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The newsletter of The LEAD (Lead Education and Abatement Design) Group Inc.

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## Volcano Art Prize 2014 and The LEAD Group's Strategy



An important event that is at the top of our agenda for this edition is the Volcano Art Prize. Those of you who are supporters of The LEAD Group are familiar with this campaign but here's a brief excerpt from our campaign email regarding this year's competition (this message has been sent to all previous entrants of the VAP):

The LEAD Group's Volcano Art Prize (VAP) is open this year for multiple entries from anyone anywhere in the world. Sponsored by a global environment group and health promotion charity, The LEAD Group Inc, entry to the prize is FREE for children and for adults in non-OECD countries, and only \$10 per entry for everyone else.

The Volcano Art Prize has a number of [suggested](#) lead-safety themes based around how to be lead-safe and prevent lead exposure, despite lead-containing artists materials, widespread lead contamination of old buildings, and our environment generally. Artists are also welcome to write or choose their own lead-safety message to depict with their image.



Create an image that illustrates a lead-safety message and upload it at [www.volcanoartprize.com/submitentry](http://www.volcanoartprize.com/submitentry) for your chance to win. The artwork can be created using any medium; painting, sculpture, printmaking, digital graphics; Photoshop etc., ceramics, collage, photography, or anything else that takes your fancy. Just scan it if it's scannable, take a picture if it's not, or simply save it if it's a digital work, and head along to the website to upload it. It must be between 1MB and 3MB, rectangular and in landscape-orientation.

This year's competition also invites very short films as entries – in AVI, MP4 or WMV format and less than 300MB – for the first time.

The competition has a number of prizes including a calendar/catalogue, accession into The LEAD Group' Art Collection and a cash prize for the Peoples Choice to be decided by Facebook likes. Entries for the competition must be uploaded by Monday August 25, 2014 with a launch of the Art Prize Winners Catalogue / Lead Safe World Calendar 2015 during International Lead Poisoning Prevention Week of Action, Monday 20 to Sunday 26 October 2014.

We would like to extend our invitation to all those reading this article and urge you to get your entry in by the deadline. We're look forward to seeing your entry and your contribution would help to thrust lead into the spotlight and through creativity we'll be able to garner more attention and create social and political change in the world.

In line with our new strategy and promotion methods, we have updated our strategy and created a strategic plan for FY 2015. For more details about this, please see the editorial below. We hope you'll enjoy this edition of LEAD Action News.



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# Editorial

The LEAD Group has recently developed a new group strategic plan for FY2015. We would like to outline what we have planned for this financial year:

- Implement financial planning actions such as budgeting for operating costs, auditing the current cost of VAP and other projects, exploring other possibilities for kit sales and SEO, researching sponsorship opportunities etc.
- Develop our internship and volunteering program through use of university internship, career volunteer websites and other opportunities. We will also reconnect with our previous providers such as Seek and advertise our position there. Set targets with KPI for the various tasks to be carried out by volunteers and interns.
- Enact our planned strategies for promoting our unique offerings (expertise, information and services provided both online and offline, the only Australian tax deductible gift fund focused on Lead Safety in the environment, kits and lab reports, social contribution opportunities aimed at big profit organisations).
- Enact our planned strategies for specific revenue streams such as GLASS, LSWP and VAP.

The Lead Safe World website will continue to promote lead safety actions that everyone can take, anywhere in the world, rather than being a broad-ranging archive of information about the history of lead, the health effects of lead, sources of lead contamination, etc., as our existing web site is ([www.lead.org.au](http://www.lead.org.au)).

We have continued to add to the Partners section (<http://www.lead safeworld.com/partners/>) and this section informs visitors of our Lead Safe World website and companies and when visiting the website about products and organisations which help manage lead poisoning and lead contamination. These organisations and products will be easily-identified by the Logos: 'Lead Free', 'Lead Safe' and 'Lead Away.'

Having said this, we would like to extend our invitation to all partnerships and companies with proven solutions to lead problems, lead-free products and lead-safe services, to join us.

This issue of LEAD Action News also promotes the 2014 Lead-Safe World Volcano Art Prize; each month of the year will be illustrated by a winning art entry on the subject of lead safety. A further 13 finalists in the art competition, will receive a Pictureproducts mug as their prize. All the entries are awaiting your review and voting for the People's Choice Award at <http://volcanoartprize.com/peoples-choice/> so get your entries in and vote now!

See below for more information and images from our latest entrants. Good luck and get creating, creative people!



# The LEAD Group Strategic Plan FY 2015

Below are the actions that The LEAD Group plans to achieve in financial year 2015:

## What does The LEAD Group uniquely have to offer?

- Expertise on Lead poisoning and prevention on a global scale developed over many years.
- Our three websites are unique in the world: [www.lead.org.au](http://www.lead.org.au), is the most accessed nongovernment website in the world devoted to lead; [www.lead safeworld.com](http://www.lead safeworld.com), it is the only website with solutions to lead problems created jointly by companies and a non for profit organisation.
- The only Australian tax deductible gift fund focused on Lead Safety in the environment. The Lead Education and Abatement Fund (LEAF)
- Revenue items The LEAD Group needs to promote / Things The LEAD Group has to “sell”: donations, bequests, memberships (individual, corporate and Australian Dust Removalists Association - ADRA memberships), kits, entry fees for VAP and sale of rights to reprint VAP graphics, plus Calendars from October to December each year, and “Local Heroes” books.
- Opportunities for social contributions by big profit organisations.

## Financial Planning Strategies

- Determine operating costs (non-wage) without sponsorship and grants for FY 2014-2015 by analysing speedy\accounts\Budget TLG 1112 (GLASS,LEAD,LEAF,LSWP)-FY2012-13 to FY2014-15. To determine how many kits would need to be sold to cover this cost and analyse price posts for Kits to meet this target.
- Audit the current cost of production of the VAP Calendar and how this investment can be leveraged to increase income such as Kit Sales, LSW Partnerships and VAP 2015 Entries. Currently 250 entries would be required to cover the costs of the printing and cash prize.
- Explore the possibility of having a website just for kit sales, including search engine optimisation (SEO) as well as domain registration and hosting costs.
- Research sponsorship opportunities and seek sponsorship to cover costs
- Research Information Technology cost cutting options: Windows operating system platform and software on all machines. Investigate volume licences for non for profit organisations. Investigate phone systems and look into the cost of transfer from a PXB phone system to a VOIP ( Voice Over Internet Protocols) solution

## Internship & Volunteering Recruitment, Training & Supervision

- The LEAD Group will investigate the use of university internship, career volunteer websites and Gumtree, to encourage community engagement and to promote awareness of the cause. The LEAD Group, previously used such services and it should look at re-establishing these links with the <http://seek.com.au> website



- Reconnect with previous provider [www.seek.com.au](http://www.seek.com.au) volunteering section to advertise for volunteering positions.
- Set targets with Key Performance Indicators (KPIs) for the various tasks to be carried out by volunteers and interns, in order to fully engage them in the process. Eg As at Wednesday 30/7/14 the kit emails data-entry process was lagging behind by 78 incoming emails and 59 outgoing emails and there were 39 Info Pack emails awaiting data-entry. Thus the target was set to have zero incoming and outgoing kit emails awaiting data-entry by Friday 8/8/14 and zero sent Info Packs awaiting data-entry. Also there were a total of 1,854 sent emails awaiting data-entry in the [The LEAD Group](#) email account, and a total of 197 sent [egroup](#) emails and many of them require library data-entry as well, so the target was set to zero emails in that box by Tuesday 30/9/14. The [egroup](#) inbox total emails was 1,865 and these entail many new AddressBook entries, and often new states and suburbs as well as library entries, and the box continually receives more emails as The LEAD Group belongs to more than a dozen egroups, so the target date for zero Egroup inbox emails was set for Thursday 30/10/14.

## Strategies to promote The LEAD Group's unique offerings:

- Send emails to organisations to request donations.
- Lead information fact sheet, has to be brief and eye-catching. Informative and easy to understand.
- Design banner for advertising website. Look into requesting it as a form of support from companies.
- Social media should be used to promote The LEAD Group. Regularly post on the twitter account @TheLEADGroupInc, YouTube account globalleadgroup and Facebook account <https://www.facebook.com/LeadSafeWorld>, <https://www.facebook.com/LeadSafeWorld>. Tweets should aim to be uploaded at least twitter once a day during business hours during the business week Monday to Friday. Investigate the prospect of developing a production schedule for creating and uploading You Tube videos, as there are currently only 6 videos.
- Investigate the prospect of developing of Smartphone apps.
- Physical banner design, Town Hall or other popular locations. Look into getting license from council.
- Charity donation collection council permit; check insurance and police notification requirements – for Ashfield Council and City of Sydney Council.
- Add links to [www.lead.org.au](http://www.lead.org.au) and to [www.leadsafeworld.com](http://www.leadsafeworld.com) in as many places as possible, on [www.volcanoartprize.com](http://www.volcanoartprize.com)
- Ask clients who work for large companies which offer any relevant services or products, if they will provide LSW or VAP-relevant services pro bono
- *Audit how The LEAD Group use Australia Post and investigate if there is a more suitable uses.* Now that the 5<sup>th</sup> Edition of the *Lead Alert: Six Step Guide to Painting Your Home* is online (promoting LEAD Group Kits), consistently research links to it from, and pages about lead paint management which SHOULD link to it, on all other government and corporate websites, and draft new text wherever relevant, for those websites, so that they specifically point out the text related to LEAD Group Kits in the *Six Step Guide*, on their site, for example: <http://www.deir.qld.gov.au/workplace/hazards/exposures/lead/paint/index.htm#.U9WT33J-982>; <http://www.deir.qld.gov.au/workplace/resources/pdfs/lead-paint-checklist.pdf> ; and <http://www.deir.qld.gov.au/workplace/resources/pdfs/lead-audit-checklist.pdf> As soon as all the websites which already mention lead paint management have been modified to point to LEAD Group Kits, then we approach the similar sites which SHOULD contain this info, eg NSW WorkCover, NSW EPA, NSW Health, etc.



The LEAD Group has an affiliation with the Australian Dust Removalists Association (ADRA), whereby ADRA donates to LEAF \$20 per month per member's membership fees.

## Strategies for Specific Revenue Streams

### Global Lead Advice & Support Service (GLASS)



### Global Lead Advice & Support Service

- The LEAD Group's Global Lead Advice and Support Service (GLASS) will obtain grants/donations sufficient to be staffed by **three** waged full-time positions: Executive Officer, Outreach & Internetworking Officer, Part-time Administrator and Part-time Webmaster, and will utilise volunteer labour and promote DIY sampling lead laboratory analysis kit sales and other forms of income to survive any unfunded period;
- The LEAD Groups Global Lead Advice and Support Service (GLASS), will generate income to support its activities from annual memberships, sale of DIY-Sampling Lab Analysis Lead Testing Kits, and will also endeavour to gain grants from government and non government organisations as well as donations of cash and in-kind contributions to support its activities. So The LEAD Group can employ 4 staff members as well as continuing to rely on its volunteers and members.
- The LEAD Group, having convinced WHO/UNEP to set up an International Lead Poisoning Prevention Week of Action, with the first event held during 20-26 October 2013; we will capitalise on the Week of Action, in future years.
- Web-viewers coming from at least **200 countries**, and phone & email enquirers coming from at least **50 countries** in any one year, including at least **6 new** (to us) **countries**, bringing the direct enquiry country tally to at least **132 countries**;
- An end to road-use leaded petrol by 2015, including, that: GLASS has contacted influential people (wherever they may be) who have influence within each of the 6 countries where leaded petrol is still sold, to supply information;
- Promoted a 2015 start to a double-blind longitudinal study of the potential for healthier longer life of low-dose chelation therapy, detox foods and other nutritional or detoxing interventions for the billions of people who have already been exposed to lead



## Lead Safe World Project (LSWP)

- The LEAD Group launched [www.lead safeworld.com](http://www.lead safeworld.com) during the WHO/UNEP International Lead Poisoning Prevention Week of Action (20-26 October 2013); and will continue to add partners and information to the website in order to increase its influence;
- The LEAD Group's quarterly E-newsletter *LEAD Action News* will be web-published in English and if possible in Chinese every quarter, on both [www.lead.org.au](http://www.lead.org.au) & [www.lead safeworld.com](http://www.lead safeworld.com);
- The LEAD Group aims to publish its e-newsletter in other languages in the future. If you would like to volunteer to translate to your language to assist The LEAD Group, then please contact us.
- Promote the facility on our website such that web-viewers can subscribe for free to a specific language LEAD Action News to be emailed to them when ready for web-publication, by inputting their name, location, state, country and email address;
- At least one new or updated factsheet being web-published every quarter in English *and if possible at least one language other than English*, on both [www.lead.org.au](http://www.lead.org.au) & [www.lead safeworld.com](http://www.lead safeworld.com);
- Questions and Answers arising through GLASS added to <http://www.lead.org.au/q&a/qna.html> and on [www.lead safeworld.com](http://www.lead safeworld.com);
- The Partners section at <http://www.lead safeworld.com/partners/> will be added to, to include at least 2 new partners every quarter.

## Volcano Art Prize (VAP)



- The LEAD Group's Volcano Art Prize (VAP) 2014 will be judged and prizes awarded, The Lead Safe World Calendar 2015 will be printed and distributed to potential partners of the Lead Safe World Project. In calendar year 2014, entry into VAP 2014 will be promoted via **social networking**, *crowd-funding*, emails and phone calls, **and Smartphone apps**;
- Encourage **NGO's Non Government Organisations** and Governments from at least a dozen countries to organise activities during the **inaugural** WHO/UNEP International Lead Poisoning Prevention Week of Action (20-26 October **2013**) and if possible creating a lead **poisoning prevention policy by the 2014** WHO/UNEP International Lead Poisoning Prevention Week of Action (20-26 October 2014) [see our Model National Policy at





[http://www.lead.org.au/Model National Public Health Policy on the Prevention of Lead Poisoning 20080516.pdf](http://www.lead.org.au/Model_National_Public_Health_Policy_on_the_Prevention_of_Lead_Poisoning_20080516.pdf)

## 2015 Lead-Safe World Calendar

ALL 2014 Calendars have been **sold** but 2015 Calendars can be ordered now and they will be printed in October when the competition ends. You can pre-order a 2015 Calendar through the link below.

Now is the time to submit your VAP entries and get voting to see the image you like in next year's calendar! Use this link to submit your entry: <http://volcanoartprize.com/submitentry/>

Alternatively vote for your favourite entry by using the 'Like' button (must have Facebook account) by visiting this page: <http://volcanoartprize.com/peoples-choice/>

For inspiration, please see the 2014 calendar in all its glory: <http://volcanoartprize.com/wp-content/uploads/2012/09/2014-Calendar-FINAL-for-printer.pdf>

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## About the Volcano Art Prize (VAP)

Once again we would like to remind you that the deadline is the 25th of August. Over the years, we have received many interesting artworks from our participants and would like to thank all for your support and participation. We would love to receive an entry from you. Be part of a worthy environmental art competition and take a step forward to help create a lead-safe world.



It's only \$10 for adults in OECD countries to enter, and other adults and all earthlings under the age of 18 enter for free!

Simply create a landscape-orientation image on the theme of lead-safety, by photographing or scanning anything – an artwork or real-life - related to lead (it's in people/animals/plants/old paint/soil/food/water/products etc) or lead-safety (while renovating/shooting/working with lead) or lead poisoning prevention (testing for lead/detoxing).

Browse our websites – [www.lead.org.au](http://www.lead.org.au) and as of today, [www.lead safeworld.com](http://www.lead safeworld.com) – to develop your own ideas. You can also see the 2013 and 2014 Volcano Art Prize finalists' entries, for inspiration, at <http://volcanoartprize.com/vap-archive/> and for this year's entries see: <http://volcanoartprize.com/peoples-choice/>.

Please read the Conditions of Entry at the bottom of the home page at <http://volcanoartprize.com/> especially noting:

The single digital image must be between 1 MB and 3 MB and in landscape orientation, not portrait orientation. That is, winning entries will be printed in colour on a landscape A4 page.

Submit entries online at <http://volcanoartprize.com/submitentry/> before midnight on Monday 25<sup>th</sup> August 2014.



Graphic: by our youngest entrant, and Finalist in the Volcano Art Prize 2013 and winner of a Pictureproducts mug. Artist Liam Hutchinson, Home School, aged 10. Title: Environment's Pollution. Lead-Safety Message: Let the public know about pollution





## Lead-Safe World CALENDAR 2015 (Current Entries)

In our lead-safe future, the only source of lead in air will be volcanoes.

Below are our current entries so far, please get your entries in at <http://www.volcanoartprize.com> before the due date.



'Walk on the Fire Side' by **Tony Lennon**



'Blake cradling Eden Lidia, 8 days old' by **Hue Kedge**



'Lead Safe World Logo over Lead Bars' by **Georgeina Clear**



'Every child deserves lead free skies' by **Elizabeth O'Brien**



'Planet Astari' by **Yiru Rocky Huang**



**Gee**

'Bushfires & mushrooms can increase lead concentrations' by **Sue**



# How to Ensure your Rainwater is Lead-Safe Drinking Water

*Written (2012) by Jessica Onie, Chemistry Student (University of New South Wales) and Intern, The LEAD Group Inc. Edited (April 2013) by Ian Smith, BSc BE MBA; new material added by Elizabeth O'Brien, BSc Grad Dip Health Education; edited (May 2014) by Paul Harvey, Postgraduate Researcher, Department of Earth and Planetary Sciences, Macquarie University, Volunteers, The LEAD Group Inc. Australia*



## The Lead Problem in Drinking Water from Rainwater Tanks in Australia:

### Lead - An Overview

Lead has been used in a vast range of products since as early as 3000 BC. These days, lead is primarily used in batteries and ammunition but its legacy uses include roofing, gutters, flashing, paint, and fuel. Lead's harmful effects towards the biological system are not a recent discovery, notorious for being a neurotoxin, lead also affects the bones, development, and fertility, raises blood pressure and causes premature aging. Lead is too often overlooked at the household level leading to cases of avoidable lead poisoning.

- Our concern is that lead still has its continuing, unnoticed presence in rainwater tanks, water pumps, piping, taps and rainwater collection areas (usually roofs).

### The Alarming Studies

- A Monash University study (Magyar et al, 2008) revealed excessive amounts of lead in 33% of rainwater tanks tested in metropolitan Melbourne;
- A Griffith University study (Huston, 2009) revealed that 10-20% of rainwater tanks tested across Brisbane contained lead levels higher than 0.01 mg/L, the recommended maximum safe level of lead in water, from the Australian Drinking Water Guidelines (ADWG). The study goes on to suggest that unless you live in a town that has a lot of heavy industry, the main source of lead in your rainwater tank is likely to be derived from your roof top (Anna Salleh 2009);
- A University of Technology, Sydney study (Kus, 2010) revealed that five out of eleven rainwater tanks tested in metropolitan Sydney contained lead levels higher than the recommended ADWG levels;



- Magyar et al. 2014 (Influence of roofing materials and lead flashing on rainwater tank contamination by metals) do a good study on different roofing materials

### **What are the implications of these studies??**

Taking the figures on rainwater used as drinking water in capital cities from the 2010 census (ABS 2010a), the above studies would suggest that in Metropolitan NSW, Vic and Qld alone there are a total of 18, 692 households where rainwater with excessive amounts of lead, if the water is used as drinking water. If we are to draw on the national average of 2.6 people per household (ABS 2010b), this would mean that there are 37, 384 people who have been potentially exposed to elevated drinking water lead levels.

Those people who are sourcing their drinking water from rainwater tanks (or are planning to) need to be aware of how to avoid the harmful effects of lead in drinking water. With rainwater tanks, the burden lies with the owner to monitor and maintain water quality within the tanks. This lack of regulation places those consuming water from tanks at risk of lead poisoning.

If you use your rainwater tanks for drinking, it is advisable to monitor its quality and lead content to avoid its harmful effects. Children and unborn babies who more readily absorb the lead into the bloodstream are the most vulnerable to and most detrimentally affected by lead poisoning. This is particularly concerning for babies who are fed (rainwater) reconstituted formula; reconstitution of formula using lead contaminated water has been shown to be a major exposure pathway for infants. In the long term, lead poisoning has been linked to learning difficulties, mental and physical disabilities, increased rates of crime, and ultimately a lower standard of living..

### **What Do I Need to Do?**

Reading this fact sheet, you are presumably looking for precautions and advice regarding rainwater tanks – *what can I do?* Rainwater tanks can be perfectly safe but how *do* you and how *will* you know if your household is or will be one of the four households with excess lead in its tanks? There are three stages of prevention, depending on your circumstances:

- Primary Prevention – I plan to source my drinking water from a rainwater tank, what should I be concerned of?
- Secondary Prevention – I am using a rainwater tank for drinking at home, what should I do?
- Tertiary Prevention – I have discovered that my rainwater tank is lead contaminated, how do I go by this?

According to a 2007 government fact sheet on rainwater tanks and water maintenance ([here](#)), quality of water is dependent on how you maintain your tank and catchment.

### **Primary Prevention – Prior to Purchase**

Before purchasing your tank, ensure that the tank is made specifically for rainwater collection for drinking. Make sure you use high quality plastic pipes and fittings. It is ideal to avoid metal roofs, or roofs with lead flashing as corrosion and leaching can lead to poisoning. Do not install a rainwater tank if your catchment area, generally your roof, contains lead-based paints or lead flashing. Replace any lead-flashing with non-lead flashing, or contact a paint company for a



paint product that will protect the water from lead leaching from your roof or from any other sources of contamination.

Contaminants tend to settle at the base of the tank. Ensure that you have a diverter to discard the first 30mm of catchment. The new tank should also be washed before use.

Note that Australia does not have a regulation for domestic rainwater treatment or distribution.

### **Secondary Prevention – Determine Presence of Contamination**

The Australian Building Code (2004) instructs that buildings with a rainwater tank added at the same time as the house is built must not be constructed with lead flashing. However there are no requirements regarding lead-flashing in buildings built pre-2004 and in houses with rainwater tanks installed after its construction.

If you are drinking from a rainwater tank, it is advisable to test your tank for lead contamination. The Australian Drinking Water Guidelines (established by National Health and Medical Research Council) suggests a maximum allowed limit of 10 µg/L.

The LEAD Group provides a [lead-testing kit and service](#) (physical kit, lab analysis, and results interpretation). Visit [here](#) for more information.

Check your house for presence of lead flashing; remove it as soon as possible to allow minimal lead content in rainwater tanks. Test your rainwater tank for lead contamination, and do not drink water with unsafe levels of lead.

### **Tertiary Prevention – Post-Contamination Action, and Source Identification**

If you find that your rainwater tank has unsafe levels of lead, stop drinking from the tank. Contact your doctor to get a **lead blood test** and find all the possible sources for the contamination - contact the Global Lead Advice and Support Service (GLASS) at 1800 626 086 for advice

### **Detailed Information on Hazards, Tank Materials, and Preventative Measures:**

[http://www.nphp.gov.au/enhealth/council/pubs/documents/rainwater\\_tanks.pdf](http://www.nphp.gov.au/enhealth/council/pubs/documents/rainwater_tanks.pdf)

[www.lead.org.au/fs/tankwater.pdf](http://www.lead.org.au/fs/tankwater.pdf).

### **Conclusions:**

It is your responsibility to ensure that your rainwater tanks are lead-safe. [Test your water](#), find your sources of lead, and [what kind of tanks to avoid](#).

Find the organisations responsible for your contaminated tank, and inform them of the issue. Stop purchasing items – directly and indirectly - from companies that allow lead to get in to drinking water.

Find organisations that can aid in any of the three prevention types. Information and relevant services can be found on [www.lead.org.au](http://www.lead.org.au) or by contacting The LEAD Group directly at 1800 626 086 (freecall)



**Make sure your water is healthy. It's easily controllable - and not too late, [we](#) can help.**

### **Further Reading:**

Anna Salleh (2009) *Roofs can boost rainwater lead levels* in ABC Science, Tuesday, 3 March 2009 <http://www.abc.net.au/science/articles/2009/03/03/2502158.htm>

Australian Bureau of Statistics (ABS) (2010a) *Environmental issues: water*

*Use and conservation Australia*  
[http://www.ausstats.abs.gov.au/ausstats/subscriber.nsf/o/878BECBA37E23738CA2577DFO0155293/\\$File/4602055003\\_mar%202010.pdf](http://www.ausstats.abs.gov.au/ausstats/subscriber.nsf/o/878BECBA37E23738CA2577DFO0155293/$File/4602055003_mar%202010.pdf)

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ABS (2012), *Environmental Issues: Water Use and Conservation*, Australian Bureau of Statistics, 19 Jan 2012, <http://www.abs.gov.au/ausstats/abs@.nsf/mediareleasesbyReleaseDate/629A13C5A1CFAC3CCA2577DFO0155272?OpenDocument>

DEKS (2011) *DEKS Think-tank finds around 10 to 20% of tanks recorded lead levels above that recommended in the Australian drinking water guidelines*. <http://www.deks.com.au/wp-content/uploads/2011/03/think-tank-flyer.pdf>

Department of the Environment and Heritage (2009), *Lead Alert Facts: Lead and Your Health*, Australian Government Department of Sustainability, Environment, Water, Population and Communities, Department of the Environment and Heritage, 19 Jan 2012, <http://www.environment.gov.au/atmosphere/airquality/publications/health.html>

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Gibson, N. (2008), *What to Do if You Have Too Much Lead in Your Tankwater*, The LEAD Group Inc, National Public Health Partnership, 20 Jan 2012, <http://www.lead.org.au/fs/tankwater.pdf>

Karras, T. (1997), *Lead in Household Drinking Water*, The LEAD Group Inc, 19 Jan 2012, <http://www.lead.org.au/lanv5n3/lan5n3-14.html>

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Tufvesson, A. (2009), *Rainwater tank pollution: As rainwater tanks become increasingly popular, it begs the question: do they harbour elevated lead levels that are dangerous to public health?* In *World Plumbing Info* 19<sup>th</sup> November 2009, <http://www.worldplumbinginfo.com/article/rainwater-tank-pollution>

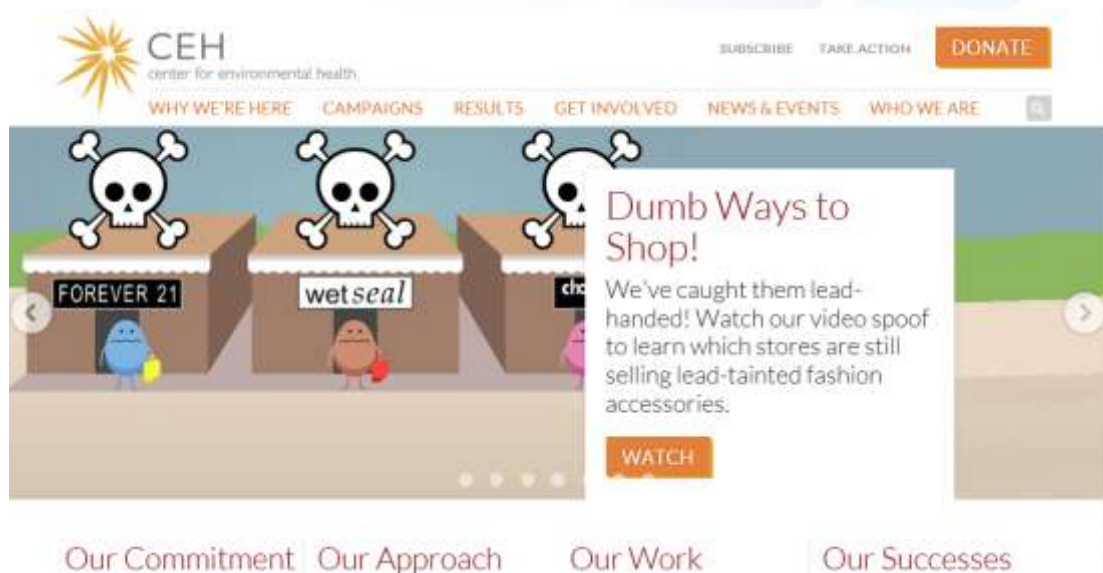
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# Lead Research/News

## Lead-safety Messages in YouTube Videos from the CEH, USA



**The Center for Environmental Health (CEH), (Main Office Oakland, California, and New York City Office, USA)** has covered many lead issues on their website over the years:

**Lead in Candy** at:

[http://cehca.nonprofitsoapbox.com/index.php?option=com\\_content&task=view&id=40&Itemid=55](http://cehca.nonprofitsoapbox.com/index.php?option=com_content&task=view&id=40&Itemid=55)

**Lead in Lunchboxes** at:

[http://cehca.nonprofitsoapbox.com/index.php?option=com\\_content&task=view&id=39&Itemid=54](http://cehca.nonprofitsoapbox.com/index.php?option=com_content&task=view&id=39&Itemid=54)

**Lead in Jewelry** at:

[http://cehca.nonprofitsoapbox.com/index.php?option=com\\_content&task=view&id=38&Itemid=53](http://cehca.nonprofitsoapbox.com/index.php?option=com_content&task=view&id=38&Itemid=53)

**Lead in Baby Bibs** at:

[http://cehca.nonprofitsoapbox.com/storage/cehca/documents/bibs-august\\_14\\_update.pdf](http://cehca.nonprofitsoapbox.com/storage/cehca/documents/bibs-august_14_update.pdf)

**Lead in Wheel Balancing Weights** at:

[http://www.cehca.org/index.php?option=com\\_content&task=view&id=322&Itemid=166](http://www.cehca.org/index.php?option=com_content&task=view&id=322&Itemid=166)

**Lead in Artificial Turf** at:

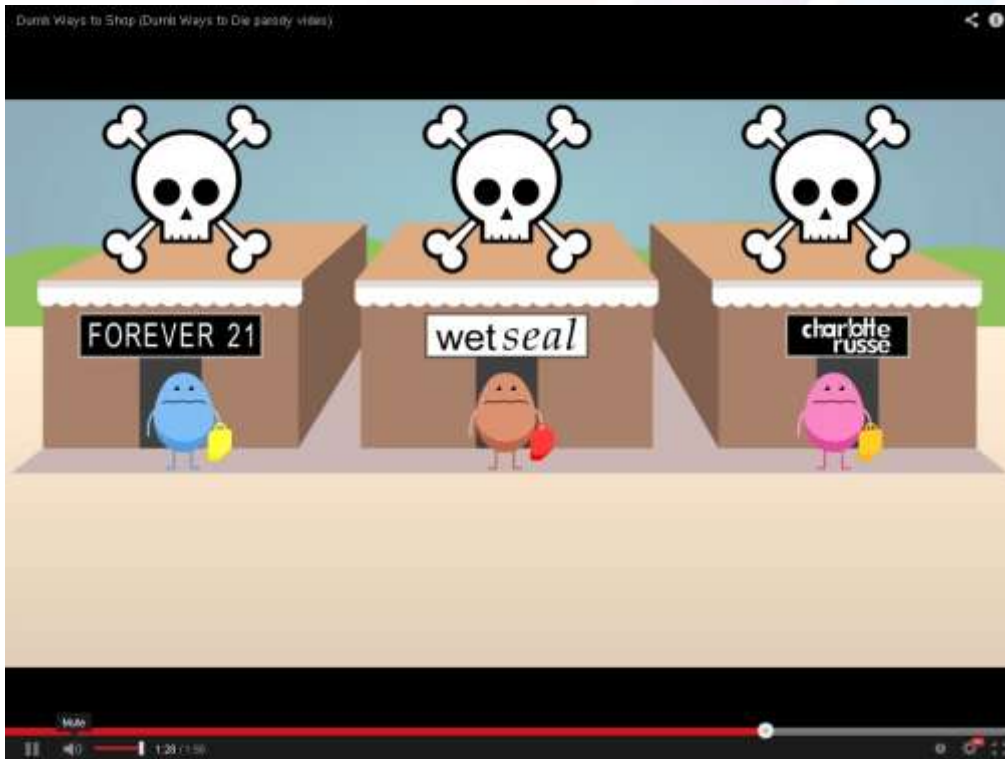


[http://www.cehca.org/index.php?option=com\\_content&task=view&id=325&Itemid=241](http://www.cehca.org/index.php?option=com_content&task=view&id=325&Itemid=241)

In the last couple of years, CEH has produced 16 videos on chemical safety issues, and the following videos have a lead-safety message:

*Dumb Ways to Shop (Dumb Ways to Die parody video)*

<http://www.youtube.com/watch?v=toT5pqEFQ4I>



Lead-safety message in the Video from the Center for Environmental Health:

“Purses, belts and shoes at Forever 21, Wet Seal and Charlotte Russe sometimes contain high levels of lead. Avoid purses, belts and shoes from these stores.”

You can Subscribe to the Center for Environmental Health YouTube Channel by clicking on any of their videos listed at:

<http://www.youtube.com/user/CEHgenerationgreen?feature=watch>



# Operating Lead Mines in Australia as of January, 2014

Below is a short description of lead mines that are currently operating in Australia. For the full list and more details please see the Excel file that we have placed on the Lead Safe World website via this link: <http://www.lead safeworld.com/wp-content/uploads/2014/07/operating-LEAD-mines-Australia-20140101.xlsx>

NAME	SYNONYMS	STATE	DESCRIPTION1	URL	DESCRIPTION2
Broken Hill	North Mine, Southern Operations, Henry George, 1130	NSW	Perilya Limited	<a href="http://www.perilya.com.au/">http://www.perilya.com.au/</a>	Perilya - Broken Hill
Broken Hill - Rasp Mine	Broken Hill - CML7 (CBH), Pinnacle	NSW	CBH Resources Limited	<a href="http://www.cbhresources.com.au">http://www.cbhresources.com.au</a>	Toho Zinc Company Ltd
Chesney	Peak Mines Project	NSW	New Gold Inc	<a href="http://www.newgold.com/">http://www.newgold.com/</a>	
Cobar CSA	CSA	NSW	Cobar Management Pty Ltd	<a href="http://www.cmpl.com.au/">http://www.cmpl.com.au/</a>	Glencore International Plc
Endeavor	Elura	NSW	CBH Resources Limited	<a href="http://www.cbhresources.com.au">http://www.cbhresources.com.au</a>	Toho Zinc Company Ltd
Mineral Hill	Parkers Hill, Pearse	NSW	KBL Mining Limited	<a href="http://www.kblmining.com.au/">http://www.kblmining.com.au/</a>	
The Peak	Peak Mines Project, Peak, Cobar, Peak	NSW	Rio Tinto Limited	<a href="http://www.riotinto.com">http://www.riotinto.com</a>	Goldcorp



	Mine				
The Pinnacles	Consols	NSW			
McArthur River	HYC	NT	Xstrata plc	<a href="http://www.xstrata.com/">http://www.xstrata.com/</a>	McArthur River Mine
Cannington		QLD	BHP Billiton	<a href="http://www.bhpbilliton.com">http://www.bhpbilliton.com</a>	BHPB - Cannington mine
Century		QLD	China Minmetals Corporation	<a href="http://www.minmetals.com/english/">http://www.minmetals.com/english/</a>	Minerals and Metals Group
Dry River South		QLD	Kagara Limited	<a href="http://www.kagara.com.au">http://www.kagara.com.au</a>	
George Fisher	North Hilton, Hilton	QLD	Xstrata plc	<a href="http://www.xstrata.com/">http://www.xstrata.com/</a>	Xstrata Zinc
Lady Loretta		QLD			
Mount Isa (Pb-Zn-Ag orebodies)	Mt Isa	QLD			
Angas		SA	Terramin Australia Limited	<a href="http://www.terramin.com.au">http://www.terramin.com.au</a>	
Hellyer		TAS	Intec Ltd	<a href="http://www.intec.com.au">http://www.intec.com.au</a>	Bass Metals Ltd
Rosebery		TAS			
Golden Grove	Scuddles, Gossan Hill	WA	China Minmetals Corporation	<a href="http://www.minmetals.com/english/">http://www.minmetals.com/english/</a>	Minerals and Metals Group
Gossan Hill	Golden Grove	WA	Minerals and Metals Group	<a href="http://www.mmg.com/pages/986.aspx">http://www.mmg.com/pages/986.aspx</a>	
Jaguar		WA	Independence Group NL	<a href="http://www.igo.com.au">http://www.igo.com.au</a>	
Magellan	Wiluna	WA	Ivernia Inc.	<a href="http://www.ivernia.com">http://www.ivernia.com</a>	
Whim Creek		WA	Straits Resources Limited	<a href="http://www.straits.com.au">http://www.straits.com.au</a>	VentureX Resources Limited



## **Restoration of the CDC Healthy Homes and Lead Poisoning Prevention program and 2014 Budget Update**

This morning, the FY2014 Omnibus budget package was released, and contained good news for a critical program to ensure the health of our nation's children, the CDC Healthy Homes and Lead Poisoning Prevention program. This program, which maintains a national surveillance system that monitors blood lead testing for children and supports state and local lead screening and case management programs, was funded at \$15 million, and dramatic increase from last year's appropriation of \$2.45 million. Two years ago, the CDC lead program was cut from \$29 million to \$2 million, with no direct funding to state lead poisoning prevention programs. Hopefully with this increase in funding the national program will be able to resume support for the local efforts.

The CDC Asthma Control program was funded at a \$24,700,000 level, a small decrease from the previous level of \$28,372,000.

Also, The HUD Office of Healthy Homes and Lead Hazard Control budget was released. The office was budgeted \$110 million, a decrease from the previous level of \$120 million. Of that total, \$15 million is provided for the healthy homes initiative. While we hope that level is enough for HUD to have healthy homes production grants available, that amount at least speaks to a level to continue the healthy homes technical studies and the supplemental healthy homes funding that can be utilized with the lead hazard control grant program. Regarding the lead hazard demonstration reduction program, lead funds set aside for municipalities with the highest needs, \$45 million has been made available. The Department is directed to provide an implementation plan for the healthy homes funds by September 30, 2014 and to focus efforts on addressing mold, radon, pests, and asthma.

The Weatherization Assistance Program for FY14 is funded at \$174 million, which is also great news. There had been some concern that WAP funding may stay at a lower annual level following the influx of funds for weatherization during ARRA (the stimulus). The FY14 level is more in line with pre-ARRA funding for the program.

The National Institutes of Health is provided with \$30 billion, an increase of \$1 billion over the post-sequestration FY 2013 funding level. Also, the \$1 billion sequester cut that NIH was scheduled to take later this month has been cancelled.



# Early Lead Exposure Linked to Dementia

*Annotated bibliography by Elizabeth O'Brien, BSc (Syd), Grad Dip Ed (Health Education)*

The first four references below, were cited by Ted Schettler in an email received by The LEAD Group, and reprinted in *LEAD Action News* vol 14 no 2, under the heading: *Prevalence of dementia in England lower than expected; how to explain it?* (18 July 2013). For this edition of *LEAD Action News*, I have briefly summarised several other references which link lead and dementia, that have been sent to us by Dr Alison Bleaney.

Effects of **lead** on the adult **brain**: a 15-year exploration. Stewart WF, Schwartz BS. *Am J Ind Med.* 2007 Oct;50(10):729-39.

**Bone lead** levels are associated with measures of **memory impairment** in older adults. van Wijngaarden E, Campbell JR, Cory-Slechta DA. *Neurotoxicology.* 2009 Jul;30(4):572-80.

Cumulative **lead** dose and **cognitive** function in older adults. Bandeen-Roche K, Glass TA, Bolla KI, Todd AC, Schwartz BS. *Epidemiology.* 2009 Nov;20(6):831-9.

Interaction of stress, **lead** burden, and age on cognition in older men: the VA Normative Aging Study. Peters JL, Weisskopf MG, Spiro A 3rd, Schwartz J, Sparrow D, Nie H, Hu H, Wright RO, Wright RJ. *Environ Health Perspect.* 2010 Apr;118(4):505-10

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## Latest Tweets & Ideas

- Practically all bullets on the planet are made of lead, therefore jewelry made from bullet parts could easily be dangerous to everyone, especially if the jewelry makers are melting or heating the bullet parts. Once incorporated into jewelry, lead is particularly hazardous to people who mouth or suck on the jewelry and leaded jewelry has been fatal when ingested. Tragically, leaded jewelry has not been banned in any country, although in the United States if the jewelry is intended for children, it cannot contain more than 90 parts per million (ppm) lead. - Elizabeth O'Brien.

- The major lead threat we face currently is not from leaded toys made in China, but from the lead in our bones which will likely cause early death for one in ten adults alive today. Get the lead out of your body! - Elizabeth O'Brien.

- If you're using [#ayurvedic](#) medicine. Make sure you get tested for lead! [#leadsafety](#) [#medicine](#) <http://t.co/1jvD5OLMf> - Yiru Rocky Huang (29/07/2014)

- How does lead compare to asbestos? The World Health Organisation estimates that lead kills 20x more people than asbestos does. [#lead](#) - Yiru Rocky Huang (29/07/2014)



- Our latest blog entry talks about our recent media exposure & the release of the NHMRC draft paper for consultation. <http://bit.ly/1k56omA> - Yiru Rocky Huang (27/07/2014)

- <http://bit.ly/1nvXLCs> We have been featured in [#TheAustralian](#), it's time to act! [#leadsafety](#) [#lead](#) [#leadtesting](#) - Yiru Rocky Huang (22/07/2014)

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