

SHIRLEY MCINTYRE

SHIRLEY IS A SENIOR GIS ANALYST WITH EXPERIENCE IN BOTH THE PUBLIC AND PRIVATE SECTORS USING THE LATEST ESRI SOFTWARE TO DELIVER A RANGE OF PRODUCTS ASSOCIATED WITH CARTOGRAPHIC PRODUCTION AND DATA CAPTURE.

QUALIFICATIONS

2022

University of Canberra – Canberra ACT
Graduate Diploma of Business Informatics

2021

Canberra Institute of Technology – Canberra ACT
Diploma of Leadership and Management

1995

Curtin University of Technology – Perth WA
Graduate Diploma in Geographic and Land
Informations Systems

1991

Curtin university of Technology – Perth WA
Bachelor of Science – Cartography

PROFESSIONAL MEMBERSHIPS

Mapping Science Institute of Australia
British Cartography Society

PROFESSIONAL EXPERIENCE

LAND INSIGHTS JULY 2023 – CURRENT

GIS Specialist

The GIS work I am involved in is both exciting and varied, as I have produced a range of different types of report and display maps, calculated the impact one type of data has had on other data in the area, as well as creating online maps and dataset.

Such projects have included maps showing ocean inundation levels, using raster data, for 100 and 500 year intervals. Then analysing local planning scheme data against the inundation data to determine the extent of impact such inundation would have on existing town facilities.

Other work has involved capturing and manipulating data to create thematic maps; calculating the percentage of arable land, in an area, impacted by the construction of solar farms and displaying the data as a map; presenting various data types, such as vegetation, groundwater, soil types, and native heritage extents as both static and online maps; as well as producing general layout maps to identify the location and size of the area of interest and other relevant information.

In general terms, no two mapping projects are the same as each display's unique requirements in relation to the data shown, as well as the analysis of the associated data which provides an individual depiction of an area.



PHONE

1300 725 522

EMAIL

shirley@landinsights.com.au

POSTAL

PO Box 289
Mt Lawley WA 6929

Work points:

- Create both static and online maps to show a range of data including vegetation, groundwater, soil types, native heritage data, bushfire prone area
- Development of online maps and associated online data to enable information to be turned on, off and analysed as required
- Create general layout maps to identify the location and size of an area of interest and other relevant information
- Created ocean inundation data levels from raster data
- Analyse local planning scheme data against the inundation data to determine the extent of impact on town facilities
- Capture and manipulate data to create thematic maps
- Calculate the percentage of arable land impacted by other business uses and display on a map

SO4 (PIPER PRESTON P/L) PERTH WA (CONTRACT)

APR 2023 – JUL 2023

GIS Analyst - Environmental and Approvals

Key responsibilities:

- Update map series associated with environmental compliance reporting, including MRF, PoW applications, S18 applications, heritage and environmental surveys and ground disturbance permits.
- Capture, manipulate and analyse spatial data relating to MRF, S18, heritage surveys, Approval Requests (AR), Ground Disturbance (GD) applications and the updating of spatial data to Arc Online.
- Create maps as required for mine operations as well as AR and GD areas for government submission.
- Provide shapefile, DXF and GPX data, for AR and GD information, to field staff to allow for survey pegging of disturbed areas.
- Analyse and compare surveyed data with existing datasets to determine the most accurate and current data for inclusion in the database.

PILBARA PORTS AUTHORITY, PORT HEDLAND WA (CONTRACT)

FEB 2022 – APR 2023

Mapping and Data Analyst Level 5 – Mapping and Data

Key responsibilities:

- Create and update maps and charts associated with the port area, as requested.
- Analyse and compare surveyed data with existing SDE data to determine the most accurate and current data for inclusion in the database.
- Import data files, captured from hydrographic surveys, into a database which was used to produce maps showing the areas dredged.
- Process and analyse bathymetry data to determine depths in shipping channels.
- Operate handheld DGPS equipment to capture specified points for inclusion in database and on maps.

Key achievements:

- Create a series of depth declaration maps for five channels and associated berths at the Port of Dampier, including producing depth sounding maps showing the minimum depth, for the area, in a 10 metre grid pattern
- Creating bathymetry maps showing depths across the area which allow for further analysis of depth sounding data.
- Use FME or manual processes to create DEMs and hill shading files for bathymetry.
- Produced CCTV camera location and coverage maps for the ports of Port Hedland, Dampier and Ashburton, with the data also being used to create a new SDE dataset.

AUSTRALIAN BUREAU OF STATISTICS, BELCONNEN ACT (CONTRACT) AUG 2021 – DEC 2021

Data Capture Supervisor - Census

Key responsibilities:

- Communicate with team to support and build their knowledge regarding the data capture requirements of the role and explain the cartographic information associated with the data capture.
- Communicate openly and fairly with the team regarding the work to complete, the required standard to be achieved and provide feedback, to individuals, when required.
- QA work, to ensure the data capture process meets the appropriate standards.
- Attend Supervisors meetings to receive regular updates on the capture process and ensure timeframes are being met.
- Check team timesheets and ensure they adhere to their performance plan.

DEPARTMENT OF INFRASTRUCTURE, TRANSPORT, REGIONAL DEVELOPMENT AND COMMUNICATIONS, CANBERRA ACT JUN 2017 – JUN 2021

GIS Analyst, APS 5 - Spatial Systems

Key responsibilities:

- Communicate and build collaborative relationships with key stakeholders to understand their requirements and assist in cartographically representing the required information.
- Undertake customised thematic map production, using ArcGIS, for inclusion in Government and Budget publications to support the Department in identifying potentially suitable infrastructure projects and to undertake analysis of trends.
- Capture, edit and manipulate data to meet specific requirements for cartographic production within the required timeframe.
- Support, train and mentor a temporary staff member in cartographic production requirements, using ArcGIS Pro software.

Key achievements:

- Delivered customised maps for Government Ministers including being involved with the production of the maps for the 2018, 2019 and 2020 Budget publications to facilitate effective budget planning.
- Received a commendation for producing A0 size maps showing the location of bridges, requiring work across Australia, using Excel spreadsheet data, with the maps being provided for consultation by the Prime Minister (Malcolm Turnbull).
- Delivered quality outcomes, in data capture and map production, meeting required standards and delivering on time ensuring the requirements of stakeholders and Ministers were met. E.g. The Bridges Renewal project.
- Created a procedures document, detailing processes in ArcGIS Pro, to facilitate the transition from ArcGIS to ArcGIS Pro software.

WA LAND INFORMATION AUTHORITY (LANDGATE), MIDLAND WA JUL 2013 – SEP 2016

Senior Registrations Officer Level 4 - Boundary Definition

Key responsibilities:

- Research historic maps and gazettes to determine survey information across particular areas of interest and displaying survey information, as a Deposited Plan map.
- Calculate, using trigonometry and calculus equations, missing angles and distances for cadastral boundaries or roads.
- Create Deposited Plan (DP) maps using the aforementioned gathered or calculated information as the first stage towards creating a title, under the Torrens Title System, for a specific parcel of land.
- Produce Concept plans and Section 91 plans in accordance with the Land Administration Act 1997.
- Write technical descriptions for Gross Rental Value properties.
- Use ArcGIS 10.2 to produce specialised maps including the 2015 WA Tenure map and twenty-six maps of the Swan River.



Key achievements:

- Independently learning MicroStation, from scratch, as well as becoming familiar with the legal and production requirements for producing Deposited Plans within six months of starting in Boundary Definition.
- Understanding the process and requirements of generating Gross Rental Value technical descriptions for properties and the legal implications of local government boundary definitions.
- Creating five Section 91 maps for the Department of Premier and Cabinet by the required date to assist in determining the extent of pastoral leases, grazing leases and the impact of camping leases in the area.
- Managed the Swan River mapping project to produce twenty-six abutting maps following the Swan River, for the Swan River Trust.

DEPARTMENT OF PLANNING PERTH WA (SECONDMENT)

JAN 2012 – JUL 2013

Geospatial Systems Officer, Level 5 - Planning Aboriginal Communities Project

Key responsibilities:

- Extract MicroStation files and convert said files to GIS, using ArcMap including the geo-referencing of the data for inclusion in the Planning Aboriginal Communities Project (PACP) databases.
- Create templates for layout plan maps, in accordance with established guidelines and requirements to use for PACP map production.
- Produce Layout Plans, for Aboriginal communities, using data converted from existing MicroStation plans, captured data and customised cartographic templates.
- Amend and update layout plans in accordance with required changes and endorsement dates to provide accurate mapping of remote communities.
- Use aerial photography to verify the location and position of ground data associated with surveyed data to ensure community information and facilities were geographically located correctly.

Key achievements:

- Managed the production of maps, for over 100 Aboriginal communities, meeting all timeframes and deadlines.
- Produced documentation that defined over forty Recommended Settlement Zone boundaries, as technical descriptions, for Aboriginal settlements in Western Australia including identifying coordinates for each intersection point, lot numbers and the Deposited Plan number for neighbouring reserves. The technical descriptions identified the reserve location of the communities within Western Australia.
- Produced layered PDFs to reflect the map information, as well as combining a number of maps, for a community, into a PDF map-set and ensuring that all layers were active, useable and understandable.
- Created three different sets of map templates to reflect the mapping requirements of Aboriginal community layout plans and amending said map templates as required, in consultation with the community.

WA LAND INFORMATION AUTHORITY (LANDGATE), MIDLAND WA

NOV 2009 – JAN 2012

Geospatial Consultant, Acting Level 4 - Geospatial Products (Customised Mapping)

Key responsibilities:

- Train, mentor and communicate mapping advice and information to staff from other sections that are providing assistance to the Geospatial Products section
- Produce documentation of customised mapping procedures to establish a workable standard for use by team members in the section.
- Member of the Restructure Consultative Committee, and attended top-level meetings in reference to the Department restructure and provided feedback, on the meetings, to staff in my section.
- Produce customised maps, from basic to complex, as required by internal and external clients using aerial photography mosaics, cadastral data, contour data and StreetSmart street directory pages, and other databases using ArcGIS. Manipulate SDE layers and shapefiles into a format suitable for inclusion in a map, to convey a particular requirement or theme.



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PLANNING DESIGN ENVIRONMENT

- Complex mapping involving SQL spatial joins using statistical data from an excel spreadsheet for Sunday Times maps; use query definitions to isolate and display particular data on a map and displaying unique information for each map type.
- Work independently and unsupervised on project mapping, such as for the Energy Resources and Infrastructure map, which included communicating with the project coordinators by providing weekly written or verbal reports.

Key achievements:

- Trained mapping personnel in the mapping procedures for the Geospatial Products section.
- Produced the Sunday Times maps, which involved merging spatial data with Excel spreadsheet data, to identify Perth median house prices for publication in the newspaper.
- Produced the Energy Resources and Infrastructure map (A0 size) as well as an A2 and A3 size versions for inclusion on the Office of Energy website.
- Simplified the organisation of project maps by documenting procedures to enable smoother project production in the future. Created shapefiles for symbols and text to reduce the amount of work required when symbol/text colours or styles are changes, such as for the Office of Energy map.

