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| Survey Mark Enquiry Service User Guide  Edition 1 |
|  |
| January 2021 |

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| Survey Marks Enquiry Service User Guide |
|  |
| December 2020 |

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Abbreviations

|  |  |
| --- | --- |
| **AHD** | Australian Height Datum |
| **GDA** | Geocentric Datum of Australia |
| **GNSS** | Global Navigation Satellite System |
| **LASSI** | Land and Survey Spatial Information |
| **Non-SCN** | Non-Survey Control Network |
| **PCM** | Primary Cadastral Mark |
| **PM** | Permanent Mark |
| **SCN** | Survey Control Network |
| **SGV** | Surveyor General Victoria |
| **SMES** | Survey Marks Enquiry Service |

Summary

The Survey Mark Enquiry Service (SMES) User Guide provides a summary of the functionality and survey control mark information available within SMES. The document highlights available tools and functionality to query and interact with survey control mark information and includes suggestions, step-by-step guidelines and screenshots to support users interacting with SMES. The SMES User Guide also includes additional background and details for survey control mark information available within SMES.

# Introduction - What is SMES?

SMES Website: <https://maps.land.vic.gov.au/lassi/SmesUI.jsp>

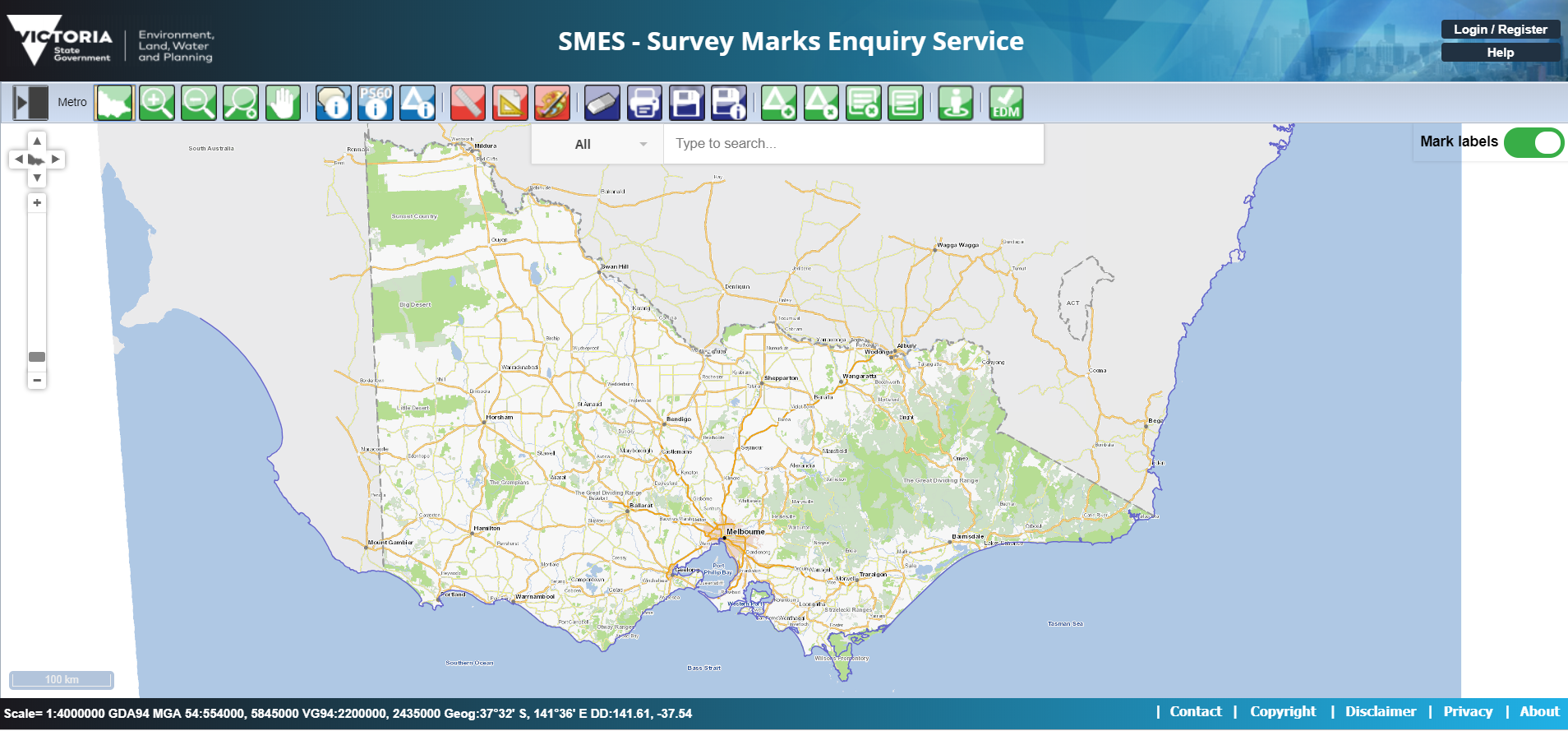


Figure 1: The SMES website

Source: SMES website, accessed June 2020, <https://maps.land.vic.gov.au/lassi/SmesUI.jsp>,

SMES is an interactive online application that provides access to information about survey marks across Victoria free of charge. Registered users of the service have access to additional functionality for the submission and update of survey mark information. This collaborative platform enables survey marks to be lodged and updated as required.

SMES is part of the Land and Survey Spatial Information (LASSI) suite of applications which includes:

* LASSI - Land and Survey Spatial Information
* **SMES - Survey Marks Enquiry Service**
* SPEAR - Surveying and Planning through Electronic Applications and Referrals
* VicNames - Register of Geographic Names

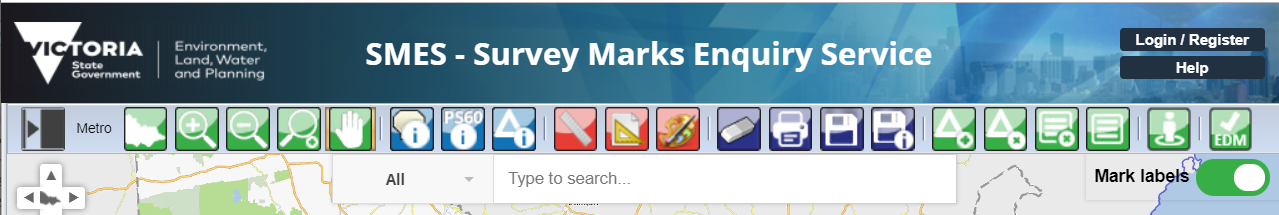
SMES resources

## SMES User Guide

This SMES User Guide is primarily designed for newer users and covers basic functionality. More experienced users may find this useful to refer to for specific steps or topics. Click on the topic of interest in the contents page to be taken directly to that section. Sections that relate to another topic within this guide are also linked.

## Help guide

An existing general *Help* guide is available in SMES, in the top right corner, under “Login/Register”. It contains information about SMES search functions and tools.



## A brief history of SMES

![A group of people performing on a counter

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAkACQAAD/4REQRXhpZgAATU0AKgAAAAgABAE7AAIAAAAXAAAISodpAAQAAAABAAAIYpydAAEAAAAuAAAQ2uocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAElzYWJlbCBQYWNoZWNvIChERUxXUCkAAAAFkAMAAgAAABQAABCwkAQAAgAAABQAABDEkpEAAgAAAAMyMwAAkpIAAgAAAAMyMwAA6hwABwAACAwAAAikAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Figure 2: The original Survey Marks Enquiry Service.

Figure : Timeline evolution of SMES

## Resources available on the Department website

The Department website contains free resources to download and support SMES users, as outlined below.

<https://www.land.vic.gov.au/surveying/services/survey-marks-enquiry-service>

### SMES factsheet

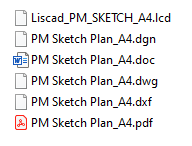
A short summary of what SMES is and an explanation of the survey mark symbology.

<https://www.land.vic.gov.au/__data/assets/word_doc/0017/512333/SMES_fact_sheet_Feb2021.docx>

### Sketch plan templates

Free sketch plan templates in a variety of file formats available to download and use for survey mark submissions.

<https://www.land.vic.gov.au/__data/assets/file/0027/494325/Permanent-Mark-Sketch-Plan-Templates.zip>



For more information on sketch plan submissions see [10.1 Submit a new survey mark](#_Submit_a_new) or [11.1 Update an existing mark](#_Update_an_existing).

### Survey mark protection & maintenance factsheet

A factsheet that outlines the relevant legislation and responsible parties for the protection and maintenance of the survey mark network. A useful resource to share with other relevant stakeholders.

https://www.land.vic.gov.au/\_\_data/assets/word\_doc/0016/512332/Protection-and-Maintenance-of-survey-control-marks-fact-sheet-v2.docx

### Submission of GNSS data

Geodesy within Surveyor-General Victoria (SGV) accepts submissions of GNSS survey data, for processing and inclusion in the Victorian Survey Control Network (SCN). A factsheet and sample booking sheet are available on the Department website.

GNSS submission factsheet

<https://www.land.vic.gov.au/__data/assets/word_doc/0015/512331/GNSS-Submission-Fact-Sheet-v2.docx>

GNSS booking sheet

<https://www.land.vic.gov.au/__data/assets/word_doc/0029/494318/DELWP-GNSS-Booking-Sheet-Template_FINAL.docx>

For more information about this topic see [13.1 Submission of GNSS Data.](#_Submission_of_GNSS)

Survey mark naming convention

## Permanent mark name

Each permanent mark name comprises of the Parish Name it is in, followed by a sequential mark number.

| Permanent mark name explanation | Screenshots |
| --- | --- |
| * **Name:** Parish Name + Permanent Mark Number * **Parish Name:** The name of the parish where the survey mark is located * St Arnaud * **Permanent Mark (PM) Number:** A sequential number that increases with each new survey mark within a parish that is reserved and lodged in SMES. * *PM 3* |  |

## Mark 9 figure number

Each survey mark has a unique 9 figure “Number” that contains information about that mark.The nine figure number features the parish number, permanent mark number and identifier as to whether it is the primary mark or a supporting eccentric mark.

| 9 figure number explanation | Screenshots |
| --- | --- |
| 1. **Number:** Nine figure number unique to that survey mark 2. **Parish Number:** Each Parish has a unique 4-character number. 3. **Permanent Mark Number:** A sequential number that increases with each new survey mark within a parish that is reserved and lodged in SMES. 4. **Mark Type:** Primary Mark = 0, Eccentric Mark = 1-9 | |  |  |  | | --- | --- | --- | | **3463** | **0003** | **0** | | **Parish number** | **Permanent Mark number** | **Mark type** | | St Arnaud | 3 | Primary mark | |

| Primary and Eccentric survey mark explanation | Screenshots |
| --- | --- |
| * **Primary and Eccentric Mark:** Some survey marks have a primary mark (ending in **0**) and a related eccentric mark (ending **1-9**). * **Primary Mark:** St Arnaud PM 154 (34630154**0**) * **Eccentric Mark:** View PT MW TWR (34630154**1**) | |  |  |  | | --- | --- | --- | | **3463** | **0154** | **0** | | **Parish number** | **Permanent Mark number** | **Mark type** | | St Arnaud | 154 | Primary mark |      |  |  |  | | --- | --- | --- | | **3463** | **0154** | **1** | | **Parish number** | **Permanent Mark number** | **Mark type** | | St Arnaud | 154 | Eccentric mark | |

## Alternative mark names

Some survey marks may have a more unusual name or an additional or “secondary” mark name/s. When identifying a mark, the alternative mark names appear under the Permanent Mark Name. These additional names are alternative identifiers that may be referenced in other organisation documents. SMES records are updated when survey mark information is provided to the Department.

For more information see [12. Incorporation of survey mark information from other organisations.](#_Survey_mark_information)

| Alternative mark name examples | Screenshots |
| --- | --- |
| * **MMB 6665**   + Melbourne Metropolitan Board of Water * **1537-6H**   + **1537** Level Book name   + **-6** next mark in levelling sequence   + **H** for High Stability Mark * **GPSNET Ballarat**   + GPSNet station at Ballarat * **SR78H74**   + State Rivers |  |

Survey mark symbology

## Survey mark symbology and description

SMES symbols provide a simple and convenient way to determine the lineage and quality of that survey mark. All the symbols are visible by default in the SMES map except Defective marks.

| Symbol | Description |
| --- | --- |
|  | SCN (GDA) & Adjusted AHD Mark  PM with adjusted GDA coordinates, level-adjusted AHD height |
|  | Non-SCN (GDA) & Adjusted AHD Mark. PM with estimated GDA coordinates, level-adjusted AHD height |
|  | SCN (GDA) & AHD Mark PM with adjusted GDA coordinates, levelled AHD height |
|  | Non-SCN (GDA) & AHD Mark PM with estimated GDA coordinates, levelled AHD height |
|  | SCN (GDA) & Estimated AHD Mark  PM with adjusted GDA coordinates, estimated AHD height |
|  | SCN (GDA) Mark  PM with adjusted GDA coordinates, no AHD height |
|  | Non-SCN (GDA) Mark & Estimated AHD Mark PM or PCM with estimated GDA coordinates, estimated AHD height |
|  | Non-SCN (GDA) Mark  PM with estimated GDA coordinates, no AHD height |
|  | PCM – Primary Cadastral Mark  PCM with estimated coordinates, no AHD height |
|  | Defective PM or PCM  Mark status NOT OK (damaged, disturbed, destroyed etc) |

**SCN:** Survey Control Network **PM:** Permanent Mark **AHD:** Australian Height Datum  
**GDA:** Geocentric Datum of Australia **PCM:** Primary Cadastral Mark

See [2.4.1 SMES Factsheet](#_SMES_factsheet) for additional information about SMES.

Evolution of a survey mark in SMES

## Evolution of a survey mark

A survey mark can evolve in SMES, from Non-SCN to SCN (Survey Control Network) and from No/Estimated AHD to Levelled and Level-Adjusted AHD.

**Note** This is a general overview, each submission and update are unique to that survey mark.

| Category A | Category B | Category C |
| --- | --- | --- |
|  |  |  |
| Any new or updated survey marks submitted by registered users through SMES remain as Non SCN (GDA) marks and No/Estimated AHD. | Category A marks are upgraded to Category B when raw GNSS data or level measurements are provided to SMES Support.  Category B marks are rigorously adjusted and will have H/V Uncertainty values and GDA/AHD published dates. | When a mark is changed from OK to other (e.g. disturbed, destroyed etc.) it becomes a defective mark (red dot).  Defective marks are not visible in the default map layers.  They are NOT included in SMES mark searches. |

**Category A**

For more information about submitting or updating survey marks see [10.Submit a New Survey Mark](#_Submit_a_new) or [11.Update an existing survey mark.](#_Update_an_existing)

**Category B**

For more information about submitting Global Navigation Satellite System (GNSS) data ss [13.1 Submission of GNSS Data.](#_Submission_of_GNSS)

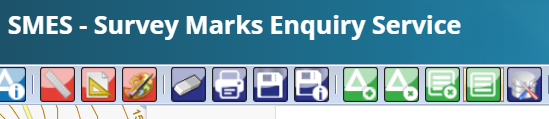
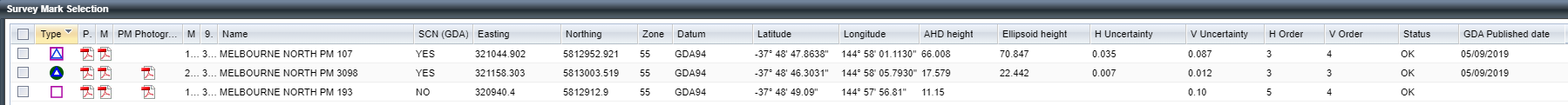
**Category C**

For more information about updating a survey mark with a “defective” status see [11.2 Update the status of a survey mark.](#_Update_the_status)

How to distinguish between adjusted and non-adjusted survey marks

It can be difficult to distinguish between marks based upon symbology alone. The attributes in the Mark Selection Window can help.

1. Add any survey marks of interest to your mark selection list, then open “Display Mark Selection Window” and scroll left along the window to see the relevant attributes mentioned below in the table.

**** 

## Horizontal uncertainty for adjusted survey marks

| Symbol | H Uncertainty | GDA Published Date | GDA Technique | GDA Measurements |
| --- | --- | --- | --- | --- |
| Blue Triangle | x.xxx | dd/mm/yyyy | Adjustment OR Transformed (see Note) | Assorted measurement/s |
|  |  |  |  |  |

**Note:** GDA Technique can vary between Datums. GDA2020 may show *Technique: Adjustment* while GDA94 may show *Technique: Transformed*. Provided there is a H Uncertainty value and GDA Published Date, it is considered an Adjusted SCN (GDA) mark.

## Vertical uncertainty for adjusted survey marks

| Symbol | H Uncertainty | GDA Published Date | GDA Technique | GDA Measurements |
| --- | --- | --- | --- | --- |
| Thick/Bold Green Circle | x.xxx | dd/mm/yyyy | Spirit Levelling | Assorted measurement/s |
|  |  |  |  |  |

## GDA measurement acronyms

The GDA measurement acronyms are one way to distinguish between marks. Filtering Survey Marks in the map layer is another option.

| GDA measurement acronyms | Survey Marks map layers |
| --- | --- |
| **D** = Horizontal Direction Set  **E** = Ellipsoid Arc Distance  **G** = GNSS Baseline  **H** = Orthometric Height  **L** = Orthometric Height Difference  **M** = Mean Sea Level Arc Distance  **X** = GNSS Baseline Cluster (NGCA Measurement Cluster)  **Y** = GNSS Point Cluster (APREF Coordinate) |  |

Register as a new user

Users with a registered account can access additional functionality to submit new survey mark information for approval, update existing marks and save map preferences.

**SMES Website**: <https://maps.land.vic.gov.au/lassi/SmesUI.jsp>

| Register as a new SMES User | Screenshots |
| --- | --- |
| 1. Click on the “Login/Register” button. 2. In a new window click on “Register a New Account”. |  |
| 1. Select **SMES** as the Application you want to access from the drop-down menu. |  |
| 1. Complete the required information (marked with a red star). 2. Tick “I am not a Robot” when finalised then “Register”. 3. SMES Support will receive and approve your request. An email will be sent to confirm your request has been granted. Only 1 request per person is necessary. |  |

Reset your SMES password

If you have any issues trying to reset your password, please contact [SMES Support.](#_SMES_Contact_Details)

| Reset your SMES password | Screenshots |
| --- | --- |
| 1. Click on the “Login/Register” button. 2. In a new window click on “Register a New Account”. |  |
| 1. Enter your email address that was used upon initial registration. 2. An email with a code should arrive in your inbox (check your junk mail). 3. Enter your code into the next section to reset your password. |  |

Reserve or release new survey mark numbers

A registered SMES user account is required to reserve or release permanent mark numbers.

## Reserve survey mark numbers

Registered SMES users can reserve permanent mark names in preparation for lodging new survey marks.

| Reserve new survey mark numbers | Screenshots |
| --- | --- |
| 1. Login to SMES and click the “Mark Maintenance” icon. 2. Click “PM Number Reservations” 3. Select “Reserve Mark Numbers”. |  |
| 1. User: Your name displayed by default. 2. Number of marks: Specify the number of marks you require (can be more than 1). 3. Parish: Specify the Parish name. 4. Click on “Reserve”. 5. Your reserved mark(s) names should now appear in your “Unused Reserved Marks” list. |  |

## Release survey mark numbers

Registered SMES users can release surplus marks back into the database to become available for others to use.

| Release surplus survey mark numbers | Screenshots |
| --- | --- |
| 1. Login to SMES and click the “Mark Maintenance” icon. 2. Click “PM Number Reservations” 3. Select “Release Mark Numbers”. |  |
| 1. Select specific Mark Name/s you wish to release. 2. Click the “Release” button. 3. A pop up appears, click “OK” to confirm your choice. 4. The mark(s) should no longer appear in your unused reserved list. |  |

Submission of a new survey mark

## Submit a new survey mark

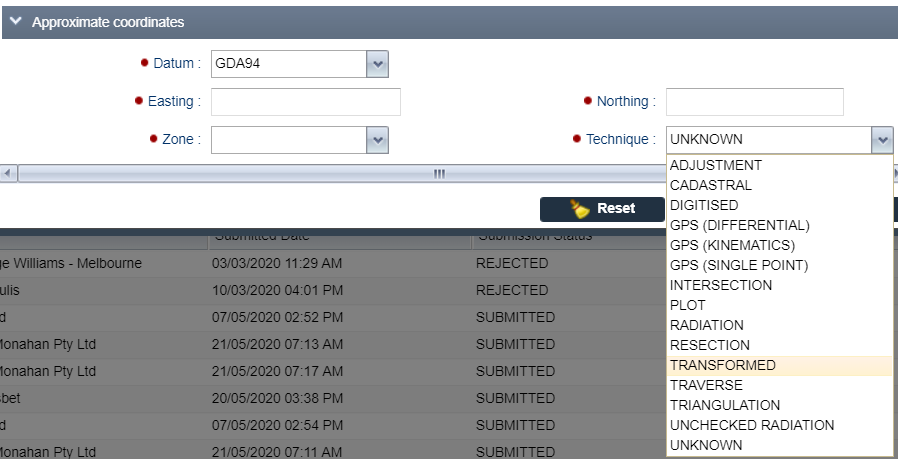
Registered SMES users need to reserve new survey marks names before they can submit them to SMES. You can only submit information for new mark names reserved in your profile.

| Submit a new survey mark | Screenshots |
| --- | --- |
| 1. Login to SMES and click the “Mark Maintenance” icon. 2. Click “Submissions” 3. Click “Lodge New Mark”. |  |
| 1. A new window will appear where fields with a red dot require input. 2. **Mark Name:** Select your Reserved Mark from your profile list. 3. **Plan Number:** if applicable 4. **Comments**: Additional comments are useful. 5. **Approximate Coordinates**: Datum, Zone, Coordinates and Technique required. 6. **AHD**: Height and Technique required if available. 7. **Attributes**: Brief description of the Mark. (Ground to Mark Offset & GNSS Suitability) 8. **Supporting Files**: A sketch plan (as a PDF file) should be included with your submission. Mark photos can be uploaded to provide real world context and make it easier to find survey marks. 9. Once everything is in order, click **Submit**. SMES Admin will then process your submission. |  |

Most new mark submissions are approved; however, some are rejected and require resubmission. For more information see [14.1 Common reasons for a rejection](#_Common_reasons_for) and [14.2 How to correct a rejection.](#_How_to_correct)

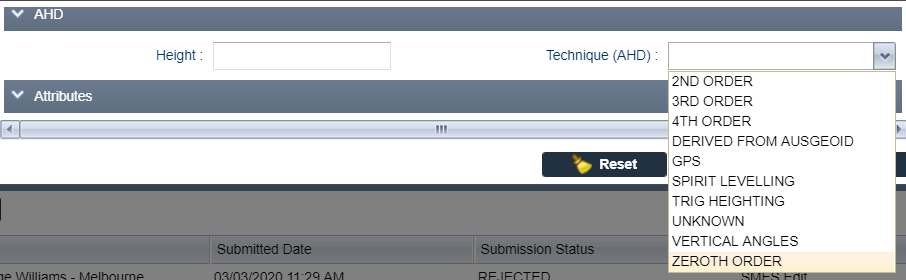
## Approximate coordinate technique

Select the survey technique used to estimate the mark coordinates, otherwise select “Unknown” if it is not clear.



## Height technique

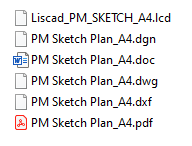
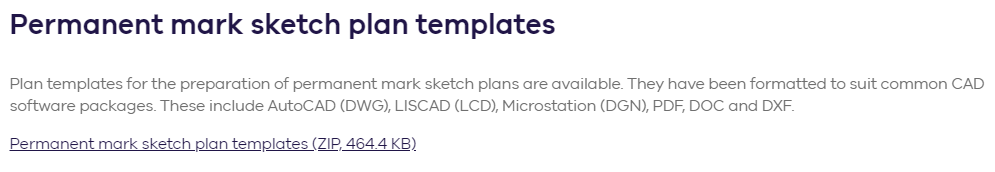
Select the survey technique used to estimate the AHD height, otherwise select “Unknown” if it is not clear.



## Sketch plan templates

All new survey mark submissions require a sketch plan to be included. A range of sketch plan templates are available for download.

<https://www.land.vic.gov.au/surveying/services/survey-marks-enquiry-service>



Update an existing survey mark

Registered SMES users can update existing survey marks with new attributes, supporting files or a new status. This helps to maintain the database and provides all SMES users with updated mark information.

## Update an existing mark with supporting files (sketch plan, mark photos etc.)

| Add supporting files | Screenshots |
| --- | --- |
| 1. Login to SMES and click the “Mark Maintenance” icon. 2. Click “Submissions” 3. Click “Update Existing Mark”. |  |
| 1. **Parish & Mark Name:** Select the Parish first, then specify the Mark Number and search mark name. 2. **Mark Status:** OK or Other. 3. **Comments**: Can include any of the following as an example    1. Details regarding change to mark status    2. Updated coordinates/AHD, Datum, Zone and survey technique/s    3. Details of supporting files supplied    4. Secondary names (e.g. State Rivers ID) 4. **Attributes**: Update mark attributes if applicable (Ground to Mark Offset & GNSS Suitability) 5. **Supporting Files**: Any/all can be uploaded one by one    1. Updated sketch plan    2. Mark photo/s    3. Raw survey data    4. Booking sheet (under “Other: file category)    5. Hover over the  to see what files are accepted. 6. Once everything is in order, click **Submit**. |  |

Most mark updates are approved; however, some are occasionally rejected and require resubmission. For more information see [14.1 Common reasons for a rejection](#_Common_reasons_for) and [14.2 How to correct a rejection.](#_How_to_correct)

## Update the status of an existing survey mark (from Ok to Damaged, Destroyed, Not Found etc.)

Registered SMES users can update the status of existing survey marks. This is useful to flag survey marks that may no longer be suitable for use and keep the network up to date.

**Note** All Mark Status updates (other than “*OK*”) results in a mark being displayed as “*Defective*”.

Please ensure that updates to Mark Status are done with careful consideration. Additional comments/photos help provide context. SMES Support have no way of verifying changes to the Mark Status so they are accepted upon submission.

| Mark Status | Symbol | Description |
| --- | --- | --- |
| Ok |  | * Status is OK * Visible in SMES * Included in mark searches |
| Destroyed  Disturbed  Not Found  Plaque Missing etc. |  | * Status is NOT OK - becomes a Defective mark * Not visible by default unless “Defective” layer is on * Excluded from SMES mark searches * To search for defective marks, see [15.2.2 Search Criteria.](#_Search_Criteria_–) |

| Update the Mark Status | Screenshots |
| --- | --- |
| 1. Login to SMES and click the “Mark Maintenance” icon. 2. Click “Submissions” 3. Click “Update Existing Mark”. 4. **Parish & Mark Name:** Select the Parish first, then specify the Mark Number and search mark name. 5. **Mark Status:** select the most relevant status 6. Additional C**omments/Photos** to support your submission are always appreciated. 7. Once everything is in order, click **Submit**. |  |

Incorporation of survey mark information from other organisations

## Survey mark information from other organisations

SMES will incorporate survey mark information supplied by other organisations. Usually survey mark information is supplied one survey mark at a time. However, SMES Support can accept bulk uploads of survey mark information. If you know of survey mark information that is available for inclusion in SMES, please contact [SMES Support](#_SMES_Contact_Details).

For related information see [3.3 Alternative mark names.](#_Alternative_mark_names)

Submission of GNSS data

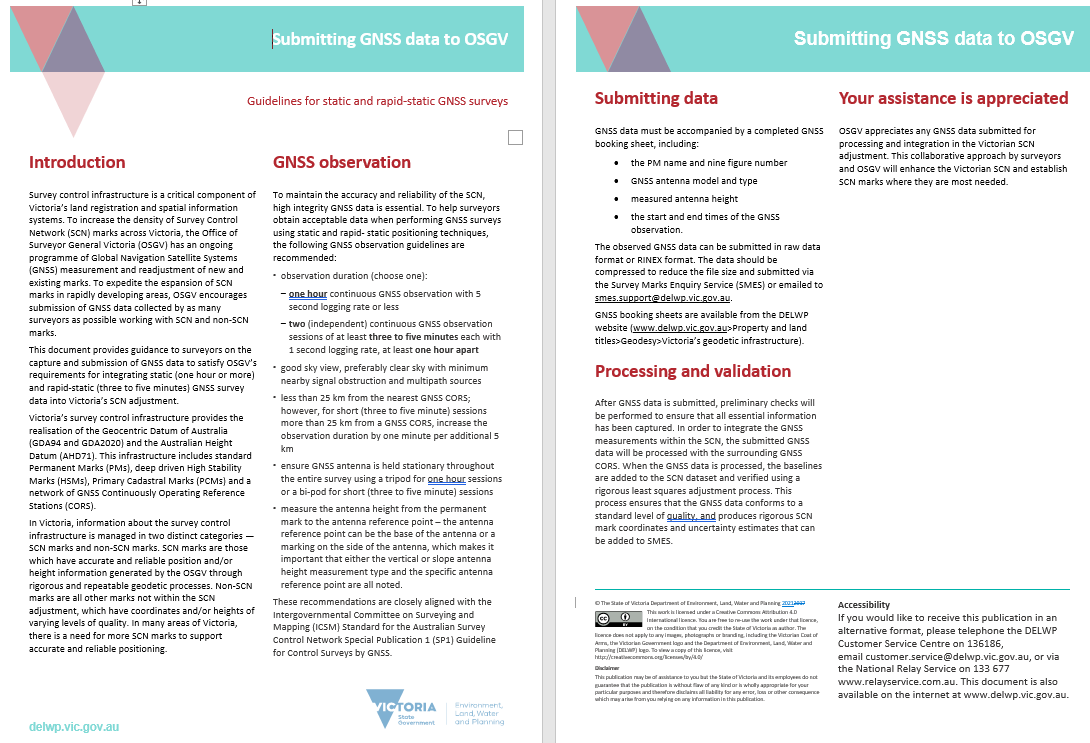
## Submit GNSS data to SMES

Surveyors can submit static GNSS data for processing and inclusion in the Victorian SCN. There are two ways to submit data, as summarised below.

| What you can submit | Where you can submit |
| --- | --- |
| * Static GNSS data (Raw OR Rinex) * Booking sheet | * Email SMES Support   OR   * SMES Submission: ‘Update Existing Mark’ |

The Department website has a GNSS data submission factsheet and sample booking sheet template available to download.

<https://www.land.vic.gov.au/surveying/services/survey-marks-enquiry-service>

GNSS submission factsheet

<https://www.land.vic.gov.au/__data/assets/word_doc/0015/512331/GNSS-Submission-Fact-Sheet-v2.docx>

GNSS booking sheet

<https://www.land.vic.gov.au/__data/assets/word_doc/0029/494318/DELWP-GNSS-Booking-Sheet-Template_FINAL.docx>

## Email SMES Support your GNSS data

You can email your GNSS data and booking sheet directly to [SMES Support](#_SMES_Contact_Details) for processing.

| Steps to Email SMES Support your GNSS data | Screenshots |
| --- | --- |
| Remember to include:   * Raw or RINEX data * Booking sheet, including mark name(s) |  |

## Update Existing Mark in SMES to upload your GNSS data

You can submit your GNSS data as an “Update Existing Mark” SMES submission.

| Update Existing Mark with GNSS data | Screenshots |
| --- | --- |
| 1. Login to SMES and click the “Mark Maintenance” icon. 2. Click “Submissions” 3. Click “Update Existing Mark” |  |
| 1. Search for your survey mark 2. Add comments to specify what you’re attaching and why 3. Under “Supporting Files” header, select your “File Category” first. 4. “Choose file” and navigate to your relevant file 5. Click “Upload” for each item you wish to attach 6. Click “Submit” when everything is in order   Remember to upload:   * Raw or RINEX data * Booking sheet, including mark name/s |  |
| Hover over the blue  to see what files are acceptable under each File Category.  Use a ZIP folder if your specific file type is not listed. |  |

Most GNSS data submissions help upgrade survey marks to SCN. See [5. Evolution of a survey mark in SMES](#_Evolution_of_a).

SMES rejections

## Common reasons for a rejection

Occasionally SMES submissions contain errors and require further clarification from the registered user. Common reasons for rejection are summarised in the table below.

**Note;** Any mistakes in the SMES Submission window will be corrected by SMES Administrators. Unfortunately, errors within the sketch plan will require the registered user to correct and re-submit.

|  |
| --- |
| Mark Name is missing in Sketch Plan or does not match the SMES submission window. |
| Coordinates in the Sketch Plan do not match those in the SMES submission window. |
| Sketch plan and SMES map view do not match in showing the approximate mark location. |
| Incorrect PDF Sketch Plan attached for a completely different survey mark. |

|  |  |
| --- | --- |
| Common mistakes in a SMES Submission |  |
| **Submitted Sketch Plan**  A close up of text on a white background  Description automatically generated | **SMES Submission Window**  A screenshot of a social media post  Description automatically generated  **SMES map view** |

## How to correct a rejection

When an error is detected with a SMES submission, an automatic email is sent from SMES Support including the reason for the rejection. Please contact [SMES Support](#_SMES_Contact_Details) if you require assistance in resubmitting.

There are two ways to access your rejection:

* Automatic email from SMES Support OR Log into SMES & Edit your submission.

### Correct a rejection from the automatic SMES email

| Correct a rejection from an automatic email | Screenshots |
| --- | --- |
| * An automatic email will be sent with details of your mark rejection. * Within the email, the *“click here”* link takes you directly to your submission window after login. * You can correct your submission and re-submit. | A screenshot of a social media post  Description automatically generated |

### Correct a rejection via the SMES Submissions page.

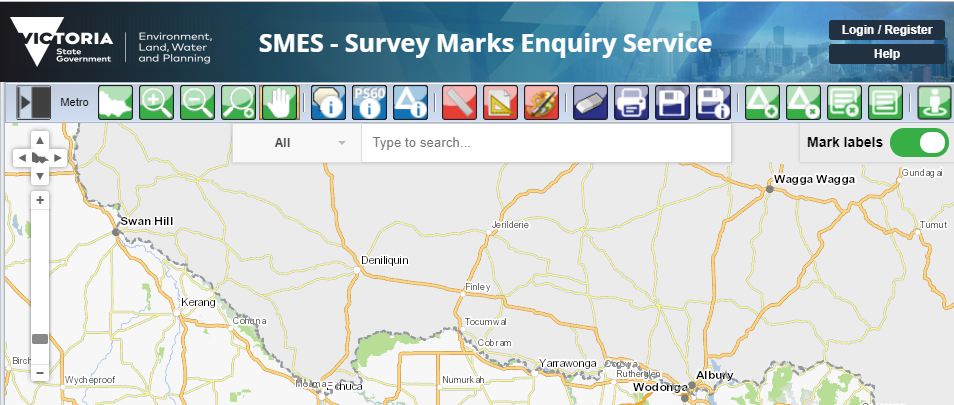
| Correct a rejection from SMES Submissions | Screenshots |
| --- | --- |
| * Login and find your SMES Submissions page * Click on “Submission Status” to sort your submissions and find your rejections. * Click on the far left “Edit” icon to correct and re-submit that rejection. | A screenshot of a social media post  Description automatically generated  A screenshot of a social media post  Description automatically generated |

SMES tools

This section will give a general overview of useful tools available in SMES. For specific information about these search tools, please refer to the section [2.2“Help”](#_Help_guide) guide in SMES.

## Elastic search bar

The central elastic search bar is in the centre of the SMES map area. The elastic search bar supports rapid searching based on the most common entries such as address, mark name, parish and locality. As you begin typing your search, SMES will come up with suggested matches, for example, an address or a specific mark name.



## Toggle tool pane – left side of SMES screen

The left toggle pane is in the top left corner. Click on the arrow button shown below to expand the left toggle pane. The left pane supports more targeted searching, especially by Coordinates or Survey Mark type.

|  |  |
| --- | --- |
| Left toggle tool | Expanded left toggle tool |
| Click to expand the left pane | Different search entries available for selection.  Click again to collapse the left pane |

Some of the most common search entries are shown below. Note: each search entry has the same “Search Criteria” to further refine the search (i.e. Mark Status, Mark Type etc.).

|  |  |  |  |
| --- | --- | --- | --- |
| Search by Address |  | Search by Coordinates | Search by Mark Name/Number |
|  |  |  |  |

### Search by coordinates

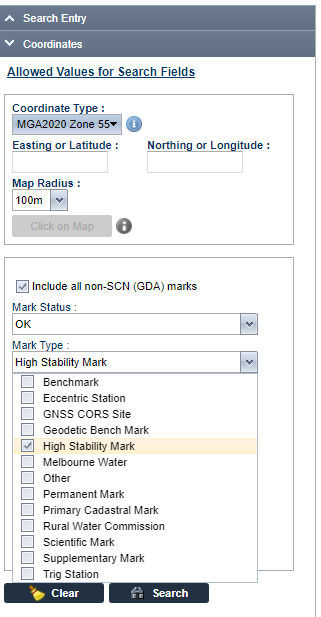
One of the more common reasons for using the left search pane is the ability to search by “Coordinates”.

|  |  |  |
| --- | --- | --- |
| Coordinate Types | Map Radius | Click on Map |
| Different coordinate types are available. | Extend the search map radius. | “Click on Map” then click in the SMES map to generate some coordinates. |

### Search Criteria – Mark Type, Defective mark, Measurement type etc.

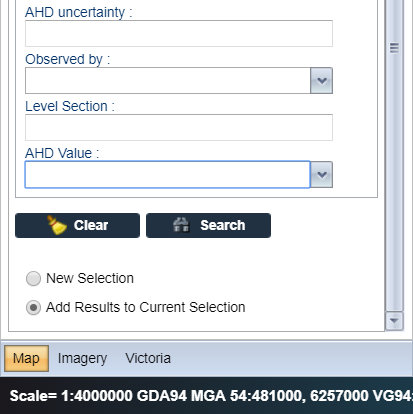
All the Search Entries (Address, Coordinates, Survey Mark etc.) also include the same additional Search Criteria section below.

|  |  |  |
| --- | --- | --- |
| Mark Type | Mark Status - Defective | Observed by |
| Different types of marks are available for selection. The example below selected “High Stability Mark”. | Changing “Mark Status” from “OK” to “All” will include Defective marks in your search, which are normally excluded from SMES searches. | Selecting a specific observation technique can also further refine the search. A similar functionality is available under *AHD Value*. |

 This option is automatically selected, untick this box if you wish to exclude non SCN (GDA) marks from your search.

## Change map base

Scroll all the way to the bottom of the search pane and toggle between the three different map base options, Map, Imagery and Victoria. See the original SMES [“Help”](#_Help_guide) guide.

.

## Build map preferences

Users can customise the layers they wish to display in their SMES map.

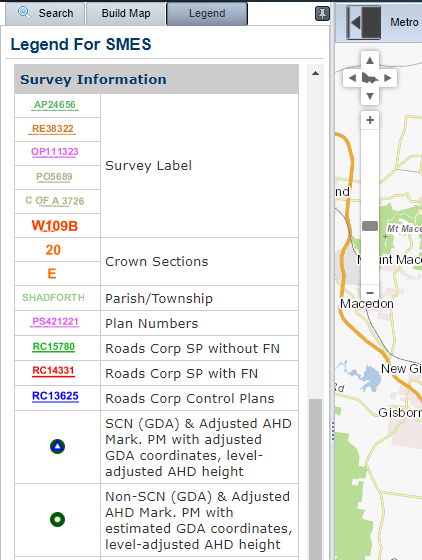
|  |  |
| --- | --- |
| Build Map options | Screenshot |
| 1. Select “Build Map**”** tab from the top left pane. 2. Scroll along to tick the layers you want to display in your map or turn off. 3. Scroll all the way down to click “Refresh” to apply your changes. 4. Click “Save Preferences” if you want to keep them in ongoing searches. (SMES login required) |  |

**Note;** Defective survey marks are turned off by default. Turn on that layer and refresh your map to view them.

## Legend

The Legend shows all the SMES map symbology. Depending on the scale of the map, different symbols become visible/invisible.

For survey mark symbology and descriptions, see [4.1 Survey mark symbology](#_Survey_mark_symbology).



## Zoom & Pan

Standard ***Zoom In****,* ***Zoom Out*** and ***Pan*** functionality. ***Metro*** will zoom over metropolitan Melbourne, while the ***State*** icon will zoom out to all Victoria. See the SMES [“Help”](#_Help_guide) guide for more details.



## Identify (Property, Mark name, Survey Mark)

There are three different types of Identify tools available in SMES, ***Identify Property***, ***Identify Survey Labels*** and ***Identify Survey Mark***.



### Identify Survey Mark

The ***Identify Survey Mark*** tool enables users to select a survey mark and display summary information under the identify survey marks tab in the left pane.



|  |  |
| --- | --- |
| Identify Survey Mark | Screenshots |
| 1. Select the “Identify Survey Mark” tool first, then click on a survey mark in the SMES map. 2. Identify Survey Marks appears as a new window in the left pane  * **Name**: Mark name secondary names appear underneath * **Number:** 9 figure number * **Coordinates:** MGA2020 & MGA94 Zone 54 and/or 55 * **AHD height:** if available * **Status**: OK * **Sketch Plans** available to download * **Mark Photos** would appear if available * **Add Mark to List** adds to this mark to your current selection. |  |

### Identify survey mark coordinates at the Zone 54 and Zone 55 boundary

The ***Identify Survey Marks*** tool can be used to display both MGA Zone 54 and 55 coordinates for survey marks that are within 0.5° of the zone boundary at 144° longitude (i.e. within 143.5° and 144.5° longitude). This is shown in the above example for Ballarat PM 679.

## Measure Distance, Measure Area, Mark Up tool

The three tools are ***Measure Distance***, ***Measure Area*** and ***Mark Up***. See the original SMES [“Help”](#_Help_guide) guide for more details.

|  |  |
| --- | --- |
| Tool Description | Screenshots |
| ***Measure Distance & Area***  Measure approximate distances and areas by clicking within the SMES map.  A new “Measure Distance” window appears in the left pane with additional buttons to reset lines. |  |
| ***Mark-up tools***  Digitally annotate your SMES map to save and print when ready. The colour, font style and size are adjustable.  A new “Mark-up Tool” window appears with additional functionality to   1. Drop a pin 2. Draw lines 3. Draw polygons 4. Draw rectangles 5. Add a text box 6. Add a call out |  |

## Clear Highlight, Print Map, Save Image, Save Georeferenced Image

The four tools are ***Clear Highlight, Print Map, Save Image*** and ***Save Georeferenced Image***. See the original SMES [“Help”](#_Help_guide) guide for more details.



|  |  |
| --- | --- |
| Tool Description | Screenshot |
| ***Clear Highlight***  Remove highlighted properties from a recent search.  **Note;** there is a separate tool to clear the highlight/selection of survey marks.  See [15.10 Add/Remove marks from selection list.](#_Add/Remove_Marks_to) |  |
| ***Print Map***  Create a PDF map of the SMES window with specified scale, page size and orientation.  The red box in the SMES map outlines the print area. This can be dragged around the map to capture the relevant features. |  |
| ***Save Image & Save Georeferenced Image***  Download an image file from the SMES window.  The image can be opened in another spatial software program. |  |

## Add/Remove Marks to Mark Selection/Mark List

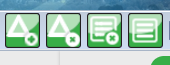
These tools are useful when selecting survey marks. ***Add or Remove*** survey marks from the current selection.The***Clear Selection List***willremove all survey marks from the current selection*.* The ***Display Mark Selection List***willshow all the selected survey marks and attributes in table form.

**Note;** Click the [Identify Survey Mark](#_Identify_Survey_Mark) tool to view the total number of survey marks you add/remove from your list.



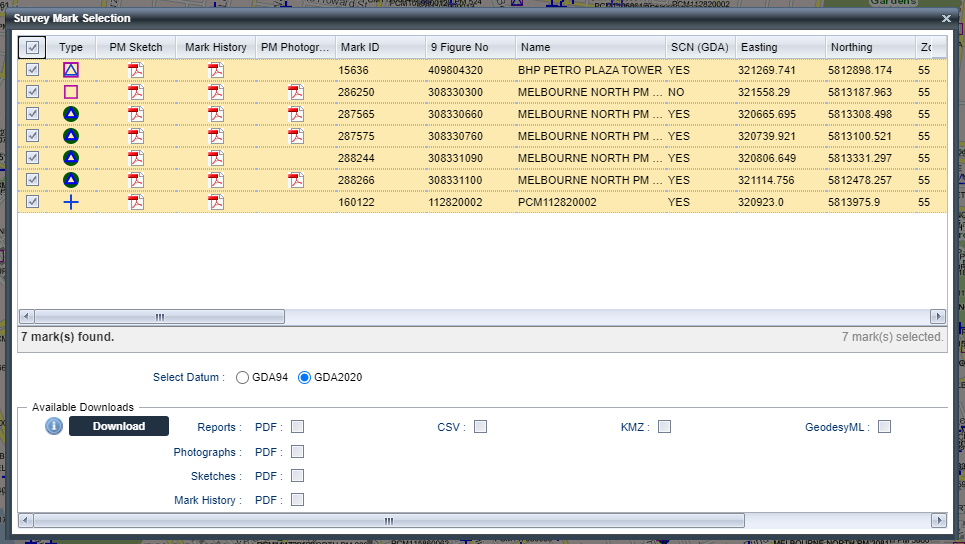
|  |  |
| --- | --- |
| Tool Description | Screenshot |
| ***Add Mark to Selection***  Click on the Add Mark tool and select marks of interest (one by one).  Or use your mouse to click across an area to select all the survey marks (multiple at once).  Selected marks are highlighted in orange. |  |
| ***Remove Mark from Selection***  Click on the tool, then click on the mark you wish to remove from your selection.  You can click and drag your mouse across an area to remove multiple marks at once. |  |
| ***Clear Selection List***  This removes all currently selected survey marks. |  |
| ***Display Mark Selection List Window***  A new pop up window appears with a table information about the survey marks selected from the map.   * Coordinates & AHD * Vertical & Horizontal Uncertainty * Measurement Technique & Source * Mark Attributes etc. * Datum: GDA94/GDA2020 * Reports * Photographs * Sketches * Mark History * CSV * KMZ & Geodesy/ML files |  |

### Display Mark Selection Window

 The ***Display Mark Selection*** window contains information related to the survey marks selected. Scroll from left to right to see the table summary of information such as uncertainty, technique etc.

Users can click one mark to select it individually or tick the top left box to select them all at once and download additional information in the form of reports, photographs, sketch plans, mark history etc.

All the information visible in the table can be downloaded as a CSV file and opened in Excel.



**Note:** Ensure you select the correct Datum before downloading any reports.

Types of mark reports available to download

There are several reports available to download from SMES. Some reports are available through the “Identify Survey Mark Tool” while others are only available through the “Display Mark Selection List Window.

## Reports available through “Identify Survey Mark” tool

| Reports from Identify Survey Mark | Screenshots |
| --- | --- |
| Click on a survey mark, then click on “Identify Survey Marks” tool.  A window in the left pane appears, showing some of the mark information available.  At the bottom of the window shows the reports available to download.   * GDA 2020 sketch plan * GDA94 sketch plan * Mark Photographs (where available) |  |

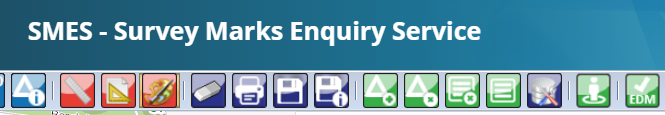
## Reports available from “Display Mark Selection List Window”

The Mark Selection Window provides access to additional reports and the ability to select a preferred Datum.

| Reports from Display Mark Selection List | Screenshots |
| --- | --- |
| Click on a survey mark, then click on “Display Mark Selection List Window”.  A new pop up window displays information about survey mark(s) selected.  **Note:** Set the Datum first, then tick one report at a time to download.   * Reports * Photographs * Sketches * Mark History * CSV * KMZ/Geodesy/ML files |  |

Open your SMES map location in Google Maps

Users can open their SMES map in a new window browser with Google maps.



| Open your SMES map in Google Maps | Screenshots |
| --- | --- |
| Your current SMES map can be opened in a new browser window in Google Maps.  Within Google Maps users can turn on Satellite imagery (bottom far left) or Street View (bottom far right) | **SMES Map**    **Google Maps** |

Electronic Distance Measurement (EDM) calibration booking system

## Make a new EDM calibration booking

A registered SMES user account is **not** required to make an EDM calibration booking.

EDM Bookings can be accessed through two sites:

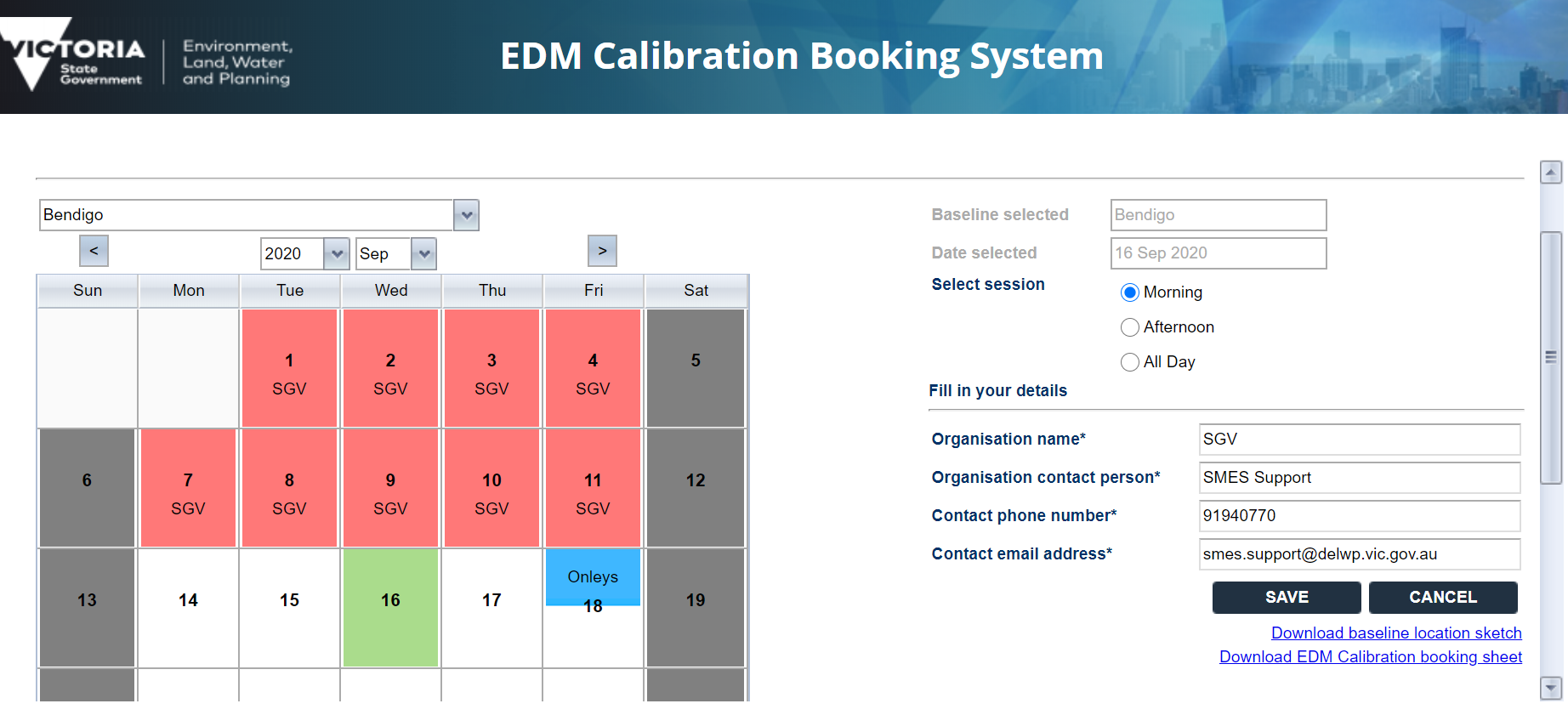
* Department website

<https://www.land.vic.gov.au/surveying/services/equipment-calibration-services>

* SMES website – EDM button

<https://maps.land.vic.gov.au/lassi/SmesUI.jsp>





1. Select a Baseline from the top left drop down menu and then select a month.
2. Click on the day you require, then select your session.
3. Enter your contact details and click Save.
4. Don’t forget to download the Baseline Sketch Plan and a Booking Sheet, both linked in the bottom right.

## Update or cancel an existing EDM calibration booking

If you wish to cancel your existing EDM booking, return to the EDM booking page.

|  |  |
| --- | --- |
| Cancel an EDM booking | **Screenshots** |
| 1. Click “Cancel an existing booking” in the top right corner. |  |
| 1. Enter the email used in your initial booking then “Find Bookings.” 2. Find the Baseline and Date you wish to cancel, Click on the red X. 3. A pop-up window appears to confirm your cancellation, click “Yes”. |  |
| 1. You should receive an automated email that confirms your cancellation. 2. For any issues please contact [SMES Support.](#_SMES_Contact_Details) |  |

EDM Calibration documents & software

All the information, software and documentation required to carry out an EDM calibration can be found at the Department website below.

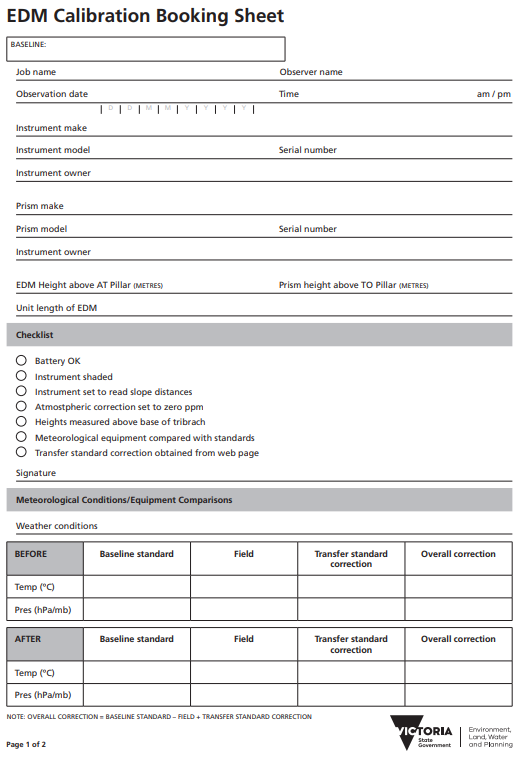
<https://www.land.vic.gov.au/surveying/services/equipment-calibration-services>

## EDM calibration handbook & booking sheet

A copy of the EDM Calibration Handbook is available for download as well as the EDM Booking Sheet.



<https://www.land.vic.gov.au/__data/assets/word_doc/0023/505571/EDM-Calibration-Handbook-Dec-2020.docx>

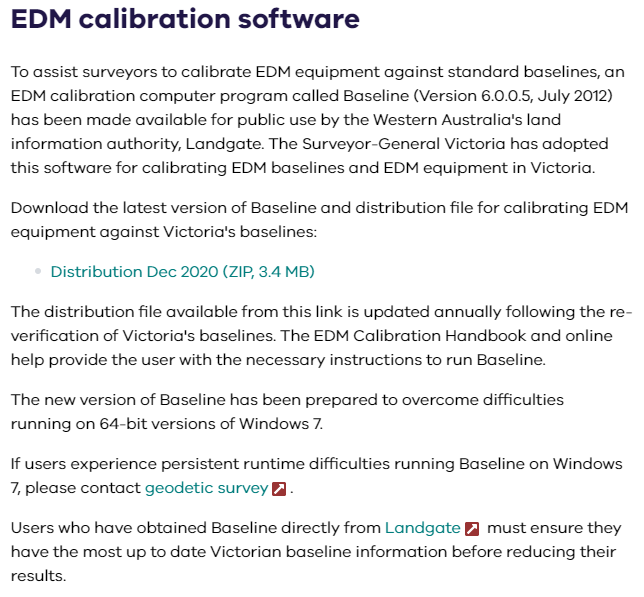


<https://www.land.vic.gov.au/__data/assets/pdf_file/0027/494631/EDM-Calibration-booking-sheet-2018.pdf>

## EDM software: Baseline

The latest version of the EDM calibration program “Baseline” is available for download from the Department website. It is recommended that users download the latest version directly from the site.

<https://www.land.vic.gov.au/surveying/services/equipment-calibration-services>



Please contact [SMES Support](#_SMES_Contact_Details) if you encounter any issues.

Contact SMES Support

## SMES contact details

Any questions, concerns or issues can be directed to our friendly SMES Support team via phone or email.

**SMES support phone:** 03 9194 0770

**SMES support email:** [smes.support@delwp.vic.gov.au](mailto:smes.support@delwp.vic.gov.au)

**SMES website:** <http://maps.land.vic.gov.au/smes>

**SGV Geodetic Survey website:** <https://www.land.vic.gov.au/surveying/services/survey-marks-enquiry-service>

**EDM Calibration website:** <https://www.land.vic.gov.au/surveying/services/equipment-calibration-services>