Postal Code Boundaries USA

V4.9

Proprietary & Confidential

Contents

Document Control

The information below describes the changes made to this document for each version.

V1.0	15 November 2005	Initial Release
V2.0	23 January 2007	See revision history
V2.1	26 February 2007	See revision history
V3.0	11 September 2007	See revision history
V3.1	19 September 2007	See revision history
V3.2	12 November 2007	See revision history
V3.3	11 July 2008	See revision history
V3.4	02 September 2008	See revision history
V3.5	14 April 2010	See revision history
V3.6	18 February 2011	See revision history
V3.7	02 August 2011	See revision history
V3.8	27 October 2011	See revision history
V3.9	30 April 2012	See revision history
V4.0	18 February 2013	See revision history
V4.1	21 October 2013	See revision history
V4.2	9 January 2014	See revision history
V4.3	22 October 2014	See revision history
V4.4	14 January 2015	See revision history
V4.5	24 September 2015	See revision history
V4.6	8 March 2016	See revision history
V4.7	29 November 2016	See revision history
V4.8	16 February 2017	See revision history
V4.9	22 May 2017	See revision history

Introduction

Purpose

The Postal Code Boundaries USA document is intended to be used in conjunction with the HERE NAVSTREETS product guide. The attribution described in this document is limited to the layers provided for the Postal Code Boundaries USA product.

Audience

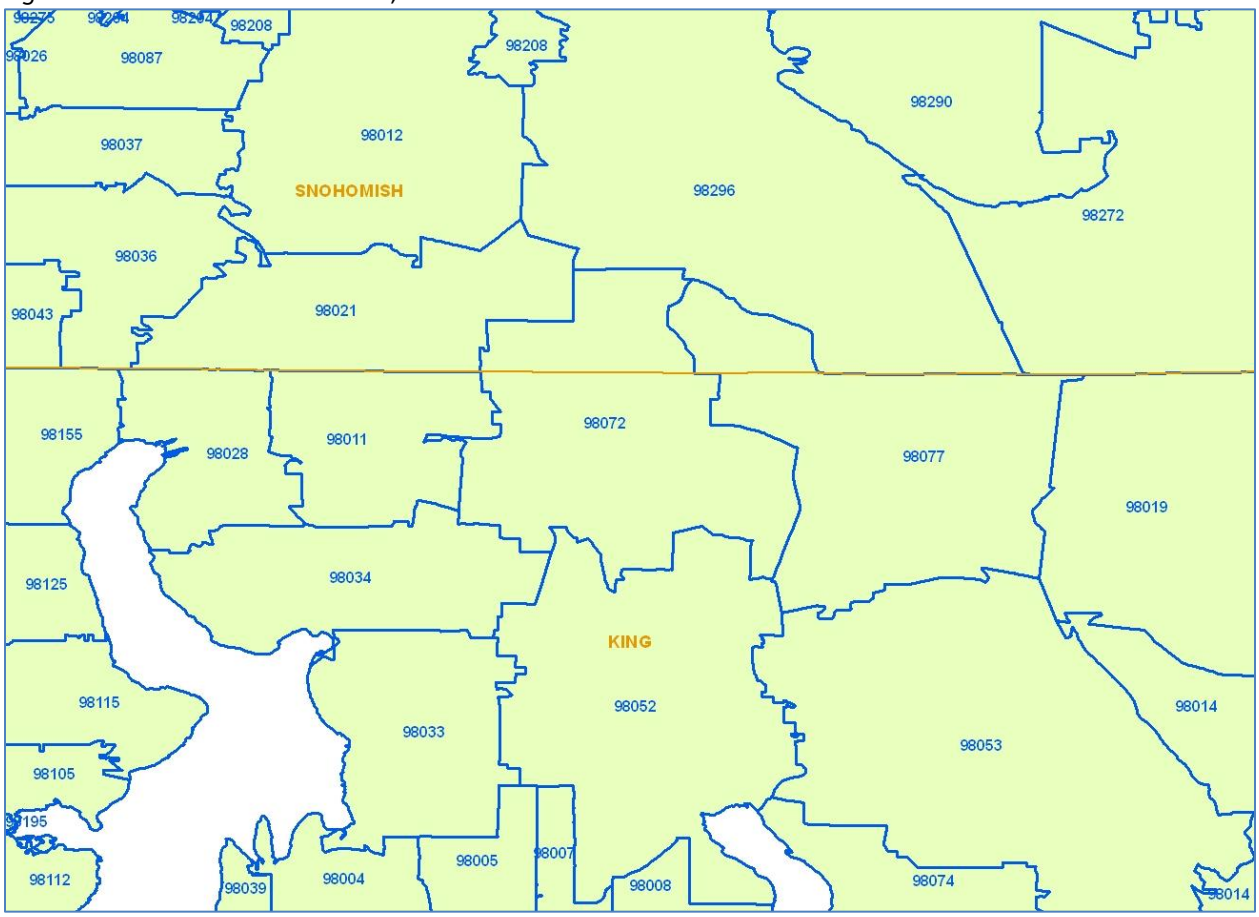
This document is intended for use by HERE staff and current licensees of HERE.

Technical Description

The product includes three distinct versions of the 5-digit Postal Codes (aka ZIP codes). These can be utilised with other HERE Map data for enhanced study. See Table 1 below for attributes. Below are descriptions of the 3 versions:

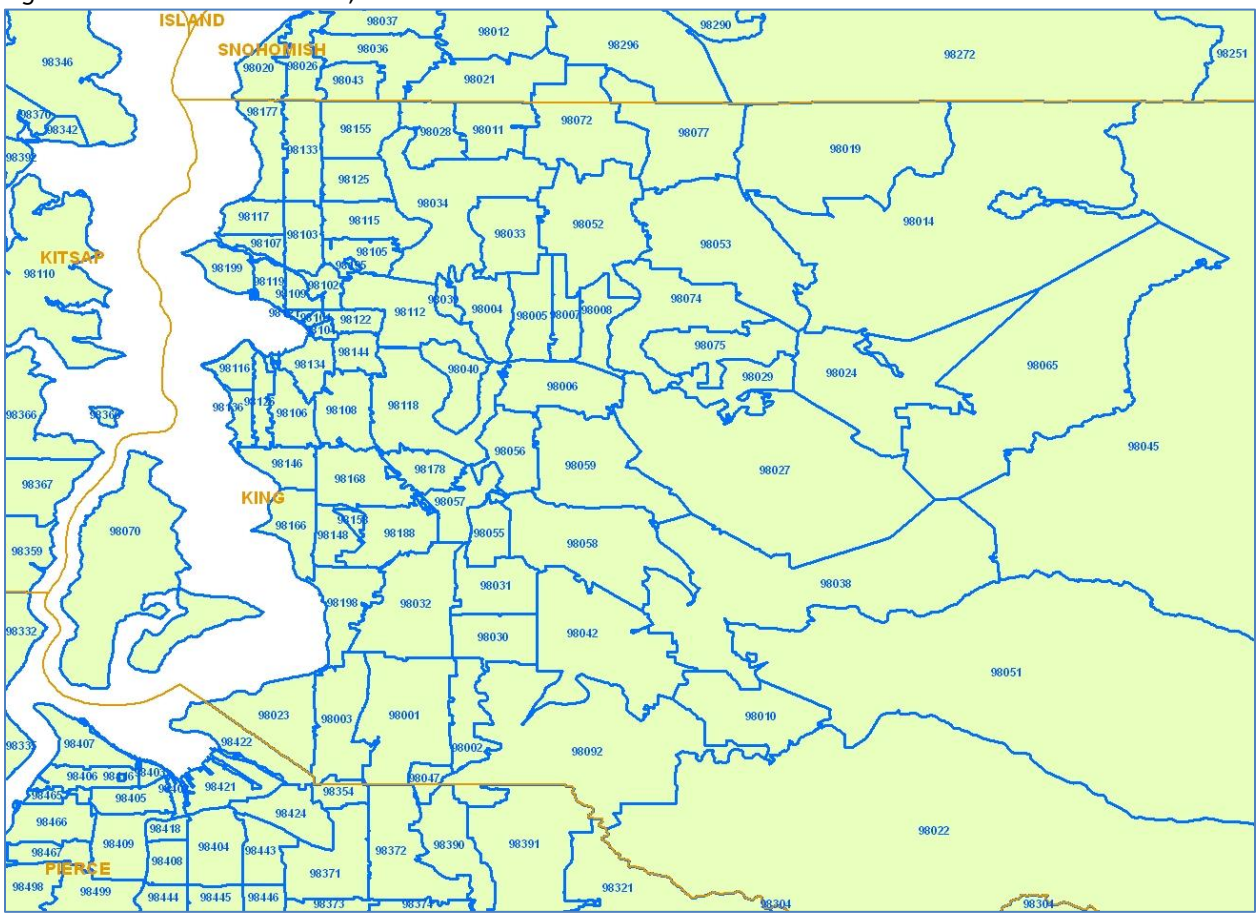
a) With water holes- this version will represent polygonal water features as holes in the postal code polygons if the features are greater than 5 square kilometres. Note: all the water features on coastlines (ocean and lake) will be kept for added detail (feature types that are affected; oceans, bays, etc.). This is what is also called an "un-generalized" UNGEN version.

Figure 1- Un-Generalized version, with water holes



b) Without water holes- this version will represent postal code polygons as a spanning set that limits the representation for polygonal water features or “water holes”. Water holes will exist for only the Great Lakes and Great Salt Lake. This is what is also called a “generalized” GEN version. As a change from previous releases the coastline water features have now been generalized in order to lessen the impact on loading.

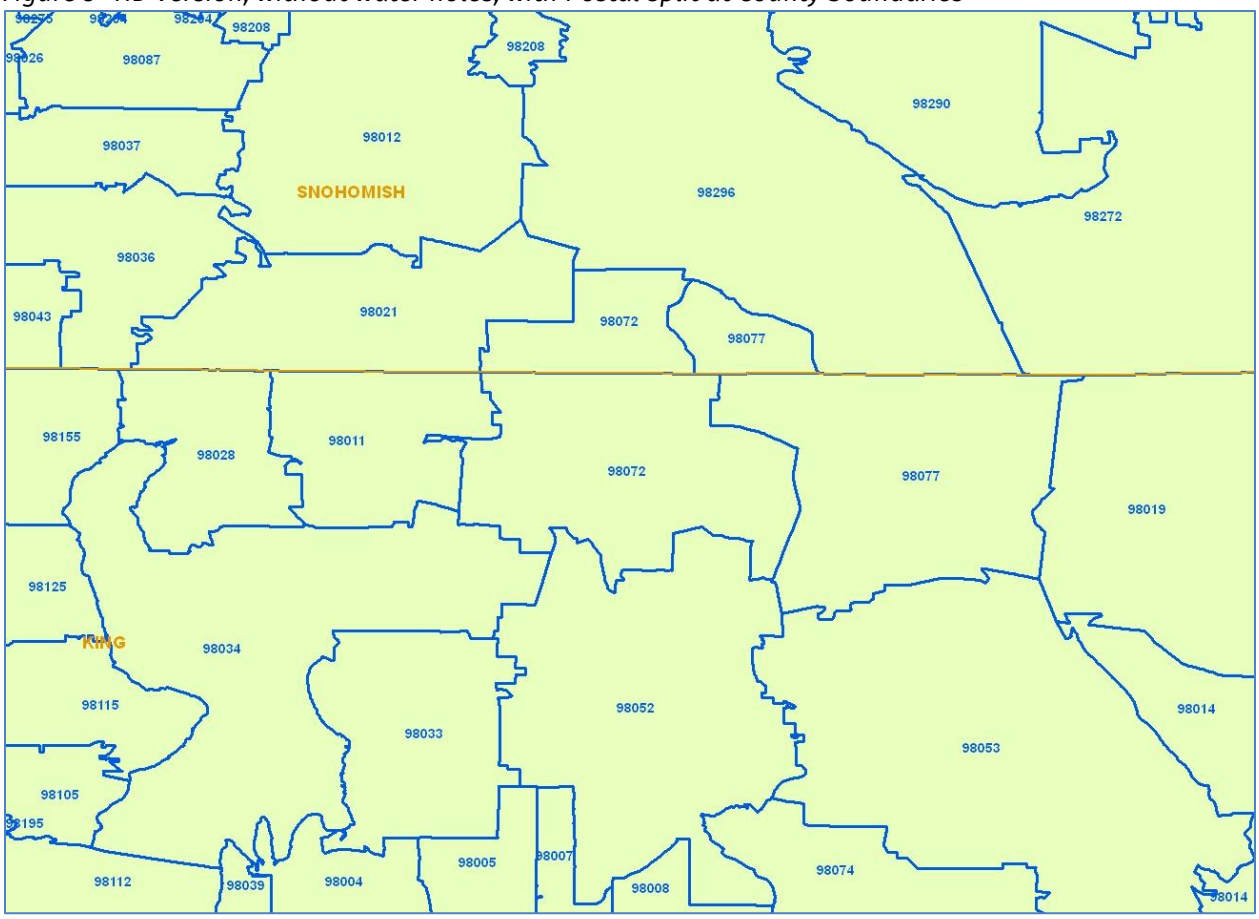
Figure 2- Generalized version, without water holes



c) High Definition, with County- Relative to the standard Postal Code Boundaries product, a significant amount of line work has been created for this HD version, to better segregate delivery to adjacent ZIP codes. The HERE Map line work is still used as much as possible. Boundaries have increased detail to more closely reflect postal code delivery. Water holes will exist for only the Great Lakes and Great Salt Lake.

In this HD version, multi-part ZIP Code boundaries are allowed more often, when needed to reflect non-contiguous postal delivery.

Figure 3- HD version, without water holes, with Postal split at County boundaries



The Postal Code Boundaries product does not have void areas in postal coverage, even if such non-delivery areas exist (such as a remote mountainous area). This is by design, for aesthetic purposes and to ensure that a postal code is assigned to all geographic areas.

The data will also include 3-digit generalized postal code layers: a polygon and point layer. This data has been generalized from the 5-digit postal codes. See Table 2 below for attributes of the 3-digit postal code data.

The data is delivered in the following formats:

5-digit layers

- Polygon shapefiles or TAB files “without water holes”
  - File format: USA_DVN_PCB_PLY_GEN
  - The Polygon file for postal code polygons is delivered as a single merged layer for national coverage.

- Polygon shapefiles or TAB Files “with water holes”
  - File format: USA_DVN_PCB_PLY_UNGEN
  - The Polygon file for postal code polygons is delivered as a single merged layer for national coverage.

- Polygon shapefiles or TAB Files “without water holes”, with Postal Code boundaries split at County boundaries
  - File format: USA_DVN_PCB_PLY_HD
  - The Polygon file for postal code polygons is delivered as a single merged layer for national coverage.

- Point shapefiles or TAB Files
  - File format: USA_DVN_PCB_PTS
  - The Points file for postal code point references is delivered as a single merged layer for national coverage.

- Point shapefiles or TAB Files with Postal Code + County combinations
  - File format: USA_DVN_PCB_PTS_HD
  - The Points file for postal code point references is delivered as a single merged layer for national coverage.

3-digit layers

- Polygon shapefiles or TAB Files
  - File format: USA_DVN_PCB3_PLY
  - The Polygon file for postal code polygons is delivered as a single merged layer for national coverage.
  - No water holes.

- Point shapefiles or TAB Files
  - File format: USA_DVN_PCB3_PTS
  - The Points file for postal code point references is delivered as a single merged layer for national coverage.

Data is also delivered in File Geodatabase (.GDB) format

Coverage

- The Postal Code Boundaries product covers all 50 states of the United States of America, the District of Columbia, Puerto Rico, the US Virgin Islands, Guam, American Samoa, and the Northern Mariana Islands

Character Set

- Windows Latin-1 ANSI (Windows-1252)

Specification

Attributes for 5-digit Polygon and Point layers

Column	Description
POSTCODE	5-digit postal code reference
ISO_CTRY	Country- abbreviation
ADMIN1	Country
ADMIN2	State
ADMIN3	County
ADMIN4	City
ADMIN5	Not applicable
STATE	State abbreviation for the state within which the applicable postal code falls
AREA*	Polygon area
PC_NAME	Name of postal (ZIP) code - for non-unique and PO box postal codes this represents the post office name and for unique organizations postal codes this represents the company or large user name
PC_TYPE	Postal code classification for each postal code reference. Postal code types are as follows: "NON UNIQUE"= General delivery postal code. "UNIQUE ORGANIZATION"= Unique postal code records for companies receiving large quantities of mail. "PO BOX"= Post Office box postal codes. "MILITARY"**= APO, FPO, and DPO
COUNTY	USPS county name within which the applicable postal code falls
PA_NAME	Postal area name (Last line city name from USPS sources)
FIPS_PA	Postal Area (Last Line City) Federal Information Processing Standards (FIPS) code
FIPSCO	County FIPS code
FIPSST	State FIPS code
GNIS	US County GNIS feature ID from the official geographic names repository for the United States.

ACCURACY**	Applies to Point layers only- relates to the source for the positional accuracy of each postal code point location. Values are provided as follows: S= Street level accuracy T= Town, county centroid accuracy PC= Polygon centroid accuracy- from 5-digit Postal Code boundaries CS= County, State centroid accuracy A= Archived (retired) postal codes
ENC_PC**	Applies to Point layers only- postal code reference the postal code point falls within
LINK_ID**	Applies to Point layers only- nearest HERE Map street link_id reference to the applicable point

*Included only in Polygon layer
**Included only in Points layer

Table 1

Attributes for 3-digit Polygon and Point layers

Column	Description
POSTCODE	3-digit postal code reference
ISO_CTRY	Country- abbreviation
ADMIN1	Country
ADMIN2	State
ADMIN3	County
ADMIN4	City
ADMIN5	Not applicable
STATE	State abbreviation for the state within which the applicable postal code falls
AREA*	Polygon area
LINK_ID**	Nearest HERE Map street link_id reference to the applicable point

*Included only in Polygon layer
**Included only in Points layer

Table 2

Revision History

Version	Date	Page #	Description
1.0	15 Nov 05		Initial Release
2.0	23 Jan 07		Updated with product name change
2.1	26 Feb 07		Updated with new file names and delivery format
3.1	19 Sep 07	5	Updated technical description
3.1	19 Sep 07	6	New fields added to 5-digit Polygon and Point layers table
3.1	19 Sep 07	7	Added Table 2, describing specification for 3-digit Polygon and Point layers
3.2	12 Nov 07	5,6	Change the document to be applicable to Tab and Shapefile.
3.3	11 Jul 08	all	Product name change from NAVTEQ ZIP Codes to Postal Code Boundaries done for global alignment. “ZIP” changed to “postal” in many places.
3.4	2 Sep 08	5	Without Water Holes definition was updated. This should have been reflected in version 3.3. It was omitted by mistake.
3.5	14 Apr 10	5	Without Water Holes and Water Holes definitions were updated. The creation approach was slightly changed.
3.6	18 Feb 11	5,6	Added clarification regarding the display of boundaries, that there are no void areas in the product, also updated the coverage description to include Puerto Rico and USVI.
3.7	02 Aug 11	6	Added new File Geodatabase (GDB) format
3.8	27 Oct 11	5	Added new 3rd layer, un-generalized without water holes
3.9	30 Apr 12	5,7	Updated file naming format; added figs. 1-3 for data layers
4.0	18 Feb 13	8-10	Updated schema/file layout for data
4.1	21 Oct 13	9	Added “A” accuracy level for archived/retired postal codes
4.2	9 Jan 14	9,10	ADMIN5 is Not Applicable
4.3	22 Oct 14	7	Note on multiple points within the UNGEN C layer
4.4	14 Jan 15	9	Included information for PC_TYPE: “Military”
4.5	25 Sep 15	8-10	General updates to the Attributes and DVN usage as well as adding GNIS for counties
4.6	8 Mar 16	7-8	Two new layers- High Definition polygon layer and a High Definition points layer. These layers replace the Un-generalized County polygon and points layer.
4.7	29 Nov 16	9	Coverage expansion of Guam, American Samoa, and the Northern Mariana Islands
4.8	16 Feb 17	9	Clarification on Character Set Encoding
4.9	22 May 17	6-7	Generalized and HD layers includes water cuts for the Great Lakes and Great Salt Lake