

Identification\_Information:

Citation:

Citation\_Information:

Originator: Manitoba Infrastructure and Transportation, Planning and Design Branch,  
Geographic & Records Management Section

Publication\_Date: 2014

Publication\_Time: Unknown

Title: Linear Referencing System

Edition:

Geospatial\_Data\_Presentation\_Form: Linear Features

Series\_Information:

Publication\_Information:

Other\_Citation\_Details:

The Manitoba Land Initiative data warehouse web site provides a means to  
access land based information directly

Online\_Linkage: <https://mli2.gov.mb.ca/>

Larger\_Work\_Citation:

Citation\_Information:

Series\_Information:

Publication\_Information:

Description:

Abstract:

The Linear Referencing System is the digital representation of the Highway  
Network in Manitoba. The features indicate highway number and highway  
identity. This data was corrected using 1:60,000 digital ortho aerial photography  
dated from 1991-1998. Linear features have been updated on a yearly basis  
using GPS data, CAD files and 50cm imagery from 2007-2014.

Purpose:

To provide the public with high accuracy centre line of the Highway Network in  
Manitoba.

Time\_Period\_of\_Content:

Time\_Period\_Information:

Single\_Date/Time:

Range\_of\_Dates/Times:

Beginning\_Date: 20140101

Ending\_Date: 20141231

Multiple\_Dates/Times:

Currentness\_Reference: Publication Date

Status:

Progress: In work

Maintenance\_and\_Update\_Frequency: Yearly

Spatial\_Domain:

Bounding\_Coordinates

West\_Bounding\_Coordinate:

East\_Bounding\_Coordinate:

North\_Bounding\_Coordinate:

South\_Bounding\_Coordinate:

Keywords:

Theme:

Theme\_Keyword\_Thesaurus: None

Theme\_Keyword: None

Theme\_Keyword: None

Theme\_Keyword: None

Place:

Place\_Keyword\_Thesaurus: None

Place\_Keyword: None

Place\_Keyword: None

Place\_Keyword: None

Stratum:

Temporal:

Access\_Constraints: None

Use\_Constraints:

The data represent the results of data collection / processing for a specific activity and indicates the general existing conditions. As such, it is only valid for its intended use, content, time, and accuracy specifications. The user is responsible for the results of any application of the data for other than its intended purpose.

Point\_of\_Contact:

Contact\_Information:

Contact\_Person\_Primary:

Contact\_Organization\_Primary:

Contact\_Organization: Manitoba Infrastructure and Transportation

Contact\_Person: Andrew Lindsay

Contact\_Position: Senior Geographic Tech.

Contact\_Address:

Address\_Type: mailing and physical address

Address: 1420 215 Garry Street

City: Winnipeg

State\_or\_Province: Manitoba

Postal\_Code: R3C 3P3

Country: Canada

Contact\_Voice\_Telephone: (204) 945-8612

Contact\_Facsimile\_Telephone: (204) 945-0593

Contact\_Electronic\_Mail\_Address: [andrew.lindsay@gov.mb.ca](mailto:andrew.lindsay@gov.mb.ca)

Security\_Information:

Native\_Data\_Set\_Environment:

Operating System is Windows NT.

Applications are based on the CARIS (Computer Aided Resource Information System).

Data is available in SHP, KML and DXF format.

Cross\_Reference:

Citation\_Information:

Series\_Information:

Publication\_Information:

Data\_Quality\_Information:

Attribute\_Accuracy:

Positional\_Accuracy:

Horizontal\_Positional\_Accuracy: 2.0 – 7.0 metres

Vertical\_Positional\_Accuracy:

Lineage:

Source\_Information:

Source\_Citation:

Citation\_Information:

Series\_Information:

Publication\_Information:

Larger\_Work\_Citation:

Citation\_Information:

Series\_Information:

Publication\_Information:

Source\_Time\_Period\_of\_Content:

Time\_Period\_Information:

Single\_Date/Time:

Range\_of\_Dates/Times:

Multiple\_Dates/Times:

Process\_Step:  
  Process\_Contact:  
    Contact\_Information:  
      Contact\_Person\_Primary:  
      Contact\_Organization\_Primary:  
      Contact\_Address:  
Spatial\_Data\_Organization\_Information:  
  Spatial\_Reference\_Information:  
    Horizontal\_Coordinate\_System\_Definition:  
      Planar:  
        Map\_Projection:  
          Map\_Projection\_Name: Universal Transverse Mercator (UTM),  
          NAD 83, zone 14.  
        Planar\_Coordinate\_Information:  
          Planar\_Coordinate\_Encoding\_Method: coordinate pair  
          Coordinate\_Representation:  
            Abscissa\_Resolution: 2.0  
            Ordinate\_Resolution: 2.0  
        Distance\_and\_Bearing\_Representation:  
          Planar\_Distance\_Units: Meters  
      Geodetic\_Model:  
        Horizontal\_Datum\_Name: North American Datum of 1983  
        Ellipsoid\_Name: Geodetic Reference System 80  
        Semi-major\_Axis: Unknown  
        Denominator\_of\_Flattening\_Ratio: Unknown  
    Vertical\_Coordinate\_System\_Definition:  
      Altitude\_System\_Definition:  
        Altitude\_Datum\_Name:  
        Altitude\_Resolution:  
        Altitude\_Distance\_Units:  
        Altitude\_Encoding\_Method:  
      Depth\_System\_Definition:  
        Depth\_Datum\_Name:  
        Depth\_Resolution:  
        Depth\_Distance\_Units:  
        Depth\_Encoding\_Method:  
Entity\_and\_Attribute\_Information:  
  Detailed\_Description:  
    Entity\_Type:  
      Attribute:  
        Attribute\_Domain\_Values:  
        Attribute\_Value\_Accuracy\_Information:  
    Overview\_Description:  
Distribution\_Information:  
  Distributor:  
    Contact\_Information:  
      Contact\_Person\_Primary:  
      Contact\_Organization\_Primary:  
        Contact\_Organization: Highway Planning and Design Branch,  
        Geographic & Records Management Section  
      Contact\_Person: Andrew Lindsay  
      Contact\_Position: Lead GIS Tech.  
      Contact\_Address:  
        Address\_Type: mailing and physical address  
        Address: 1420 215 Garry Street  
        City: Winnipeg

State\_or\_Province: Manitoba

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Contact\_Electronic\_Mail\_Address: [andrew.lindsay@gov.mb.ca](mailto:andrew.lindsay@gov.mb.ca)

Distribution\_Liability:

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Standard\_Order\_Process:

Digital\_Form:

Digital\_Transfer\_Information:

Digital\_Transfer\_Option:

Online\_Option:

Computer\_Contact\_Information:

Network\_Address:

Dialup\_Instructions:

OffLine\_Option:

Recording\_Capacity:

Available\_Time\_Period:

Time\_Period\_Information:

Single\_Date/Time:

Range\_of\_Dates/Times:

Multiple\_Dates/Times:

Metadata\_Reference\_Information:

Metadata\_Date: 2014-09-18

Metadata\_Contact:

Contact\_Information:

Contact\_Person\_Primary:

Contact\_Organization\_Primary:

Contact\_Organization: Highway Planning and Design Branch,  
Geographic & Records Management Section

Contact\_Person: Andrew Lindsay

Contact\_Position: Lead GIS Tech.

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Metadata\_Standard\_Name: FGDC Content Standards for Digital Geospatial Metadata

Metadata\_Standard\_Version: 19940608

Metadata\_Time\_Convention: Local time

Metadata\_Access\_Constraints: None

Metadata\_Use\_Constraints: None

Metadata\_Security\_Information: