



**FW: Final Report Ex14-018**  
SCC-Vic (State Controller - Fire)  
To: prudence.dobbin@firecommissioner.vic.gov.au

21/05/2014 11:28

1 attachment



Water Quality Guideline Values.pdf

SCC-Vic (State Controller - Fire)  
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From: SCC-Vic (OH&S Executive Advisor)  
Sent: Thursday, 20 February 2014 9:19 AM  
To: SCC-Vic (State Controller - Fire)  
Subject: FW: Final Report Ex14-018

As requested

-----Original Message-----

From: Robert Golec [mailto:RGolec@amcosh.com.au]  
Sent: Wednesday, 19 February 2014 12:26 PM  
To: SCC-Vic (OH&S Executive Advisor)  
Subject: FW: Final Report Ex14-018

Jeff,

I did a review of the water analysis data for Barry last night. Please see below and attached.

Rob

Regards,

&gt; -----Original Message-----

> From: Robert Golec  
> Sent: Tuesday, February 18, 2014 6:24 PM  
> To: BYRNE, Barry  
> Subject: RE: Final Report Ex14-018

&gt;

&gt; Barry,

&gt;

> Thanks for forwarding the information. I have had a look at the metals  
> concentrations of the water samples. The only water quality standards  
> available are those for drinking water. I have prepared a summary of  
> the drinking water quality guideline values for the metals analysed in  
> the four water samples being used at the Hazelwood fires and compared  
> them to the analysis results. All metals analysis results of the four  
> water samples were well below the drinking water guidelines except for  
> aluminium and iron. However, the guideline values for these two metals  
> are based on aesthetic considerations rather than health-based  
> guidelines.

&gt;

> In terms of extrapolating drinking water guideline values to  
> inhalation doses, based on the metal with the lowest occupational

> exposure standard (TLV of arsenic = 0.01 mg/m3) and the arsenic  
> concentration in the water, an individual would have to inhale the  
> equivalent of 50 litres of water (or thousands of litres of water  
> vapour) to inhale an arsenic dose equivalent to being exposed at the  
> TLV for 8-hours per day. This is highly improbable and based on these  
> calculations, it is considered that the metals contaminant levels in  
> the water do not pose a significant health risk. Additionally, given  
> that the members are wearing P2 respirators to protect against  
> particulate exposure, this would also reduce any potential exposures.

> I conducted personal inhalable and respirable particulate sampling on  
> Saturday and hope to have the metals analysis results by Thursday.  
> This will indicate what the potential (unprotected) inhalation  
> exposures are from all routed (smoke and water).

> Regards

>  
> Robert Golec  
> Principal Occupational Hygienist  
> AMCOSH Pty Ltd  
> PO Box 686 | Suites 3&4/112 Synnot Street | Werribee VIC 3030 p +61  
> (0)3 9731 1744 m +61 (0)413 611 075 f +61 (0)3 9742 2098 e  
> rgolec@amcosh.com.au | www.amcosh.com.au

> -----  
> From: BYRNE, Barry [BByrne@mf.vic.gov.au]  
> Sent: Tuesday, 18 February 2014 4:04 PM  
> To: Robert Golec  
> Cc: BYRNE, Barry  
> Subject: FW: Final Report Ex14-018

> Hi Rob,

> Following on from our phone conversation, here are the results and the  
> COC. Looking forward to your reply.

> Kind regards

> Barry Byrne

> Scientific Advisor  
> Metropolitan Fire and Emergency Services Board HazMat/CBR Unit  
> 10 Baker St  
> Richmond, Victoria 3121  
> Phone: (613) 9665 4236  
> Mobile: 0417 134 683  
> Fax: (613) 9665 4589  
> Email: bbyrne@mf.vic.gov.au<mailto:bbyrne@mf.vic.gov.au>

> -----  
> From: Chris Webb [mailto:Chris.Webb@epa.vic.gov.au]  
> Sent: Tuesday, 18 February 2014 8:59 AM  
> To: BYRNE, Barry  
> Subject: Fwd: Final Report Ex14-018

> \*\*\* MFB: external message processed. Details at bottom of email \*\*\*

> ----- Original message -----  
> From: Anne Lovett <Anne.Lovett@epa.vic.gov.au>

> Date: 17/02/2014 1:56 PM (GMT+10:00)  
 > To: Chris Webb <Chris.Webb@epa.vic.gov.au>, Tim Bessell-Browne  
 > <Tim.Bessell-Browne@epa.vic.gov.au>, Elizabeth Radcliffe  
 > <Elizabeth.Radcliffe@epa.vic.gov.au>, Rachel Wiggins  
 > <Rachel.Wiggins@epa.vic.gov.au>, Alisha Brown  
 > <Alisha.Brown@epa.vic.gov.au>  
 > Subject: Final Report Ex14-018  
 >  
 >  
 >  
 > Hi All  
 >  
 > Please find attached final report from ALS for the samples taken and  
 > analysed on Saturday 15th February 2014.  
 > Invoice still to be received.  
 >  
 > Regards  
 >  
 > Anne Lovett  
 > Technical Officer - Chemistry  
 > Monitoring & Assessment  
 >  
 > [cid:image007.png@01CF2BE8.154BCD10]  
 >  
 > EPA Macleod  
 > Ernest Jones Drive Macleod VIC 3085 | GPO Box 4395 Melbourne Vic 3001  
 > | DX 210675 \* 0384582338 | E  
 > anne.lovett@epa.vic.gov.au<mailto:anne.lovett@epa.vic.gov.au> |  
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