption by common GIS platforms. Available as a tiled service.

- JSON
- SOAP
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Additional comments

The 1:25,000 topographic map series and coastline layers from the Land and Property Management Authority were the primary datasets, modified by on-screen re-digitising of the true hydrological boundary adjacent to the estuary mouth and coastline. Stressed Rivers boundaries were modified further up-catchment when obvious errors were detected. Land draining directly to the sea has been labelled as ‘nil estuary’. These layers provided the initial linework for developing the Estuary Tidal Limits datasets.

Version

1.0
Profile: Extant Native Vegetation

Image depicts a screenshot of the Extant Native Vegetation web service
© Office of Environment and Heritage 2015

Web service description
This web service details extant native vegetation across NSW, on four layers:
i) woody native vegetation
ii) non-woody native veg
iii) secondary grassland
iv) a combination of i) and ii).

Web service uses/fitness for purpose
This web service allows users to easily integrate extant native vegetation information into OGC compliant spatial platforms and applications.

Current state
This web service is current and complete.

Future development
This web service is updated when new information is captured or sourced by OEH.

Standards and specifications
OGC compliant and suitable for consumption by common GIS platforms. Available as a tiled service. This dataset is compliant with the NSW Foundation Spatial Data Framework and its specifications.
Available in the following formats:
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- SOAP
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Additional comments

Data represents NSW native vegetation extent, compiled from various vegetation maps using method outlined in (Keith and Simpson 2006).

Data was developed for use in the July 2006 Biometric tool update, and specifically the update of the Over-Cleared Landscapes database, which underpins the NSW Property Vegetation Planning (PVP) process. Supersedes Keith (2004) and Pressey et al. (2000). Pressey et al. (2000) was the native veg extent product used to calculate native veg cover values for the Over-Cleared Landscapes Database prior to July 2006. Also see Keith and Simpson (2006).

Version

1.0
Profile: Great Soil Group (GSG) Soil Types

This web service provides soil types across NSW using the Great Soil Group (GSG) Classification. This service uses the best available soils natural resource mapping coverage developed for the Land and Soil Capability (LSC) dataset. The dominant soil type for each mapping unit was allocated using a modified list of GSG soil types. Individual map units have been grouped and dissolved according to the soil type field to produce the final map.

This web service allows users to easily integrate soil type information into OGC compliant spatial platforms and applications.

This web service is current and complete.

This web service is updated when new information is captured or sourced by OEH.

OGC compliant and suitable for consumption by common GIS platforms.

Available as a tiled service.

Available in the following formats:
- JSON
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E: data.broker@environment.nsw.gov.au

### Additional comments

### Version

1.0
Profile: Land Use

Web service description
This web service provides a data set of land use between June 2000 and June 2007 across New South Wales. Land use is classified to three separate classification schemes:

- NSW Land Use Mapping Program (LUMAP)
- NSW SCALD (Standard Classification for Attributes of Land) Classification
- ALUM (Australian Land Use and Management) Classification.

Web service uses/fitness for purpose
This web service allows users to easily integrate soil type information into OGC compliant spatial platforms and applications.

Current state
This web service is current and complete.

Future development
This web service is updated when new information is captured or sourced by OEH.

Standards and specifications
OGC compliant and suitable for consumption by common GIS platforms. Available as a tiled service.

This dataset is compliant with the NSW Foundation Spatial Data Framework and its specifications.

Available in the following formats:

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<tr>
<td><strong>Additional comments</strong></td>
<td>The LUMAP Classification is DECC's most recent classification for mapping of land use classes for NSW. It is a simple numeric classification, open-ended to enable additional classes to be added. Prior to LUMAP, the SCALD classification was the standard for mapping of land use in NSW. It is a combined alpha-numeric classification system. The ALUM classification is based upon the modified Baxter &amp; Russell classification.</td>
</tr>
<tr>
<td><strong>Version</strong></td>
<td>1.0</td>
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</table>
Profile: Soil Condition and Land Management

![Image depicts a screenshot of the Soil Condition and Land Management web service © Office of Environment and Heritage 2015](image_url)

<table>
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<tr>
<th>Web service description</th>
<th>This web service details soil condition and land management across NSW.</th>
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<tr>
<td>Web service uses/fitness for purpose</td>
<td>This web service allows users to easily integrate soil condition and land management information into OGC compliant spatial platforms and applications.</td>
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<tr>
<td>Current state</td>
<td>This web service is current and complete.</td>
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<td>Future development</td>
<td>This web service is updated when new information is captured or sourced by OEH.</td>
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<tr>
<td>Standards and specifications</td>
<td>OGC compliant and suitable for consumption by common GIS platforms. Available as a tiled service. Available in the following formats:</td>
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</table>
Each catchment management region was divided into ten soil monitoring units (SMUs) to spatially stratify NSW for prioritisation of establishing a permanent network of soil condition and land management within capability monitoring sites. Soil monitoring units are extensive groups of soil landscapes selected for monitoring.

All soil condition monitoring for the 2008 baseline is restricted to the 124 soil monitoring units. Soil Monitoring Units are the finest available spatial reporting unit for soil condition and land management.

The SMUs were selected by Catchment Management Authority extension experts and DECCW soil scientists on the basis of their importance, spatial extent, propensity for land use pressure changes and number of existing land degradation issues.
Profile: Mitchell Landscapes

This web service provides a revision of the polygon boundaries conducted in 2008. Revision corrected many alignment errors using SPOT 5 imagery as a reference layer.

This web service allows users to easily integrate Mitchell Landscape information into OGC compliant spatial platforms and applications.

This web service is current and complete.

This web service is updated when new information is captured or sourced by OEH.

OGC compliant and suitable for consumption by common GIS platforms. Available as a tiled service.

Available in the following formats:
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### Additional comments

This dataset (version 3) supersedes the previous version of the NSW Landscapes (Version 2) ANZNSO208000229. Version 3 includes a revision of the polygon boundaries conducted in 2008. Revision corrected many alignment errors using SPOT 5 imagery as a reference layer. The revisions for Version 3 have resulted in significant alterations to Landscape boundaries in some regions. See associated technical report and quote; ELA 2008 Editing Mitchell Landscapes and quote; 'Version 2 maps were constructed from existing data and have a strong geologic, geomorphic and pedologic base. They do not include field validation/original mapping. Scale and reliability was constrained to 1:250,000 scale by the availability of suitable state-wide maps, although some source data (air photos/maps) were more detailed. A transect of map sheets was compared with other data during the mapping, it is believed reasonable product consistency has been attained. Details on the methodology, limitations and constraints in the development of the original dataset are contained in P.B.Mitchell (2002) NSW Ecosystems Study: Background and Methodology (Unpublished).'

### Version

1.0
This web service illustrates the extent of wetland types identified by the NSW Monitoring, Evaluation and Reporting (MER) program for state-wide monitoring of wetland condition. The condition of the wetlands in this spatial layer has been preliminarily assessed using pressure and condition indicators.

This web service allows users to easily integrate MER wetland monitoring information into OGC compliant spatial platforms and applications.

This web service is current and complete.

This web service is updated when new information is captured or sourced by OEH.

OGC compliant and suitable for consumption by common GIS platforms. Available as a tiled service.

Available in the following formats:
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<tr>
<td>Additional comments</td>
<td>Detailed descriptions of the monitoring methods and preliminary results can be found in:</td>
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<tr>
<td></td>
<td>Sonia Claus, Sarah Imgraben, Kirsty Brennan, Alex Carthey, Benjamin Daly and Neil Saintilan</td>
</tr>
<tr>
<td></td>
<td>NSW Department of Environment, Climate Change and Water, Sydney. The ‘Draft Report’.</td>
</tr>
<tr>
<td>Version</td>
<td>1.0</td>
</tr>
</tbody>
</table>
**Profile: National Parks and Wildlife Service (NPWS) Estate**

Image depicts a screenshot of the National Parks and Wildlife Service (NPWS) Estate web service © Office of Environment and Heritage 2015

### Web service description

The NSW National Parks and Wildlife Service (NPWS) Estate web service provides information on areas reserved under the *National Park and Wildlife Act 1974*. Areas include:

- National Parks
- Nature Reserves
- Regional Parks
- State Conservation Areas
- Aboriginal Areas
- Historic Sites and
- Karst Conservation Reserves.

### Web service uses/fitness for purpose

This web service allows users to easily integrate NPWS estate information into OGC compliant spatial platforms and applications.

### Current state

This web service is current and complete.

### Future development

This web service is updated when new information is captured or sourced by OEH.
**Standards and specifications**

OGC compliant and suitable for consumption by common GIS platforms. Available as a tiled service.

This data set is compliant with the NSW Foundation Spatial Data Framework and its specifications.

Available in the following formats:

- JSON
- SOAP
- WMS
- WMTS

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**Web service access**


**Custodian agency and contact**

Data Broker  
Office of Environment and Heritage (OEH)  
T: 131 555  
E: data.broker@environment.nsw.gov.au

**Additional comments**

**Version**

1.0
Profile: Soil and Land Resources (Hawkesbury-Nepean)

Web service description
This product contains natural resource mapping for the Hawkesbury-Nepean Catchment. Soils are described using the Australian Soil Classification (ASC) and the Great Soil Group (GSG) systems.

Web service uses/fitness for purpose
This web service allows users to easily integrate soil and land resource information into OGC compliant spatial platforms and applications.

Current state
This web service is current and complete.

Future development
This web service is updated when new information is captured or sourced by OEH.

Standards and specifications
OGC compliant and suitable for consumption by common GIS platforms. Available as a tiled service.

- JSON
- SOAP
- WMS
- WMTS
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## Web service access


## Custodian agency and contact

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Office of Environment and Heritage (OEH)  
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E: data.broker@environment.nsw.gov.au

## Additional comments

The project was undertaken to enhance knowledge of soils, landscapes and physical constraints to land use in the urban and rural environment. The information will assist in informed decision making and planning throughout the catchment. Each soil landscape unit is an inventory of soil and landscape information with relatively uniform land management requirements, allowing major soil and landscape qualities and constraints to be identified.

## Version

1.0
**Profile: Soil Landscapes - Sydney**

*Image depicts a screenshot of the Soil Landscapes - Sydney web service © Office of Environment and Heritage 2015*

<table>
<thead>
<tr>
<th><strong>Web service description</strong></th>
<th>This web service provides an inventory of soil and landscape properties of the area and identifies major soil and landscape qualities and constraints.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Web service uses/fitness for purpose</strong></td>
<td>This web service allows users to easily integrate soil landscape information into OGC compliant spatial platforms and applications.</td>
</tr>
<tr>
<td><strong>Current state</strong></td>
<td>This web service is current and complete.</td>
</tr>
<tr>
<td><strong>Future development</strong></td>
<td>This web service is updated when new information is captured or sourced by OEH.</td>
</tr>
</tbody>
</table>
| **Standards and specifications** | OGC compliant and suitable for consumption by common GIS platforms. Available as a tiled service. Available in the following formats:  
  - JSON  
  - SOAP  
  - WMS  
  - WMTS |
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**Web service access**


**Custodian agency and contact**

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**Additional comments**

‘Soil Landscape - Sydney’ is one of a series of soil landscape maps that are intended for all of central and eastern NSW, based on standard 1:100,000 and 1:250,000 topographic sheets.

It integrates soil and topographic features into single units with relatively uniform land management requirements. Soils are described in terms of soil materials in addition to the Australian Great Soil Group and Northcote classification systems.

**Version**

1.0
Profile: Land and Soil Capability (Upper Hunter)

[Image depicts a screenshot of the Land and Soil Capability (Upper Hunter) web service © Office of Environment and Heritage 2015]

Web service description
This web service uses the Land and Soil Capability (LSC) dataset to detail natural resources across the Upper Hunter strategic regional land use area. It provides a broad-scale, regional view as to the dominant LSC class present for over 340 individual mapping units through the assessment of eight key soil and landscape limitations (e.g., erosion, acidity and salinity).

Web service uses/fitness for purpose
This web service allows users to easily integrate land and soil capability information into OGC compliant spatial platforms and applications.

Current state
This web service is current and complete.

Future development
This web service is updated when new information is captured or sourced by OEH.

Standards and specifications
OGC compliant and suitable for consumption by common GIS platforms. Available as a tiled service.
Available in the following formats:
- JSON
- SOAP
- WMS
- WMTS
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### Web service access


### Custodian agency and contact

Data Broker  
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E: data.broker@environment.nsw.gov.au

### Additional comments

The assessment of LSC is based on the mapping method and rule set developed by OEH (2012). It builds on the rural land capability classification and mapping undertaken for the central and eastern divisions of the state by the former Soil Conservation Service of NSW (Emery 1986) but with more emphasis on a broader range of soil and landscape properties. The mapping is based on an eight class system with values ranging between 1 and 8 which represent a decreasing capability of the land to sustain land use. Class 1 represents land capable of sustaining most land uses including those that have a high impact on the soil (e.g. regular cultivation), whilst class 8 represents land that can only sustain very low impact land uses (e.g. nature conservation).

### Version

1.0
Profile: Vegetation Classes

This web service shows the extant distributions of vegetation classes throughout NSW, and provides users with information about the resolution, currency and uncertainties in the underlying data that were used to assemble the map. Data represents NSW native vegetation extent, compiled from various vegetation maps.

This web service allows users to easily integrate vegetation class information into OGC compliant spatial platforms and applications.

This web service is current and complete.

This web service is updated when new information is captured or sourced by OEH.

OGC compliant and suitable for consumption by common GIS platforms. Available as a tiled service.

Available in the following formats:
- JSON
- SOAP
- WMS

Image depicts a screenshot of the Vegetation Classes web service
© Office of Environment and Heritage 2015
The NSW vegetation map (version 2.2, Keith and Simpson 2006) was revised by interpreting additional candidate maps as vector layers and synthesising these into a single raster-based data set. This involved eight steps: developing a comprehensive ‘standard’ classification of vegetation classes for NSW; collating and standardising the projection and format of candidate source maps; assigning vegetation units of source maps to NSW vegetation classes; assessing the spatial resolution, currency and reliability of candidate source maps; assembling a composite map from candidate source maps to maximise reliability; applying a spatial mask to represent extant native vegetation; adjusting spatial resolution by dissolving small polygons and converting to 200 m raster; attributing the spatial resolution, currency and reliability of the underlying source data sets.

## Profile: NSW Wetlands

![Image](image-url) Image depicts a screenshot of NSW Wetlands web service © Office of Environment and Heritage 2015

### Web service description
This web service maps the wetlands across New South Wales. Information classes include:
- floodplain wetlands
- freshwater lakes
- saline lakes
- reservoirs
- estuarine wetlands
- coastal lagoons
- lakes

### Web service uses/fitness for purpose
This web service allows users to easily integrate NSW wetland information into OGC compliant spatial platforms and applications.

### Current state
This web service is current and complete.

### Future development
This web service is updated when new information is captured or sourced by OEH.
### Standards and specifications

OGC compliant and suitable for consumption by common GIS platforms. Available as a tiled service.

This foundation set is compliant with the NSW Foundation Spatial Data Framework and its specifications.

Available in the following formats:
- JSON
- SOAP
- WMS
- WMTS

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### Web service access


### Custodian agency and contact

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E: data.broker@environment.nsw.gov.au

### Additional comments

Wetlands were identified using a combination of classification of spectral classes. The data will be used to assess the wetland resource in each catchment.

### Version

1.0
Profile: NSW Aquatic Reserves

Image depicts a screenshot of the NSW Aquatic Reserves © NSW Trade & Investment 2015

| Web service description | NSW Aquatic Reserves web service allows the user to view the spatial location of aquatic reserves in NSW. The associated information includes details such as:  
| Authority  
| Current Plan  
| Zone details  
| Marine park  
| Zone Class  
| Bioregion  
| Hectares  
| Date Gazette  
| etc. |

| Web service uses/fitness for purpose | The web service is Open Geospatial Consortium (OGC) compliant. It allows users to easily integrate the spatial location of aquatic reserves into spatial platforms and applications. This web service is maintained by NSW Trade & Investment. |

| Current state | This web service is current and complete. Available as a tiled service. |

| Future development | Updated as required. |

| Standards and specifications | OGC compliant. Available in the following formats: REST, SOAP, WMS, WFS, WCS |
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Web service access
https://spatial.dpi.nsw.gov.au/ArcGIS2/rest/services/PUBLIC/NSW_Aquatic_Reserves/MapServer

Custodian agency and contact
Geospatial Technology Manager, Business Technology Services.
NSW Trade & Investment.
Address: 516 High Street, Maitland NSW 2320
T: (02) 4931 6666
E: adam.king@trade.nsw.gov.au

Version
1.0
Profile: Coal Seam Gas Boreholes (A sub-set of the Petroleum, Minerals and Coal Drill Holes and Wells spatial dataset)

The Coal Seam Gas Boreholes web service allows the user to view the spatial extent of coal seam gas boreholes in NSW.

The dataset describes spatial data of Coal Seam Gas Boreholes in NSW. This includes the following information:

- Hole Name
- Hole Purpose
- Title at time of drilling
- Title Licencee at time of drilling
- Project Operator at time of drilling
- Year Drilled
- End Depth
- Hole Status
- Category
- Plug Date
- Hydraulic Fracturing (‘Fracced’) status
- Hydraulic Fracturing (‘Fracced’) Year

Web service description

The web service is Open Geospatial Consortium (OGC) compliant. It allows users to easily integrate the spatial location of aquatic reserves into spatial platforms and applications.

Web service uses/fitness for purpose

The web service is Open Geospatial Consortium (OGC) compliant. It allows users to easily integrate the spatial location of aquatic reserves into spatial platforms and applications.

Current state

This web service is maintained by NSW Trade & Investment.

Future development

This web service is current and complete.

Standards and specifications

OGC compliant.
Available in the following formats: REST, SOAP, WMS, WFS, WCS
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Web service access
Map: http://cdn.digitalservicesnsw.com/csg/mapv2.5/index.html
Data: https://spatial.dpi.nsw.gov.au/ArcGIS2/rest/services/PUBLIC/Coal_Seam_Gas_Boreholes/MapServer

Custodian agency
Coal & Petroleum Geoscience, Geological Survey of NSW
Division of Resources & Energy, NSW Trade & Investment
Address: 516 High Street, MAITLAND N.S.W. 2320
E: Petroleum.Geoscience@trade.nsw.gov.au

Contact
Geospatial Technology Manager, Business Technology Services.
NSW Trade & Investment.
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T: (02) 4931 6666
E: adam.king@trade.nsw.gov.au

Additional comments
As of this date, the information within is as accurate as possible. Monday 1 June 2015. This subset of the source dataset is the result of filtering and formatting to meet the requirements of the Office of Coal Seam Gas website.

Version
1.0

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Author: Land and Property Information
(B) P15/14/040
## Profile: Estuarine Reef Habitat

![Image depicts a screenshot of the Estuarine Reef Habitat web service © NSW Trade & Investment 2015](image)

<table>
<thead>
<tr>
<th><strong>Web service description</strong></th>
<th>Estuarine Reef Habitat web service allows the user to view the spatial extent of estuarine reef habitats in NSW.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Web service uses/fitness for purpose</strong></td>
<td>The web service is Open Geospatial Consortium (OGC) compliant. It allows users to easily integrate estuarine reef habitats information into spatial platforms and applications. This web service is maintained by NSW Trade &amp; Investment.</td>
</tr>
<tr>
<td><strong>Current state</strong></td>
<td>This web service is current and complete</td>
</tr>
<tr>
<td><strong>Future development</strong></td>
<td>Updated as required.</td>
</tr>
<tr>
<td><strong>Standards and specifications</strong></td>
<td>OGC compliant. Available in the following formats: REST, SOAP, WMS, WFS, WCS</td>
</tr>
</tbody>
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Web service access


Custodian agency and contact

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NSW Trade & Investment.
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T: (02) 4931 6666
E: adam.king@trade.nsw.gov.au

Version

1.0
Profile: Estuarine Macrophytes

Image depicts a screenshot of the Estuarine Macrophytes web service
© NSW Trade & Investment 2015

Web service description

Estuarine Macrophytes web service allows the user to view the spatial extent of the distribution and abundance of seagrass, mangrove and saltmarsh in NSW estuaries.

The web service provides the spatial extent of Estuarine Macrophytes in NSW. Additional information includes:

- Habitat
- Macrophyte
- Project
- Photo date
- Field date
- CMA Name
- Bioregion
- Estuary

Web service uses/fitness for purpose

The web service is Open Geospatial Consortium (OGC) compliant. It allows users to easily integrate the spatial location of aquatic reserves into spatial platforms and applications.

This web service is maintained by NSW Trade & Investment.

Current state

This data is collected through the interpretation of aerial photography. The data has been prepared from Land and Property Information photo runs, at an input scale of 1:25,000. The aerial photographs were scanned into TIFF format files and imported into ERDAS IMAGINE as image files for ortho-rectification. The digital images were ortho-rectified using a Digital Elevation Model (DEM) and Digital Topographic Database (DTDB) provided by Land and Property Information. Seagrass, mangrove and saltmarsh boundaries were digitised and edited in ArcGIS. Attributes were field validated.

Future development

Updated as required.
**Standards and specifications**

OGC compliant. Available in the following formats: REST, SOAP, WMS, WFS, WCS

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</tbody>
</table>

| Web service access | https://spatial.dpi.nsw.gov.au/ArcGIS2/rest/services/PUBLIC/Estuarine_Macrophytes/MapServer |

<table>
<thead>
<tr>
<th>Custodian agency</th>
<th>Gregory West</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Spatial Analyst, Marine Ecosystems Unit, Fisheries NSW Department of Primary Industries, NSW Trade &amp; Investment.</td>
</tr>
<tr>
<td></td>
<td>Address: Port Stephens Fisheries Institute, Taylors Beach Road, Taylors Beach, NSW, 2316</td>
</tr>
<tr>
<td></td>
<td>T: 61 (2) 4916 3853</td>
</tr>
<tr>
<td></td>
<td>E: <a href="mailto:gregory.west@dpi.nsw.gov.au">gregory.west@dpi.nsw.gov.au</a></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Contact</th>
<th>Geospatial Technology Manager, Business Technology Services. NSW Trade &amp; Investment.</th>
</tr>
</thead>
<tbody>
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<tr>
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<td></td>
<td>E: <a href="mailto:adam.king@trade.nsw.gov.au">adam.king@trade.nsw.gov.au</a></td>
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</tbody>
</table>

| Version | 1.0 |

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Profile: NSW Marine Protected Areas

NSW Marine Protected Areas web service allows the user to view the spatial extent of protected marine park areas in NSW as declared under Schedule 4 of the NSW Marine Parks Act 1997. This dataset contains the zone boundaries for Cape Byron, Solitary Islands, Port Stephens - Great Lakes, Jervis Bay, Lord Howe and Batemans Marine Parks, and NSW Aquatic Reserves.

The web service is Open Geospatial Consortium (OGC) compliant. It allows users to easily integrate marine park areas into spatial platforms and applications. This web service is maintained by NSW Trade & Investment. Landward and estuarine boundaries contain estimated mean high water positions. These should be used as a guide only, as local conditions prevail in all areas which require surveys to determine precise locations. Furthermore, these boundaries are dynamic and are likely to change over time. Coastline features are a combination of cadastral lot and topographic features. Generally the furthest landward boundary was used although in some areas the coastline feature that most closely resembled actual features as they appear in aerial imagery was adopted. Tidal limits of creeks have been estimated from DNR 2006 Survey of Mangrove and Tidal limits in NSW estuaries.

This web service is current and complete. Current at 1 July 2014. Updated as required.

OGC compliant.
Available in the following formats: REST, SOAP, WMS
### Access and licensing

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### Web service access

https://spatial.dpi.nsw.gov.au/ArcGIS2/rest/services/PUBLIC/Marine_Protected_Areas/MapServer

### Custodian agency and contact

Geospatial Technology Manager, Business Technology Services.
NSW Trade & Investment.
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T: (02) 4931 6666
E: adam.king@trade.nsw.gov.au

### Version

1.0
Profile: NSW Minerals / NSW Claims

**Web service description**

NSW Claims web service allows the user to view the spatial extent of opal prospecting areas in the Local Government Area of Walgett, NSW. This service provides users with the following information in regards to opal prospecting areas:

- Claim ID
- Claim Status
- Granted Date
- Expiry Date
- Operation Type
- Holder Name
- Holder Address
- Operator Name
- End Date
- Property

**Web service uses/fitness for purpose**

The web service is Open Geospatial Consortium (OGC) compliant. It allows users to easily integrate opal prospecting areas into spatial platforms and applications.

This web service is maintained by NSW Trade & Investment.

**Current state**

This web service is current and complete.

**Future development**

Updated as required.

**Standards and specifications**

OGC compliant.

Available in the following formats: REST, SOAP, WMS, WFS, WCS
**Access and licensing**

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**Web service access**


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**Version**

1.0