

surveyors board SA e-news



edition 24 - 2019



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Revised Surveyor-General's directions and permanent survey mark coordination

Following concerns raised by industry members at the Land Boundaries information session in early February regarding the revised Surveyor-General's directions and the requirement for surveyors to provide MGA2020 coordinates for certain PSMs on certified surveys, I would like to provide the following comments on the need for these directions.

The previous Surveyor-General's directions were a model established in the 1980's under very different technical conditions than we now have in 2019. With modern technology and the existing extensive geodetic framework the concept of the tertiary network areas have become redundant. Surveyors can now, relatively simply, coordinate survey marks anywhere in our state through a variety of means.

The GDA2020 adjustment has now been completed and has significant improvements to the GDA94 model. The future of geodesy is different to the past and a program directed at the tertiary network will not continue, rather a concentration of effort on CORS and PSM coordination to support cadastral integrity. It is with a view of this that the directions have been amended as the modern cadastral

surveyor operates in a coordinate based environment for both measurements and calculations. My office, in partnership with Geoscience Australia, is currently working to install an additional 12 Tier 1 CORS in SA that will increase the availability and accuracy of CORS solutions throughout the state.

The coordination of PSMs is aimed at preservation of PSM positions and the long term integrity of the cadastre rather than physical maintenance of the PSMs. The Department of Planning, Transport and Infrastructure has an ongoing program at significant expense to coordinate existing PSMs in areas of development potential and rural areas with no coordinated control to enable reduced coordination by private surveyors over time. The coordination of PSMs on cadastral surveys need only meet the tolerances appropriate for controlling cadastral surveys (not rigorous geodetic standards). Furthermore, there should be no issue with surveyors carrying out adjoining surveys with PSMs coordinated at different times using different techniques as accuracy tolerances are required to be met; surveys close to each other should always be tied together as a matter of good survey practice.

Previous lodgements indicate, under the new directions approximately 6% of certified surveys would have required PSM coordination and many of those were within 5 km of a DSA and coordinated marks. With the offset of not requiring reference marks to be placed at all corners, I see the balance of additional work to be minimal.

One of the 5 goals of Cadastre2034 set by ICSM is a digital cadastre that is 3-dimensional, dynamic and survey accurate. The accuracy of the DCDB in its current form may be considered to be adequate by some however national research commissioned by ICSM has found that it is not meeting the needs of the community and we must seek ways to improve it. The digital cadastre is an underutilised community asset due to its current limitations in positional accuracy. Our existing digital cadastre, largely collected by digitising paper maps, is proving to be inadequate for emerging business needs. When overlaid with other geospatial data and aerial photography, inaccuracies in the data become apparent. While cadastral surveyors have been submitting highly accurate survey data connected to coordinated PSMs in urban settings since the 1980s, the DCDB in rural areas has been largely untouched.

A digital cadastre that is survey accurate benefits the community by allowing workflow automation to reduce the amount of effort required per land transaction and reduces costs associated with data handling in general. Land Services SA have an objective of digital data in, digital data out, that can only be achieved by connection to coordinated survey marks and will give significant benefit to the profession with a reduction in office time required to prepare data for field work and a more efficient approach to data lodgement and approval. Remember, in only a couple of years anyone will be able to measure to decimetre accuracy anywhere in the country.

Mike Burdett, Surveyor-General

School of Natural & Built Environment

Scholarships, prizes and awards night

On Friday May 17, invited NBE students, staff, Industry Donors and guests attended the School of Natural & Built Environments annual Scholarships, Awards and Prize event at City West campus.

The School offers a range of scholarships designed not only to help with the cost of tertiary education, but also to provide valuable work experience opportunities for overseas travel.

New scholarships are constantly being developed and the following people were officially recognised amongst industry partners and key staff within the school.

The winners are:

Brenton J Burford Scholarship and
Brenton J Burford Scholarship - Laptop
Michael Button.

The SurveyingSA Field Project Prize
Bailey O'Hara, Holly Whittenbury,
Izaak Versteeg, Kathryn Ienari and
Michael Button.

SurveyingSA High Achievers Grant
Bailey O'Hara, Izaak Versteeg and
Michael Button.

Top photo from the left:

Michael Button, Kathryn Ienari, Izaak Versteeg, Bailey O'Hara and Ross Fyfe.

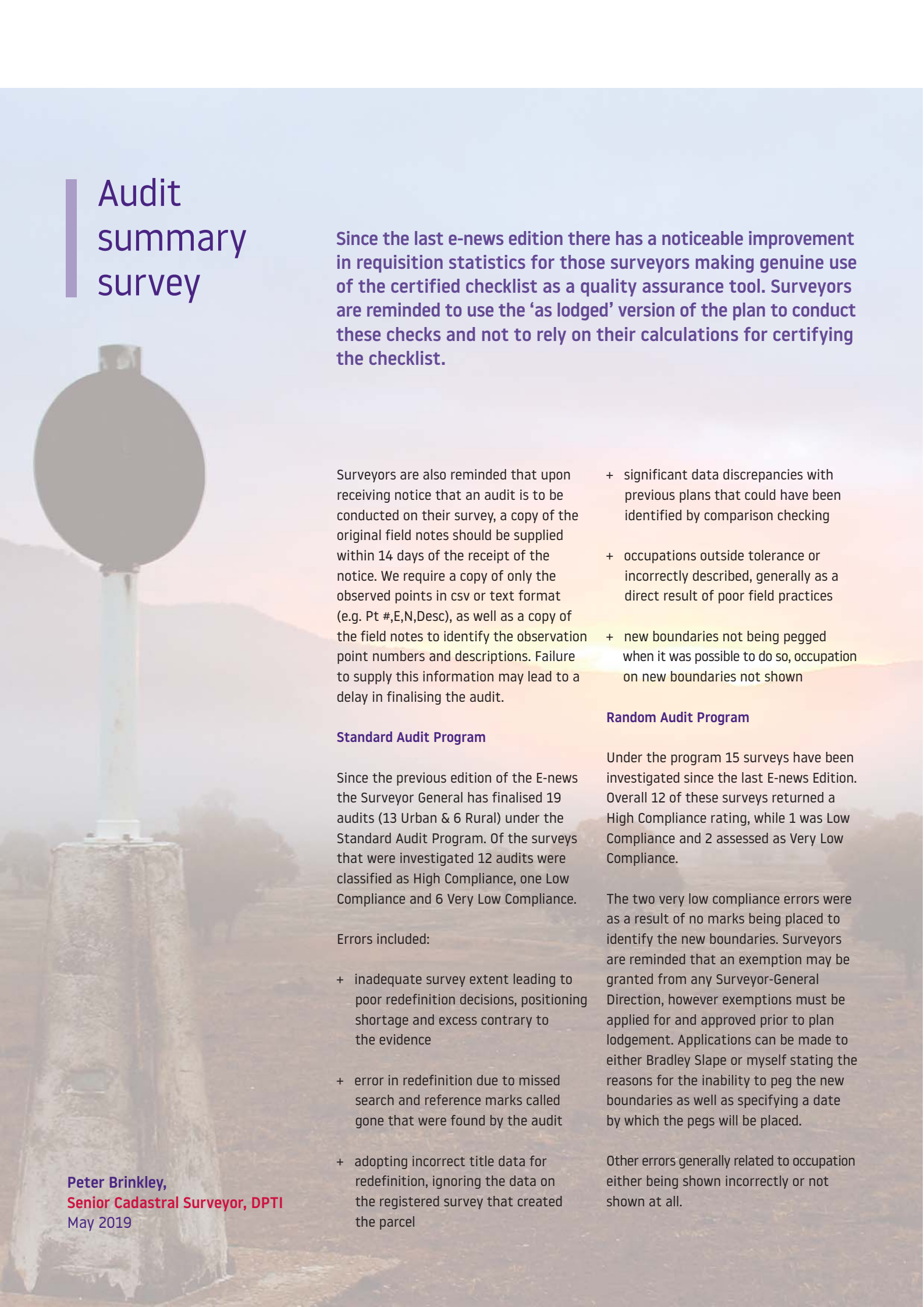
Middle photo from the left:

Michael Button, Izaak Versteeg,
Bailey O'Hara and Ross Fyfe.

Bottom photo from the left:

Michael Button and Ross Fyfe.





Audit summary survey

Since the last e-news edition there has been a noticeable improvement in requisition statistics for those surveyors making genuine use of the certified checklist as a quality assurance tool. Surveyors are reminded to use the 'as lodged' version of the plan to conduct these checks and not to rely on their calculations for certifying the checklist.

Surveyors are also reminded that upon receiving notice that an audit is to be conducted on their survey, a copy of the original field notes should be supplied within 14 days of the receipt of the notice. We require a copy of only the observed points in csv or text format (e.g. Pt #,E,N,Desc), as well as a copy of the field notes to identify the observation point numbers and descriptions. Failure to supply this information may lead to a delay in finalising the audit.

Standard Audit Program

Since the previous edition of the E-news the Surveyor General has finalised 19 audits (13 Urban & 6 Rural) under the Standard Audit Program. Of the surveys that were investigated 12 audits were classified as High Compliance, one Low Compliance and 6 Very Low Compliance.

Errors included:

- + inadequate survey extent leading to poor redefinition decisions, positioning shortage and excess contrary to the evidence
- + error in redefinition due to missed search and reference marks called gone that were found by the audit
- + adopting incorrect title data for redefinition, ignoring the data on the registered survey that created the parcel

- + significant data discrepancies with previous plans that could have been identified by comparison checking
- + occupations outside tolerance or incorrectly described, generally as a direct result of poor field practices
- + new boundaries not being pegged when it was possible to do so, occupation on new boundaries not shown

Random Audit Program

Under the program 15 surveys have been investigated since the last E-news Edition. Overall 12 of these surveys returned a High Compliance rating, while 1 was Low Compliance and 2 assessed as Very Low Compliance.

The two very low compliance errors were as a result of no marks being placed to identify the new boundaries. Surveyors are reminded that an exemption may be granted from any Surveyor-General Direction, however exemptions must be applied for and approved prior to plan lodgement. Applications can be made to either Bradley Slape or myself stating the reasons for the inability to peg the new boundaries as well as specifying a date by which the pegs will be placed.

Other errors generally related to occupation either being shown incorrectly or not shown at all.

Cadastral Workshop Breakfast 6 April 2019

The next
Cadastral Workshop
has been scheduled
for Monday evening
11 November
2019

The 2019 Cadastral Workshop Breakfast held on Saturday 6 April at Adelaide Pavilion, Veale Gardens, offered some very interesting presentations covering a wide range of topics.

We had seven UniSA Students attending as our guests and a total of 128 Licensed Surveyor Registrations.

The Event was informative and provided examples of Cadastral related Surveying in a presentation from Mark Oldfield, **Historical Rights of Way**.

The special Guest was Mr Tim Saul, NBN presenting on **NBN Considerations with Land Developments**.

There were Industry updates from Mr Franco Rea and information on registrations for SEASC in Darwin on 18 August 2019.

Mr Mark Williams discussed the updated Licence Renewal Application form for the 2019-20 Licensed Surveyors renewal period. He drew particular attention to the provision for PI Insurance and a copy of the Certificate of Currency to accompany all license renewals.

Other speakers included:

Damian Brogden, Victoria Shute, Bradley Slape, Brenton Pike and Michael Nietschke.



Mr Damian Brogden
Sawleylock O'Callaghan

Presenting on the
Adelaide Oval
Parklands Survey



Mr Brenton Pike
Land Services SA

Presenting on the
Plan Lodgement and
Examination Reforms

SurveyingSA sponsors the 2019 State Orienteering Championships



The event was presented by Onkaparinga Hills Orienteering club, with course planners, Adrian and Robin Uppill controller, Peter Cutten and organiser, David Tilbrook assisted by helpers from OH and all other metropolitan clubs.

SurveyingSA sponsored the event and provided the medals for the various classes. Senior class medals were presented by the local state MP Sam Duluk. Thanks to all the helpers that made the event possible and National Parks for permission to use the park.

The SA Schools Orienteering Championships was held at Belair National Park on Monday 27 May. Approximately 340 students were entered from 16 Primary Schools and 14 Secondary Schools. Students entered 36 different age classes, with A classes for the more experienced, and B classes for those newer to the sport. Recreational pairs classes were also available to primary school students.



Top photo on the left: Local state MP Sam Duluk at the awards ceremony.

Bottom photo: Some of the happy winners on the day representing their Primary School.

Licensed Surveyors Workshop 27 May 2019

The Licensed Surveyors Workshop was an open forum conducted for Licensed Surveyors with the intention of finding out what they see as issues affecting the profession, their businesses and the communities perception of the profession.

The purpose being to gather information and from that develop a survey for emailing to all participants to provide additional feedback. From this information a recommendation will be made to the Surveyors Board SA in developing strategies to support and promote

the Surveying Profession while at the same time develop industry-based work experience for students looking at Surveying as a career option.

Mr Michael Pohl opened the meeting and welcomed the members. With 73 registrations and 8 apologies there was clear demonstration that the profession is keen to develop pathways in promoting and supporting the profession in a time of many changes. Mr Pohl detailed the role of SurveyingSA and its functions during the past 10 years in supporting student recruitment, promoting the profession, providing events and activities, and developing a strong social media link to the young demographic researching career choices.



Calendar events June to December 2019

ISASA MEETINGS 2019

Thursday 20 June 2019

Thursday 18 July 2019

Thursday 15 August 2019

Thursday 19 September 2019

ANNUAL GENERAL MEETING 2019 Wednesday 18 September 2019

Thursday 17 October 2019

Thursday 21 November 2019

Thursday 5 December 2019 (**Board Christmas Lunch**)

EVENTS 2019

Licensed and Registered Surveyors Renewals due by 30 June 2019

RSG – Rural Cadastral Workshop UniSA Mawson Lakes Saturday 29 June 2019

SurveyingSA Lands Title Office Visit (date TBC)

SEASC Darwin 15-18 August 2019

ANNUAL GENERAL MEETING 2019 AGM at Ayres House

30th Year Presentation of the JB and JW Calder Awards

SSSI-SA Spatial Information Day Friday 25 October 2019 Adelaide Convention Centre

Cadastral Workshop Dinner Monday 11 November 2019

Annual Christmas BBQ Breakfast Friday 13 December 2019 TBC

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**IN THE DISTRICT COURT OF SOUTH AUSTRALIA
ADMINISTRATIVE AND DISCIPLINARY DIVISION
DCCIV 628 of 2018**

In the matter of a complaint under the Section 38(1) Survey Act 1992

**INSTITUTION OF SURVEYORS, AUSTRALIA, SOUTH AUSTRALIA DIVISION
INCORPORATED,**
Complainant

and

SHAYNE BRYAN HENNIG,
Respondent

ORDER

Filed on behalf of the INSTITUTION OF SURVEYORS, AUSTRALIA, SOUTH AUSTRALIA DIVISION INCORPORATED, the Complainant, by the Crown Solicitor for the State of South Australia

Daniel Micklethwaite
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Settled by: Katherine Dellit

CSO Ref: 152057

Date of filing: 25 March 2019

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Judicial Officer: His Honour Judge Costello
Date of Complaint: 4 June 2018
Application made by: Consent
Date of Hearing: 19 March 2019
Date of Order: 21 March 2019
Appearances: Mr D Micklethwaite, Counsel for the Complainant,
Mr T Johnston, Counsel for the Respondent

THE COURT ORDERS:

I find that proper cause for disciplinary action exists on the basis of the Complaint dated 29 May 2018, and the affidavit of Guiseppe D'Aloia sworn 6 June 2018, and that orders should be made as follows:

1. The Respondent is reprimanded.
2. The following ongoing condition is imposed upon the Respondent's surveyors licence:
Condition 1: The licensee will not supervise or certify the work of any other surveyor until further order.
3. The following condition is imposed upon the Respondent's surveyors licence for a period of 12 months from the date of this order:

Condition 2: For every cadastral survey performed by the licensee a survey report must be prepared by the licensee in accordance with the requirements for detailed survey reports set out in section 17 of the Cadastral Survey Guidelines. This survey report must include evidence of full mathematical closures, as well as a comparison plan highlighting current and historic angles and distances.

4. The following further conditions and appendix are imposed upon the Respondent's surveyors licence until the matters identified in the conditions are satisfied:

Condition 3: For five surveys that fall into the category of requiring a detailed survey report under section 4.3.1 of Surveyor-General's Direction number 4, gazetted on 7 February 2019, at least three of which must also be of a rural classification, the survey and survey report must be audited by a registered surveyor (the auditing surveyor), other than the licensee, and that surveyor must certify that they are satisfied that:



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- i. The search of prior cadastral plans of survey is sufficient to properly define the boundaries;
- ii. The extent of the survey is sufficient to properly define the boundaries;
- iii. The boundary redefinition logic detailed in the report is sound;
- iv. That the Certified Survey Plan Checklist is complete and correct; and
- v. The survey report is compliant with the requirements for detailed survey reports set out in section 17 of the Cadastral Survey Guidelines.

Condition 4: If during the 12 month period immediately following 31 March 2019, five surveys of the category described in condition 3, are not performed by the licensee, then the Surveyors Board ("the board") may nominate surveys not falling within the category, but demonstrating a reasonable level of complexity and challenging boundary definition, to be audited until a total of five surveys have been audited.

Condition 5: If the auditing surveyor referred to in condition 3 is satisfied and certifies a survey report then the licensee must provide a copy of the survey plan and survey report to the Surveyors Board.

Condition 6: If the auditing surveyor referred to in condition 3 is not satisfied of the matters set out in condition 3, then the auditing surveyor and the licensee should follow the procedure set-out in the appendix to these conditions.

Condition 7: Any costs associated with compliance with these conditions, and/or the procedure set out in the appendix, including any costs associated with the auditing surveyor, are to be met by the licensee

 
DEPUTY REGISTRAR

APPENDIX

1. In the case of noncompliance with detailed survey report requirements, the auditing surveyor must prepare a report explaining the deficiencies of the survey report;
2. In the event that the auditing surveyor has any concerns in relation to the soundness of any boundary redefinition the auditing surveyor must either prepare a report explaining why the proposed boundary definition is unsound, or prepare a comparison plan by noting on a copy of the survey plan where the auditing surveyor considers the relevant boundaries might be better redefined, and noting any occupation or other evidence they relied upon;
3. If the licensee agrees with the matters set out by the auditing surveyor in a. and/or b. above then the licensee must prepare a new survey plan and survey report addressing those matters to the satisfaction of the auditing surveyor. The survey report for the new survey must then be certified by the auditing surveyor. The following must then be lodged by the licensee with the Board:
 - i. The original survey plan;
 - ii. the survey report;
 - iii. any report and or comparison plan produced by the auditing surveyor; and
 - iv. any final certified survey plan and survey report.
4. If the licensee and the auditing surveyor cannot agree to the satisfaction of the auditing surveyor then the licensee must present the original survey plan, survey report and any reports or comparison plans of the auditing surveyor to the Board to consider and resolve the dispute.
5. No order as to costs.



VALE

John Thornton Major

John Thornton Major died peacefully at his home on Monday, 25 March, 2019 surrounded by his family.

John Major joined the Department of Lands as a Survey Cadet. He graduated from the Institute of Technology with a Bachelor of Technology in Surveying and later qualified as a Licensed Surveyor.

He moved from the Department of Lands to the Highways Department and then became a project surveyor for the West lakes Development.

Eventually John took on a role as lecturer in the Institute of Technology at the Levels. John also served for a time on the Surveyors Board of SA.

John was a beloved and devoted husband to Kaye; proud father to James, Annie, and Eddie; and father-in-law to Kerrie. Cherished older brother to Genny and Rod (deceased).

He is pictured below (on the far right) with the Board in the SA Museum.

On behalf of all members, the Board extends its sincere condolences to the Major family.

