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Cover Shot: Rod Smith setting up a belay in Juggler's Canyon. Photo by Rob Clyne

# **Society News**

Club EPIRB

Just a reminder to all trip leaders that we have the new EPIRB and this should be taken on every trip. Our Equipment Officer, Jim (0407 284 256), <u>icrockett3@bigpond.com</u>), has this, so please coordinate with him to collect it before your next trip.

#### MSS Officers list

**Position** 

President president@mssadventure.org.au secretary@mssadventure.org.au Secretary treasurer@mssadventure.org.au Treasurer Equipment Officer equipment@mssadventure.org.au library@mssadventure.org.au Librarian training@mssadventure.org.au Training Officer

**ASF** Liaison

Newsletter Editor(s)newsletter@mssadventure.org.au Website Manager webmaster@mssadventure.org.au

**Public Officer** 

Jim Crockett Rod Smith Jim Crockett Jim Crockett Rod Smith Beth Little Jim Crockett,

Name

Rod Smith Jim Crockett Rod Smith John Gray

# **Membership Details**

Full member \$80

Prospective member \$30 (3 months)

Family membership \$160

Honorary membership \$45

Membership of other ASF Clubs \$30

Preference is for payment by Direct Debit to MSS Bank Account

BSB 062-021 Account 00901421 (CommonWealth Bank)

Cheques or Cash also accepted.

## **Editorial**

Unfortunately there is only 1 trip report for this edition of the newsletter. One reason is that just as we were all warming up for the start of the canyon season the Blue Mountains were devastated by a series of catastrophic bushfires resulting in damage to not only large areas of National Park but also heart breaking destruction to many properties. We are lucky that there was not any reports of damage to any MSS members properties in the Blue Mountains. These damaging fires have forced the NPWS to close a number of areas including many popular canyoning areas including Wollangambe, Du Faurs and Serendipity canyons. These are being regularly assessed and may be open before the end of 2013. Other areas currently closed and not likely to be opened again until 2014/2015 season include all canyons accessed via Waratah ridge (HITW, Bungleboori ck and tributaries), canyons north of the Wollangambe river, Bell creek canyon and all canyons south of the Bells line of road between Bell and Mt Banks.

Nevertheless there are still many canyon areas still open and this may be a good opportunity to plan trips to less visited canyon areas, which usually means longer walks and in our new trip schedule we are endevouring to do just that.

We just had the 48<sup>th</sup> MSS AGM last week and one of the issues we discussed was that of making it compulsory to have all participants on MSS canyon trips or any vertical activity to wear UIAA approved helmets. (It is already mandatory on Caving trips) The obvious reason is the improved safety that this would give to all paticipants. This issue is up for discussion and if you would like to make comments then please contact the MSS training officer Beth Little, President Jim Crockett or Secretary Rod Smith. We will review this at the next MSS meeting on the 6<sup>th</sup> February.

Since returning from my successful and enjoyable trip to Europe earlier this year I have been busy starting organise for the International Congress of Speleology to be held at Penrith Panthers conference centre in 2017 as the appointed secretary. This is going to be a massive undertaking for ASF and Australian Cavers but will present a great opportunity for foreign cavers to get to know and see some Australian caves as well as opportunity for Australian cavers to meet and network with foreign cavers.

I recently went on a work trip to Papau New Guinea and knowing this country has some excellent opportunies for discovering new caves I was keen to seek out any opportunity for caving that may have presented. Fortunately a contractor I had hired to help me with the work there was from a smaller island some distance from New Ireland. I knew that New Ireland itself has some good caves but this contractor also advised me that there were some caves on his hometown island that had never been looked at. He was very welcoming to take us there in the future and so I will be working with him to see if we could organise a mini-expedition to this island hopefully in the next 2 years or so.

So it is not so long until the end of 2013 and I am sure we are all busy working towards our summer breaks and time over Christmas to meet up with family and friends to share food and drink and then later end the year with a bang. So I will wish all MSS members a Merry Christmas and Happy New Year.

PS: I got another trip report and was able to add this to the newsletter before going to Print/Web

Regards Jim Crockett

## Jenolan - 19th-20th October 2013

Participants - Rod Smith, Beth Little, Chris Johnstone, Helena Johnstone, Ben Johnstone, Owen Johnstone

Please enjoy what's jotted in my joyfully jaunty Jenolan journey journal:

With the fires burning out of control like a jalopy juggernaut on a joyride, the trip to our majestic objective was subject to the conditions. Checking the NPWS site, Jenolan was still open, and the RFS site didn't show any fires near the joint. There was the possibility that the Great Western Highway would be closed due to adjacent fires jaywalking accross, but that didn't happen.

I picked up a juvenescent Beth on the way through and we joined Chris, Helena and the juvenile Johnstones at the Jenolan Cavers Cottage. They already had the fire going, and the junior Johnstones were in pajamas and counting jumping jumbucks. The rest of us weren't too far behind.

Although cool overnight, the days warmed up, justifying no jumpers or jackets. We started Saturday with J20 - Rho Hole, we just had to find it first. I located J24 - Ian Carpenter very quickly and the conjecture was that, since they connected, J20 - Rho Hole wouldn't be too far away. An hour later we still hadn't found the entrance. Finding the cave was in jeopardy when I investigated a small depression and found a locked gate. Although we couldn't locate the tag, the key fit the lock, so we were confident it was the right cave, although there was some jocoserious jabbering about a juxtaposed jail.

There was only one killjoy. Although the key fit the lock, and it turned, the lock failed to open. We all had a go, with numerous cajoling techniques on display (no jimmys or jackhammers), but all to no avail. Although we'd found the cave, which doesn't always happen, it had rejected us like jaded jailbait.

A bit dejectedly we returned to the cars for lunch. From there we set off in the opposite direction, to find J72/J125 - Serpentine.

Again we were able to locate another cave, this time J35/J36 - The Nostrils, very quickly, to narrow down our search. However, this time we found the entrances to J59/J60/J61 - Little Canyon and one of the J72/J125 - Serpentine entrances very quickly. Jackpot! We were going underground, so we danced a jig, or jive or jitterbug, as the case may be.



Chris at the Hip Hugger, Little Canyon Cave Jenolan -Rod Smith

Knowing the through trip was probably out of the question, unless we conjured a miracle, we decided to enter the J59/J60/J61 - Little Canyon end and have an explore. Finding the entrance that appeared the easiest to navigate, we descended into the dark like jaguars in the jungle.

The cave became more interesting the further we went. It starts with a sloping floor under the base of the cliff, not to dissimilar to some sandstone caves. As we progressed further the jagged rock jutting out changed into a much more rifty shape, hence the Little Canyon name. Soon the only way forward was a

major chimney that'd turn legs to jelly. Closer inspection adjusted my perception so I judged it was possible to climb without injury.

Ben had had enough by this stage, so he and Helena ejected and went back to the cars while the rest of us tackled to chimney. The chimney was not as difficult as it first looked and soon we all made it to the top. Our trajectory then jolted us into the squeezes, four in quick succession. I made it through the first three, but jerked to a halt at the fourth. The others kept telling me it was the smallest so far, and with the return journey causing jiggling in my jockstrap, I decided it was a good time to stop.

Chris, Owen and Beth continued but, being that they were also aware of the jittery return journey, didn't venture too much further. The squeezes must have been easier on the way out, we didn't find the return journey as bad as we were expecting.

Returning to the surface it looked like someone was using a jacinthe filter, or maybe the surface of Jupiter. No joking! The sun shining through the smoke haze added a very distinctive colour to everything.

We rejoined Helena, asleep in the car, Ben had jogged back to the cottage.

Sunday morning, feeling rejuvenated, we decided to start be having another crack at J20 - Rho Hole, this time the project was aided by WD40. As soon as we arrived I sprayed a liberal coating of WD40 all over the padlock. Would it be enough, the jury was out. I sat down to let it do it's magic, but Helena didn't have the same patience. After a few minutes of playing with the lock it opened, but was still jambed in the bolt preventing the gate from opening. I took over from Helena and soon had the padlock free and gate ajar, our return jubilantly justified, we were in! Rejoicing we geared up and entered the first chamber.



<u>The Drip, In Rho Hole Jenolan – Rod Smith</u>

Once we were all underground Chris located the squeeze to the second chamber and went through. We all followed, except for me at the end. I made three attempts, burning kilojoules, but it was like trying to fit a jam jar between my jaws. I just had to jealously sit and wait.

Unfortunately I can't tell you about all the jewelled wonders the others saw, I'll just have to change my shape for my next visit. Maybe if I became a jejunator I could jettison my jumboness.

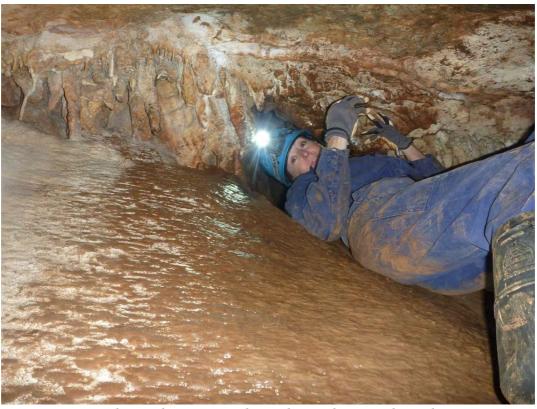
Ben was the first to return from their sojourn and was above ground in a jiffy like a jackrabbit on jellybeans. As Helena started negotiating the squeeze I heard Ben talking, and someone else answering. I sent Helena up to find out who he was talking to, and make sure there wasn't any problems. It turned out there had been a tour into J19 - Aladdin, and Ben had surfaced the same time they had. It must have been a surprise to the guide to see Ben apparently on his own, and that Ben knew they'd come from J19 - Aladdin because he was also a caver, and using the right jargon. Helena emerging would have set minds at ease.

By the time the rest of us made it up the tour group had gone. We promptly jambed the lock into the gate and returned to the cars for lunch. Still needing to pack up and clean the cottage we judged there was no more time for hijinks.

Another top joyous Jenolan jaunt.

Rod.

This trip report has been brought to you by the letters E and T, and the number 127



Helena relaxing? In Rho Hole Jenolan - Rod Smith



<u>Jugglers Canyon team – Rob Clyne</u>

No trip report yet received for Jugglers Canyon but from all accounts it was an excellent day with may of our junior members honing their abseiling skills.

# Zorro Canyon

Sunday 1st December 2013

Canyoners - Rob, Rod and Tony.

I must say I hadn't heard of Zorro canyon until Rod suggested we do it on the Sunday after our trip down Juggler on the Saturday.

There were only 3 of us today.

Travelling across the Darling Causeway you could really see the damage the October fires had done. After meeting at the Zig Zag we travelled out to the Glow Worm Tunnel road then turned left onto Sunnyside Ridge Road.

I was amazed how well the road was graded and seemed a lot wider than I remembered it. A coal mining operation explained the mystery with the road dramatically getting rougher and more "bushy" just past the coal mine turn off.

Another right hand turn and a long run out along a ridge we parked at almost the end of the track. Rod had done the canyon the previous season but it was quite difficult to pin point the spot to start.

Rod thought we were in the ballpark so we geared up and headed bush. Scrubby country with some nice pagodas but the canyon entry seemed allusive. Trying a few more ridges, a bite to eat, a chat and a bit more exploring unfortunately didn't yield any results.

With time marching on etc we decided to come back again with better maps and start earlier in the day.

Rod suggested lunch at Bird Rock would be good on the way back. We took a "short cut track" which turned out to be "interesting" part on the trip.

After an interesting hill climb (wish I still had the Troopy) we came across a nice tree blocking the way.

We had group meeting – deciding to use Tony's patrol to pull it out of the way with a chain. Surprisingly it all went smoothly and we ended up at Bird Rock enjoying the expansive view for lunch.

We parted ways back at Zig Zag still having an enjoyable day even though we didn't find the elusive Zorro Canyon.

But it will still be there for "next time"

Cheers Rob

# **Upcoming Events**

11<sup>th</sup> - 12<sup>th</sup> January 2014 <u>Canyoning Bugleboori</u>

Contact: Beth Little, 0450 226 811, littlebeth78@hotmail.com

Contact by: 9th January 2014

Grade: Medium/Hard

Many canyoning options in this area.

Trip may get changed due to the recent Blue Mountains fires.

Many canyons in this area are currently closed contact trip leader for advice.

11<sup>th</sup> - 12<sup>th</sup> January 2014 <u>Interclub Kids Caving – Wee Jasper</u>

Contact: Jim Crockett, 0407284256, jcrockett3@bigpond.com

Contact by: 9<sup>th</sup> January 2014

Grade: Kiddies

Chance for the kids or grandkids to have a try at caving. Adults also welcome as we need plenty of supervision

Car Camping at Billy Grace reserve

25<sup>th</sup> - 26<sup>th</sup> February <u>Canyoning Newnes Plateau</u>

Trip leader: Jim Crockett,0407284256, jcrockett3@bigpond.com

Contact by: 23<sup>rd</sup> February

Grade: Medium Camping at yobo's

Surefire and Closet Canyons.

Possibility of extension on Public holiday

October or later (TBA)

Trip Leader: Rod Smith

Caving at Colong Contact: 0438 444 262, roderick smith@hotmail.com

By: TBA Grade: Medium

11<sup>th</sup> - 12<sup>th</sup> January Trip Leader: Beth Little

Canyoning Bungleboori Contact: 0450 226 811 <u>littlebeth78@hotmail.com</u>

By: 9<sup>th</sup> January Grade: Medium/Hard

11<sup>th</sup> - 12<sup>th</sup> January Trip co-ordinator: Jim Crockett

Interclub Kids Caving Contact: 0407 284 256, jcrockett3@bigpond.com

Wee Jasper By: 9<sup>th</sup> January

Organiser: Joe sydney Grade: Easy/Kid friendly

25<sup>th</sup> - 26<sup>th</sup> January Trip Leader: Jim Crockett

Canyoning Contact: 0407 284 256, jcrockett3@bigpond.com

Surefire and Closet By: 23<sup>rd</sup> January
Long walk or cycle required Grade: Medium

1<sup>st</sup> - 2<sup>nd</sup> February Trip Leader: John Gray

Canyoning, Bushwalking Contact: 02 47392111 John.gray@sydneywater.com.au

Kowmung, Tuglow Area By: 30<sup>th</sup> January

Grade: Exploratory/Hard

6<sup>th</sup> February Co-ordinator: Rod Smith

MSS Meeting Contact: 0438 444 262, roderick smith@hotmail.com

At Canada Bay SES Headquarters

By: 6<sup>th</sup> February

Grade: Planning

15<sup>th</sup> February Trip Leader: Rob Clyne

Canyoning Contact: 0409033224 <u>caver@people.net.au</u>
Grand Canyon By: 13<sup>th</sup> February

By: 13<sup>th</sup> February Grade: Easy/Medium

15<sup>th</sup> - 16<sup>th</sup> March Trip Leader: Rod Smith

Canyoning and Caving Contact: 0438 444 262, roderick smith@hotmail.com

Wombeyan By: 13<sup>th</sup> March Mares Creek Canyon Grade: Medium

3<sup>rd</sup> - 4<sup>th</sup> May Trip Leader: Rod Smith

Caving Contact: 0438 444 262, <u>roderick\_smith@hotmail.com</u>
Jenolan By: 1<sup>st</sup> May

Far country / Little Canyon dig Grade: TBA

14<sup>th</sup> - 15<sup>th</sup> June Trip Leader: Rod Smith

Caving Contact: 0438 444 262, roderick smith@hotmail.com
Jenolan By: 13<sup>th</sup> June

TBA Grade: TBA

23<sup>rd</sup> - 24<sup>th</sup> August Trip Leader: Rod Smith

Caving Contact: 0438 444 262, roderick smith@hotmail.com

JenolanBy: 21st AugustTBAGrade: TBA

Date TBA Trip Leader: Rob Clyne

Caving Contact: 0409033224 caver@people.net.au

Wyanbene By: TBA

Cleaning and recreation Grade: Medium/Hard

MSS 48th Annual General Meeting, 30/11/2013 Held at The Grand View Hotel – Wentworth Falls

Meeting Opened: 17:05

#### Present:

Rod Smith, Jim Crockett, Fedz, Kris, Bon, Chris Johnstone, Owen Johnstone, Bennett Johnstone, Rob Clyne, Laura Clyne

#### Apologies:

John Gray, Helena Johnstone

#### Any Corrections to Previous Meetings Minutes:

None

#### Correspondence:

Post:

Jenolan Hut Association – letter asking us to pay \$160

The Very Latest – Vol. 18 No 1 May 2013

The Very Latest – Vol. 18 No 2 October 2013

SUSS Bull 51(4)

SUSS Bull 52(1)

Caves Australia 193

Caves Australia 194

#### Email:

ESpeleo #4 for 2013

#### **Committee Members Reports:**

President - None

<u>Treasurer</u> – Motion by Rob Clyne (second Chris Johnstone) to leave fees at

Full member \$80

Prospective member \$30

Family membership \$160

Honorary membership \$45

Except remove: Non- ASF (No Caving) \$30

Cavers already registered with ASF (other clubs) \$30

Carried

Our bank balance looks good due to the grant which has yet to be spent. This grant is for the Macquarie Karst project and we are still working with the Stakeholders on how we should spend these monies. The money will be fully spent, but ultimately MSS will have ownership of any items that are purchased, but it's likely this or other similar projects will be going on for some time.

So if you take out that amount (\$4980) from the balance then we are still in a good position at \$5578.50.

The only other commitment we have is the purchase of new survey equipment which I am trialling which is going to cost Euro 900 (approximately AUD\$1350), which would leave us at \$4228.5.

In this case I cannot see any reason to increase the yearly subscriptions beyond the current rates.

I do not for see any large costs in the coming year outside of that.

Jim Crockett

MSS Treasurer

See appendix for financial report

<u>Equipment Officer</u> – See appendix for full list of equipment.

**Training Officer** – None

Librarian - None

Web Manager - None

#### **Elections:**

President declared all positions vacant and called for nominations. Officers elected:

Position Name
President Jim Crockett
Secretary Roderick Smith
Treasurer Jim Crockett
Equipment Officer Jim Crockett
Librarian Roderick Smith
Training Officer Beth Little

ASF Liaison Jim Crockett, Roderick Smith

Newsletter Editor(s) Jim Crockett
Website Manager Roderick Smith
Public Officer John Gray

#### Status of Action Items:

Bolting Course - Rod Smith: None

<u>Resurveying Stable Cave – Jim Crockett</u>: With the purchase of new surveying gear, which is currently being trialled to iron out any issues, we are one step closer to achieving this.

Abercrombie surface survey - Rod Smith: None

<u>Abercrombie documentation – Rod Smith</u>: The last visit to Abercrombie resulted in GPSing another 14 tags. This takes it well passed halfway.

#### New Business:

 $\underline{\text{Topo maps}}$  – Mike Nicolls has a selection of topo maps he has proposed donating to the MSS library. Jim will contact Mike to arrange picking up the maps.

<u>OH&S</u> – It has been proposed that we should enforce the wearing of helmets for all canyoning, caving and roperelated trips. If anyone has any comments relating to this plus submit them by the next meeting.

New trips -

11CW 111	<u> </u>				
Date	Leader	Activity	Location	Grade	Notes
15/16	Rod	Canyoning/Caving	Wombeyan	Medium	
Mar	Smith				
1/2	John	Canyoning	Kowmung, Tuglow	Exploratory/	
Feb	Gray		area	Hard	
3/4	Rod	Caving	Jenolan	TBA	Far Country/ Little
May	Smith				canyon dig
14/15	Rod	Caving	Jenolan	TBA	
June	Smith				

23/24	Rod	Caving	Jenolan	TBA	
Aug	Smith				
TBA	Rob	Caving	Wyanbene		
	Clyne				
15 Feb	Rob	Canyoning	Grand	Easy/Medium	
	Clyne				
25/26	Jim	Canyoning	Surefire and Closet	Medium	
-, -	/	/ - 0			

Next Meeting: Canada Bay SES 6<sup>th</sup> Feb

Meeting Closed: 18:15pm



# Metropolitan Speleological Society Inc.

A MEMBER OF THE AUSTRALIAN SPELEOLOGICAL FEDERATION

P.O Box 178, THORNLEIGH, N.S.W. 2120

# Metropolitan Speleological Society Annual Accounts 01.11.2012 - 31.10.2013

Opening balance

Bank Account	\$ 4580.97
Petty Cash	\$ 300.00
Total At 01.11.2012	\$ 4880.97

#### **Income**

Total Income	\$ 8263.90
Grant – Macquarie Karst Project	\$ 4980.00
Accommodation monies collected	\$ 416.00
Bank Account Interest	\$ 0.90
Trip Fees collected	\$ 452.00
Membership Subscriptions	\$ 2415.00

#### **Expenditure**

ASF Subscription Fees	\$ 1606.00
Bank Account Fees	\$ 3.85
Miscellaneous cost ( Postal, Annual Statement	\$ 803.35
& Equipment)	
Accommodation	\$ 173.00#

Total Expenditure \$ 2586.35

# **Cash Balance**

Petty Cash	\$	169.00
Bank Account Balance	\$ 10	,414.50

#### Total Balance at 31.10.2013 \$ 10,583.50

This is true statement representing the accounts of the Metropolitan Speleological Society as submitted at the Annual General Meeting 30th November 2013

Jim Crockett – MSS Treasurer

<sup>#</sup> Cheque to OSS for Hut deposit fee is yet to be presented.

# MSS Equipment List

Hardware Iten	ทร
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Item	Hardware Items	T	1	1
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Descender         1         SRT "STOP" Double rope           Descender         2         6 Bar stainless rack           Descender         1         Whaletail           Descender         1         Kong         Inline type           Carabiner         8         Cassin oval alloy         Screw gate           Carabiner         10         Stubai oval alloy         Screw gate           Carabiner         10         Oval alloy         Screw gate           Carabiner         10         Oval alloy         Screw gate           Maillon         2         Mini oval steel         Screw gate           Maillon         1         Oval alloy         Screw gate           Maillon         1         Oval steel         Screw gate           Ascender         2         SRT Medium         Ascender           Ascender         2         SRT Medium         Ascender           Ascender         1         Petzl hand left           Ascender         2         Gibbs           Pulley         2         CMI Large           Pulley         1         small single SRT           Pulley         2         Mini oval steel           Stich plate         1	Helmets	3	1 Yellow, 1 Blue, 1 Orange	UIAA rated types
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Carabiner	Descender	1	Whaletail	
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Carabiner 10 Oval alloy Screw gate  Maillon 2 Mini oval steel  Maillon 11 Oval alloy  Maillon 11 Oval alloy  Maillon 11 Dotateel  Ascender 2 SRT Medium  Ascender 1 Petzl hand right  Ascender 2 SRT Chest  Ascender 2 Gibbs  Pulley 2 CMI Large  Pulley 1 small single SRT  Pulley 1 small double SRT  Pulley 2 Mini oval steel  Maillon 1 Dotate  Ascender 1 Petzl bolt  Ascender 2 Retzl bolt  Pulley 1 Small single SRT  Pulley 1 Small double SRT  Pulley 1 Stich plate  Hammer 1 Petzl bolt  Rock punch 1 Petzl  Tap 1 10mm?  Hose 1  Hangers 17 Petzl  Misc h/w for bolting 1  Piton 7 Stubai  Climbing nut set 1 Size 8x2,5x2,3,6x2,7  Friends 2 Size 1  Friends 3 Size 2  Friends 3 Size 3  Bolt plates	Carabiner	10	Stubai oval steel	Screw gate
Maillon       2       Mini oval steel         Maillon       1       Oval steel         Maillon       11       Oval alloy         Maillon       2       Triangle alloy         Maillon       1       D steel         Ascender       2       SRT Medium         Ascender       1       Petzl hand right         Ascender       2       SRT Chest         Ascender       2       Gibbs         Pulley       2       CMI Large         Pulley       1       small single SRT         Pulley       1       small double SRT         Pulley       2       Mini oval steel         Stich plate       3       Hammer         Petzl bolt       Petzl bolt         Rock punch       1       Petzl         Tap       1       10mm ?         Hose       1       Petzl         Misc h/w for bolting       1       Petzl         Piton       7       Stubai         Climbing nut set       1       Size 8x,5x2,5x2,3,6x2,7         Friends       2       Size 1         Friends       3       Size 2         Friends       3       Size 3	Carabiner	3	Stubai oval alloy	Screw gate
Maillon         1         Oval steel           Maillon         11         Oval alloy           Maillon         2         Triangle alloy           Maillon         1         D steel           Ascender         2         SRT Medium           Ascender         1         Petzl hand right           Ascender         1         Petzl hand left           Ascender         2         SRT Chest           Ascender         2         Gibbs           Pulley         2         CMI Large           Pulley         1         small single SRT           Pulley         1         small double SRT           Pulley         2         Mini oval steel           Stich plate         3         Hammer           1         Petzl bolt         Petzl           Rock punch         1         Petzl           Tap         1         10mm ?           Hose         1         Petzl           Misc h/w for bolting         1         Petzl           Piton         7         Stubai           Climbing nut set         1         Size 81,3,5,6,8           Hex set         1         Size 82           Frie	Carabiner	10	Oval alloy	Screw gate
Maillon         11         Oval alloy           Maillon         2         Triangle alloy           Maillon         1         D steel           Ascender         2         SRT Medium           Ascender         1         Petzl hand right           Ascender         1         Petzl hand left           Ascender         2         SRT Chest           Ascender         2         Gibbs           Pulley         2         CMI Large           Pulley         1         small single SRT           Pulley         2         Mini oval steel           Stich plate         3         Hammer           1         Petzl bolt         Petzl           Rock punch         1         Petzl           Tap         1         10mm ?           Hose         1         Petzl           Hangers         17         Petzl           Misc h/w for bolting         1         Petzl           Piton         7         Stubai           Climbing nut set         1         Size 8x2,5x2,3,6x2,7           Friends         3         Size 2           Friends         3         Size 3           Bolt plates </td <td>Maillon</td> <td>2</td> <td>Mini oval steel</td> <td></td>	Maillon	2	Mini oval steel	
Maillon         2         Triangle alloy           Maillon         1         D steel           Ascender         2         SRT Medium           Ascender         1         Petzl hand right           Ascender         1         Petzl hand left           Ascender         2         SRT Chest           Ascender         2         Gibbs           Pulley         1         small single SRT           Pulley         1         small double SRT           Pulley         2         Mini oval steel           Stich plate         3         Hammer         1           Rock punch         1         Petzl bolt           Rock punch         1         Petzl           Tap         1         10mm ?           Hose         1         1           Hangers         17         Petzl           Misc h/w for bolting         1         Stubai           Piton         7         Stubai           Climbing nut set         1         Size 8x2,5x2,3,6x2,7           Friends         3         Size 1           Friends         3         Size 2           Friends         3         Size 3	Maillon	1	Oval steel	
Maillon         1         D steel           Ascender         2         SRT Medium           Ascender         1         Petzl hand right           Ascender         1         Petzl hand left           Ascender         2         SRT Chest           Ascender         2         Gibbs           Pulley         2         CMI Large           Pulley         1         small single SRT           Pulley         1         small double SRT           Pulley         2         Mini oval steel           Stich plate         3         Hammer           Petzl bolt         Petzl           Rock punch         1         Petzl           Tap         1         10mm ?           Hose         1         Petzl           Hangers         17         Petzl           Misc h/w for bolting         1         Petzl           Piton         7         Stubai           Climbing nut set         1         Size 8x2,5x2,3,6x2,7           Friends         2         Size 1           Friends         3         Size 2           Friends         3         Size 3	Maillon	11	Oval alloy	
Ascender       2       SRT Medium         Ascender       1       Petzl hand right         Ascender       1       Petzl hand left         Ascender       2       SRT Chest         Ascender       2       Gibbs         Pulley       2       CMI Large         Pulley       1       small single SRT         Pulley       1       small double SRT         Pulley       2       Mini oval steel         Stich plate       3       Hammer         1       Petzl bolt         Rock punch       1       Petzl         Tap       1       10mm ?         Hose       1       Petzl         Hangers       17       Petzl         Misc h/w for bolting       1       Petzl         Piton       7       Stubai         Climbing nut set       1       Size 8x2,5x2,3,6x2,7         Friends       2       Size 1         Friends       3       Size 2         Friends       3       Size 3         Bolt plates       6	Maillon	2	Triangle alloy	
Ascender       1       Petzl hand right         Ascender       2       SRT Chest         Ascender       2       Gibbs         Pulley       2       CMI Large         Pulley       1       small single SRT         Pulley       1       small double SRT         Pulley       2       Mini oval steel         Stich plate       3         Hammer       1       Petzl bolt         Rock punch       1       Petzl         Tap       1       10mm?         Hose       1       Hangers         Misc h/w for bolting       1       Petzl         Piton       7       Stubai         Climbing nut set       1       Sizes 1,3,5,6,8         Hex set       1       Size 8x2,5x2,3,6x2,7         Friends       2       Size 1         Friends       3       Size 2         Friends       3       Size 3         Bolt plates       6	Maillon	1	D steel	
Ascender       1       Petzl hand left         Ascender       2       SRT Chest         Ascender       2       Gibbs         Pulley       2       CMI Large         Pulley       1       small single SRT         Pulley       1       small double SRT         Pulley       2       Mini oval steel         Stich plate       3       Hammer         Hammer       1       Petzl bolt         Rock punch       1       Petzl         Tap       1       10mm?         Hose       1       1         Hangers       17       Petzl         Misc h/w for bolting       1       Piton         Climbing nut set       1       Sizes 1,3,5,6,8         Hex set       1       Size 8x2,5x2,3,6x2,7         Friends       2       Size 1         Friends       3       Size 2         Friends       3       Size 3         Bolt plates       6	Ascender	2	SRT Medium	
Ascender       2       SRT Chest         Ascender       2       Gibbs         Pulley       2       CMI Large         Pulley       1       small single SRT         Pulley       1       small double SRT         Pulley       2       Mini oval steel         Stich plate       3       Hammer         Hammer       1       Petzl bolt         Rock punch       1       Petzl         Tap       1       10mm?         Hose       1       1         Hangers       17       Petzl         Misc h/w for bolting       1       Petzl         Piton       7       Stubai         Climbing nut set       1       Sizes 1,3,5,6,8         Hex set       1       Size 8x2,5x2,3,6x2,7         Friends       2       Size 1         Friends       3       Size 2         Friends       3       Size 3         Bolt plates       6	Ascender	1	Petzl hand right	
Ascender       2       Gibbs         Pulley       2       CMI Large         Pulley       1       small single SRT         Pulley       1       small double SRT         Pulley       2       Mini oval steel         Stich plate       3       Petzl bolt         Hammer       1       Petzl bolt         Rock punch       1       Petzl         Tap       1       10mm?         Hose       1       Petzl         Misc h/w for bolting       1       Petzl         Piton       7       Stubai         Climbing nut set       1       Sizes 1,3,5,6,8         Hex set       1       Size 8x2,5x2,3,6x2,7         Friends       2       Size 1         Friends       3       Size 2         Friends       3       Size 3         Bolt plates       6       Size 3	Ascender	1	Petzl hand left	
Pulley         2         CMI Large           Pulley         1         small single SRT           Pulley         1         small double SRT           Pulley         2         Mini oval steel           Stich plate         3         Petzl bolt           Hammer         1         Petzl bolt           Rock punch         1         Petzl           Tap         1         10mm ?           Hose         1         Hangers           Misc h/w for bolting         1         Petzl           Piton         7         Stubai           Climbing nut set         1         Sizes 1,3,5,6,8           Hex set         1         Size 8x2,5x2,3,6x2,7           Friends         2         Size 1           Friends         3         Size 2           Friends         3         Size 3           Bolt plates         6	Ascender	2	SRT Chest	
Pulley         1         small single SRT           Pulley         1         small double SRT           Pulley         2         Mini oval steel           Stich plate         3         Petzl bolt           Hammer         1         Petzl bolt           Rock punch         1         Petzl           Tap         1         10mm?           Hose         1         Petzl           Misc h/w for bolting         1         Petzl           Misc h/w for bolting         1         Sizes 1,3,5,6,8           Hex set         1         Size 8x2,5x2,3,6x2,7           Friends         2         Size 1           Friends         3         Size 2           Friends         3         Size 3           Bolt plates         6         Size 3	Ascender	2	Gibbs	
Pulley         1         small double SRT           Pulley         2         Mini oval steel           Stich plate         3         Hammer         1         Petzl bolt           Rock punch         1         Petzl         Tap         1         10mm?           Hose         1         Hangers         17         Petzl           Misc h/w for bolting         1         Piton         7         Stubai           Climbing nut set         1         Sizes 1,3,5,6,8         Hex set         1         Size 8x2,5x2,3,6x2,7           Friends         2         Size 1         Size 2         Friends         3         Size 2           Friends         3         Size 3         Size 3         Bolt plates         6	Pulley	2	CMI Large	
Pulley         2         Mini oval steel           Stich plate         3           Hammer         1         Petzl bolt           Rock punch         1         Petzl           Tap         1         10mm?           Hose         1         Petzl           Hangers         17         Petzl           Misc h/w for bolting         1         Piton           Piton         7         Stubai           Climbing nut set         1         Sizes 1,3,5,6,8           Hex set         1         Size 8x2,5x2,3,6x2,7           Friends         2         Size 1           Friends         3         Size 2           Friends         3         Size 3           Bolt plates         6	Pulley	1	small single SRT	
Stich plate         3           Hammer         1         Petzl bolt           Rock punch         1         Petzl           Tap         1         10mm?           Hose         1         1           Hangers         17         Petzl           Misc h/w for bolting         1         1           Piton         7         Stubai           Climbing nut set         1         Sizes 1,3,5,6,8           Hex set         1         Size 8x2,5x2,3,6x2,7           Friends         2         Size 1           Friends         3         Size 2           Friends         3         Size 3           Bolt plates         6         Size 3	Pulley	1	small double SRT	
Hammer         1         Petzl bolt           Rock punch         1         Petzl           Tap         1         10mm?           Hose         1         1           Hangers         17         Petzl           Misc h/w for bolting         1         Piton           Climbing nut set         1         Sizes 1,3,5,6,8           Hex set         1         Size 8x2,5x2,3,6x2,7           Friends         2         Size 1           Friends         3         Size 2           Friends         3         Size 3           Bolt plates         6         Size 3	Pulley	2	Mini oval steel	
Rock punch         1         Petzl           Tap         1         10mm?           Hose         1         Petzl           Hangers         17         Petzl           Misc h/w for bolting         1         Piton           Climbing nut set         1         Sizes 1,3,5,6,8           Hex set         1         Size 8x2,5x2,3,6x2,7           Friends         2         Size 1           Friends         3         Size 2           Friends         3         Size 3           Bolt plates         6	Stich plate	3		
Tap       1       10mm?         Hose       1       Petzl         Hangers       17       Petzl         Misc h/w for bolting       1       Piton         Piton       7       Stubai         Climbing nut set       1       Sizes 1,3,5,6,8         Hex set       1       Size 8x2,5x2,3,6x2,7         Friends       2       Size 1         Friends       3       Size 2         Friends       3       Size 3         Bolt plates       6	Hammer	1	Petzl bolt	
Hose       1         Hangers       17         Misc h/w for bolting       1         Piton       7         Climbing nut set       1         Hex set       1         Friends       2         Friends       3         Friends       3         Size 2         Friends       3         Bolt plates       6	Rock punch	1	Petzl	
Hangers         17         Petzl           Misc h/w for bolting         1         7           Piton         7         Stubai           Climbing nut set         1         Sizes 1,3,5,6,8           Hex set         1         Size 8x2,5x2,3,6x2,7           Friends         2         Size 1           Friends         3         Size 2           Friends         3         Size 3           Bolt plates         6	Тар	1	10mm ?	
Misc h/w for bolting         1           Piton         7           Climbing nut set         1           Hex set         1           Friends         2           Friends         3           Friends         3           Size 2           Friends         3           Bolt plates         6	Hose	1		
Piton         7         Stubai           Climbing nut set         1         Sizes 1,3,5,6,8           Hex set         1         Size 8x2,5x2,3,6x2,7           Friends         2         Size 1           Friends         3         Size 2           Friends         3         Size 3           Bolt plates         6	Hangers	17	Petzl	
Climbing nut set         1         Sizes 1,3,5,6,8           Hex set         1         Size 8x2,5x2,3,6x2,7           Friends         2         Size 1           Friends         3         Size 2           Friends         3         Size 3           Bolt plates         6         Size 3	Misc h/w for bolting	1		
Hex set         1         Size 8x2,5x2,3,6x2,7           Friends         2         Size 1           Friends         3         Size 2           Friends         3         Size 3           Bolt plates         6         Size 3	Piton	7	Stubai	
Friends 2 Size 1 Friends 3 Size 2 Friends 3 Size 3 Bolt plates 6	Climbing nut set	1	Sizes 1,3,5,6,8	
Friends 2 Size 1 Friends 3 Size 2 Friends 3 Size 3 Bolt plates 6		1	1	
Friends 3 Size 3 Bolt plates 6	Friends	2	I .	
Bolt plates 6	Friends	3	Size 2	
l '	Friends	3	Size 3	
1 ' 1	Bolt plates	6		
	1 -	1		

Ropes, tapes and Ladder List			
Manufacturer and			
type	Dia (mm)	Length (m)	Condition
Bluewater 2	11	46	Fair
PMI	11	40	Good
Edelrid	11	45	Good
Edelrid	11	20	Fair
?	11	100	Good – In Bag
Bluewater	10	100	Good – In Bag
Edelrid	10	18	Good
Edelrid	9	30	Good
Edelrid	9	45	Fair
Edelrid	9	37	Fair
Edelrid	9	18	V. good
Edelrid	9	45	Good – needs a wash
Edelrid	9	40	Fair

Edelrid	9	35	Fair	
Handlines	11		3 x various lengths	
Bonwick Ladder		2 of 9m plus traces	Good	
	25mm			
Tapes	wide	various	18 in total	
	50mm			
Tapes	wide	various	13 in total	

Miscellaneous a	nd surve	ey equipment	
Item	Quantity	Description	Comments
Scaling pole kit	1		
Tiedowns	3		
Acetylene light	1		
Suunto Compass	1		
Suunto Clinometer	1		
30m Fibreglass tape	1		
		AccuSat MT4106 – GPS	
PLB	1	model	
Waistbelts	3		
Harness	2	Vertical – adjustable	
kneepads	2 sets		
rope protectors	11		
Canvas gear bag	1		
drybags	2	Large	
Caving packs	5	medium	
Caving packs	2	hip packs	
Cowtail set	1	includes krabs	
seat harness	1	requires belt	
			New in package – maroon
MSS sloppy joes	2	Printed MSS logo	XL
bearsuit	1		
trogsuit	1	meduim	
sewer light	1		
cleaning eqpt	1	brushes etc	