



mainroads
WESTERN AUSTRALIA

Asset and Geospatial Information Branch
Survey and Mapping Section

Survey Metadata Standard

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1	May 2015	Standard Developed	All
2	July 2015	Minor amendments in links and wording	2
3	Feb 2016	Fixed broken link	3
4	March 2017	New Format / Review	All
5	July 2022	References and related documents updated Metadata requirements enhanced	3 - 5

1 INTRODUCTION

Metadata, or data about data, describes the content, quality, currency and availability of data. It assists people who use digital information to make decisions in an informed manner. By properly documenting the characteristics of data, the data can be accessed and used by anyone.

The Survey Metadata Standard D15#321963 exists to ensure conformity with Main Roads requirements.

This document should be used in conjunction with Main Roads Survey and Geospatial Services Metadata Guideline 'D12#434784 Metadata Requirements'

1.1 PURPOSE AND SCOPE

This document establishes the requirements for Metadata for Main Roads Western Australia. Work shall be performed and presented as defined herein.

1.2 REFERENCES AND RELATED DOCUMENTS

Document Number	Description
67-08-36	Main Roads Survey and Geospatial Services Standard 67-08-36 Road Reference Marks
67-08-43	Main Roads Survey and Geospatial Services Standard 67-08-43 Digital Ground Survey
67-08-37	Main Roads Survey and Geospatial Services Standard 67-08-37 Minor Control Points
67-08-119	Main Roads Survey and Geospatial Services Standard 67-08-119 Data Lodgement
67-08-121	Main Roads Survey and Geospatial Services Standard 67-08-121 Underground Utilities Survey

The latest copy of these standards is located on the Main Roads website.

<https://www.mainroads.wa.gov.au/BuildingRoads/StandardsTechnical/Survey/Pages/home.aspx>

2 ABBREVIATIONS

The following terms used in this procedure have the specific meanings indicated:

MAP – Mapping

UUS – Underground Utility Surveys

DGS – Digital Ground Surveys

PC – Point Cloud

SLK – Straight Line Kilometres. The location system defined by Main Roads to define features along a road.

3 METADATA REQUIREMENTS

Metadata, in regards to Detail Ground Survey, Underground Utility Survey, Point Cloud, Mapping and Digital Rectified Imagery, each have different terminologies, technical detail and attributes. Hence each type of data has its' own metadata form.

It is an essential requirement that all data supplied by Main Roads to external sources undertaking work for Main Roads be accompanied by a Metadata Statement, using the appropriate form.

Additionally, when contractors for Main Roads submit data as part of project or contract deliverables, a metadata statement must accompany the data using the appropriate form.

The forms below are to be used when submitting data to Main Roads. The forms have been designed to simplify and standardise metadata statements. All forms are located on the [Main Roads website](#).

- Metadata Statement Form – Digital Ground Survey
- Metadata Statement Form – Digital Rectified Imagery
- Metadata Statement Form – Point Cloud (covers both Aerial Lidar and MLS Data Standards)
- Metadata Statement Form – Mapping
- Metadata Statement Form – Underground Utilities Survey

3.1 STANDARD INFORMATION

The information needed to create the metadata is often readily available when the data is collected or when been processed, and although each statement has common fields running throughout them, some information is unique to that method of data collection

Some of the common details are:

1. Project title with Panel Contract number and Consultant's reference number
2. Contact information for the custodians, owners, and collectors of the data
3. Geographical details including road name and SLK references
4. Data collection dates and methods
5. Listing of the control used
6. Contact information for the custodians, owners and collectors of the data
7. All standards used when collecting this survey information
8. Additional notes and comments

Any doubt on completing these forms or need clarification on any aspect, please contact the MRWA Survey Manager or email surveying@mainroads.wa.gov.au / ph 138 138

3.2 METADATA STATEMENT COMPLETION GUIDE

TYPE	TITLE	EXAMPLE(S)
ALL	Project/Survey Title	Name of project
ALL	Panel Contract Job #	Unique MRWA job number, e.g., 2022CEN1234
ALL	Consultants Ref #	The Consultants unique, internal reference number
ALL	Consultant Details	Details of lead contractor PM
ALL	Custodian Contact Details	Details of MRWA Survey Manager or Survey Data Co-ordinator
ALL	Geographic Details	Projection of data, e.g., PCG94 or MGA2020z50 Vertical datum and Geoid model used Road name or number or both, e.g., H006 Great Northern Highway
ALL	Data Collection Method	Check all methods that have been used in capturing the survey information Add any other method into Other Notes/Comments if necessary
DGS UUS MAP	Non-Standard Codes Used	Indicate any non-standard code used. Try and make sure you don't use a non-standard code unless you really need to. Contact the Survey Data Co-ordinator to seek any coding clarifications.
DGS UUS MAP	List of Control Used	Add all control used to complete the survey, but make a special note to mention which control points were adjusted
ALL	Data Collection	Start and end date of your survey Start and end date of flying/mapping Mapping Class: A, B or C Mapping Scale
ALL	Standards Used	Check all standards used for the lodged survey
ALL	Other Notes/Comments	Add any project specific information here that was clearly outlined in the scope that would make it different to a complete DGS survey indicated in Main Roads Survey and Geospatial Services Standard 67-08-43 Digital Ground Survey Some examples are: No culverts captured. No guideposts captured. Only spot heights needed on road centreline. 2D fences only Untargeted point cloud
UUS	Service Data Collection Method	Check all methods that have been used in capturing the UUS information
UUS	List of Attached Files	Check all files supplied
UUS	Data Class	Check all classes of data covered within survey
MAP	Bounding Box	If applicable
PC	Point Cloud Details	LiDAR class if applicable Intensity or RGB Values