

**Product:**

**Geoscape Evaluation  
Dataset**

**Prepared:**

**May 2016**



# Data Release Report



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# Introduction



Geoscape will be a suite of digital datasets which represent buildings, surface cover, swimming pools, trees, elevation and relationships to representations of other land related data. The Geoscape Evaluation Dataset is a subset of the anticipated national dataset and has been designed to include expected product features. The dataset covers approximately 25 square kilometres within Adelaide, South Australia.

In general terms, source data is derived from remotely sensed and volunteered information sources and is coupled with data across all Australian jurisdictions to produce the final dataset.

PSMA's Geoscape Evaluation Dataset has been specifically created for the purposes of demonstrating structure and quality of potential new national product(s). Final characteristics of a full production version are likely to vary based on market feedback.

For more information, please refer to the Geoscape Evaluation Dataset Product Description.

## Document Purpose

This document provides a description of the issues, changes, features, update and overarching statistics relating to the applicable data release. This document should be read in conjunction with the relevant Product Description.

## Audience

This document is intended to be used by business managers, data managers and analysts as a guide and reference to understanding the content and variations within a data release.

## Support

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# Overview

The May release of PSMA's Geoscape Evaluation Dataset data contains:

- 32,857 building footprints with associated attributes / relationships.
- Approximately 25 square kilometres of Surface Cover at a 2 metre resolution.
- Approximately 25 square kilometres of Surface Cover at a 30 metre resolution.

Supporting imagery supplied as part of the Geoscape Evaluation Dataset does not form part of the Geoscape Product.

## Updates

- Buildings are supplied across approximately 25 square kilometres of urban South Australia.
- The May Evaluation Dataset release is a supply of all Geoscape themes, including; buildings, swimming pools, surface cover and trees.
- Swimming pool data is only extracted where there is a building address relationship.
- The PSMA February 2016 release data was used to create relationships between products.

## Issues

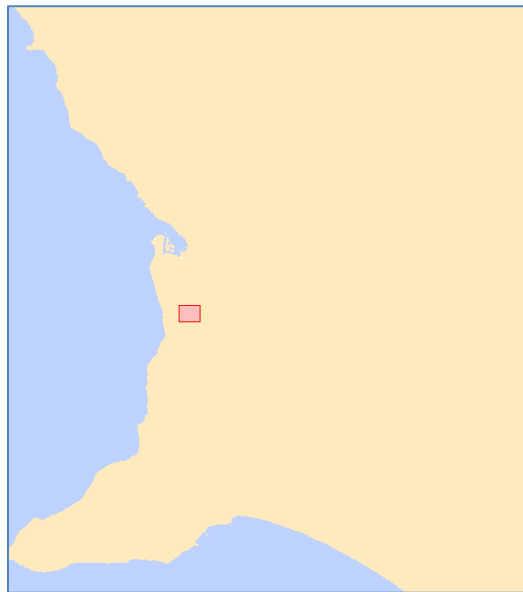
- Larger number than expected of BUILDING\_ADDRESS features with a Process Type 2 due to the inclusion of address site geocodes for South Australia.

# Updates and Issues

## Updates

The extent of the themes for the May 2016 release of the Geoscape Evaluation Dataset covers the following area:

- Approximately 25 square kilometres



- The May Evaluation Dataset release is a supply of all Geoscape themes, including; buildings, swimming pools, surface cover and trees.
- Swimming pools addresses have only been extracted where there is also a building address relationship.
- The PSMA February 2016 release data was used to create relationships between products

## Issues

With the inclusion of Address Site Geocodes, to handle the large number of property access point addresses, there is an increased number of process type 2 codes in the building address table. Due to the existence of an address default geocode and a site geocode, the address points have been counted twice resulting in a lower count for type 1 (single address within the building polygon), and a higher count for type 2 (multiple addresses within the building polygon).

The address counts are accurate and have not been affected.

# Future Considerations

The future of the Geoscape product as it is in the Evaluation Dataset, including attribution, will be dependent on market feedback and availability of image and elevation sources in nominated areas.

# Summary Statistics

## Totals

Jurisdiction	Table	MAY 2016
SA	Building	32,857
SA	Building Polygon	32,857
SA	Building Address	59,303
SA	Building CAD	69,208
SA	Building Property	70,417
SA	Building Zone	33,037
SA	Swimming Pool Address	2,013
SA	Surface Cover 2m (km <sup>2</sup> )	25
SA	Surface Cover 30m (km <sup>2</sup> )	25



# Annex A – Detailed Statistics

Theme	Statistic	MAY 2016
BUILDING	MAX ADDRESS COUNT	188
BUILDING	MIN ADDRESS COUNT	0
BUILDING	MEAN ADDRESS COUNT	1.8
BUILDING	BUILDINGS WITH NO ADDRESSES	146
BUILDING	BUILDINGS WITH FLAT ROOF	9,512
BUILDING	BUILDINGS WITH MODERATE COMPLEXITY ROOF	22,557
BUILDING	BUILDINGS WITH HIGH COMPLEXITY ROOF	788
BUILDING	ROOF TYPE - UNKNOWN	4,814
BUILDING	ROOF TYPE - UNCLASSIFIED	30
BUILDING	ROOF TYPE - METAL	12,144
BUILDING	ROOF TYPE - TILE	15,004
BUILDING	ROOF TYPE - PLASTIC	726
BUILDING	ROOF TYPE - FLAT CONCRETE	139
BUILDING	SOLAR PANELS - UNKNOWN	0
BUILDING	SOLAR PANELS - YES	4,421
BUILDING	SOLAR PANELS - NO	28,434
BUILDING	SOLAR PANELS - UNDECIDED	2
BUILDING_POLYGON	ADDRESS PROCESS TYPE 1	0
BUILDING_ADDRESS	ADDRESS PROCESS TYPE 2	28,433
BUILDING_ADDRESS	ADDRESS PROCESS TYPE 3	0
BUILDING_ADDRESS	ADDRESS PROCESS TYPE 4	20,804
BUILDING_ADDRESS	ADDRESS PROCESS TYPE 5	9,768
BUILDING_ADDRESS	ADDRESS PROCESS TYPE 6	296
BUILDING_ADDRESS	ADDRESS PROCESS TYPE 7	0
BUILDING_ADDRESS	ADDRESS PROCESS TYPE 8	2
BUILDING_ADDRESS	ADDRESS HAS RESIDENTIAL	48,060
BUILDING_ADDRESS	ADDRESS HAS RESIDENTIAL (DISTINCT BUILDINGS)	30,530
BUILDING_CAD	CAD PROCESS TYPE 1	9,509
BUILDING_CAD	CAD PROCESS TYPE 2	556
BUILDING_CAD	CAD PROCESS TYPE 3	16,786
BUILDING_CAD	CAD PROCESS TYPE 4	19,836
BUILDING_CAD	CAD PROCESS TYPE 5	21,571
BUILDING_CAD	CAD PROCESS TYPE 6	1
BUILDING_CAD	CAD PROCESS TYPE 7	7
BUILDING_CAD	CAD PROCESS TYPE 8	942

Theme	Statistic	MAY 2016
BUILDING_POLYGON	MAX CENTROID ELEVATION	142.3
BUILDING_POLYGON	MIN CENTROID ELEVATION	11.28
BUILDING_POLYGON	MEAN CENTROID ELEVATION	35.63
BUILDING_POLYGON	MAX AREA(sqm)	25,953
BUILDING_POLYGON	MIN AREA(sqm)	9.13
BUILDING_POLYGON	MEAN AREA(sqm)	225.5
BUILDING_POLYGON	MAX MAX HEIGHT	29.94
BUILDING_POLYGON	MIN MAX HEIGHT	0
BUILDING_POLYGON	MEAN MAX HEIGHT	4.39
BUILDING_POLYGON	MAX EAVE HEIGHT	23.29
BUILDING_POLYGON	MIN EAVE HEIGHT	0
BUILDING_POLYGON	MEAN EAVE HEIGHT	2.55
BUILDING_POLYGON	MAX NUMBER OF VERTICES	472
BUILDING_POLYGON	MIN NUMBER OF VERTICES	4
BUILDING_POLYGON	MEAN NUMBER OF VERTICES	8.54
BUILDING_POLYGON	OVERLAPS REMOVED	0
BUILDING_POLYGON	OVERLAPS	0
BUILDING_POLYGON	MULTIPLE CHANGES	0
BUILDING_POLYGON	SPLIT	0
BUILDING_POLYGON	INNER RINGS REMOVED	0
BUILDING_PROPERTY	PROPERTY PROCESS TYPE 1	9,825
BUILDING_PROPERTY	PROPERTY PROCESS TYPE 2	843
BUILDING_PROPERTY	PROPERTY PROCESS TYPE 3	17,052
BUILDING_PROPERTY	PROPERTY PROCESS TYPE 4	21,070
BUILDING_PROPERTY	PROPERTY PROCESS TYPE 5	21,627
BUILDING_PROPERTY	PROPERTY PROCESS TYPE 6	0
BUILDING_PROPERTY	PROPERTY PROCESS TYPE 7	0
BUILDING_PROPERTY	PROPERTY PROCESS TYPE 8	0
BUILDING_ZONE	COMMERCIAL	1,126
BUILDING_ZONE	COMMUNITY USE	130
BUILDING_ZONE	CONSERVATION / NATIONAL PARK	2,033
BUILDING_ZONE	INDUSTRIAL / UTILITIES	708
BUILDING_ZONE	MIXED USE	0
BUILDING_ZONE	RECREATIONAL / OPEN SPACE	7
BUILDING_ZONE	RESIDENTIAL	28,739
BUILDING_ZONE	RURAL / PRIMARY PRODUCTION	0
BUILDING_ZONE	SPECIAL USE	0
BUILDING_ZONE	TRANSPORT / INFRASTRUCTURE	0

Theme	Statistic	MAY 2016
BUILDING_ZONE	WATER	0
BUILDING_ZONE	UNKNOWN	290
SWIMMING_POOL_ADDRESS	UNIQUE SWIMMING POOLS	1,789