

# Surveying Alert



New Guidelines, Forms & other surveying information

12 February 2016  
Issue 18

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## New Guidelines within CSR

In the previous Survey Alert (issue 17), advice was given that new guidelines had been developed dealing with coordinate and bearing accuracies, and dealing with marks connected to the State control survey. Those new guidelines (3.24.1 Meridian from State control survey and 3.28.3 Coordinates for marks on a survey) were made on 11 December 2015 and have now been incorporated in the Cadastral Survey Requirements.

CSR v7.1 is now available [here](#).

## New versions of Forms

On 30 November 2015, the DNRM computer systems were adjusted so that Parish and County were no longer required to record information about land parcels. Separately, in line with the ICSM move from Class and Order to Uncertainty, the department has also been transitioning its systems from Class and Order to Uncertainty.

As a result of these events, a number of new versions of surveying related forms have been released. The forms that have been updated are:

- Form 6 – Permanent survey mark plan (v.5)
- Form 10 – Plan registration compliance checklist (v.5)
- Permanent mark maintenance form (v.2)
- Pre-lodgement advice request form (v.2)

Corresponding changes have been made to the *Completion of Permanent Survey Mark Plans* specification (see below). The new versions of each of the forms are available [here](#).

Please note that in this process the previous double-sided Survey plan Forms 21 and 38 have been converted to single-sided format. Survey plan forms are now:

- Form 21 – Survey plan facing side (v.4)
- Form 21B – Survey plan reverse side (v.1)
- Form 21A – Survey plan additional sheet (v.1)
- Form 38 – Survey plan for a digital file facing side (v.2)
- Form 38B – Survey plan for a digital file reverse side (v.1)
- Form 38A – Survey plan for a digital file additional sheet (v.1)

The Survey plan forms are available [here](#).

### **Uncertainties, Class and Order**

A new version of the department's specification *Completion of Permanent Survey Mark Plans* (PSMP or Form 6) has been released.

Since ICSM released Version 2 of Special Publication 1 (SP1) on the Standard for the Australian Survey Control Network, Departmental policies, procedures and specifications, including the Cadastral Survey Requirements, have transitioned from Class and Order to Uncertainty as the basis for evaluating and expressing the quality of coordinates and heights. However, the Survey Control Data Base (SCDB) is still based on Class and Order, so it cannot currently store or manage SP1-style Uncertainty values. Therefore a detailed section in the new version of the *Completion of Permanent Survey Mark Plans* specification explains how Surveyors should deal with Class, Order and Uncertainties.

The new version of the specification is available [here](#).

### **Submission of GNSS survey data**

Where permanent survey marks are fixed by GNSS, the Department is interested in including the GNSS measurements in the geodetic adjustment of the State Control Survey. This will allow the GDA and AHD values to be properly maintained over time with rigorous assessment of uncertainties and strong levels of legal traceability. Relevant surveys include control for Large Scale Urban Development Areas, connections to datum for cadastral surveys of 10 lots or more and control surveys for major construction, mining or aerial mapping activities. The new *Completion of Permanent Survey Mark Plans* specification details how Surveyors should supply GNSS observations to the Department. That includes GNSS surveys using the Static, Quick Static, Network RTK or Single Base RTK techniques and processed using proprietary software. The procedure also covers Static GNSS surveys processed using Geoscience Australia's AUSPOS service.

The specification covers the relevant fields on the permanent survey mark plan or maintenance form along with the digital files that should be submitted to the Department. In the case of AUSPOS processing the RINEX input files along with the processing report (as PDF) should be submitted. For non-AUSPOS surveys the surveyor may submit their data by zipping the entire GNSS project directory (including raw GNSS observation files and processing results) into a single file for lodgement. The specification also outlines what should be recorded in the field for each PM occupied using GNSS and how the surveyor should submit those Field Records.

Where the permanent survey marks are fixed by GNSS as part of a cadastral survey and the derived coordinates are shown on a survey plan submitted to the Department, the GNSS digital files should be submitted with the survey plan, using the WFSurv email addresses. Where the permanent survey marks are not shown on a survey plan submitted to the Department, the GNSS digital files should be submitted to the [CadastralAdminDataHelp@dnrm.qld.gov.au](mailto:CadastralAdminDataHelp@dnrm.qld.gov.au) email address.

The new version of the specification is available [here](#).

### **Parish & County removal from survey plans**

At the time version 7 of the Cadastral Survey Requirements were prepared, parish and county were mandatory requirements for the recording of survey plans in departmental computer systems. Therefore, it was necessary to still require surveyors to provide the parish and county information on survey plans. For SPs and MPs, this requirement was governed by the Forms 21 and 38 issued by the Registrar of Titles, and for Identification plans (IS), this requirement was within 3.21 of the CSR.

Since then, system changes have been made and the department no longer requires the information to be recorded on survey plans. The Forms 21 and 38 have been reissued by the Registrar of Titles with those fields removed,

however amendment of standards within the CSR is significantly more involved and therefore this change will not be effected immediately. Although the standards currently state that parish and county information must be shown on Identification plans, the department will not be checking for this information on any survey plans (i.e. SP, IS or MP). The department will also not be checking for original portion information on Identification plans.

Please note that Parish may be required to be noted in item 7 (Original grant allocations) on the reverse of the plan where a plan contains allocations to original portions that have the same number but are in different parishes.

### **Mining tenements within pastoral holdings**

Certain pastoral holdings within gazetted mining fields have exclusions for mining tenements. What is the impact of these mining tenements in relation to the preparation of rolling term lease plans for lease renewals?

- A mining tenement is either a mining tenure or an application for a mining tenure, current at the time of issue of the pastoral lease, and may have been excluded from pastoral holdings. The records for these pastoral holdings will have a notation on both the plan and in the lease document that it was exclusive of mining tenures.
- When a pastoral holding within a mining field is renewed and a new survey plan is required, notwithstanding the lease may have been renewed or extended a number of times, it is important to know if the lease was originally exclusive of a mining tenement/s.
- If the original lease excludes mining tenements, the areas for these mining tenements may need to be shown as excluded from the pastoral holding on the new plan. In effect the pastoral holding may have “holes” in it which will need to be dimensioned and connected to an external boundary corner, as with any other parcel that has a defined exclusion from the pastoral lease. These exclusions are unallocated State land (USL) and may be still subject to a mining tenement.
- Further, an excluded mining tenement may have expired (ended), and investigation will be needed to determine if the USL was properly included into the pastoral holding or a renewed pastoral holding. If not, the lessee may now apply to have this USL included in their lease or a separate lease possibly granted (native title will need to be addressed).

In summary, when preparing a rolling term lease plan over a tenure that has exclusions for mining tenures, the status of each mining tenure needs to be investigated. Reference needs to be made to the original pastoral holding lease and plan to determine if the lease excluded mining tenements and investigation needed to determine if these areas are still excluded from the pastoral lease. To assist in this research, surveyors are encouraged to contact the Chief Surveyor, Mapping and Survey Services, Geological Survey of Queensland on 30355320 or your local Principal Surveyor.