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| Add Sites To Vegsys Documentation |
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| Application Documentation |
| Image of Stantec logoImage of Stantec logo |
| Prepared for: 1235 Vegetation  Prepared by: Andrew Befus |
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|  |
| September 8, 2016 |

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Table of Contents

[Executive Summary i](#_Toc461103723)

[Abbreviations ii](#_Toc461103724)

[Glossary iii](#_Toc461103725)

[1.0 Excel Spreadsheet Specifications 1.1](#_Toc461103726)

[2.0 References 2.1](#_Toc461103727)

List of Tables

[Table 1 Supported Site Values 1.1](#_Toc461104077)

List of Figures

List of Appendices

[Appendix A A.1](#_Toc398800732)

[A.1 Heading 8 A.1](#_Toc398800733)

[A.1.1 Heading 9 A.1](#_Toc398800734)

Executive Summary

Abbreviations

|  |  |
| --- | --- |
| NAD 1983 | North American Datum of 1983 |

Glossary

|  |  |
| --- | --- |
| Datum | A mathematical approximation of the shape of the Earth used to turn elliptical coordinates (Lat/Long) into flat ones (UTM). A datum is calculated from two elliptical axes and a flattening coefficient. |

# Excel Spreadsheet Specifications

The input excel spreadsheet has to meet a few standards or the data will not be successfully transferred. Table 1 shows which data can be transferred using the application.

Table Supported Site Values

|  |  |  |  |
| --- | --- | --- | --- |
| Attribute | Acceptable Headings | Data Type | Required |
| SiteNumber | SiteNumber, SiteID, Site, Ident, ID | string | Yes |
| ProjectNumber | ProjectNumber | string | Yes |
| ProjectName | ProjectName | string | No |
| Latitude | Latitude, Lat | number | Yes, or Northing |
| Longitude | Longitude, Lon, Long | number | Yes, or Easting |
| Easting | Easting, UTMX, X, East, XProj | number | Yes, or Longitude |
| Northing | Northing, UTMY, Y, North, YProj | number | Yes, or Latitude |
| Comments | Comments, Comment, Notes, Note, Comm | string | No |
| Elevation | Elevation, Elev, UTMZ, Altitude, Z | string | No |
| CreateDate | CreateDate, Date, DateTime, LTime, Time | date | Yes |
| DatumCode | DatumCode, Datum, Projection | string | Yes, or use Lat/Long |
| Zone | Zone, UTMZone | integer | Yes, or use Lat/Long |

The following rules must be followed to ensure a successful transfer:

* If you have site data that is not listed in Table 1, the application will have to be updated. Contact IM to get the update.
* Your Excel file must also have only acceptable headings, as shown in Table 1. If you have a heading name that does not match ***one*** of the acceptable headings, fix it. It is best practice to use the first acceptable heading in the list to reduce the possibility of error
* Spaces, capitalization, underscores, and dashes will be removed and ignored
* The data in your table must be parseable into the datatype specified in Table 1. That means if you enter a longitude value of “114.3W”, your data will not be transferred as longitude must contain a valid number. Of particular concern are dates. With date, you should either:
  1. make sure you format any date columns as Date in Excel
  2. be very consistent in how you write your dates and ***don’t use ambiguous numbers*** like “07/09/16” - the application may confuse which of these numbers is the day, year, or month. Date formats like “07 SEPT 2016”, “September 7, 2016” or “07-SEP-2016” ***will be correctly read*** by the application
* If you enter a UTM easting or northing instead of a latitude and longitude, add the datum and zone, otherwise you are just writing ambiguous numbers that mean nothing. NAD 1983 and WGS 1984 are common datums. UTM Zones in Alberta are 11 (west of the 25 Street Stantec building) and 12 (east of the 25 Street Stantec Building). If you enter a Latitude and Longitude, UTM will automatically be calculated as NAD 1983, and the UTM Zone will be determined automatically.

# References

Andrew Befus

APPENDIX/DIVIDER TITLE

1. 1. Heading 8
      1. Heading 9