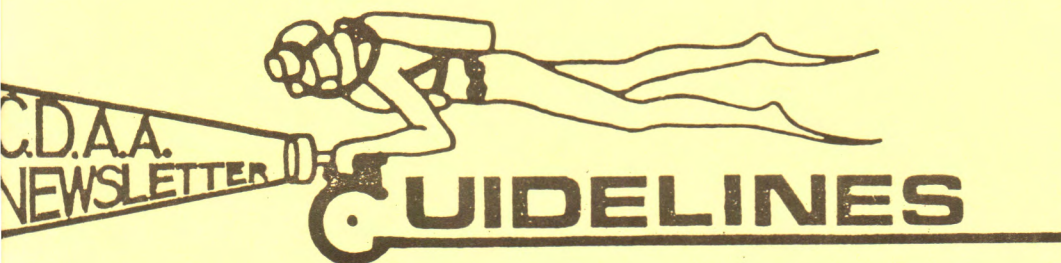


Registered by Australia Post-Publication No **VBH5938**

CAVE DIVERS ASSOCIATION OF AUSTRALIA

(Incorporated in South Australia)



N° 30

FEBRUARY 1988

DAA
PO Box 2161T

CDAA
PO Box 290

CDAA
PO Box 1166

PO Melbourne Vic 3001 North Adelaide SA 5006 Mount Gambier SA 5290

GUIDELINES

Newsletter of the Cave Divers' Association of Australia

No 30 - February 1988

CONTENTS

CONTENTS	PAGE
Contents	1
Editorial	2
Committee Contacts	2
Records Officer Address	2
CDAА News	
CDAА 1987/88 National Committee	3
CDAА Examiners	3
Unfinancial Members	3
Category 4	4
New Computer for CDAА Records	4
President's Report	5
Secretary's Report	6-7
Treasury	7
Regulations and Constitution	7
ACCESS	
Sinkhole Access Arrangements	8-10
Englebrechts Deed	11-15
Regulations - Amendment List 4	16
Articles	
Mullamullang Cave	17-18
Special Offer on Windcheaters and T-shirts	18

Articles and information may be reproduced without prior permission provided reprints are credited to the authors and 'Guidelines'.

Opinions expressed in articles are those of the individual authors and not necessarily those of the CDAА.

Deadlines for Items for Guidelines

The following deadlines will apply for submitting items to be included in future issues of Guidelines:

Guidelines No 31	Monday 4 Apr 88
Guidelines No 32	Monday 4 Jul 88

..EDITORIAL..

Guidelines No 30 - my 9th and last as Editor since I will be heading overseas at the end of February. Producing Guidelines has had its ups and downs. I have been able to report good progress in many areas. I suppose my chief disappointment is the lack of direct feedback from members.

The formation of the Review Committee and the controversy over the production of the three important documents acted as a unifying cause on which most people had an opinion. There is now a danger that without a new impetus, individual interests may diversify which may potentially not be in the best interests of the CDAА. The majority of cave divers just want to keep on diving and it is to be hoped that this will be the unifying aim. We need continuing emphasis on good landowner relationships in order to maintain present access arrangements and re-open holes currently closed. Doug has done a lot of work finding out what the landowners and government bodies want. Your job is easy: read the centre pages and follow the access instructions.

C. Bass

Category 3 Test: Saturday 19th March at Goulden's Hole.

Apply to National Testing Officer (Ian Lewis)

P.O. Box 11, Burwood, Vic 3125

(Please quote a phone number where I can contact you)

Records Officer

Peter Girdler
Range Road South
HOUGHTON SA 5131

Phone: (08) 380 5205 (home)

Please notify change of address and records-related problems directly to Peter. Do not send money in any form to this address. Money has to go through our Treasurers in the capital cities so we can keep the books in order.

COMMITTEE CONTACTS

Melbourne:	Lance Mitchell	(03) 720 1205
Adelaide:	Judi Minervini	(08) 278 1335
Mt Gambier:	Doug MacLeod	(087) 38 9305
Records:	Peter Girdler	(08) 380 5205

The above numbers are provided in case you need to contact the Committee urgently and cannot wait for a postal reply. Please use these numbers thoughtfully and at civilized hours.

1 CDAA 1987/88 NATIONAL COMMITTEE

Lance Mitchell	President
Judi Minervini	Vice President
Max Marriott	SA Treasurer
Nick Jones	VIC Treasurer
Cheryl Bass	Secretary ***
John Vanderleest	VIC Committee member
Peter Girdler	Records Officer
Ian Ploenges	SA Committee member
Doug Macleod	SE Region representative

*** Note that Cheryl will be resigning soon as she is going overseas.

The CDAA Committee would like to thank Cheryl for all her time and effort both as Secretary and Guidelines Editor.

Michael Vize will be taking over some of the duties previously carried out by Cheryl.

2 CDAA EXAMINERS

The following people are CDAA Examiners:

National Testing Officer: Ian Lewis

South Australia:	Ron Allum	Chris Brown
	Neville Grovermann	Glen Harrison
	Peter Stace	Brian Wagstaff
	Richard Megaw	

New South Wales:	Andrew Wight	Al Grundy
------------------	--------------	-----------

Western Australia:	Hugh Morrison
--------------------	---------------

Victoria:	Bill Bernhardt	Stan Bugg
	John Dalla-Zuanna	Barrie Heard
	Alan Jolliffe	Russell Kitt
	John McCormick	Peter Mosse
	Tony Richardson	Steve Sinclair
	Bob Wealthy	

3 Unfinancial Members

If you are reading this copy of Guidelines, then you are probably financial until either Jul 88 or Jul 89. If you are not financial then you will not have received Guidelines No 30, so you may not get to read this at all!!!

For the information of financial members, the cutoff date for renewals was 1 Dec 87, and as this has now passed, any unfinancial member is being given the option of re-joining the CDAA from scratch, or paying a \$20 're-instatement' fee, all back fees and the one or two year renewal fee, as well as providing written justification for retaining his/her existing category rating.

4 Advanced Category 3 now called Category 4

At the instigation of the Mount Gambier Council, a proposal to re-name Advanced Category 3 as 'Category 4' was passed at the CDAA National Committee meeting held in Mount Gambier on the weekend of 12/13 December 1987.

Members holding an Adv Cat 3 card will eventually be provided with their new Cat 4 card, and the Constitution and Regulations will be amended soon to reflect this change.

Reprinted from Guidelines No 29 are the rules for becoming Category 4:

CATEGORY 4 - APPLICATIONS - NEW RULES

To apply for Category 4 rating you should submit a list of 20 Category 3 dives (or equivalent) to the CDAA Committee. You must have been a Category 3 diver for at least 12 months, and you must have dived at least once in Pines, Fossil and Allendale East sinkholes. You must have done at least two dives in Englebrechts East. The remainder of the dives may have been done at Mount Gambier or at any other location (eg Nullabor or Jenolan).

The overall requirement is to demonstrate adequate expertise in cave diving, and each application will be evaluated by the National Testing Officer and the Committee. A \$5 card update fee applies to an upgrade to Category 4.

.. COMPUTER .. RECORDS .. COMPUTER ..

NEW COMPUTER FOR CDAA RECORDS

As many of you will be aware, there have been a few troubles with our mailing list, and several notified changes of address did not get through, resulting in members missing out on 'Guidelines'. There is also now a new requirement to be able to produce lists of members' names and category for the various landowners.

Well, dear members, here it is at last! The solution to all these problems. The CDAA has purchased a Personal Computer (PC) which will be used by the National Records Officer (Peter Girdler). The PC cost \$2870 and for the technically-minded members, it is a Lazer XT Turbo with a 20 Mbyte hard disc, 5.25 inch 360 kByte floppy drive, high resolution green screen and a dot-matrix printer.

The computer will enable quick updating of records and the production of an up to date mailing list. All of the information currently stored on cards will be transferred to the computer, and as an added bonus, the new style membership cards will be printed directly by the computer.

We will now be able to obtain information from the computerized system which was simply not available from the old card system in the past. For example, it will be possible to extract various statistics on members.

COMPUTER RECORDS ..

PRESIDENT'S REPORT

The main objective for the remainder of the 1987/88 year will be to gather all the documentation and produce the new Training Manual.

Published in the last Guidelines was a list of the all the topics to be included in the Manual. At the recent National Committee meeting (December 1987), general members who have definite skills relating to these topics were identified and letters have been forwarded seeking their contributions. We hope to have some draft information by the March 1988 National Committee meeting, at which time the final format of the Manual will be finalised.

Part of the Training package will encompass an accepted sinkhole being deemed as classified for training. That sinkhole will be Gouldens and negotiations are currently underway with the Lands Department.

Some of the areas under negotiation are:

- a. Pre-requisites for scuba divers wishing to train in Gouldens ie CDAA membership, basic pool training first, etc
- b. The safeguard conditions relating to the experience of the people who will accompany possible non-categorized divers into the hole when training.
- c. The numbers of people likely to avail themselves of the venue. ie the effect on the hole's environment.
- d. What work has to be done to the site. ie platform, entry/exit paving, climbing pitons and so on.

As in the past, please feel free to pass your comments on to me.

On Sunday 13 Dec 87 the South Eastern Region representative and myself visited Reg and Mary Watson. We discussed the diver-property agreement drafted last year which Reg has been looking into.

Aside of some reasonable additions, all of which can be easily fitted into the current format, general acceptance of the agreement was reached.

In addition to this Reg has consulted with Greg Muller from the Mount Gambier City Corporation (who handled the CDAA-Council Deed) and has been advised that a CDAA-Landowner agreement should also be entered into.

I have finished that additional document and Reg should have it as you read this report. I am confident that it will also meet with the same approval.

I can assure you that Reg is as eager to finalise this matter as we all are, but his responsibility to the property owners takes precedence.

Again, Thanks for your patience.

L.R. Mitchell
President

Secretary's Report

This report incorporates the salient points from the National Committee meeting held in Mount Gambier on Saturday 12 December 1987.

Present: Peter Girdler, Lance Mitchell, John Vanderleest, Doug MacLeod, Cheryl Bass, Nick Jones.
Apologies: Max Marriott, Judi Minervini, Ian Ploenges, Ian Lewis

Many of the matters discussed have already been covered elsewhere in Guidelines, either in the 'News' or in the President's Report. Other points discussed were as follows:

- a. CDAA Application Form. A new Application Form will be designed and it should be easier for candidates and Examiners to fill in correctly.
- b. Category 1 cards no longer require a photograph, but they must be sent back to the Records Officer for upgrading to Category 2.
- c. Mount Gambier Council Agreement. The Mount Gambier Council Agreement is being slightly amended to remove the old equipment standards which were inadvertently included in the Agreement. Some members have pointed out that they shouldn't have to sign to say they will be wearing a snorkel, wet suit and bourdon tube depth gauge when a snorkel will cause snagging, they always use a dry suit and they don't possess a bourdon tube. As these alterations do not alter the spirit of the Agreement, it is not expected that the Mount Gambier Council will have any objections.

The Agreement is printed in full in this issue of Guidelines.

- d. ASF/CDAA Agreement. A draft agreement between the Australian Spelaeological Federation and the CDAA was examined. The ASF cannot recommend that the CDAA standards be THE cave diving standard until the CDAA recommends/requires the use of independent (dual) air supplies for all penetration diving (such as in Englebrechts East and West).
- e. Independent Air Supplies. The Committee recommended to the Examiners that the theory and practise of independent (dual) air supplies be included in the Category 3 test.
- f. Reduced Fee for Couples. It was decided not to introduce reduced fees for couples (both being members of the CDAA), as was requested by a member. The only possible saving to the CDAA would be if only one Guidelines was sent (and in fact many couples like to each receive their own copy) and there are many other costs involved in running the CDAA (apart from producing Guidelines), and these costs should be borne by each member. Finally, with the changing pattern of society the CDAA would probably end up with additional administrative costs if relationships changed.
- g. Leave of Absence. Two members have written requesting suspension of CDAA membership whilst overseas. Again it was decided that for those few people affected, the administrative problems of introducing this and working out who qualifies, etc, would not be cost effective.

- h. Cave Divers Association of AUSTRALIA. It was suggested that Australian regions may be able to organise their own qualification system for their particular cave diving conditions, and then it would be necessary to organise whatever cross over requirement was needed to become a Mount Gambier cave diver.

In addition a number of items were also discussed relating to specific problems as sent in by individuals and also there was the usual free ranging discussion on all matters relating to the CDAA. The Committee meeting was greatly facilitated by arranging for the Committee members to all stay under one roof.

C. Bass
Secretary

\$\$\$ TREASURY \$\$\$

The current situation with funds (Victoria) is:

Investment Account (10% daily)	- \$4860
Cheque Book account (State Bank)	- \$3079
Total	\$7939

The South Australia Investment account has \$3002 in it.

The investment accounts contain pre-paid fees for 1988/89.

Renewals (Victoria)

As at 15 Dec 87 there have been 129 renewals for one year and 243 renewals for two years.

Regulations and Constitution

The Constitution which was issued to all members in Feb 87 has been amended twice so far.
The latest amendment is AL 2 dated May 87.

The Regulations were originally issued in Guidelines No 25 (Aug 86) have been amended three times.
The latest amendment is AL 3 dated May 87.

(Amendment List 4 is included in this issue of Guidelines)

The Constitution and Regulations will soon be re-issued to all members in 'loose leaf' form so that future amendments can be made by re-issuing entire pages.

SINKHOLES ACCESS ARRANGEMENTS

Permission to dive any sinkhole must be obtained.

Updated information on how to obtain permission to dive on private land has been gathered by Mr Doug MacLeod and is summarized in the chart.

Current procedures for gaining access to government land is also tabulated. But, be warned, these procedures are under review. Any changes will be published in Guidelines.

There should be no need to remind you how important it is that we all go about our diving in the right way. A few divers have stepped outside these guidelines and have been duly penalised. But the trouble is that landowners remember these few divers and forget the hundreds of divers who are following the rules.

PROTOCOL FOR DIVING IN THE SINKHOLES OF MOUNT GAMBIER REGION

General Rules to be observed on all Properties

1. Permission to enter remains the prerogative of the landowner or landowner representative.
2. Stock must not be disturbed unnecessarily.
3. Drive with care and stay on existing tracks.
4. All gates opened must be closed.
5. Any rubbish carried in must be taken out.
6. Smoking is prohibited when the grass is dry and during summer; the exception to this rule is on Horse and Cart and Tea Tree where smoking is PROHIBITED AT ALL TIMES.
7. No dogs allowed.
8. Additional rules apply on certain properties and are listed alongside the contact information.



.. CDAA ACCESS PROTOCOL ..

SINKHOLE	CAT	LANDOWNER	WHO TO APPLY TO FOR PERMISSION TO ENTER	HOW TO OBTAIN PERMISSION	WHEN TO APPLY	ADDITIONAL RULES AND REGULATIONS
HORSE & CART TEA TREE	I I	Mr Don Telford	Mr Don Telford P.O. BOX 2629 Mount Gambier Tel: 087 384 003	By Phone or by mail	1 Week prior to dive	
ELA ELAP ONE TREE HOLE	II II	Mr Peter Norman	Mr Peter Norman Private Bag 67 Mount Gambier Tel: 087 385287	By Phone or Call In	Before diving	
SWIM THROUGH	II	Valerie Earl C/o Post Office Allendale 5291	Leasee = Mr David Easton 8 Tarandi Road Mount Gambier Tel: 087 250938	By Phone	1 Week prior to dive	Ewes lambing for approximately 6 weeks around 1st May You must get PERMISSION before entering
THE BLACK HOLE TEN EIGHTY THE BULLOCK HOLE	II II III		Mr Reg Watson P.O. Box 1319 Mount Gambier SA 5291 Tel: 087 268277	By Mail, stating names of all divers enclosing stamped, addressed envelope for reply.	2 Weeks prior to dive	1) Should arrive within 5 minutes of appointed time. 2) Divers must not proceed beyond house until credentials have been checked. 3) Go only to the hole you have permission to dive - no other being. 4) New divers must be accompanied by a diver who has previously dived on Barnoolut.
MAX'S HOLE	III	Mr Trevor Edwards	Mr Trevor Edwards P.O. Box 1319 Mount Gambier Tel: 087 268277	By Phone	7 clear days prior to dive	
PICCANINNIE PONDS	II	National Parks and Wildlife Service				CLOSED TO DIVERS AND SNORKELLERS UNTIL FURTHER NOTICE.

CLOSED UNTIL FURTHER NOTICE

HELLS HOLE PINES ELAINES	II III III	Woods & Forests	Mount Gambier Forest H.Q PMB 7 Mount Gambier Tel 087 399 254 087 399 292	Contact by Phone during working hours to arrange mutually convenient time to pick up permit.	Few days before.	Abide by permit conditions. NO diving on FIRE BAN DAYS. Permit may be obtained by mail if you enclose signed photocopy of card
ENGLEBRECHTS - EAST WEST	III 4	Mount Gambier Council	Tourist Bureau Mount Gambier	Sign deed Once only Costs \$5	On day of dive	
THREE SISTERS	4	Millicent Council	Any member of the committee	By phone or mail	Pick up key before going up Mt Gambier	
LITTLE BLUE/ BABY BLUE ALLENDAL	I III	Port MacDonnell Council	Permission not required yet but must have appropriate Cat. card.			
FOSSILS GOULDENS SISTERS	III I I	Department of Lands	Department of of Lands P.M.B 124 Mount Gambier Tel: 087 241 598	By Phone during office hours or by Mail	During office hours	Stay out of Gouldens when pump is operating.
EWENS PONDS	NONE	Department of Lands	Permission not required. Closed 1 Sep-30 Nov each year.			Read and observe Guidelines of usage of Ewens Ponds. Available from Dept. Lands or at Ponds themselves. NO TRAINING ALLOWED.

MEMBERSHIP NO.....

CITY OF MOUNT GAMBIER

DIVING DEED

ENGLEBRECHT CAVE

THE SCHEDULE

Item 1	Date of Deed.....
Item 2	Full name, address and occupation of Diver,

DIVING DEED

THIS DEED is made on the date in Item 1 of the Schedule hereto BETWEEN the person named and described in Item 2 of the Schedule (hereinafter together with his or her administrators and executors is called the "Diver") of the first part AND CITY OF MOUNT GAMBIER of 10 Watson Terrace Mount Gambier in the State of South Australia ("the Council") of the second part

WHEREAS

- A. The Council is the owner of certain land known as the Englebrecht Cave Reserve (the "Reserve") on which there exists underwater caves known as sinkholes, there being an easterly sinkhole and a westerly sinkhole on the Reserve;
- B. The Diver wishes to dive in either or both of the sinkholes on the Reserve from time to time using scuba or other means of diving and other equipment;
- C. The Council will permit the Diver to dive at the Reserve if the Diver complies with certain conditions and the requirements of the CAVE DIVERS' ASSOCIATION OF AUSTRALIA INCORPORATED (the "Association") and indemnifies the Council against claims made against the Council as a result of granting such permission;

NOW IT IS HEREBY AGREED AS FOLLOWS:

- 1. In consideration of the payment of the sum of FIVE DOLLARS (\$5.00) to the Council by the Diver, the Council will permit the Diver to enter the Reserve and dive in any sinkhole thereon provided that the Diver complies at all times with the terms of this deed and all the requirements of the Association.
- 2. The Council may refuse permission to enter the Reserve and/or dive in any or both of the sinkholes thereon at any time and such refusal may relate to days, occasions or sinkholes or be general in its nature.
- 3. The Diver enters and remains on the Reserve and in any sinkhole thereon solely at the Diver's risk.
- 4. The Diver acknowledges that he or she is aware of the risk of silting of the water in the sinkholes on the Reserve and that visibility may be lost in consequence thereof.

5. The Diver shall take all reasonable steps to acquaint himself or herself with the characteristics of the sinkholes on the Reserve prior to diving therein.
6. The Diver agrees that he or she has undertaken proper training and testing programmes so that prior to diving in any particular sinkhole the Diver has satisfied the Association and has passed tests which show that the Diver is capable of diving in that sinkhole safely and is aware of the dangers and characteristics of that particular sinkhole and is capable of handling and facing those dangers and characteristics and without derogating from the generality of the foregoing is aware of the dangers and likelihood of silting of the waters and the reduction in visibility and other dangers and hazards of deep water diving including nitrogen narcosis and the bends and further is capable of using hand lines to exist from a sinkhole safely in conditions of low or zero visibility.
7. The Diver agrees that he or she will not dive in any sinkhole on the Reserve unless -
 - (1) the Diver is a current member of the Association and is accompanied on any dive by a current member;
 - (2) the Diver has been tested by and has current approval from the Association to dive in the sinkhole in which the Diver proposes to dive; and
 - (3) the Diver is equipped in the manner specified by the Association.
8. The Diver will not dive below thirty seven (37) metres or the maximum diving depth stipulated by the Council, whichever is the lesser depth.
9. The Diver agrees that he or she will not make any claim or initiate any proceedings against the Council or any of the Council's officers servants or agents which may result from or relate to the Diver's presence on the Reserve or the Diver diving in any sinkhole thereon.
10. The Diver agrees that he or she will indemnify and hold harmless and will keep indemnified and held harmless the Council and the Council's servants and agents and any lessee of the Reserve from and against all claims, demands, costs, damages, losses, expenses, actions or proceedings arising out of, connected with or in any way related to -
 - (1) this deed; and/or

- (2) any diving that the Diver may do in any sinkhole on the Reserve; and/or
 - (3) the presence of the Diver on the Reserve; and/or
 - (4) any advice or information given to the Diver by the Council or the Council's officers servants or agents or any lessee of the Reserve.
11. The Diver agrees that he or she will comply with any requirements of the Council relating to any conduct of the Diver on the Reserve.
 12. (1) The Diver shall ensure that prior to each and every occasion on which he or she desires to dive in either or both of the sinkholes, the following information is inserted into the Record Book of Dives which the Council maintains:

The Diver's name, current Association membership number, current Association Category Rating, and expiry date of the Diver's Association membership card and the date or dates on which and the sinkhole or sinkholes in which the Diver proposes to dive.

 - (2) After the information is inserted the Diver shall sign his or her name in the book to signify that the information is true and correct.
 - (3) For the purposes of this clause the word "occasion" means any period of up to and including seven days.
 13. The Diver shall produce his or her current Association membership card to any officer of the Council upon being requested so to do by that officer, when the information in Clause 12 is being entered in to the Record Book of Dives or the Diver has requested keys to allow access to either or both of the sinkholes, or when the Diver is on the Reserve.
 14. The Diver agrees that if he or she is given any key or keys to provide access to sinkholes on the Reserve then he or she undertakes to ensure that any gate or door which provides such access will be locked immediately after passage through it (unless the Council or any lessee of the Reserve stipulates otherwise) and the Diver undertakes to ensure that any such key or keys are kept in safe custody and are subsequently returned to the custody of the Council in accordance with any stipulation or request made by an officer of the Council.

15. The Diver will ensure that no damage is sustained to the property of the Council or any lessee of the Reserve by the Diver or persons accompanying him or her and that any property will be left after any dive in the same or better state as found on entry.
16. The Diver agrees that he or she will use the equipment on the dive as contained in the attached Specification of Recommended Equipment and acknowledges that the Specification and the Plan of the sinkhole or sinkholes attached hereto have been provided to the Council by the Association as a guide only to diving in the sinkhole or sinkholes and that the Specifications are minimum requirements only and further agrees that he or she will not hold the Council responsible for errors or omissions in the Specification or the Plan.
17. The Diver hereby acknowledges by his or her execution hereof that he or she has read and fully understands the obligations stated in this deed.

IN WITNESS WHEREOF THE PARTIES HERETO HAVE EXECUTED THESE PRESENTS AS A DEED:

SIGNED by the DIVER)
as a Deed in the)
presence of:)

.....
Witness

THE COMMON SEAL of)
CITY OF MOUNT GAMBIER)
was affixed hereto pursuant to)
a resolution of the Council and)
in the presence of:)

.....
Mayor

.....
Chief Executive Officer

RAN:CLT/M86008893A/M6:ed

CAVE DIVERS ASSOCIATION OF AUSTRALIA INCORPORATED

REGULATIONS

AMENDMENT LIST NO 4

DATED 12 JAN 1988

This is Amendment List No 4 to the Regulations of the CDAA dated August 1986 which were originally issued with Guidelines No 25.

1. The following amendments are required as a result of renaming 'Advanced Category 3' to 'Category 4':

Regulations 38, 54 and 64

38. Category cards issued are Category 1, Category 2, Category 3 and Category 4.

54. A Special Visitor Permit may be issued for any category up to and including Category 4.

Category 4 Diving

64. For an Category 4 dive, the group of divers shall appoint a responsible adult to act as a surface member who will hold the key at the dive site until all divers in the group return safely.

2. The following amendment is required because records are now kept at a National level (on a computer), rather than at a State level:

Regulation 58

58. Records of members will be kept at a National level.

3. The following amendment is required to ensure that independent air supplies are used for penetration diving. This will bring the CDAA in line with the Australian Spelaeological Federation and the rest of the international cave diving community.

- 64A. Each member whilst diving in a Category 4 sinkhole shall have an independent (dual) air supply.

End of Amendment List No 4

RTICLES..ARTICLES..ARTICLES..ARTICLE

MULLAMULLANG CAVE

Many Australians regard the Nullarbor Plain as a vast area devoid of anything of interest. Nothing could be further from the truth as the Nullarbor is a thick belt of limestone riddled with caves and sinkholes. Some of these caves contain water, although in all cases the water is fairly inaccessible being some 100m beneath the ground surface.

A recent expedition succeeded in adding 150m of underwater passage to Mullamullang Cave. Mullamullang is a very extensive cave system having some 11km of passages. An extensive survey was made of the cave in the sixties by the Cave Exploration Group of South Australia. Numerous small lakes were discovered. All these lakes had been snorkelled over the years but our intention was to dive in as many as possible. Hopefully one would lead to a new undiscovered section of dry passage.

A party of 10 cavers was involved in the exploration. Two lightweight sets of diving gear were used - 38cf tanks, single piece wetsuits, small high power torches, minimal weight belts (rocks were used to supplement these on the dive), and of course a guideline reel and the obligatory underwater camera to show others where we had been. Food, water, and sleeping bags were also needed as we planned to stay overnight in the cave. Water in the caves proved to be unsuitable for drinking as it was too brackish.

The most promising lakes in the cave were close to the end of the main cave system (some 4.5 kilometres into the cave). The plan was to walk in halfway, camp the night, leave a store of water and food and the sleeping gear at the camp site and continue on with the dive gear and enough food and water until we returned. Once the end of the cave was reached we would progressively work our way back diving in each of the lakes we had passed on the way in. Hopefully one of the lakes would sump through to another air chamber and an extension of Mullamullang Cave.

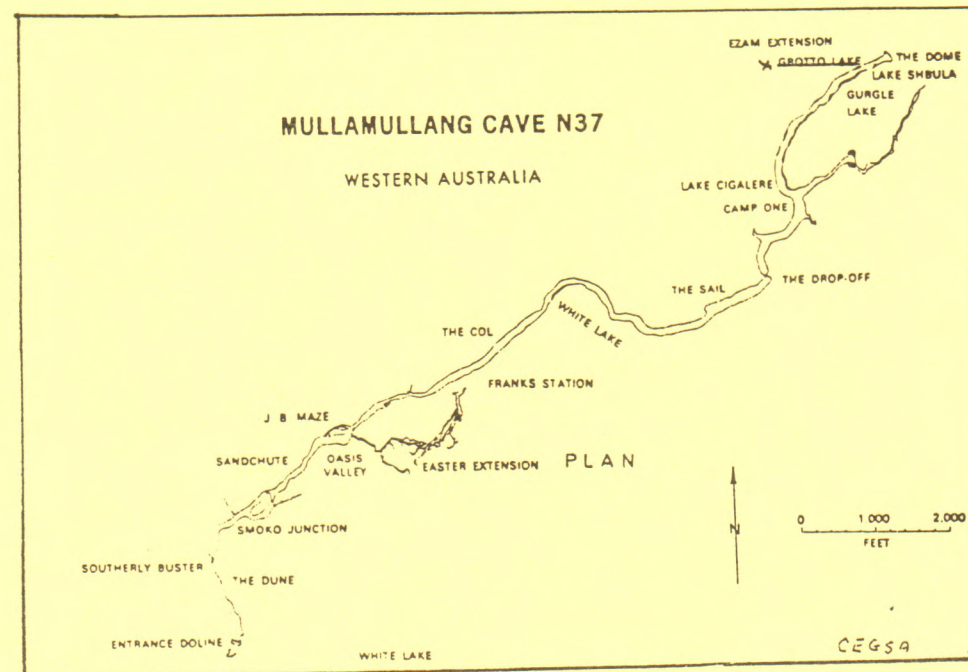
After an initial easy sandy section, the going starts to get pretty tough after the one mile cairn is passed. About 35 rockpiles, the steepest about 60m high, need to be negotiated before the end of the cave is reached.

A small lake at the end of the cave was dived first, then Lake Sh'bula, both without success. Grotto Lake was then checked by one diver. After some minutes, when the lead diver had not returned, we realized that it must "go", so the second diver was put in to follow up the first. The lake is some 40m long and then sumps and runs for another 110m. At this point there is a rockpile blocking the sump and by swimming upwards an air chamber is reached. Diving gear was left and attempts were made to negotiate the

rockpile without success. The divers started back and discovered another small air chamber on the SE edge of the sump. This was filled with many salt crystal formations but once again there was no way this chamber could be negotiated. By this stage air supplies were running low so no more diving could be safely contemplated. We had dived in three of the thirteen odd lakes at the end of Mullamullang Cave and had succeeded in adding another 150m to the end of the cave. Unfortunately no further extension to the dry cave was discovered.

The party exited the cave some 24 hours after entering and taking some 6 hours on the return journey from Grotto Lake.

Tony Richardson



SPECIAL OFFER ON WINDCHEATERS AND T-SHIRTS

We have a number of windcheaters and T-shirts in the smaller sizes which we are offering to you at considerably reduced prices.

For a limited period only:

Windcheaters sizes 12 (85cm), 14 (90 cm), 16 (95 cm)
in various colours are available for only \$12 and
T-shirts sizes 12, 14 and 16 for only \$5

Unbeatable value for all the family. Write direct to the Melbourne Post Office Box.

SCUBA DIVING ACCIDENTS

can include:

- decompression sickness
- pulmonary barotrauma

FIRST AID FOR BOTH OF THESE:

1. ELEVATE FEET AND HEAD DOWN
2. 100% OXYGEN
3. OBTAIN EXPERT ADVICE
4. RECORD DIVE PROFILE
5. FLUIDS

DECOMPRESSION SICKNESS:

AS MUCH FLUID AS PATIENT CAN
TOLERATE PROVIDING HE CAN
URINATE.

PULMONARY BAROTRAUMA

AS REQUESTED BY THE PATIENT.

PHONE: DIVER EMERGENCY SERVICE
(008)088 200 (IF NECESSARY
USE - 000 - THROUGH YOUR
EXCHANGE.

TAKE PATIENT TO MT GAMBIER
HOSPITAL AND INFORM
THEM YOU HAVE CONTACTED
DES.

IN AN EMERGENCY:

1. PHONE **(008)088 200**
(IF NECESSARY DIAL 000)
2. STATE 'THIS IS A DIVING
EMERGENCY'
3. PROVIDE DETAILS OF IN-
CIDENT, DEPTH, TIME, LOC-
ATION, SYMPTOMS, ETC.
4. WAIT FOR ADVICE AND
DIRECTIONS
5. ACT ON ADVICE AND DIREC-
TIONS
6. FOLLOW UP PROJECT STICKY-
BEAK 062-47 5554