

Trail Area Health & Environment Committee



MINUTES

Meeting:

June 27, 2017

City of Trail – Committee Room #2

7:00 pm

Committee Members in Attendance:

Mike Martin, Chair, City of Trail
Lisa Pasin, Alternate Chair, City of Trail
Brad McCandlish, BC Ministry of Environment
Mark Tinholt, Teck Trail Operations
Jeannine Stefani, Interior Health

Ron Joseph, Community Member
Marylynn Rakuson, Community Member
Mike Adams, Healthy Communities, Interior Health
Gord DeRosa, Community Member
Shane Ferraro, Village of Warfield

Others in Attendance:

Bruce Enns, SNC-Lavalin Inc.
Cindy Hall, SNC-Lavalin Inc.
Liz Anderson, SNC-Lavalin Inc.
Phil Langile, Interested Public
Pete Golden, Teck Trail Ops

Daniel Bouillon, Teck Trail Operations
Andrea McCormick, SNC-Lavalin Inc.
Dr. Kamran Golmohammadi, MHO
Catherine Adair, Teck Trail Ops

Round of introductions.

Note: Ruth Beck is away.

Recognition of Mark Tinholt – Mike commended Mark on the extremely valuable contributions he has made to the committee over the last 6 years. “Thank you very much and we wish you the best for the future”.

MEETING MINUTES: Dated April 18, 2017

Accepted as presented.

PRESENTATIONS, REPORTS, DISCUSSIONS & RECOMMENDATIONS:

Presentations:

Fugitive Dust Reduction Program Update; Pete Golden

Pete presented the Teck Air Quality Update as a part of the presentation. Total Suspended Particulate (TSP) lead: Teck is on track to have the lowest ever annual average. Asbestos in air is also on track for the lowest ever annual average and is below the 2018 goal for this quarter as well.

Gord asked about permit levels; Brad replied that permits haven’t changed from the early 2000s. Brad clarified that there is no designated permissible ambient level, which is why the THEC has set its own goals.

Pete continued with his presentation and Lisa asked for clarification on the cost of the projects Teck has recently undertaken: 35\$ million for the smelter recycle building and 1.2\$ million for the upgrades to the Roaster Feed Pad.

Gord queried Pete as to what happens to the dust that’s rinsed off of the roads and suggested paying attention to the accumulation in the ditches. Pete commented that anecdotally, the Fugitive Dust

Reduction Program has reduced the dust, but an emissions inventory survey hasn't been done since 2012; Teck is set to perform a new emissions inventory this summer.

Discussion took place about the ambient air monitors. Gord suggested a move to smaller filters (from 10 microns to 2.5). Dr. Golmohammadi asked: "for every 100 'PM 10' particles, how many are lead? What is the percentage of lead in 100 micrograms of particulate collected?" Mark replied that it's on the order of 1%.

ACTION: Pete to confirm that statistic.

Community Check-In:

Marylynn commended the spring newsletter: "well done". Mark commented that he loved the cover page and found it to be a resource for the community as a whole. Liz mentioned that if anyone has any ideas for the Fall newsletters, please send them to Liz who will pass them on to Ruth.

Ron pointed out that he has received more comments from acquaintances on the THEC than ever because he was featured in the newsletter.

Mike mentioned the thank-you letter from the Benson family. Andrea commented that we have received a lot of positive feedback; and added a thank-you to the Committee, noting that the THEC is responsible for the Program. Cindy added that sometimes those thank-yous are verbal or via text. Ron added his own thank-you for the work done on his properties in Trail.

Dan asked for a little more context on the family that sent the thank-you letter. Andrea replied that they have a child that will be two years old this year. Dan asked the range of cost to remediate yards and Andrea replied that it ranges between a few thousand (10-20,000\$) to 100,000\$. She added that dealing with the soil is the most expensive part. As part of the process, we take a lot of photos before, during, and after the remediation. Andrea suggested that the home and garden team could present a profile of the process at a future meeting.

ACTION: Home & Garden team to highlight a property remediation and share with the THEC.

Dr. Golmohammadi asked about the depth of the remediation; Andrea clarified that we replace the top 30cm for full yard remediation and the top 60cm for vegetable gardens.

Mike asked how many remediations are planned for this year; Andrea replied that the focus is on families and full remediations this year, so about 20 yards.

Program Updates and Business Arising:

Air Quality:

This report was presented as part of the FDRP update.

Mike commented that the step change for TSP lead is incredible and Arsenic is good as well.

Family Health:

Jeannine presented her report and highlighted the Children's Blood Lead Clinic dates and handed out posters.

Dan asked about how Jeannine connects with new families to the area; Jeannine commented that she does a lot of community outreach and, during baby clinics, she looks at who is scheduled and offers to connect with them. Cindy added that there is a lot of word of mouth; parents speaking to other parents.

Gord raised discussion regarding children on vacation prior to blood lead clinics and put forward the suggestion that late spring is a dusty time as well. Jeannine pointed out that there is a retest in February, where we do see the blood lead levels go down. Mark added that it's a good point that kids are on vacation in August and Jeannine pointed out that she asks the parents if they've been on vacation, and if they have been away for any time in the last 4 weeks prior to the clinic, that will be taken into consideration in establishing eligibility for participation.

Gord asked about the lead levels on the surfaces, post snow melt. Discussion continued about the reasons for holding the blood lead clinic in February. Jeannine commented that we know weather is a factor and we don't want to confound last year's exposure with new exposure. We also don't want to

leave it too long to check the kids who were found to have a higher blood lead in the fall. During the winter clinic, we test kids who were high in the fall, and kids who weren't yet 6 months old at the time of the Fall Clinic.

Jeannine clarified that lead in the blood has a 30 days half life, but with constant exposure it's hard to determine how long it is in the body.

ACTION: Check with Steve Hiltz: what did the original study examine; exposure during each season? What information do we have about dust levels throughout the seasons?

Home & Garden:

Andrea and Cindy provided the update. Cindy clarified that the program gives out about 60 vacuums to families in Trail and Rivervale per year.

Andrea provided the update on the LSR program and highlighted the community support.

Cindy shared the update on community outreach and highlighted the collaboration between early childhood development service providers.

Program Planning & Operations:

Ruth is away for this meeting; no report.

Mike presented Executive report:

1. THEC draft SO₂ Communication materials: no news as the review has been delayed.
2. BLLRWG: we will convene the working group to review the new CSR soil standards coming into effect in November. Mark added that these soil standards define what constitutes contamination in soil. The standard for human health protection for lead in soil will go to 120ppm (down from 400). As such, this is an appropriate time to look at our soil remediation action levels and bring to THEC for approval.
 - a. Doodle poll will go out in the near future to set the meeting for early October.
 - b. Mark clarified that we go by Upper Concentration Cap (UCC) (which will probably go to 1200ppm) and mentioned that the H&G team is already remediating healthy homes with a lower threshold.
3. The 2020 program goals and protocols – these goals and protocols were approved at the last THEC meeting with some changes requested. Changes included the order of the goals and clarification of the protocols for soil assessment priorities. If anyone has any issues or concerns, please send to Liz.
 - a. Jeannine requested that all 9 points be fitted onto one page so that #9 isn't missed.
4. Invitation to Donna Haga to participate on the committee and the AQTWG. Ron commented that he likes the letter and will sign it along with Mike so they can send it off.

Dr. Golmohammadi commented that he would like to extend gratitude to Mark for years of service and work. He added that Mark helped with launch of collaboration between the BC CDC and IH so that the BC CDC can formally engage with IH and look into family health interventions and opportunities to support families better; especially with regard to identifying expectant families and potentially hazardous homes. He continued by saying that new evidence indicates that 1µg/dL of lead in the blood is detrimental to neurodevelopmental health. We've seen great success in Trail but want to see even more improvements. Dr. Afshari is world renowned, Dr. Kosatsky too.

Dr. Golmohammadi added that Mark also helped with one of his students who did a research project on Trail blood lead levels; he is very grateful for the support. He concluded with a thank you on behalf of his team and IH for the support.

Mike commented that following a review with IH, there will be a scheduled workshop in the Fall to ensure alignment with the planned research project work by IH.

Mark would like to see the student's research paper. Dr. Golmohammadi commented that his student will provide a summary of the interviews he conducted.

Note: Marylynn is on the AQTWG

NEXT MEETING: Tuesday, September 5, 2017

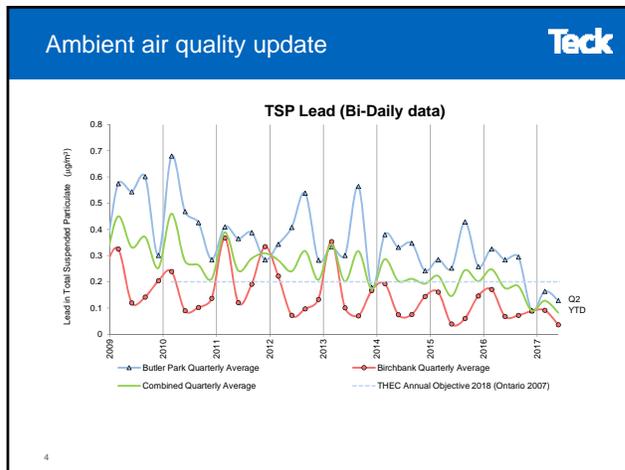
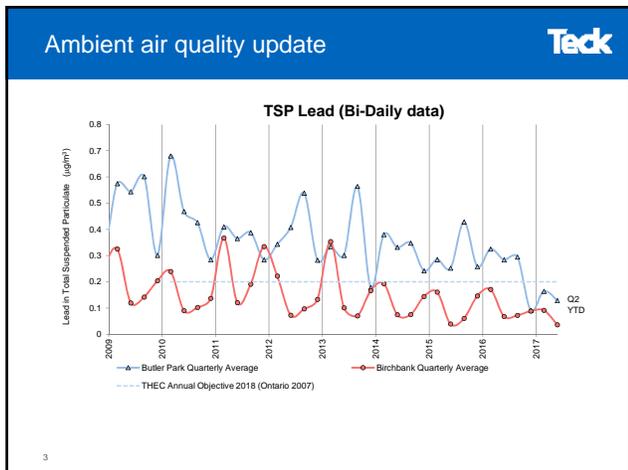
Mike conducted an informal survey of how many people could attend the September meeting on the 5th, a show of hands indicated most could make the meeting.

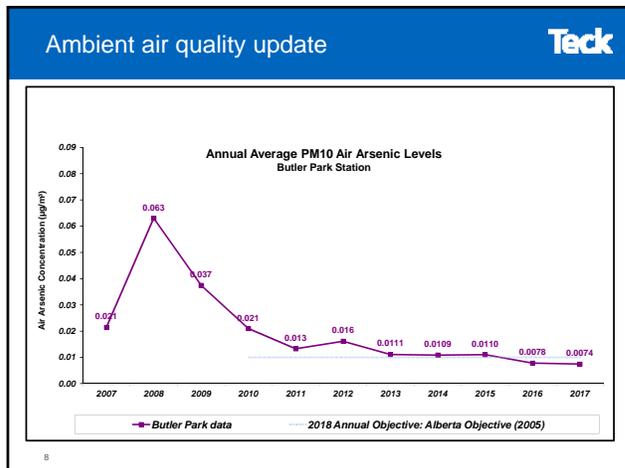
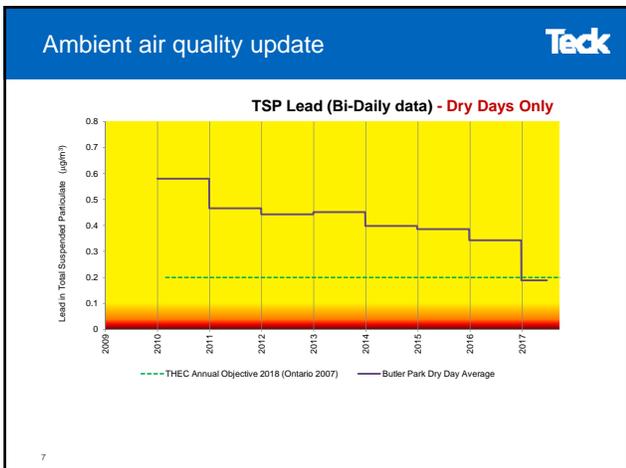
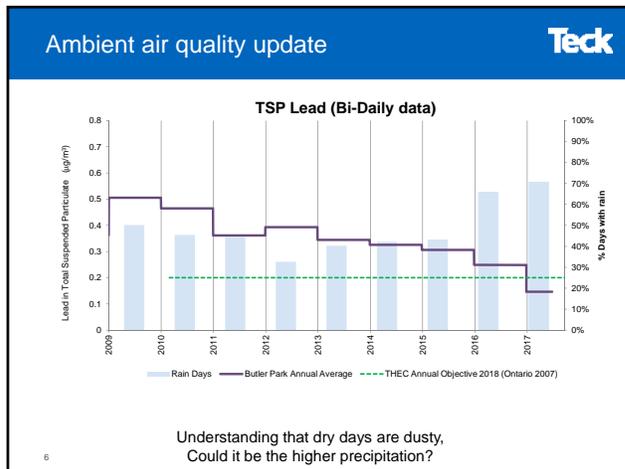
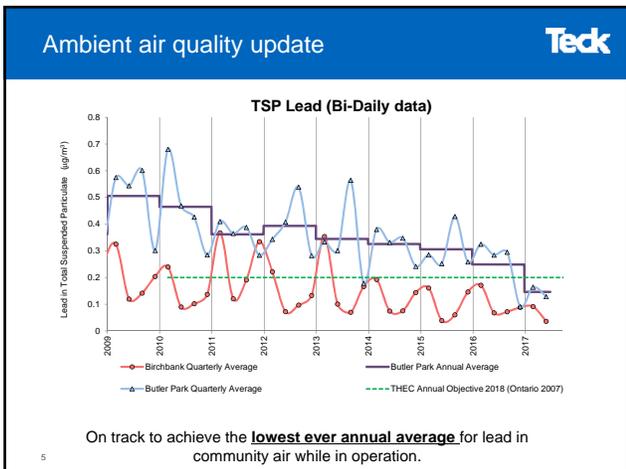
Teck | **THEC Update: Fugitive Emissions**
 June 27, 2017
 Peter Golden, Environmental Specialist

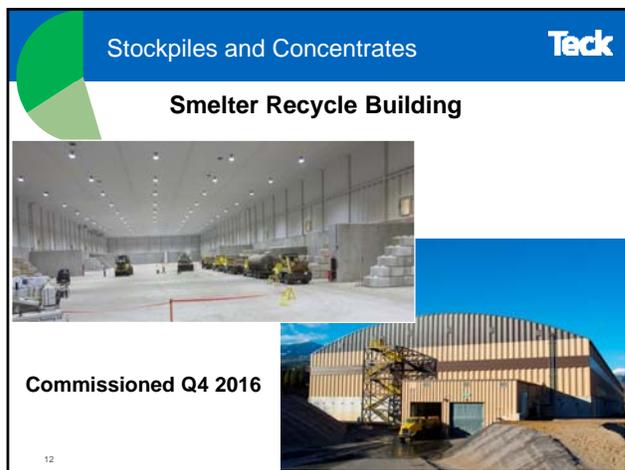
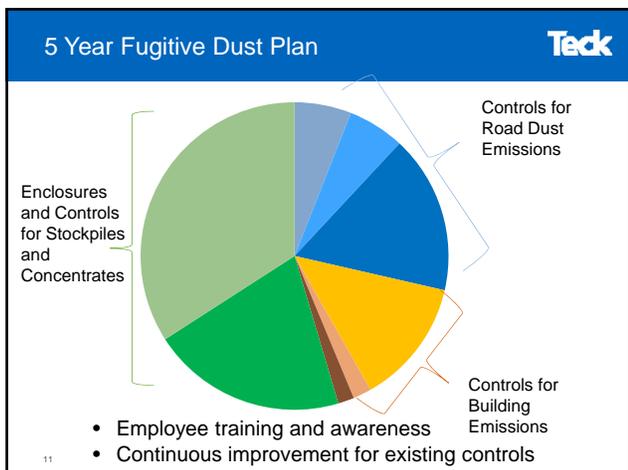
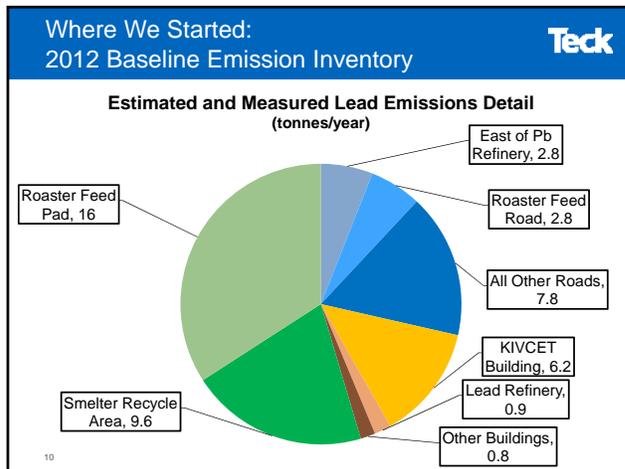
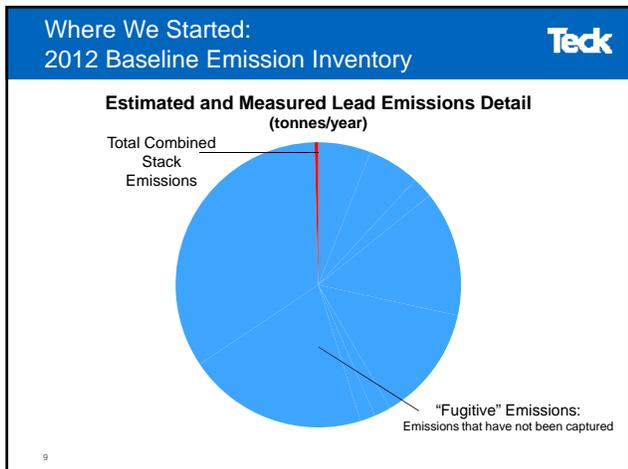
Teck

- Ambient air quality update
- Fugitive dust: where we started
- New dust controls
 - Stockpiles and mixing operations
 - Road dust
 - Building fugitives
- Next steps

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Stockpiles and Concentrates **Teck**

Smelter Recycle Building

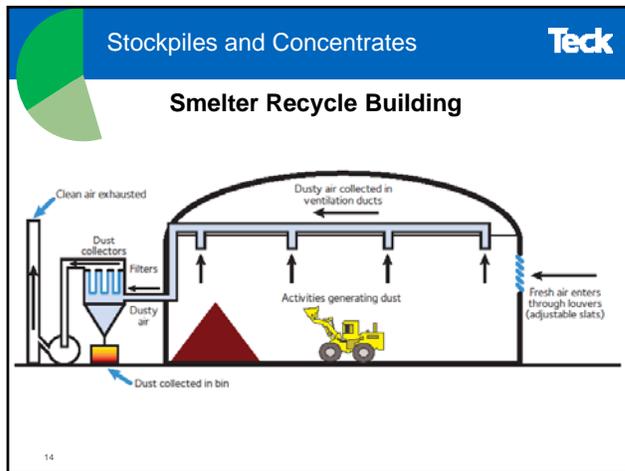


SRB in Operation



Previous Mix Area

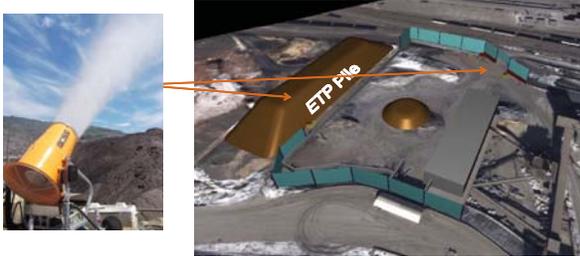
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Stockpiles and Concentrates **Teck**

Roaster Pad - 2017

- 800' of wind fence around perimeter
- 2 water cannons – remote operated
- Completion in Summer 2017



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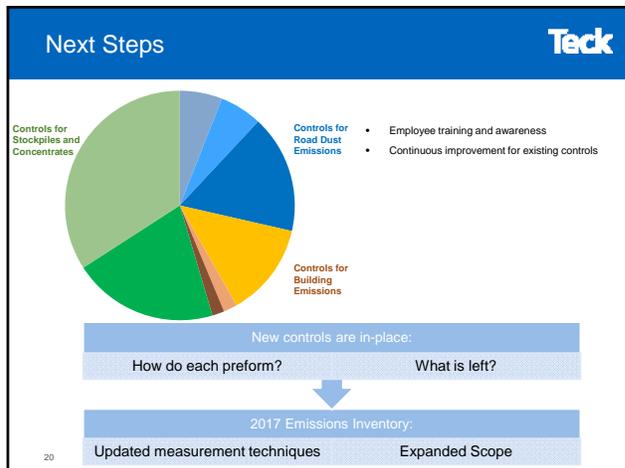
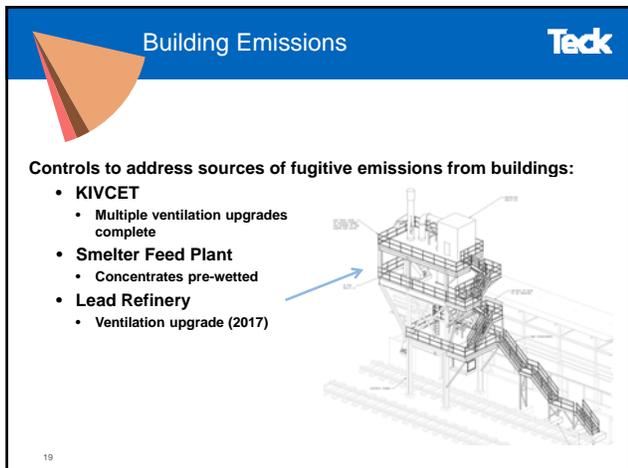
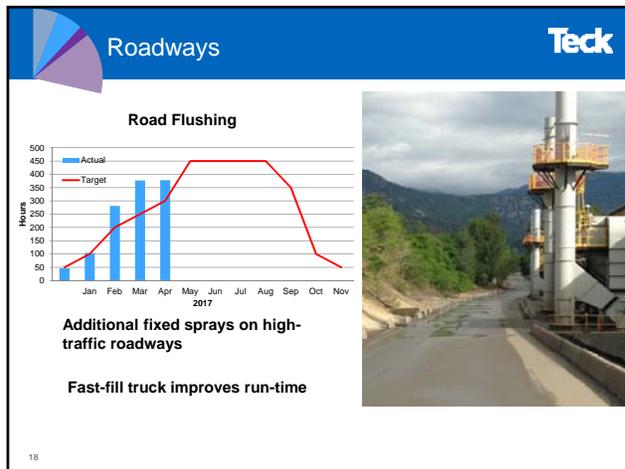
Stockpiles and Concentrates **Teck**

Annual spraying of active outdoor stockpiles is complete.

- Inactive stockpiles are covered



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Teck

Thank You

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June 27, 2017

RECENT HIGHLIGHTS

1. Fall 2017 Blood Lead Clinic Dates
2. Healthy Family Visits
3. Community Outreach
4. New Trail Blood Lead Program Database

ADDITIONAL DETAILS

1. Fall 2017 Blood Lead Clinic dates:
 - Monday September 11th from 9:00-4:00
 - Wednesday September 13th from 9:00-4:00
 - Tuesday September 19th from 9:00-4:00
 - Wednesday September 20th from 11:00-6:00
 - Monday September 25th from 9:00-4:00
 - Tuesday September 26th from 11:00-6:00
 - Approximately 230 children on list to be invited
 - Posters available for THEC members
2. Healthy Family Visits
 - 39 done in 2017
 - 19 done since last Trail Area Health & Environment Committee meeting April 18th
 - 7 more visits scheduled
3. Community Outreach
 - Attended local pregnancy outreach program on May 9th, June 20th. Will continue monthly visits in September after the summer break.
 - Attended Ready, Set and Learn at Glenmerry School May 18th
 - Assisted with Family Zone at Trail Markets on June 9th and will again on August 18th
 - Attended Teddy Bear Picnic June 22nd
4. New Trail Blood Lead Program Database
 - Continue to work collaboratively with Interior Health's Information Management Information Technology department and Teck to develop a new Trail Blood Lead Program Database
 - Demonstration of the new program presented to Home and Garden office staff and local Public Health Nurses on June 14th.

June 27, 2017

RECENT HIGHLIGHTS

1. Lead Safe Renovation Program

- We are on track for our best year yet with regard to handing out LSR Supplies: we have 93 requests so far this year (at this time last year we had 48). We feel there are a number of effects in play:
 - The LSR videos are gaining an audience
 - Word of mouth is up
 - We are now providing shopvac filters and bags for personal shopvacs
 - Reciprocal promotion with McKelvey Creek landfill: they are handing out our LSR brochures and we are giving out their info about tipping waste
- Andrea has three families that are interested in receiving a Healthy Reno Visit; she is waiting to hear back from them to confirm scheduling.
- Shaw cable has been showing the LSR video #2
- We recently received a lovely thank-you for all the Lead Safe Reno assistance and supplies. (attached)

2. HFHH Community Outreach

- The Family Zone at the Market on the Esplanade is going very well. The weather is cooperating and the collaboration between service providers has been excellent. The most recent Family Zone featured Strong Start in the Park, and the next one on July 7th will be: Playdoh in the Park.
- Teddy Bear Picnic was last Thursday and was a great success with over 300 people (and 1 horse) attending!

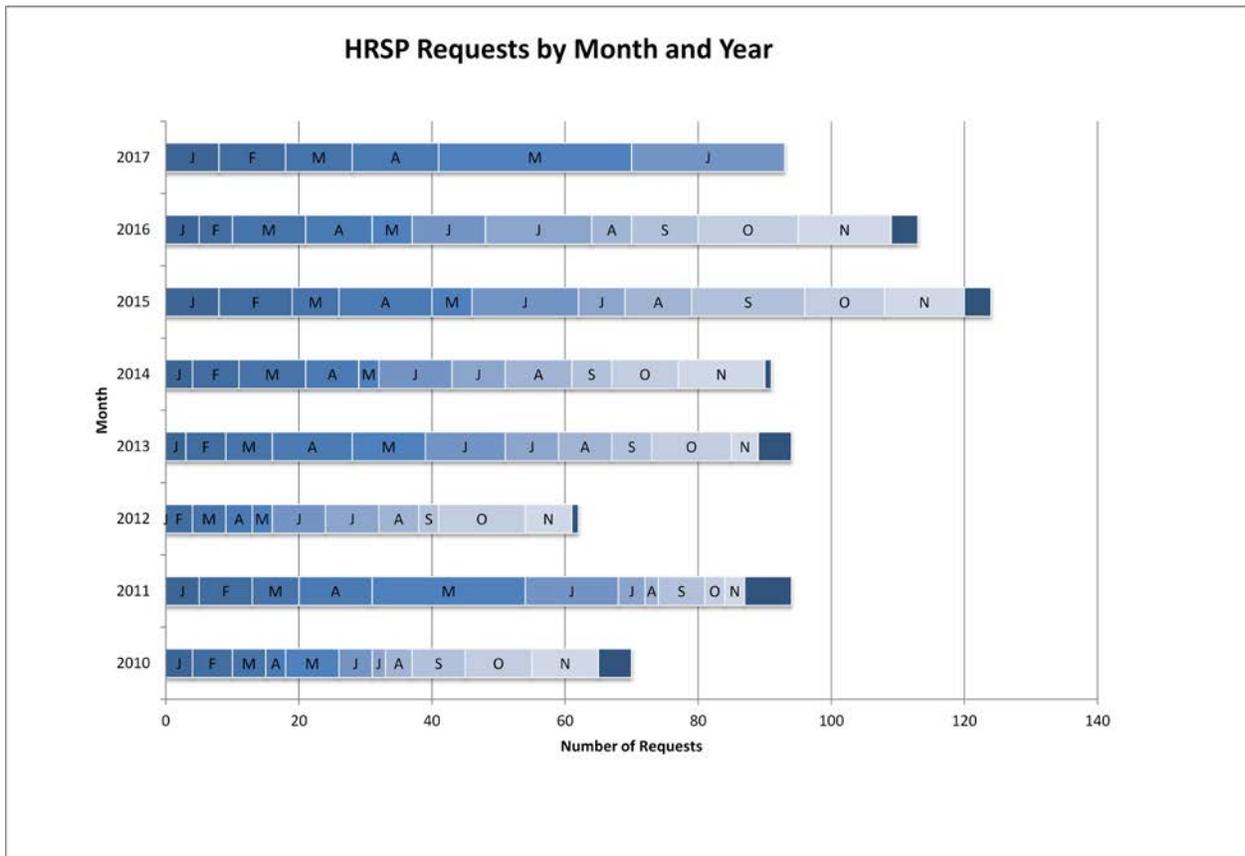
3. Professional Development

- Cindy has recently participated in two stake-holder driven summits: The Lower Columbia Healthy Communities Planning Summit (Fall 2016) and The Lower Columbia Poverty Reduction Summit (Spring 2017). Both Jeannine and Cindy were invited to attend the summits and The Trail Area Health & Environment Program was recognized as a community stake-holder.

4. H&G Remediation Program – Thank-yous!

- The Program Office recently received a letter from a family, thanking the program for the work completed at their property. (attached)
- We also received a text message from a property owner that she was “in tears her property looked so good” as the contractor was reinstalling plants.

HOME & GARDEN REPORT



Subject: Thank you for helping with our new kitchen!

Andrea,

We would like to thank you for the help that we received from your program in replacing our old, dysfunctional kitchen and dining room. You would not believe the multiple layers of plaster, drywall, lathe and chicken wire we had to contend with. It took us four months to rebuild it back up again and keeping the dust to a minimum was a challenge. The materials you provided were an enormous help. Our beautiful old house is going to be a labour of love for many projects to come. We hope to avail ourselves of your services for our future projects.

Thank you again!

Rebecca and Mike

Adam Lord & Sarah Benson
204 Kootenay Avenue
Trail, BC V1R 1H5

June 9, 2017

Trail Health & Environment Committee
1319 Bay Avenue
Trail, BC V1R 4R7

Dear THE Committee and Program Staff:

Re: Yard & Garden Replacement – 204 Kootenay Avenue

Adam, Winnie and I would very much like to thank the THEC and your extremely helpful and supportive staff (especially Andrea) for the complete overhaul of both our lawn and garden. We were delighted to learn that we qualified for this remediation and thank both you and Teck Metals Ltd. for your dedication to a clean and safe environment for residents.

We consider ourselves extremely fortunate to live where we do and to work for a company that considers the health of its residents a key factor in the success of a community.

Additionally, please pass on our thanks to the staff of Alpine Contracting, who did an immaculate job in our yard. We simply could not be happier with their work.

Again, we thank you for taking on this project. Please know it will be enjoyed and maintained for many, many years to come.

Sincerely,

A handwritten signature in black ink, appearing to read 'Sarah Benson', written in a cursive style.

Sarah Benson

Trail Area Health & Environment Committee
2020 Program Goals and Protocols
Approved by the THEC – April 18, 2017

Program Goals:

1. To have an average¹ blood lead level of **3.5 µg/dL** for children aged 6 months to 36 months in Trail and Rivervale by 2020;
2. To have at least **95%** of children aged 6 months to 36 months in Trail and Rivervale with blood lead levels below 10 µg/dL by 2020²;
3. To have a minimum of **75%** of children aged 6 months to 36 months from identified families in Trail and Rivervale participate in voluntary blood lead testing clinics;
4. To have an annual average of lead in community air³ of **0.20 µg/m³** or lower⁴ by **2018 with continuous improvement to 2020**;
5. To have an annual average of arsenic in community air⁵ of **0.01 µg/m³** or lower⁶ by **2018 with continuous improvement to 2020**;
6. To have **continuous improvement in the number** of home renovators in Trail and Rivervale, and renovators of pre-1976 homes throughout Greater Trail using the Lead Safe Renovation Program;
7. To have at least **95%** participation of identified eligible families in the voluntary Healthy Families Healthy Homes Program.

Recommended Program Protocols:

8. To **continue to prioritize for soil assessment**⁷ for:
 - (1) expectant families and families with young children,
 - (2) residents requesting vegetable garden testing,
 - (3) residents of identified city blocks close to the smelter where soil levels may exceed remediation Action Levels, and, as lowest priority,
 - (4) residents requesting general yard soil testing.
9. To conduct soil removal and replacement for yards where lead levels exceed the **Action Level of 4,000 ppm, and for vegetable gardens, an Action Level of 1,000 ppm**. Future Action Levels may change in consideration of provincial regulatory standards and recommendations from the THEC Blood Lead Reduction Working Group.

¹ We use the term “average” to refer to the geometric mean (geomean) of the children’s blood lead levels because it is a more widely understood concept. The geomean is the most widely used representation of “central tendency” (i.e., one’s notion of “middle”) for blood lead distributions.

² Although 10 µg/dL is no longer the international “level of concern”, this objective was established in 2010 and was approved by the community through public consultation.

³ As measured in total suspended particulate at Butler Park station.

⁴ The objective for lead was based on the 30-day Ontario Ambient Air Quality Criterion (OMOE, 2007) of 0.2 µg/m³ for lead and its compounds. This value was the most current and stringent guideline in Canada when the objective was set, and remains the criterion in Ontario (OMOE, 2012).

⁵ As measured in inhalable (PM₁₀) particulate at Butler Park station.

⁶ The objective for arsenic was based on the annual average Alberta Ambient Air Quality Objective (Alberta, 2005) of 0.01 µg/m³ (0.0033 ppb). This value was the most current and stringent guideline in Canada when the objective was set. This Objective was reviewed in 2013 and remains unchanged.

⁷ Soil assessment and remediation is offered in Trail and Rivervale. Requests from outside this area are considered on a case-by-case basis.