To: Holsman, Marianne[Holsman.Marianne@epa.gov]; Bray, Dave[Bray.Dave@epa.gov]; Koprowski, Paul[Koprowski.Paul@epa.gov]; Narvaez, Madonna[Narvaez.Madonna@epa.gov]; Smith, Judy[Smith.Judy@epa.gov]; McClintock, Katie[McClintock.Katie@epa.gov]; Koerber, Mike[Koerber.Mike@epa.gov]; Davis, Alison[Davis.Alison@epa.gov]; Barber, Anthony[Barber.Anthony@epa.gov]; Terry, Sara[Terry.Sara@epa.gov]; Davis, Matthew[Davis.Matthew@epa.gov]
Cc: Downey, Scott[Downey.Scott@epa.gov]; Moon, Wally[Moon.Wally@epa.gov]; Bremer, Kristen[Bremer.Kristen@epa.gov]; Fairchild, Susan[Fairchild.Susan@epa.gov]
From: Hastings, Janis
Sent: Mon 2/22/2016 6:52:50 PM
Subject: Planning for Thursday, 2/25, RA Update on Portland Air Toxics

.....
,,,,,
Hi, everyone. We will use the call scheduled for this Thursday, 2/25, to update Dennis. I have forwarded the call-in information to him. He is generally aware of the background and issues, so we will focus on updates.

Instead of the regular daily update, below is a very rough agenda for Thursday, which I hope Dave, Katie, Madonna, and Mike can finalize.

Dave, could you please send out the final agenda for Thursday's call on Wed?

Topics (5 min each)

∀ Portland facilities: Brief updates and next steps – Katie

∀ Applicability determinations for the above facilities: Status – OAQPS?

∀ Other facilities nationwide: Brief update and next steps – HQ?

∀ ODEQ's requests for support: Current status/needs – Katie/Paul/Wally?

∀ Spectrum: Status and comparison with Bullseye – Katie

∀ Questions from Dennis

Thanks!

Jan

Janis Hastings, Acting Director

Office of Air, Waste & Toxics

U.S. Environmental Protection Agency, Region 10

1200 Sixth Ave, Ste. 900

Seattle, WA 98101

(206) 553-1582

From: Holsman, Marianne
Sent: Friday, February 19, 2016 1:09 PM
To: Bray, Dave ; Hastings, Janis ; Koprowski, Paul ; Narvaez, Madonna ; Smith, Judy ; McClintock, Katie ; Koerber, Mike ; Davis, Alison ; Barber, Anthony ; Terry, Sara ; Davis, Matthew
Cc: Downey, Scott ; Moon, Wally ; Bremer, Kristen ; Fairchild, Susan
Subject: Re: Daily Updates on Portland Air Toxics

Hi Folks:

Sorry for all the calendar activity. I clearly need to slow down! Thanks to Katie for noting our daily calls were set for the weekends. Thankfully that doesn't seem necessary.

We'll catch up on Monday. May not be a ton to discuss then, but maybe we can make a plan for who needs to be in the conversations about what are the next steps and how we'll be communicating about them?

Have a good weekend!

From: Holsman, Marianne
Sent: Tuesday, February 16, 2016 4:12 PM
To: Holsman, Marianne; Bray, Dave; Hastings, Janis; Koprowski, Paul; Narvaez, Madonna; Smith, Judy; McClintock, Katie; Koerber, Mike; Davis, Alison; Barber, Anthony; Terry, Sara; Davis, Matthew
Cc: Downey, Scott; Moon, Wally; Bremer, Kristen; Fairchild, Susan
Subject: Daily Updates on Portland Air Toxics
When: Friday, February 19, 2016 8:30 AM-9:00 AM.
Where: Ex. 6 - Personal Privacy code: Ex. 6 - Personal Privacy

Hi Folks:

Thought at least a morning update each day would help everyone know what is happening given how dynamic things are right now. May want to do an end of day wrap as well.

If you can't make the updates, please send me and Jan an email and we'll report for you.

The idea is we each report on what we know and are working on currently. Simple!

Thanks!

To: Holsman, Marianne[Holsman.Marianne@epa.gov]; Hastings, Janis[Hastings.Janis@epa.gov]; Koprowski, Paul[Koprowski.Paul@epa.gov]; Narvaez, Madonna[Narvaez.Madonna@epa.gov]; Smith, Judy[Smith.Judy@epa.gov]; McClintock, Katie[McClintock.Katie@epa.gov]; Koerber, Mike[Koerber.Mike@epa.gov]; Davis, Alison[Davis.Alison@epa.gov]; Barber, Anthony[Barber.Anthony@epa.gov]; Terry, Sara[Terry.Sara@epa.gov]; Davis, Matthew[Davis.Matthew@epa.gov]; Throwe, Scott[Throwe.Scott@epa.gov]
Cc: Downey, Scott[Downey.Scott@epa.gov]; Moon, Wally[Moon.Wally@epa.gov]; Bremer, Kristen[Bremer.Kristen@epa.gov]; Fairchild, Susan[Fairchild.Susan@epa.gov]
From: Bray, Dave
Sent: Wed 2/24/2016 11:02:27 PM
Subject: RE: Daily Updates on Portland Air Toxics

Hi everyone,

Here's the agenda for Thursday's call/briefing for RA Dennis McLerran.

Topics (5 min each)

- Portland facilities: Brief updates and next steps – Katie
- Applicability of the area source NESHAP to the above facilities? – OECA/OGC/OAQPS
- Other facilities nationwide: Brief update and next steps (Janet's email) – OAQPS
- ODEQ's requests for support: Current status/needs – Paul/Wally
- Spectrum: Status and comparison with Bullseye – Katie
- Questions from Dennis

Dave

From: Holsman, Marianne
Sent: Tuesday, February 16, 2016 4:12 PM
Required: Holsman, Marianne; Bray, Dave; Hastings, Janis; Koprowski, Paul; Narvaez, Madonna; Smith, Judy; McClintock, Katie; Koerber, Mike; Davis, Alison; Barber, Anthony; Terry, Sara; Davis, Matthew
Optional: Downey, Scott; Moon, Wally; Bremer, Kristen; Fairchild, Susan
Subject: Daily Updates on Portland Air Toxics
When: Thursday, February 25, 2016 8:30 AM-9:00 AM.
Where: Ex. 6 - Personal Privacy code: Ex. 6 - Personal Privacy

Hi Folks:

Thought at least a morning update each day would help everyone know what is happening given how dynamic things are right now. May want to do an end of day wrap as well.

If you can't make the updates, please send me and Jan an email and we'll report for you.

The idea is we each report on what we know and are working on currently. Simple!

Thanks!

From: McClintock, Katie
Sent: Sat 3/5/2016 7:04:14 AM
Subject: Color Glass Daily Update 3-4-16
Daily Update 3-4-16.docx
Media Monitoring Report Metal Release 03.04.2016.docx

Ex. 6 - Personal Privacy

Katie McClintock

Air Enforcement Officer

EPA Region 10

1200 Sixth Avenue, Suite 900, OCE-101

Seattle, WA 98101

Phone: 206-553-2143

Fax: 206-553-4743

Mcclintock.katie@epa.gov

Media Monitoring Report – Metal Release

Social and Traditional Media

March 4, 2016

Good Morning –

This is a situation specific media monitoring report relating to the Portland metals release. This report contains both traditional and social media sources.

Nick on behalf of the HSPR Team

Traditional Media (Provided by: Nick May)

Environment

- 7 Things You Need To Know About Portland's Toxic Air Situation **(OPB)**
- Protesters Want Special Session Over Portland Air Pollution **(OPB)**
- Portland's toxic air: Mayoral candidates debate better regulation **(OregonLive)**
- Wheeler, Bailey stake out positions before important environmental debate **(PortlandTribune)**
- Portland's toxic air: Uroboros Glass neighbors worry about health **(OregonLive)**

DEQ

- SE Portland residents deliver requests to DEQ **(KOIN)**
- Grilled arsenic asparagus: Protesters deliver 'tainted' veggies to DEQ demanding better air quality **(Portland Business Journal)**

Legal activity

- Class action lawsuit filed against Bullseye Glass **(PortlandTribune)**
- 7 SE Portland residents file class action lawsuit against Bullseye Glass over toxic air **(KATU)**
- Neighbors file class-action suit against Bullseye Glass in air pollution scare **(OregonLive)**
- Bullseye Glass slapped with class-action lawsuit over pollution **(Portland Business Journal)**
- Class-Action Suit Filed Against Bullseye Glass **(Patch)**
- Seattle Law Firm Files Class Action Lawsuit Over Portland Air Pollution **(OPB)**
- Bullseye Glass Just Got Sued **(PortlandMercury)**

Related

- Petition seeks review of Intel air quality permit **(HillsboroTribune)**

Social Media (Provided by: Julie Black)

Political web response

- Jeff Merkley

- **Jules Bailey,** "Jules Bailey calls for local and regional solutions on air toxics"

Online Groups – What they are discussing within the last 24 hours. This report is not exhaustive.

- Neighbors for Clean Air **Facebook – Members: 1887**
  - **Comments:**
    - Great work by the South Portland Air Quality group to get a community meeting scheduled on the air toxics crisis in their neighborhoods! Worried about Precision Cast Parts and McClure Industries? Join your neighbors March 15th. Link to event
      - **Event details:** We are pleased to announce that a community meeting will be held at Lane Middle School on March 15, 2016 (TIME TBD, despite FB forcing a time to be assigned) about air toxics. This is your chance to show up, learn more, and ask questions.
        This meeting is inspired by the large community meetings that were held at Cleveland HS and Hariet Tubman over community concerns on air toxics, and will focus on air and soil pollution issues in SE Portland and Milwaukie. We have confirmation from PPS for the use of the space, and appreciate Principal Brenda Fox's gracious offer to use her school for this important community meeting. We also have confirmed that Department of Environmental Quality (DEQ), Oregon Health Authority (OHA), and the Multnomah County Health Department will be attending. Arrangements for other panelists are currently being made. Please mark your calendars, invite your friends and neighbors, share this event via Facebook, and stay tuned for more details.
        Air Toxics Community Meeting
        Lane Middle School
        7200 SE 60th Avenue
        Portland, OR 97206
        March 15, 2016
        Time: TBD
        Photo: Beth Nakamura/The Oregonian

- Eastside Portland Air Coalition **(A.K.A** Inner SE/NE Air Quality**) Facebook – Members: 2805**
  - **Comments:**
    - ***** ONE MINUTE ACTION ***** Call Governor Kate Brown and leave a voicemail asking for an emergency session of the legislature. We've got to address Portland's toxic air crisis before the next scheduled session in 2017. (503) 378-4582 All are encouraged to speak from the heart, but here's a sample script if you need some inspiration: Hello Governor

Brown, my name is ------ and my zip code is 97---. I am calling to request that the Oregon legislature hold an emergency session to address Portland's toxic air crisis. The money allocated to the DEQ is a good start, but to really enact systemic change, we need new Oregon laws that put people before polluters. Thank you!

- Sharable! Kids have tested positive for toxins, parents lay awake at night worrying. Please join us in fighting for our very lives.
  Join us at Eastside Portland Air Coalition:
  Ex. 6 - Personal Privacy
  #EPAC #CleanAir #CleanAirPDX
  #eastsideportlandaircoalition
  #bullseye #uroboros #PrecisionCastParts
  #DEQ
  Ex. 6 - Personal Privacy
  -

- http://www.ncbi.nlm.nih.gov/pubmed/25635985 Just wanted to share this - so, I have pre-diabetes, but don't match any of the indicators - no family history, not overweight, good diet. Then I find this, (and many other articles if you search "diabetes and air pollution.") I'm DEFINITELY talking to the lawyers. Link to article
- Many of our affected community members have been reaching out to me about what the **class action suit** might mean for them. Yesterday I re-posted the legal teams document with information. I also reached out to some litigators who assured me that they are still interested in pursuing individual claims, so please keep contacting them. Many of you also asked me to reach out to Erin Brockovich's firm and ask what this means for them. On your behalf I did so and she emailed me this morning:
  Jennifer: As we discussed on the telephone today, our law firm and Erin Brockovich intend to visit your community and meet with the residents to learn more about the air pollution issues that are impacting them. The filing of a law suit by another firm yesterday does not change that decision. We have not yet filed a law suit because it it our general practice to travel to the community first, so that we learn about the situation first hand and, equally if not more important, so that the community can meet our legal team and ask us questions before they decide whether they want to file a law suit and, if they do, whether our firm is the right fit for

them. Despite the filing of a law suit yesterday, we are still coming to your town and will secure a venue and date for that meeting in the next few days. We are hoping that affected people continue to contact us and attend our meeting to meet us before choosing a law firm. Regardless, I also want you to know that we work together with other law firms on many of our cases, and we will do that here as well. And I am fairly confident that other law firms that file suit will do the same for the benefit of the community. Erin and I look forward to meeting many of you when we come to Portland. Best wishes, Robin Please visit us at http://www.weitzlux.com

- From Metro re **toxic compost**: Hello Bill, Sorry about the delay in replying to this inquiry. We were communicating with our processor about the issue and getting a reply took some time. They said that it is fine to put incidental quantities of regular yard debris clippings from the Bullseye Glass area into the bins still. Some people in the neighborhood have talked about remediating the arsenic and some other contaminants in the soil with plants that are especially good for absorbing them from the soil. The processor said that they would not want large quantities of plants used for this purpose in the compost. If, however, you are just cutting your grass or raking up some leaves and clipping, that is still fine. Please let us know if you have further questions. Thank you, Patrick Morgan Recycling Information Specialist Metro 600 NE Grand Ave. Portland, OR 97232-2736 503-234-3000 patrick.morgan@oregonmetro.gov www.oregonmetro.gov/recycling Metro | Making a great place
    - From: Ex. 6 - Personal Privacy Sent: Tuesday, March 01, 2016 9:39 AM To: Metro Recycling Information Subject: New Ask Metro form submission New Ask Metro online form submission: submitted on Tuesday, March 1, 2016 - 9:39am First name: Last name: Ex. 6 - Personal Privacy Email: REMOVED ZIP code: 97202 Type: residence Day phone number: Question or comments: Hello. I live within the circle identified by the Oregon Health Authority as having potentially dangerously toxic produce due to my home's proximity to Bullseye Glass. Is it still allowable for me to place my produce into the green compost bins even if they have high levels of heavy metals like, lead, arsenic, chromium, cadmium, nickel, manganese and cobalt? If not, please explain what I should do with this produce. I want to be a responsible neighbor and not contaminate Metro's compost program, which has been a genuine success story in our region's drive toward sustainability. Thank you. - Ex. 6 - Personal Privacy
- At environmental mayoral debate... Has kicked off with protestor wrestling mic from moderator.
- We need a diesel standard that aligns with California's. Link to article
- Let's all be grateful we don't live near this. Another monumental Mis-

handling of toxics by DEQ in Oregon. Link to 2012 OPB article, "Agent orange dump site is Oregon desert's toxic legacy"

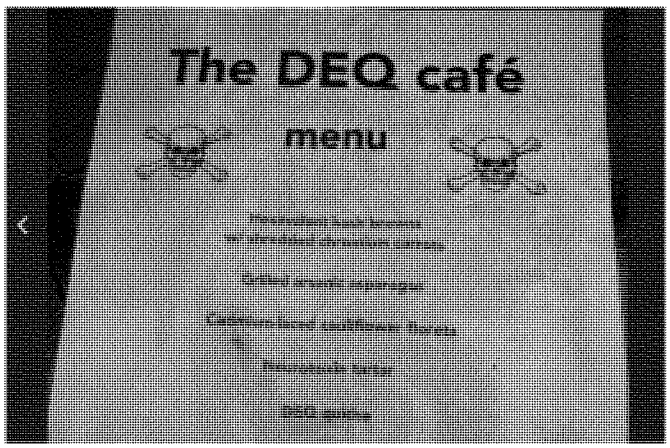
- SOIL SAMPLING -Would it be useful if I put together a DIY soil sampling class so people can collect their own soil samples? I would include analytical info and lab options too. If there is interest, I would be happy to do it.
- Inside the DEQ video by Jody Bleyle Link to video
- We got the results back for our kids arsenic tests and both overall tested high. Because the inorganic levels weren't over the amount considered dangerous, our doctor is telling us not to worry. But I am worried. Anyone farther along in this process? Can you tell me what your next steps were?

- South Portland Air Quality **Facebook – Members: 322**
  - **Comments:**
    - Air Toxics Community Meeting: South Portland & Milwaukie (Event)

Ex. 6 - Personal Privacy

- eastsideportlandair.org
- Link to Ex. 6 - Personal Privacy Facebook page
- I heard there is a world class air monitoring station administered by Reed College and the station costs 30,000 dollars paid for by residents Eastmoreland and Sellwood. The station is between Reed College and the Railyard at Holgate. So the DEQ is not honest when they say they need some expensive machine. We need these machines now. People need this now in their neighborhoods. If anyone wants a tour of this air monitoring station let me know and we can go together. We need these things all over Portland. We need a station like this near PCC and McClure.
- March 15th. Lane Middle School. Got it.
- Link to KOIN6, "Study: Portland air among worst in nation"
- Thanks to all those who came out to the rally at the DEQ downtown today. We told them our demands, gave them some toxic veggies, and demanded to know why they have not treated this crisis like a crisis. It is not business as usual.
- Link to KOIN6, "SE Portland residents requests to DEQ"
- "We've just published a new report on Diesel Exhaust in Multnomah

county and the findings are not good. Taken alone, the average cancer risk just from diesel particulate is higher than the cancer risk from heavy metals emitted by Bullseye Glass to neighbors living in close proximity." Read our full report here: **http://bit.ly/1QW9HNj**

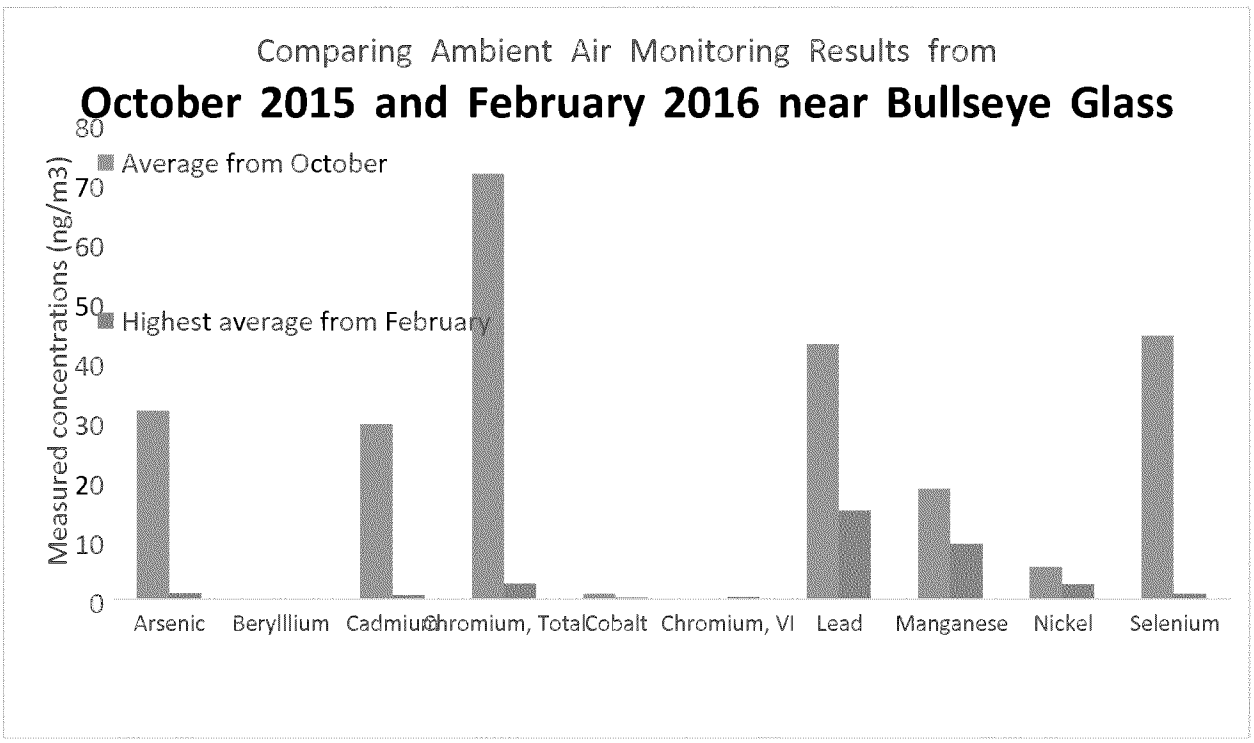
- Airadvocacy **Facebook - Members: 56**
  - **Comments:**
    - SE Portland residents demand answers from Interim DEQ Director Joni Hammond. Link to video
- Right to Clean Air Facebook **– Members: 99**
  - **Comments**
    - Link to Mark Coleman photography
    - Link to Jules Baily website, "**Jules Bailey calls for local and regional solutions on air toxics**"
    - Also linking to the March 15 community event
    - SE Portland neighborhood vegetables delivered the DEQ yesterday
    - 

Hashtags

- It does not yet appear that any one hashtag has been adopted for this issue.
  - Eastside Portland Air Coalition group is discussing the following options:
    - #airmatters
    - #EPAC2016
    - #EPAC
    - #breathclean
    - #CleanAir
    - #cleanairpdx
    - #eastsideportlandaircoalition
    - #bullseye
    - #uroboros
    - #PrecisionCastParts
    - #DEQ
    - #cleanairmatters

- #filtrateorvacate
- #bagthatstack

- We have access to the recent air sampling data (not yet released to the public).
  - **Average measured ambient concentrations of cadmium, arsenic, chromium, and selenium dropped by 96-98%.** Bullseye was not using any cadmium, arsenic and chromium so this is expected. I haven't reviewed their new submission to see selenium use, but selenium is often combined with cadmium to make reds so this reduced usage may be associated with not making cadmium-containing glasses.
  - Lead, Manganese, Nickel and Cobalt all reduced as well but not at as high as percentages (50-73%). This is a little more surprising since we expected they would continue producing these glasses at the same (or higher) rates. They may have been cautious knowing we were monitoring. I will review their records to determine how usage changed. It is also possible other nearby sources (railyard) shifted production knowing monitors were nearby.
  - After some concerning meteorological and operational data with the October data set, it is encouraging to see that we don't continue to see spikes after Bullseye curtailed operation (though as I mentioned there is still some inconsistencies with all metals decreasing).
  - I will also note these are 12 hour samples which, depending on the day might not capture the same concentrations, because I understand most of the active melting happens at night so glass is ready to pull out during the day.
  - The base file and some EPA analysis are on the onedrive. We received this late Friday so we will review more next week.



- We also access to the recent soil sampling data (not yet released to the public).
  - I am also posting this on the sharedrive. All are in the Technical info/Monitoring folder.
  - I don't have much interpretation yet but I know Marc Stifelman and Julie Wroble will be

interpreting early next week.

- Monitoring:
  - Oregon has found locations for 2 more monitors near Uroboros. We should see a monitoring plan soon. Since they are out of monitors, they have requested more from EPA, but I think we may be out as well.
  - I think these monitors ringing the facility are integral to their forethcoming agreement which will establish action levels based on ambient concentrations measured on monitors. It is also encouraging to see a plan for a more equitable distribution of monitors around the sources, though it is true that Bullseye is much bigger which might have been why they focused their first.
- Bullseye:
  - OPB article from today says Bullseye has submitted a notice to Multnomah County that it intends to install a pollution filtration system (baghouse). The article says they intend to start construction mid-March and finish up April 5th.
  - OR had hoped to finish their agreements by today, but I haven't heard an update on the progress.
- Download from incident Management Call – Notes from Julie Wroble and Paul Koprowski
  - Julie and Paul appreciated the open dialogue of the calls
  - There is a final incident action plan in place now.
  - Next Wednesday, Oregon will be releasing soil data for bullseye area with a correlating health assessment indicating low soil levels of metals and therefore low risks. There will be a fact sheet about gardening saying that it's okay to eat from your garden.
  - Gov office asked about why earlier message said no gardening. The response was that, based on earlier data, and with an abundance of caution, that was the recommendation 3 weeks ago. More recent data has indicated gardening to be okay.
  - OR has established a community engagement spreadsheet that includes all requests for public engagement related to metal emissions. There is a draft response plan in process.
  - Air sampling data release date is March 14 – Dave Farrar (OHA) needs time to review and assess prior to release.
  - No elevated rates of cancer found.
  - Preliminary results of urine testing are available. Most are non-detect, but few positive results for cadmium in urine need to be understood and explained.
- Forest Service Paper
  - Geoffrey Donovan said they would release a courtesy copy of their paper Monday (though it is still under review by scientific journal).
  - Dave Shelow and Matt Landis had a technical conversation with Geoffrey Donovan about their moss study. Have posted Dave's notes in the Technical Info/Monitoring section of the onedrive.
  - The takeaway is that our technical experts think it is a good screening tool but does require follow up confirmation. Their project overlaps with something Matt Landis from EPA is doing with lichens.
- Future Oregon Toxics Program:
  - EPA Air program had a call with the program offices and got an update on the new

toxics rules being proposed in Oregon. They are developing 4 teams. There is an intention to check in weekly with EPA (and the local agency in OR, LRAPA) during this process.
  - There is no specific timeline at this point.
  - I was told the bill has passed both the senate and the house and includes $2.5 million in funding and 12 FTE for air toxics.
  - A FAQ is being developed.
- Other:
  - After receiving some internal feedback, I sent a description of Bullseye's and Uroboros' operations to Oregon. As mentioned yesterday they might use this in developing their 6S regulatory interpretation request. If you are interested in reading a brief overview of their process for glass melting, I have put in the "facility specific info" tab.
  - Region 4 found that Armstrong Glass has closed down. That leaves 6 remaining of the big stained glass manufacturers. R4 had two of the smaller/maybe sources on our list. NC will be inspecting Parramore on Monday and they have asked Georgia to inspect Origin Glass.
  - Region 4 has developed inspection criteria and is encouraging their states to inspect smaller glass shops to determine who is melting raw materials and what rate. They developed a draft and I am providing comments. They are asking their states to do inspections next week.
  - As Judy Smith mentioned this morning, OHA, ODEQ, and MultCo are setting up a unified website for the metals issue. We will send link when it becomes available. Judy suggested we should think about an EPA web presence.
  - Puget Sound (Steve Van Slyke) is in negotiations with Spectrum about getting data for a screening model. The plan was for them to send the data by today but Spectrum insisted on talking first and Steve was in meetings all day. We hope will move quickly to provide Puget Sound the information they need quickly, but they are very paranoid about CBI (and think everything is CBI) and Puget Sound doesn't have much authority to protect information.

To: McClintock, Katie[McClintock.Katie@epa.gov]; Averback, Jonathan[Averback.Jonathan@epa.gov]; Barber, Anthony[Barber.Anthony@epa.gov]; Barnett, Keith[Barnett.Keith@epa.gov]; Bray, Dave[Bray.Dave@epa.gov]; Bremer, Kristen[Bremer.Kristen@epa.gov]; Cunningham, Roylene[Cunningham.Roylene@epa.gov]; Dalrymple, Anne[Dalrymple.Anne@epa.gov]; Davis, Alison[Davis.Alison@epa.gov]; Davis, Matthew[Davis.Matthew@epa.gov]; Doster, Brian[Doster.Brian@epa.gov]; Downey, Scott[Downey.Scott@epa.gov]; Fairchild, Susan[Fairchild.Susan@epa.gov]; Field, Chris[Field.Chris@epa.gov]; Fleming, Sheila[fleming.sheila@epa.gov]; Franklin, Richard[Franklin.Richard@epa.gov]; Fried, Gregory[Fried.Gregory@epa.gov]; Froikin, Sara[Froikin.Sara@epa.gov]; Hall, Chris[Hall.Christopher@epa.gov]; Hastings, Janis[Hastings.Janis@epa.gov]; Hedgpeth, Zach[Hedgpeth.Zach@epa.gov]; Holsman, Marianne[Holsman.Marianne@epa.gov]; Ingemansen, Dean[Ingemansen.Dean@epa.gov]; Johnson, Steffan[johnson.steffan@epa.gov]; Kaetzel, Rhonda[Kaetzel.Rhonda@epa.gov]; Keenan, John[keenan.john@epa.gov]; Koerber, Mike[Koerber.Mike@epa.gov]; Koprowski, Paul[Koprowski.Paul@epa.gov]; Kowalski, Ed[Kowalski.Edward@epa.gov]; Leefers, Kristin[Leefers.Kristin@epa.gov]; Lynch, Kira[lynch.kira@epa.gov]; Martenson, Eric[Martenson.Eric@epa.gov]; Matthews, Julie[Matthews.Juliane@epa.gov]; McLerran, Dennis[mclerran.dennis@epa.gov]; Mitchell, Ken[Mitchell.Ken@epa.gov]; Moon, Wally[Moon.Wally@epa.gov]; Narvaez, Madonna[Narvaez.Madonna@epa.gov]; Owens, Katharine[Owens.Katharine@epa.gov]; Page, Lee[Page.Lee@epa.gov]; Palma, Ted[Palma.Ted@epa.gov]; Pirzadeh, Michelle[Pirzadeh.Michelle@epa.gov]; Rimer, Kelly[Rimer.Kelly@epa.gov]; Rodman, Sonja[Rodman.Sonja@epa.gov]; Stern, Allyn[Stern.Allyn@epa.gov]; Stewart, Michael[Stewart.Michael@epa.gov]; Stifelman, Marc[Stifelman.Marc@epa.gov]; Taylor, Kevin[Taylor.Kevin@epa.gov]; Terada, Calvin[Terada.Calvin@epa.gov]; Terry, Sara[Terry.Sara@epa.gov]; Thrift, Mike[thrift.mike@epa.gov]; Throwe, Scott[Throwe.Scott@epa.gov]; Tonel, Monica[Tonel.Monica@epa.gov]; Wendel, Arthur[Wendel.Arthur@epa.gov]; Williamson, Ann[Williamson.Ann@epa.gov]; Wroble, Julie[Wroble.Julie@epa.gov]; Yellin, Patrick[Yellin.Patrick@epa.gov]
From: Smith, Judy
Sent: Fri 3/4/2016 4:26:01 PM
Subject: FW: Color Glass Daily Update 3-3-16 (External Affairs additions
Media Monitoring Report Metal Release 03 03 2016.docx
IMG_0437.JPG

Here are some addition items of interest that I'm sending out as a morning edition of Katie's update.

A news story from last night that features EPA in the headline.
http://www.kgw.com/news/local/lawsuit-says-bullseye-glass-knowingly-released-toxics-lobbied-with-epa/66831123

Forest Service launches a website about their study:
http://www.fs.fed.us/pnw/research/2016/mar/index.shtml

OHA, ODEQ, and MultCo are setting up a unified website for the Metals Emissions issue. I'll

send a link out when it becomes available. As of yet, EPA has no web presence and we need should probably think about whether this is something we want to set up eventually.

There was a protest against DEQ in Pioneer Square yesterday. Picture attached. There will be a number of articles in the media update that will come out tonight.

From: McClintock, Katie
Sent: Thursday, March 03, 2016 10:13 PM
Subject: Color Glass Daily Update 3-3-16

I didn't receive a media report today. If I get one tomorrow I will post to the onedrive. I ncluded some articles in my daily update.

(b) (6)

Katie McClintock

Air Enforcement Officer

EPA Region 10

1200 Sixth Avenue, Suite 900, OCE-101

Seattle, WA 98101

Phone: 206-553-2143

Fax: 206-553-4743

Mcclintock.katie@epa.gov

Media Monitoring Report – Metal Release

Social and Traditional Media

March 3, 2016

Good Morning –

This is a situation specific media monitoring report relating to the Portland metals release. This report contains both traditional and social media sources.

Nick on behalf of the HSPR Team

Traditional Media (Provided by: Nick May)

Environment

- 3rd Portland Company In Toxic Metal Pollution Spotlight **(KUOW)**
- Toxic Moss in Portland, Ore., Shakes City's Green Ideals **(New York Times)**
- Proud of its progressive image, Portland shocked by toxic moss **(SeattleTimes)**
- Moss collected from Portland trees found to be highly toxic **(Maine News Online)**

DEQ

- Locals blast Precision Castparts' potential DEQ renewal at Milwaukie council meeting **(Portland Tribune)**
- DEQ looks to change air quality guidelines; Precision Castparts works under old permit **(KATU)**
- Precision Castparts permit renewal on hold **(KGW)**

Related topics

- Our Opinion: Time to take control of airshed **(Portland Tribune)**
- Oregon needs local toxics-reporting laws (OPINION) **(OregonLive)**

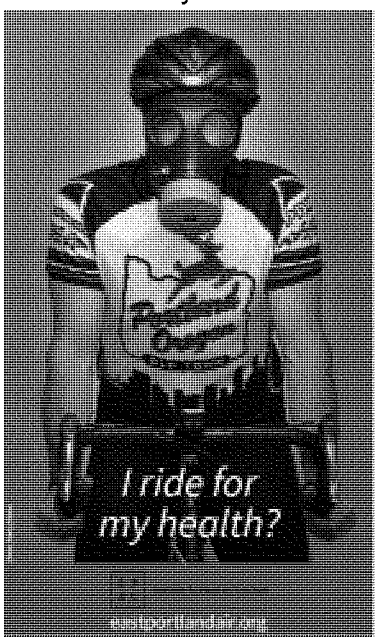
Social Media (Provided by: Julie Black)

Online Groups – What they are discussing within the last 24 hours. This report is not exhaustive.

- Neighbors for Clean Air **Facebook – Members: 1879**
  - **Comments:**
    - None

- Eastside Portland Air Coalition **(A.K.A** Inner SE/NE Air Quality**) Facebook – Members: 2756**
  - **Comments:**
    - Let's learn from Eugene, where the air has been improved with functional regulations established in 1996. Here's an article to help shine a light, co-written by Lisa Arkin from Beyond Toxics: Link to article

- ********** TODAY IS THE DAY! **********
  Bring your signs, your voices, and your cleaning gear to the SE corner of Pioneer Square TODAY at NOON as we tell the DEQ to clean up its act! Together, as a community, we are turning the tide of Portland's "greenwashing," pushing for extreme air quality reform, and uniting under a common goal: PEOPLE BEFORE POLLUTERS. Link to event

- South Portland Air Quality **Facebook – Members: 308**
  - **Comments:**
    - Sharable! "On Dec. 17, the U.S. Environmental Protection Agency released data indicating that Portland's air-quality problems extend far beyond the neighborhoods near the glass companies. The National Air Toxics Assessment shows that Portland's airshed is bursting with a toxic stew consisting of dozens of heavy metals and chemical compounds, including 49 that are carcinogenic. The assessment was based on raw data collected in 2011 that took several years for the EPA to analyze and compile. "There are hot spots here and there, but, generally, there's an elevated risk throughout the Portland area," says Kevin Downing, the Clean Diesel Program coordinator for Oregon's Department of Environmental Quality." - KOIN TV
    - 

    - Link to the Eastside Portland Air website.
      - DEQ Demands March 3, 2016 Frank Peters Today at noon members of the Eastside Portland Air Coalition will deliver a demand letter to interim DEQ Director Joni Hammond. It's been a month since residents learned of highly toxic emissions from Bullseye and Uroboros Glass and many have serious concerns about DEQ's actions to curtail them. Among the group's concerns, Compel an immediate cessation of any further toxic emissions from McClure Industries, Precision Castparts, Bullseye Glass and

Uroboros Glass until best in class pollution control equipment has been installed and verified to be functional. Revoke air discharge permits if any are uncooperative. DEQ has this authority under O.A.R. 340-216-0082 (4) (b) when it finds there is a serious danger to the public's health. Read the letter? Download the PDF. The delivery of the letter will be part of a noontime rally at Pioneer Square. All are welcome.

Ex. 6 - Personal Privacy

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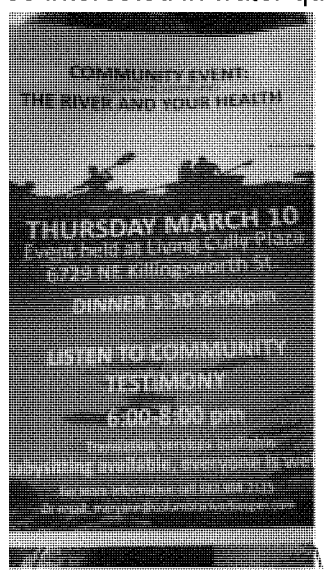
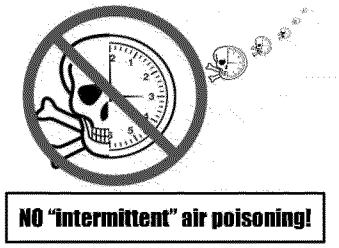
- For those interested in water quality, too.
- 

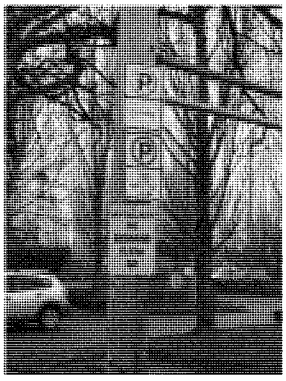
- "Precision Castparts continues to operate under its old permit until new health risk-based standards can be adopted by the state. In the meantime, the metal parts manufacturer said it will be installing improved air emission equipment by the end of April." Link to article
- "The status quo has been: pollute first, ask questions later," a concerned father said. Residents pushed for the DEQ to announce exactly what chemicals Precision Castparts uses in its manufacturing, and whether or

not they're being exposed. "I don't have the exact list of all the chemicals," DeConcini said. "But there are metals and other solvents used in their processes." Link to article

- Say no to DEQ



- Airadvocacy **Facebook - Members: 55**
  - **Comments:**
    - It's time for beach bonfires to clean up their act. Woodsmoke is a carcinogen. Link to article
    - Oregon Rep. Weidner's economic logic isn't well thought through – new companies won't come if the environment is poisoned and the workforce is sick. Link to video
    - This grassroots community group is making itself heard and making progress Link to article
    - Unrealized environmental ideals... Link to NY Times article
- Right to Clean Air Facebook **– Members: 98**
  - **About:** Right to Clean Air is a group of homeowners, parents, and business owners of the Montavilla neighborhood in Portland, OR. We're dedicated to ensuring the quality of the air and noise levels are safe for everyone living the immediate and surrounding area.
  - **Comments**



Ex. 6 - Personal Privacy

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Hashtags

- It does not yet appear that any one hashtag has been adopted for this issue.
  - Eastside Portland Air Coalition group is discussing the following options:
    - #airmatters
    - #EPAC2016
    - #EPAC
    - #breathclean
    - #cleanairpdx
    - #cleanairmatters
    - #filtrateorvacate
    - #bagthatstack

THE PIONEER COURTHOUSE
014:04:48:23

From: McClintock, Katie
Sent: Fri 3/4/2016 6:12:51 AM
Subject: Color Glass Daily Update 3-3-16
Daily Update 3-3-16.docx

I didn't receive a media report today. If I get one tomorrow I will post to the onedrive. I ncluded some articles in my daily update.

(b) (6)

Katie McClintock

Air Enforcement Officer

EPA Region 10

1200 Sixth Avenue, Suite 900, OCE-101

Seattle, WA 98101

Phone: 206-553-2143

Fax: 206-553-4743

Mcclintock.katie@epa.gov

- Forest service calls
  - 3 separate Forest Service conversations happened today:
  - I spoke with Borys Tkacz, Assistant Director for Research for PNW Research Station. He emphasized the following:
    - Interest in controlling information since the preliminary data released to the media (through a public records request) was shared with ODEQ as part of a collaboration and wasn't a finished scientific product.
    - His focus is scientific integrity and data quality. This moss method has not been peer reviewed and published which means the results aren't yet "results" and there is no "method" or "approach" to pursue elsewhere. I echoed that a final peer-reviewed, published report would allow other people, besides forest service to follow those methods and expand the use of the technique once verified. We both agreed it seems promising and exciting.
    - They have talked briefly internally about doing a study in Cincinnati next but nothing is set. They are buried with the work now and trying to finish up the remaining maps and report. Cincinnati may be a good location because it will allow them to try this on different lichen species. It can be tricky to find the right lichen that bioaccumulates well but isn't so sensitive that it dies and is unable to reproduce with any air contaminants.
    - I learned some interesting information about his process.
  - Matt Landis of ORD and David Shelow of OAQPS talked to Geoffrey Donovan, the lead researcher on this project. I'd be interested to hear on update on this conversation if you can send me an email.
  - Claire Shary (Region 10) spoke with a research social scientist from USFS, Dale Blahna. He has been working with Claire on the urban waters project but offered to communicate on this as well.
  - It is great to suddenly get more contact with FS, but we will need to probably coalesce these to the proper points of contact going forward.
  - Also OPB contacted EPA and FS about future uses of the moss study technique. I'm not sure if we made any response.
- Call with Sen. Wyden staff next Wednesday
  - Region 10 and OAR will participate.
  - Questions are generally about
    - Hazardous air pollutant monitoring at schools and within communities
    - Regulations
    - Assistance to companies in voluntary plant upgrades
- Additional scientific work
  - I have found some time to review the information requests for the 3 glass companies. There is a lot more work to do here.
  - Liz Doyle from the EPA library has been successful in tracking down the key book on glass chemistry and it is waiting at UW for immediate review or will be sent to us shortly. I also have many key articles from Liz and some articles from Northstar Glass.
- ODEQ technical requests:

    - An ODEQ manager emailed to ask for help with a technical description of the furnaces and operations at Uroboros and Bullseye. I have written a response based on our observations during our inspection. OR may decide to use some of our observations of the furnaces in crafting their request for 6S applicability.
    - Another ODEQ contact asked about Spectrum's furnace baghouse and I shared the public source tests on the baghouse with them (have already shared with other OR contacts).
- OR investigation of other glass plants:
    - ODEQ shared their VERY rough draft of glass plants. I have posted in the main folder of the colored glass page. They intended it to include anyone who deals with colored glass. It is probably both too inclusive and missing some, given the lack of clarity of these businesses and how hard they are to find.
    - We have not yet received the written communication asking for help. Now it sounds like it might be requesting cold calls rather than 114s – still a big ask with 85 sources.
    - We are looking into the applicability of the Paperwork Reduction Act to these efforts.
- Tony Barber is sharing the following list of EPA's main points of contact with the Incident and Command Center in Oregon.
    - Katie McClintock – General, enforcement, applicability, engineering, glass expert
    - Paul Koprowski – Monitoring, local OR contact
    - Julie Wroble – Health, risk assessment
    - Judy Smith – Media, outreach
    - Madonna Narvaez – Toxics
    - Wally Moon – emergency response
- Review of OR monitoring plans
    - Several people have reviewed the monitoring report.
    - It does not contain information on Uroboros or soil sampling but Paul Koprowski is working to gather these plans. OR has promised them when they are finished.
    - There are two met station sources for comparison at Bullseye but neither is ideal. Rob Elleman will be discussing with OR whether it is feasible for them to install a met station in the Fred Meyer parking lot.
- Other:
    - Looking into potential issues with other metals that may be used in glass – thallium, erbium, zinc and selenium. They have not been the focus of our work, but they may be worth considering. I am working with HQ and Region 10 risk assessors as a first screen.
    - Keller Rohrback has filed a class action lawsuit on behalf of seven plaintiffs (see article below). We have a FOIA request from this firm.
    - Incident Management Team – We have concluded that the new EPA contacts are Julie Wroble and Paul Koprowski. They will share updates for me to include in the daily updates.
- I didn't get a media update from Judy but here are two key articles:
    - http://mobile.nytimes.com/2016/03/03/us/toxic-moss-in-oregon-upsets-city-known-for-environmental-ideals.html?_r=0
    - http://www.opb.org/news/article/portland-air-pollution-bullseye-glass-lawsuit/

To: McClintock, Katie[McClintock.Katie@epa.gov]; Averback, Jonathan[Averback.Jonathan@epa.gov]; Barber, Anthony[Barber.Anthony@epa.gov]; Barnett, Keith[Barnett.Keith@epa.gov]; Bray, Dave[Bray.Dave@epa.gov]; Bremer, Kristen[Bremer.Kristen@epa.gov]; Cunningham, Roylene[Cunningham.Roylene@epa.gov]; Dalrymple, Anne[Dalrymple.Anne@epa.gov]; Davis, Alison[Davis.Alison@epa.gov]; Davis, Matthew[Davis.Matthew@epa.gov]; Doster, Brian[Doster.Brian@epa.gov]; Downey, Scott[Downey.Scott@epa.gov]; Fairchild, Susan[Fairchild.Susan@epa.gov]; Field, Chris[Field.Chris@epa.gov]; Fleming, Sheila[fleming.sheila@epa.gov]; Franklin, Richard[Franklin.Richard@epa.gov]; Fried, Gregory[Fried.Gregory@epa.gov]; Froikin, Sara[Froikin.Sara@epa.gov]; Hall, Chris[Hall.Christopher@epa.gov]; Hastings, Janis[Hastings.Janis@epa.gov]; Hedgpeth, Zach[Hedgpeth.Zach@epa.gov]; Holsman, Marianne[Holsman.Marianne@epa.gov]; Ingemansen, Dean[Ingemansen.Dean@epa.gov]; Johnson, Steffan[johnson.steffan@epa.gov]; Kaetzel, Rhonda[Kaetzel.Rhonda@epa.gov]; Keenan, John[keenan.john@epa.gov]; Koerber, Mike[Koerber.Mike@epa.gov]; Kowalski, Ed[Kowalski.Edward@epa.gov]; Leefers, Kristin[Leefers.Kristin@epa.gov]; Lynch, Kira[lynch.kira@epa.gov]; Martenson, Eric[Martenson.Eric@epa.gov]; Matthews, Julie[Matthews.Juliane@epa.gov]; McLerran, Dennis[mclerran.dennis@epa.gov]; Mitchell, Ken[Mitchell.Ken@epa.gov]; Moon, Wally[Moon.Wally@epa.gov]; Narvaez, Madonna[Narvaez.Madonna@epa.gov]; Owens, Katharine[Owens.Katharine@epa.gov]; Page, Lee[Page.Lee@epa.gov]; Palma, Ted[Palma.Ted@epa.gov]; Pirzadeh, Michelle[Pirzadeh.Michelle@epa.gov]; Rimer, Kelly[Rimer.Kelly@epa.gov]; Rodman, Sonja[Rodman.Sonja@epa.gov]; Smith, Judy[Smith.Judy@epa.gov]; Stern, Allyn[Stern.Allyn@epa.gov]; Stewart, Michael[Stewart.Michael@epa.gov]; Stifelman, Marc[Stifelman.Marc@epa.gov]; Taylor, Kevin[Taylor.Kevin@epa.gov]; Terada, Calvin[Terada.Calvin@epa.gov]; Terry, Sara[Terry.Sara@epa.gov]; Thrift, Mike[thrift.mike@epa.gov]; Throwe, Scott[Throwe.Scott@epa.gov]; Tonel, Monica[Tonel.Monica@epa.gov]; Wendel, Arthur[Wendel.Arthur@epa.gov]; Williamson, Ann[Williamson.Ann@epa.gov]; Wroble, Julie[Wroble.Julie@epa.gov]; Yellin, Patrick[Yellin.Patrick@epa.gov]
From: Koprowski, Paul
Sent: Thur 3/3/2016 8:42:04 PM
Subject: RE: Color Glass Daily Update 3-2-16

Katie,

Just to confirm – there is no SAP for Uroboros yet but Chris Moore at DEQ is developing one and will share it with us as soon as it's complete. He has committed to sharing others as they are developed.

Paul

Paul Koprowski

U.S. EPA; Oregon Operations Office

805 SW Broadway, Suite 500

Portland, Oregon 97205

(503) 326-6363

From: McClintock, Katie
Sent: Wednesday, March 02, 2016 10:47 PM
To: Averback, Jonathan <Averback.Jonathan@epa.gov>; Barber, Anthony <Barber.Anthony@epa.gov>; Barnett, Keith <Barnett.Keith@epa.gov>; Bray, Dave <Bray.Dave@epa.gov>; Bremer, Kristen <Bremer.Kristen@epa.gov>; Cunningham, Roylene <Cunningham.Roylene@epa.gov>; Dalrymple, Anne <Dalrymple.Anne@epa.gov>; Davis, Alison <Davis.Alison@epa.gov>; Davis, Matthew <Davis.Matthew@epa.gov>; Doster, Brian <Doster.Brian@epa.gov>; Downey, Scott <Downey.Scott@epa.gov>; Fairchild, Susan <Fairchild.Susan@epa.gov>; Field, Chris <Field.Chris@epa.gov>; Fleming, Sheila <fleming.sheila@epa.gov>; Franklin, Richard <Franklin.Richard@epa.gov>; Fried, Gregory <Fried.Gregory@epa.gov>; Froikin, Sara <Froikin.Sara@epa.gov>; Hall, Chris <Hall.Christopher@epa.gov>; Hastings, Janis <Hastings.Janis@epa.gov>; Hedgpeth, Zach <Hedgpeth.Zach@epa.gov>; Holsman, Marianne <Holsman.Marianne@epa.gov>; Ingemansen, Dean <Ingemansen.Dean@epa.gov>; Johnson, Steffan <johnson.steffan@epa.gov>; Kaetzel, Rhonda <Kaetzel.Rhonda@epa.gov>; Keenan, John <keenan.john@epa.gov>; Koerber, Mike <Koerber.Mike@epa.gov>; Koprowski, Paul <Koprowski.Paul@epa.gov>; Kowalski, Ed <Kowalski.Edward@epa.gov>; Leefers, Kristin <Leefers.Kristin@epa.gov>; Lynch, Kira <lynch.kira@epa.gov>; Martenson, Eric <Martenson.Eric@epa.gov>; Matthews, Julie <Matthews.Juliane@epa.gov>; McLerran, Dennis <mclerran.dennis@epa.gov>; Mitchell, Ken <Mitchell.Ken@epa.gov>; Moon, Wally <Moon.Wally@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; Owens, Katharine <Owens.Katharine@epa.gov>; Page, Lee <Page.Lee@epa.gov>; Palma, Ted <Palma.Ted@epa.gov>; Pirzadeh, Michelle <Pirzadeh.Michelle@epa.gov>; Rimer, Kelly <Rimer.Kelly@epa.gov>; Rodman, Sonja <Rodman.Sonja@epa.gov>; Smith, Judy <Smith.Judy@epa.gov>; Stern, Allyn <Stern.Allyn@epa.gov>; Stewart, Michael <Stewart.Michael@epa.gov>; Stifelman, Marc <Stifelman.Marc@epa.gov>; Taylor, Kevin <Taylor.Kevin@epa.gov>; Terada, Calvin <Terada.Calvin@epa.gov>; Terry, Sara <Terry.Sara@epa.gov>; Thrift, Mike <thrift.mike@epa.gov>; Throwe, Scott <Throwe.Scott@epa.gov>; Tonel, Monica <Tonel.Monica@epa.gov>; Wendel, Arthur <Wendel.Arthur@epa.gov>; Williamson, Ann <Williamson.Ann@epa.gov>; Wroble, Julie <Wroble.Julie@epa.gov>; Yellin, Patrick <Yellin.Patrick@epa.gov>
Subject: Color Glass Daily Update 3-2-16

Here is today's daily update

Ex. 6 - Personal Privacy

Katie McClintock

Air Enforcement Officer

EPA Region 10

1200 Sixth Avenue, Suite 900, OCE-101

Seattle, WA 98101

Phone: 206-553-2143

Fax: 206-553-4743

Mcclintock.katie@epa.gov

Media Monitoring Report – Metal Release

Social and Traditional Media

March 2, 2016

Good Morning –

This is a situation specific media monitoring report relating to the Portland metals release. This report contains both traditional and social media sources.

Nick on behalf of the HSPR Team

Traditional Media (Provided by: Nick May)

Environment

- 3rd Portland Company In Toxic Metal Pollution Spotlight **(OPB)**
- Oregon DEQ won't renew Precision Castparts' air quality permit **(KATU)**
- People Near Glass Makers Want More State Help **(OPB)**

DEQ

- Dick Pedersen, Oregon's top environmental official, resigns amid air pollution scare **(OregonLive)**
- Oregon Department Of Environmental Quality Director Dick Pedersen Steps Down **(OPB)**
- Oregon DEQ director steps down amid toxic air concerns in Portland **(KVAL)**
- Oregon DEQ Director Dick Pedersen Resigns Amid Air Pollution Concerns **BLOG (Portland Mercury)**

Related topics

- A Paperwork Error Costs Oregon DEQ Ownership of Cleaned-Up Land **(Willamette Week)**
- Can You Smoke Weed Grown Near a Pollution Danger Zone? **(Willamette Week)**
- How does Portland's air quality compare to other cities? **(Blog-Portland Business Journal)**

Social Media (Provided by: Julie Black)

Online Groups – What they are discussing within the last 24 hours. This report is not exhaustive.

- Neighbors for Clean Air **Facebook – Members: 1872**
  - **Comments:**
    - Tune-in live to the Milwaukie Council hearing on Precision Cast-Parts, McClure Industries, Bullseye. Lots of people are demanding a local air agency that protects the public from polluters! http://cityofmilwaukie.granicus.com/MediaPlayer.php?view_id=5&ev

ent_id=415

- Over the years, we have found Oregon Department of Environmental Quality's Director Pedersen accessible and thoughtful in all of our engagements. We wish him the best. Link to Oregonian article, "Dick Pedersen, Oregon's top environmental official, resigns amid air pollution scare"

- Eastside Portland Air Coalition **(A.K.A** Inner SE/NE Air Quality**) Facebook – Members: 2696**
  - **Comments:**
    - Tomorrow tomorrow tomorrow!!! See you all at noon!!! (And to highlight our theme, please consider wearing cleaning gear and bringing mops/brooms/etc. Ex. 6 - Personal Privacy will be rocking her cat apron.) We would love to have AS MANY PEOPLE AS POSSIBLE show up! Come on your lunch break! And bring signs!!! Link to event
    - A BIG IDEA: Gov. Tom McCall's landmark 1962 "Pollution in Paradise" investigative documentary helped wake the public up to the fact that Oregon's environment wasn't as clean as residents thought. Now, some 54 years later, a large number of people are once again realizing we face some vexing environmental and public health issues. Fortunately, some media have risen to the challenge and they are currently zoomed in covering specific stories. But where's the 30,000 foot view? Kolberstein's front page piece in the Tribune was a start, but when will producers and reporters at OPB television, KATU, or KOIN zoom out, follow in McCall's footsteps, and work to inform the public more broadly about our pressing environmental issues (heavy metals, diesel particulate matter, or even climate change, etc)? As I mention those outlets, I cannot help but think some enterprising reporter at KWG might actually be best suited to tackle this, after all they own Gov. McCall's legacy on the topic. (See the link for those who might be unfamiliar with this.) So that's my big idea for the day. Media folks, maybe you can pitch this to some folks you know? http://oregonencyclopedia.org/articles/pollution_in_paradise_documentary/#.Vtc4E8norS1
    - Your activism resulted in the resignation of Dick Pedersen And stopped Bullseye (permanent solution to come) from spewing metals into our neighborhoods. If we had done nothing, nothing would have changed. This is just the beginning. In my many years of activism, I have never seen such an amazing community group. Wow! EPAC rocks!!! Kick ass and take names, Ex. 6 - Personal Privacy
    - There is another step people can take to eliminate carcinogens from your yard, don't use RoundUp or other pesticides. The World Health Organization has labeled the chemical that is RoundUp – glysphosate – a "probably carcinogen." California is mandating a "May Cause Cancer" label on RoundUp and other products with this chemical. Children are

most vulnerable and it's not good for our bees either. Link to article
    - Do not eat veggies out of your yard, the advice we all get. I do not see either Bullseye coming over or the DEQ to plant this in our garden beds, but if you wonder like me what we can do ourselves..... Use protective gloves and do not let your children help..... Link to article
    - How many other things have slipped through the cracks at DEQ? 6.5 million spent to clean up land that they just lost in the shuffle...kind of like how they lost Bullseye in the shuffle. Just a fraction of that 6.5 million could buy a whole lot of air monitors. Link to article
    - I've rented a room in Brooklyn for a year,and during that time developed full-on Multiple Sclerosis. I am very interested in this issue. Thank you for adding me.
    - September 2005, Fred Cresswell, founder of Seaview Art Glass in Cazadero, California, wrote to the EPA with scathing allegations. ""I have personally been to [Bullseye] and have seen what I believe to be gross violations of the emissions standards as well as the contaminated wash down water into and on to the City of Portland," he wrote. "A few months passed. "Cresswell wrote to the EPA again..." Link to article

- South Portland Air Quality **Facebook – Members: 285**
  - **Comments:**
    - Heard from Amelia Templeton that a short version (of her new article or interviews I'm not sure) is airing on OPBs newscasts today. She's also working on a longer (4 min) radio feature on the impacts to community members who live near PCC, and hopes to get that on air by Friday. First article she has written from last night: Link to article
    - Amelia, the reporter that was at the meeting yesterday evening was very cool *smile emoticon* . Her email is: Atempleton@opb.org .
    - "At this point, we're confident saying that Precision Castparts is going to be the source of the nickel hotspot," said DEQ air quality manager David Monro. "What we don't know is what the concentrations are in the air that people are breathing." He says that DEQ needs to install an air quality monitor to learn if the emissions are unhealthy to breathe, but doesn't have a timeline for that yet. Link to article
    - BREAKING: At Milwaukie City Council meeting, DEQ's Nina DeConcini just said that DEQ will not issue a new ACDP permit for Precision Castparts (though it will be administratively extended) and that Precision has notified DEQ that they plan to install new pollution control devices in their Portland facilities. (Edited to reflect the fact that PCC doesn't have a Title V permit.)

- Airadvocacy **Facebook - Members: 54**
  - **Comments:**
    - Portland's savior? Let's draft Barry to DEQ! He could poach other smog

champions like Dr. Fine. If the AQMD wants a chief executive who goes soft on business, they should take a look at Oregon DEQ's outgoing Dick Pedersen. Link to "**Southern California smog regulator may be forced out amid shift on air board**" (Los Angeles Times)

- Right to Clean Air Facebook – **Members: 98**
  - **About:** Right to Clean Air is a group of homeowners, parents, and business owners of the Montavilla neighborhood in Portland, OR. We're dedicated to ensuring the quality of the air and noise levels are safe for everyone living the immediate and surrounding area.
  - **Comments**
    - Currently reposting content from the groups above.

Hashtags

- It does not yet appear that any one hashtag has been adopted for this issue.
  - Eastside Portland Air Coalition group is discussing the following options:
    - #airmatters
    - #EPAC2016
    - #EPAC
    - #breathclean
    - #cleanairpdx
    - #cleanairmatters
    - #filtrateorvacate
    - #bagthatstack

- Press:
  - There have been increasing press inquiries on technical issues (6S and others). Marianne had a meeting with Director of Communications from OAR and OECA to come up with a strategy. They are releasing a Holding statement.
  - DEQ has hired an outside firm to help manage their press.
  - There is some indication that DEQ may be providing more details about its ongoing process, including potentially 6S applicability. Judy Smith is on the joint press group and will stay apprised of press.
- 6S Applicability:

Ex. 5 - Deliberative Process

- We received a copy of Oregon's sampling plan (for Bullseye only it seems, not sure if there is also one for near Uroboros). Thanks Paul Koprowski. It is in Technical Info/Monitoring on the onedrive. It includes a diagram of all the monitors installed.

- Agreements with companies:
  - Dave Monro is optimistic that agreements will be done at the end of the week for Bullseye and Uroboros.
  - Northstar Glass called me again today hoping to start negotiations with OR. I gave him Keith Johnson's contact info. He is replacing Dave Monro. They are waiting to purchase controls until they are able to connect more formally with ODEQ.
- OR's incident command structure –
  - They have org charts for this project. We should consider contributing one as well. It could include 5 or so key EPA people on technical, communications, health, monitoring, cleanup, etc. This might help increase communication with OR, OHA and Multnomah

County Health. Multnomah County Health requested and would be happy to help add to the structure.
    - We are also reconsidering our contact for the Incident Management Team.
- Glass chemistry information –
    - Our path forward on other glass sources heavily relies on our ability to determine the emission rates from these facilities with various production levels and raw material usages. It is impossible to source test all glass formulas made, much less to account for different furnaces and it is hard for an ambient monitor to capture this data as well or always be in the right position to collect the plume.
    - We are instead hoping to use industry technical data about metals retained in glass to be able to conduct modeling based on metals used at each facility. For instance, if 80% of cadmium is emitted and we know they used 1000 lbs, then we can model 800 lbs of emissions in the area.
    - Liz Doyle from the Region 10 library has been gathering data with some leads from Northstar Glass. We have found a few books, a university contact, some patents and many research papers. She is collecting them all for us to review.
    - Staff for review? As one of the current national glass experts (also Susan Fairchild in RTP), I will start this process but we may not have the capacity to build the knowledge we need here. We could also consider hiring an outside consultant as well.
- Other technical information:
    - Liz is also gathering information on glass and air emissions and other metals issues. I am posting these on the onedrive (I have organized the tech folder more). There is an especially interesting article on metals emissions around Murano, Italy, an international centerpoint for art glass manufacturing.
    - I will continue to post articles on the onedrive. If you are interested in doing more scientific reading on any topic related to this metals issue, let me know and I can make sure you get the documents of interest to you.
- Other:
    - There will be a citizen demonstration in Pioneer Square in Portland outside the DEQ Headquarters tomorrow.
    - Forest Service has reached out to us again. I will be talking to Borys Tkacz, Assistant Director for Research, Forest Service, Pacific Northwest Research Station. I will report out on our call tomorrow.
    - Bullseye sent the remainder of the information I requested. We should receive it tomorrow. This completes the records requested from all companies initially.
    - Since spectrum claimed the entirety of their response CBI (unlike Bullseye and Uroboros who made more reasonable claims), we are moving to have Spectrum substantiate their CBI claim. We will be sending a letter soon.
    - OR is looking at the moss hotspots and trying to make sure they have identified all of the sources. There are several spots without clear contributing sources currently.
    - Gayle Hagler shared a presentation on the monitoring they have been doing as part of her monitoring project in NJ. I am putting on the onedrive. May be an interesting resource as we consider other monitoring efforts.
    - We have also narrowed the Keller Rohrback FOIA. We hope to distribute instructions

for both FOIAs soon. Keller Rohrback has excluded internal communications.

To: McClintock, Katie[McClintock.Katie@epa.gov]; Barber, Anthony[Barber.Anthony@epa.gov]; Townsend, Tom[Townsend.Tom@epa.gov]; Poland, Melody[Poland.Melody@epa.gov]
Cc: Holsman, Marianne[Holsman.Marianne@epa.gov]
From: Smith, Judy
Sent: Wed 3/2/2016 11:52:11 PM
Subject: Fw: Citizen Demo outside DEQ HQ Tomorrow 3/3/16

FYI - This demonstration will be in Pioneer Square. At this time it appears that only DEQ is being targeted. Please distribute to your networks as appropriate. Judy

---

From: FLYNT Jennifer <FLYNT.Jennifer@deq.state.or.us>
Sent: Wednesday, March 2, 2016 3:24 PM
To: 'Modie Jonathan N'; Smith, Judy; WICKSTROM Susan D; Sara.Hottman@portlandoregon.gov; DANAB.Marcia@deq.state.or.us; Cowie Robb; Julie SULLIVAN-SPRINGHETTI; cmiles@pps.net; 'ysands@fs.fed.us'
Cc: GEBBIE ERIC N; NAVAS Melissa * GOV; GOLDFARB Gabriela * GOV; 'Anna Richter Taylor'
Subject: Citizen Demo outside DEQ HQ Tomorrow 3/3/16

FYI. Please let me know if you want to talk about this. I'm on point to accept accept any communications that may be delivered to DEQ tomorrow during this rally and to support staff. I have not talked to media about this yet.

Thanks, J

Tomorrow, Thursday, March 3rd, a demonstration related to air emissions from Portland glass manufacturers is planned by the Eastside Portland Air Coalition.

The demonstration is planned between the hours of 12:00 and 1:00 with the initial rally beginning in Pioneer Square. According to the web site, a letter is to be delivered to the DEQ which I assume will mean that some or all of the demonstrators will seek to enter our building and arrive on the 10th floor to deliver their document.

We expect this demonstration and subsequent letter delivery to be responsible and within the limits of the law. However, we have taken steps to alert the Portland Police Bureau and our property manager as a precautionary step to ensure the safety of all involved. Please be extra vigilant as you exit the building elevators onto one of our secure floors tomorrow or enter the floors through the stairwell doors. If an unrecognized & unauthorized person enters, they need to be escorted off the floor. If you witness someone gaining entry to one of our secure floors and if you feel comfortable doing so, please ask the person if you can help them and direct them to

the 10th floor or out of the building. If you do not feel comfortable doing this, please let me know right away and we will respond as needed.

Thank you all!

Todd Brown

Health & Safety Team Leader

Facilities Coordinator

Worker's Compensation

(503) 229-6160

Fax (503) 229-5787

To: Smith, Judy[Smith.Judy@epa.gov]; Holsman, Marianne[Holsman.Marianne@epa.gov]; Hastings, Janis[Hastings.Janis@epa.gov]; McClintock, Katie[McClintock.Katie@epa.gov]; Koprowski, Paul[Koprowski.Paul@epa.gov]
Cc: Townsend, Tom[Townsend.Tom@epa.gov]; McLeod, Julianne[McLeod.Julianne@epa.gov]; Bent, Sara[Bent.Sara@epa.gov]
From: Barber, Anthony
Sent: Wed 3/2/2016 9:09:01 PM
Subject: RE: NEW CMS regarding metals in air attached.
Glass Air Toxics Public Email Response PABST CMS 03 02 2016.docx

I have drafted a revision to our previous reply to be responsive to this specific CMS response. The substantive changes are in **bold**. Please let me know what you think.

Anthony L. Barber, PE
Director
Oregon Operations Office
US EPA Region 10
805 SW Broadway, Suite 500
Portland, OR 97205

503-326-6890 (phone)
503-326-3399 (fax)
barber.anthony@epa.gov

From: Bent, Sara
Sent: Wednesday, March 02, 2016 10:51 AM
To: Barber, Anthony <Barber.Anthony@epa.gov>
Cc: Townsend, Tom <Townsend.Tom@epa.gov>; Hastings, Janis <Hastings.Janis@epa.gov>; McLeod, Julianne <McLeod.Julianne@epa.gov>
Subject: NEW CMS regarding metals in air attached.

Tony,

I have attached the CMS records for you to review. I cannot reassign this CMS to you until the CMS Headquarters folks can fix my CMS database. Because this is a time-intensive CMS with no extensions, I thought I go ahead and send you the information now.

Once my CMS database is updated, I will reassign this CMS to your office. Thank you for understanding.

Sara Bent

Air Quality Office Manager

US Environmental Protection Agency

Suite 900, M/S OAWT-150

1200 Sixth Avenue

Seattle, Washington 98101

(206) 553-6350, (206) 538-4402

Bent.sara@epa.gov

To: Averback, Jonathan[Averback.Jonathan@epa.gov]; Barber, Anthony[Barber.Anthony@epa.gov]; Barnett, Keith[Barnett.Keith@epa.gov]; Bray, Dave[Bray.Dave@epa.gov]; Bremer, Kristen[Bremer.Kristen@epa.gov]; Cunningham, Roylene[Cunningham.Roylene@epa.gov]; Dalrymple, Anne[Dalrymple.Anne@epa.gov]; Davis, Alison[Davis.Alison@epa.gov]; Davis, Matthew[Davis.Matthew@epa.gov]; Doster, Brian[Doster.Brian@epa.gov]; Downey, Scott[Downey.Scott@epa.gov]; Fairchild, Susan[Fairchild.Susan@epa.gov]; Field, Chris[Field.Chris@epa.gov]; Fleming, Sheila[fleming.sheila@epa.gov]; Franklin, Richard[Franklin.Richard@epa.gov]; Fried, Gregory[Fried.Gregory@epa.gov]; Froikin, Sara[Froikin.Sara@epa.gov]; Hall, Chris[Hall.Christopher@epa.gov]; Hastings, Janis[Hastings.Janis@epa.gov]; Hedgpeth, Zach[Hedgpeth.Zach@epa.gov]; Holsman, Marianne[Holsman.Marianne@epa.gov]; Ingemansen, Dean[Ingemansen.Dean@epa.gov]; Johnson, Steffan[johnson.steffan@epa.gov]; Kaetzel, Rhonda[Kaetzel.Rhonda@epa.gov]; Keenan, John[keenan.john@epa.gov]; Koerber, Mike[Koerber.Mike@epa.gov]; Koprowski, Paul[Koprowski.Paul@epa.gov]; Kowalski, Ed[Kowalski.Edward@epa.gov]; Leefers, Kristin[Leefers.Kristin@epa.gov]; Lynch, Kira[lynch.kira@epa.gov]; Martenson, Eric[Martenson.Eric@epa.gov]; Matthews, Julie[Matthews.Juliane@epa.gov]; McLerran, Dennis[mclerran.dennis@epa.gov]; Mitchell, Ken[Mitchell.Ken@epa.gov]; Moon, Wally[Moon.Wally@epa.gov]; Narvaez, Madonna[Narvaez.Madonna@epa.gov]; Owens, Katharine[Owens.Katharine@epa.gov]; Page, Lee[Page.Lee@epa.gov]; Palma, Ted[Palma.Ted@epa.gov]; Pirzadeh, Michelle[Pirzadeh.Michelle@epa.gov]; Rimer, Kelly[Rimer.Kelly@epa.gov]; Rodman, Sonja[Rodman.Sonja@epa.gov]; Smith, Judy[Smith.Judy@epa.gov]; Stern, Allyn[Stern.Allyn@epa.gov]; Stewart, Michael[Stewart.Michael@epa.gov]; Stifelman, Marc[Stifelman.Marc@epa.gov]; Taylor, Kevin[Taylor.Kevin@epa.gov]; Terada, Calvin[Terada.Calvin@epa.gov]; Terry, Sara[Terry.Sara@epa.gov]; Thrift, Mike[thrift.mike@epa.gov]; Throwe, Scott[Throwe.Scott@epa.gov]; Tonel, Monica[Tonel.Monica@epa.gov]; Wendel, Arthur[Wendel.Arthur@epa.gov]; Williamson, Ann[Williamson.Ann@epa.gov]; Wroble, Julie[Wroble.Julie@epa.gov]; Yellin, Patrick[Yellin.Patrick@epa.gov]
From: McClintock, Katie
Sent: Wed 3/2/2016 5:26:34 AM
Subject: Color Glass Daily Update 3-1-16
Daily Update 3-1-16.docx
Media Monitoring Report Metal Release 02.29.2016.docx
Media Monitoring Report Metal Release 03.01.2016.docx

Big News: Dick Pederson retiring and Dave Monro is leaving DEQ

I am also attaching today's media report and yesterday's because I forgot to include in the email. They are all on the onedrive as well.

Katie McClintock

Air Enforcement Officer

EPA Region 10

1200 Sixth Avenue, Suite 900, OCE-101

Seattle, WA 98101

Phone: 206-553-2143

Fax: 206-553-4743

Mcclintock.katie@epa.gov

Media Monitoring Report – Metal Release

Social and Traditional Media

February 27-29, 2016

Good Morning –

This is a situation specific media monitoring report relating to the Portland metals release. This report contains both traditional and social media sources.

Nick on behalf of the HSPR Team

Traditional Media (Provided by: Nick May)

Political

- Merkley mixes policy, politics, personal **(Portland Tribune)**
- Oregon Legislature nears end: Which bills are alive, dead and somewhere in between **(OregonLive)**

Environment

- Portland's toxic air: What you need to know, Feb. 27 **(OregonLive)**
- Heavy metals in your body? There's a test for that **(KRQE)**
- Watch: A look inside Bullseye Glass, company at center of Portland toxic air alarm **(OregonLive)**

Related topics

- Erin Brockovich joins Portland air quality fight **(KOIN)**
- Class action lawsuit may be coming for Portland glass companies **(KGW)**
- Regulators Not Worried About Pollution From Seattle Area's Artistic Glassmaker **(OPB)**

Social Media (Provided by: Julie Black)

Online Groups – What they are discussing within the last 24 hours. NOTE: This is not an exhaustive list. There is more conversation online that what is represented here.

- Neighbors for Clean Air **Facebook.**
  - **Comments:**
    - DEQ's Air Program should protect public health not its own image. Link to more on their web page.
    - Portland Air Toxics will be back on KATU News Your Voice Your Vote this morning @9am. It will feature a discussion of the $2.5M DEQ Air Program budget proposal with Dr. Linda George, Rep. Nosse, Rep. Keny-Guyer, and Mary Peveto. Tune in! http://katu.com/news/your-voice-your-vote
    - Picture worth a thousand words. Thank you to all the amazing neighbors and friends who have brought their talents forward! Ex. 6 - Personal Privacy you

bring the faces of this crises to everyone. Thank you! (Image: pregnant woman in gas mask)

- Link to Ex. 6 - Personal Privacy *to* Eastside Portland Air Coalition (Inner SE/NE Air Quality) February 26 at 10:45am · Feel free to share! I am working on a series of images telling our story and fearturing neighbors telling our stories. Please PM me if you would like to participate. Could really use parents, families, kids, gardeners, people with health issues, etc.!

- So many people have told their stories these last few weeks, told the stories of fear and anxiety for their children and themselves. Something is in the air. And it isn't all toxic, it is change. Thank you Sheryl for being so brave and strong and eloquent.
  - Link to more.

- Eastside Portland Air Coalition **(A.K.A** Inner SE/NE Air Quality**) Facebook**
  - **Comments:**
    - Help, we need YOU! For those of you out there who want to do something in regard to the air crisis in the Portland area, here are two things you can do this week that will make a difference: 1) Go to the Milwaukie City Council Meeting in regard to Precision Cast Parts or any of the other neighborhood meetings taking place this week (look at the side bar about upcoming events for details) 2) Help us spread the message in a visual form- Ex. 6 - Personal Privacy needs people who will pose for some shots in his studio for some visuals he's creating. He needs people so please message him. It's only takes 10 minutes and he has everything set up. Only a few people have signed up for this. This is really an important messaging strategy that needs a variety of faces! Ex. 6 - Personal Privacy
    - I invite all concerned citizens to come to the Milwaukee City Council Meeting at 6pm March 1 to discuss the permit renewal of Precision Cast Parts, specifically the factory at 5001 SE Johnson Creek Blvd known as PCC Structurals. The DEQ permit is up for renewal in a month. We need to ask for an emergency public comment meeting with players involved and this City Council meeting is the place to start! The factory produces an almost 2 mile hot spot of arsenic and nickel. It also emits chromium, aluminum, and more into the air! This affects all of Portland! Please join together!
    - March 3, 2016 DEQ Clean Up Your Act. Event details: Please join members of our community as we rally around specific air quality demands, and hand deliver a letter to the Department of Environmental Quality. Participants are invited to bring signs and loud voices. We will meet on the southeast corner of Pioneer Square. "Each time a man stands up for an ideal, or acts to improve the lot of others, or strikes out against injustice, he sends forth a tiny ripple of hope, and crossing each other from a million different centers of energy and daring those ripples build a current which can sweep down the mightiest walls of oppression and resistance." ~ Bobby Kennedy

- Can I do soil test myself? Can anyone assist me w how/where to buy these? Also tests for myself & dog? Thank you! Just bought a house near Cleveland community field. Blessings xo
- Here are the details on the legislature's proposed allocation to DEQ for the air toxics program. This request was included in the budget reconciliation bill (SB 5701) by the full Committee on Ways & Means on Thursday. If the Legislature approves SB 5701, DEQ will be allocated approximately $2.5M in the remainder of the 2015–17 biennium (with some funds committed for 2017-2019) to fund 12 positions for additional monitoring and for the implementation of a health/risk-based permitting program for industrial emissions (that is very significant!), along with funding for monitoring equipment, legal costs, and outside professional services. This is a hugely important step in the right direction, and comes as a result of the public outcry by many people on this FB page. It is virtually impossible to change the budget at this late stage, since the Ways and Means Committee just shut down and we are headed into our final week of the 2016 session. But we are fortunate this was able to be included.... thank goodness for annual sessions - and for your activism. Please stay engaged to ensure the funds are spent wisely and that we use the next year to examine how to address the regulatory gaps at the federal, state, and local level, and how to prioritize funds for the following biennium, to be decided by the 2017 legislature. Oregon Air Toxics Program: The Oregon Air Toxics Program is a statewide effort to reduce air toxics emissions from multiple sources across Oregon. It relies on the health based air toxics benchmarks adopted by the Oregon Environmental Quality Commission (which are revised periodically for new information). Monitoring is used to determine if benchmarks are met or exceeded. Air toxics that exceed the benchmarks, which many do, are analyzed and prioritized by DEQ for future action. In 2009, DEQ began the Portland Air Toxics Solutions study to better understand and address multiple air toxics in the metro area. Since the completion of the study, DEQ has been working to identify specific areas of concern and develop response actions. This funding request will ramp up existing work to focus on the immediate response to the cadmium, arsenic and chromium hotspots in Portland. In addition, it will allow DEQ to do more air toxics monitoring and analyses in the Portland metro area as well as elsewhere in Oregon. Another component of this request is to fund a rulemaking that will create a risk-based approach to air permitting for industrial sources. This money will be used for a rule writer, advisory group facilitation, and a consultant who can assist Oregon in developing and implementing risk-based rules. Over time, these additional resources will enable DEQ to modify existing air permits to be risk-based. Money will also be used to provide technical support to businesses to help them better understand the level of risk associated with their operations, their manufacturing inputs and determine if there are less toxics alternatives or more effective emission controls / operational changes. This request includes resources to support ongoing air toxics work in Portland and allows DEQ to expand efforts in other parts of Oregon. Other staff will be used to understand the results of the monitoring data, developing actions plans to reduce emissions, working with OHA and local governments on health risks, and assist in sharing information with the public and businesses. The Oregon

Air Toxics Program will typically monitor for all air toxics. However, the rulemaking and related business assistance will focus on industrial emissions. The overall intent of the program is to complement other existing DEQ efforts to manage air toxics from sources such as wood smoke and diesel. Air toxics monitoring and analysis resources. In order to investigate concerns about air toxics, in particular metals, DEQ needs resources for additional monitoring sites, data analysis and project oversight. The additional staff would allow DEQ to collect information to establish areas of concern state-wide, to prioritize those areas based on the information, to establish two new monitoring sites which sample for a full suite of air toxics that can be rotated around the state and to analyze the massive amount of DEQ collected data and any third party data that may come to DEQ. The request also includes two metals only monitoring sites that will be mobile. Moss collection and analysis: The recent toxics USFS monitoring study using moss collection showed DEQ how valuable their method can be. Moss is a natural pollution collection filter that is being used by the USFS to map pollutant levels in forests. DEQ would like to use this powerful method to map pollution levels in communities. The resulting pollutant maps would allow DEQ to zero in on pollutant hot spots quickly and accurately, enabling the agency to work with the regulatory community to effectively reduce health risk from air toxics. This method has been correlated with air toxics monitored data in Portland and can be used to create health risk maps in many Oregon communities. Follow-up air toxics monitoring can be done for shorter duration to verify the moss data and improve the risk maps. Air toxics and particulate assessment monitoring: DEQ needs additional monitoring resources to assess air toxic metals hot spots identified by the moss studies and the Portland Air Toxics Solutions model and to assess particulate matter risks at the same time. Currently, more locations need monitoring than DEQ has staff or equipment to deploy. In order to accurately assess the conditions at a location, monitoring equipment must be deployed and maintained for anywhere from as little as three months to as long as a year. Once enough data has been collected, we move the equipment to the next area of concern. The additional staff and equipment would allow DEQ to have two additional metals sites that can be run concurrently. The additional full air toxics sites would allow DEQ to monitor for metals along with volatiles, polyaromatic hydrocarbons and carbonyls/ketones. Currently, DEQ only has two full air toxics mobile sites that can be moved around. Due to the number of areas of concern and the length of time a site needs to operate, DEQ is limited in its ability to investigate multiple hot spots at once. The additional sites would be mobile and allow us to monitor more hot spots concurrently instead of waiting, potentially a year or more, before being able to provide monitoring data. These full range air toxics sites combined with the two metals only sites would allow multiple hot spots to be investigated in greater detail. Meanwhile, moss studies will be used to identify other areas of concern, which would warrant more detailed monitoring. A prioritized list of sites would be generated and used to guide the deployment of our air toxics monitors. Ambient monitoring coordinator/data analysis: DEQ has limited capacity to coordinate all ambient air quality monitoring efforts with EPA, DEQ regions and headquarters, other state and local agencies, and the public along with

analyzing all of the data that is generated from the sites and data supplied to DEQ from third parties. Another position is required to properly create comprehensive and vetted monitoring plans and to produce the information in a format that is useful for decision makers and the public. This is a key position to ensure that we are continuously spending our resources collecting, analyzing and supplying timely and accurate information. Summary of resource request for monitoring:
Natural Resource Specialist 3 - for monitoring coordination and data analysis – full-time, permanent, beginning May 1, 2016
Natural Resource Specialist 2 (3 positions) - for field monitoring – moss and air toxics – full-time, permanent, beginning May 1, 2016
Chemist 2 - for sample analysis – full-time, permanent, beginning May 1, 2016
Chemist 3 - for sample analysis – full-time, permanent, beginning May 1, 2016
Capital Outlay – $350,000 for field monitoring equipment in the 2015-2017 biennium and $150,000 in the 2017-2019 biennium
Professional Services - $40,000 in the 2015-2017 biennium for outside Laboratory analysis and $60,000 in the 2017-2019 biennium. Rule making and program implementation resources. DEQ will, using our current statutory authority, expeditiously and thoughtfully craft an Oregon specific program through rule making that ensures industrial hot spots are sufficiently controlled. Like all rule making, it will be data and science driven and ensure input from communities, health agencies and regulated parties to help define the specifics of this program. Geographic area, levels of protectiveness and timeline for implementation will be considerations of this robust program. The program will also provide a platform for discussion with local governments about their potential roles and levels of formal or informal involvement. Summary of resource request for rule making, technical assistance, data analysis, coordination and communication positions: Principal Executive Manager E – permanent, full-time, begins May 1, 2016 - Supervise the Oregon Air Toxics program staff. Focus on planning for statewide program implementation and vision; high level stakeholder engagement; agency spokesperson for topic area; interaction and alignment with permitting needs; ensure communication with and alignment to regional needs and activities.
Program Analyst 3 – permanent, full-time, begins May 1, 2016 – Stakeholder coordination for rulemaking; principal rule writer; work with manager for planning program implementation; liaison to OHA on data interpretation and health messaging; liaison to local governments.
Natural Resource Specialist 4 – permanent, full-time, begins May 1, 2016 – in consultation with laboratory staff, reviews monitoring data and results and uses this information to prioritize efforts by the Oregon Air Toxics Program to adequately regulate sources of air toxics, coordinate with other agencies (especially OHA), and assist businesses in managing and reducing air toxics emissions.
Natural Resource Specialist 3 – permanent, full-time, begins May 1, 2016 – position provides direct technical assistance to sources on permit requirements and emission reduction processes and technologies.
Operations and Policy Analyst 1 – permanent, full-time, begins May 1,

2016 - position provides technical and administrative support for the section including advisory committees, coordinating communications, meetings, meeting minutes and general rule development.
Public Affairs Specialist 2 – permanent, full-time, begins May 1, 2016 – coordinates all communications for the program with the public and businesses including press releases, web, social media, documents and reports.
Professional Services - $200,000 – provides funding for a facilitator for the rulemaking and a national expert to advise on industrial control technologies.
Attorney General fees - $100,000 – legal costs will be extensive as DEQ develops rules for a ground-breaking program.

- AirAdvocacy **(Facebook)**
  - **Comments:**
    - Oregon Representative Rob Nosse drops in on a meeting of the Eastside Portland Air Coalition today...**https://youtu.be/lgoiqkp1lms**
    - "The sample at Cleveland High School tested at 36 times the state's safety guidelines for arsenic and 11 times the threshold for lead... It's also possible it's a false hot spot" **Link to Oregonian article**.

- South Portland Air Quality **(Facebook)**
  - **Comments:**
    - Event page for Tuesday's Milwaukie City Council meeting created by allies in Eastside Portland Air Coalition.
    - DEQ: Clean Up Your Act. Please join members of our community as we rally around specific air quality demands, and hand deliver a letter to the Department of Environmental Quality. Participants are invited to bring signs and loud voices. We will meet on the southeast corner of Pioneer Square. "Each time a man stands up for an ideal, or acts to improve the lot of others, or strikes out against injustice, he sends forth a tiny ripple of hope, and crossing each other from a million different centers of energy and daring those ripples build a current which can sweep down the mightiest walls of oppression and resistance." ~ Bobby Kennedy
    - Ex. 6 - Personal Privacy **Portland's manufacturing da Vinci?**
    - Ex. 6 - Personal Privacy just posted this in a comment from another post: "Questions to ask every official we talk to: what is the emergency plan in case there is a HazMat incident at PCC? Do firefighters have the information they need? Does the community? Where are the MSDS (Material Safety Data Sheets) from Precision Castparts?" These are really important questions for our community. As you make calls and write letters please be sure to ask about the safety measures.
    - **Thursday night at Benson. Debate on Portland's environmental priorities**.
    - (EPA) Eastside Plating - I post this because they are in the area and plating companies are notorious dirty industries. What companies report discharging and what they really do discharge can be different, intentionally or not.
    - (EPA) Precision Cast Parts' right to know toxics release inventory.

- We've made some progress in getting a Tubman/Cleveland style meeting for our area. We are working with the county on the details. I'll post the date and info as soon as everything is firmed up. Stay tuned!
- **Eat pizza & discuss clean air** – event.
- "DEQ officials say they have not yet received validated moss data for lead and nickel from the Forest Service. When the final data is available, the agency plans to do additional air monitoring. At a legislative hearing Tuesday, DEQ's Pedersen acknowledged another metals hotspot near Precision Castparts in Southeast Portland" **Link to article**.
- To my mind there are 4 important questions to ask all officials and those concerned like the media: 1. Is PCP polluting? (I believe the answer can be shown to be yes.) 2. Can they stop polluting? (I don't know. I posted earlier an EPA brochure about metal cast parts pollution and how to filter it.) This would include constant fence post monitoring of pollution and records that are available to the public. 3. If Number 2 cannot be answered, who has the authority to stop them from polluting by stopping their production or asking them to move to an area without such a high population density. 4. If they cannot be persuaded to stop polluting and public officials will not help us what legal recourse do we who live in the area have?
- **Check out this site!** The Emergency Planning and Community Right-to-Know Act (EPCRA) was passed by Congress in response to concerns regarding the environmental and safety hazards posed by the storage and handling of toxic chemicals.
- Hello neighbors! I am a 30 year pro photographer and am shooting an air pollution awareness campaign in the style of the highly successful one I created with Clean Water Portland in 2013. If you or anyone would like to tell their story please check out the details on the event page. Feel free to PM me to schedule a time. This will help put a human face on our crisis. NOTE: I will be shooting most afternoons this week. **Link to event**.

Hashtags

- It does not yet appear that any one hashtag has been adopted for this issue.
  - Eastside Portland Air Coalition group is discussing the following options:
    - #airmatters
    - #EPAC2016
    - #EPAC
    - #breathclean
    - #cleanairpdx
    - #cleanairmatters
    - #filtrateorvacate
    - #bagthatstack

- Big changes in OR:
  - Dick Pederson is retiring effective mid-March
  - David Monro (manager of permit writers and main point on this issue) is leaving DEQ, also effective mid-March.
- 6S

Ex. 5 - Deliberative Process

- OR proposed negotiated order and ambient action levels:
  - Several of us met today (health folks in EPA, RTP and R10 enforcement) to discuss the proposed structure with action levels based on ambient concentrations.
  - Julie Wroble has been giving feedback to OR and they are revising their action levels. We have not seen a new draft but it sounds like they are addressing Julie's concerns.
  - Julie will continue to stay engaged with OR's health folks and give thoughts on the action levels they set. We have not seen (and may not see) the draft order before it is final, given their deadlines.
- FOIA Next steps:
  - Further conversations with ECL will happen on Thursday and then there will be instructions provided for people who have responsive documents.
- More Press inquiries:
  - OPB has been calling around and found me today. They asked a lot of detailed questions about 6S, controls, spectrum, Bullseye, and Uroboros. Their lead question was asking if I had inspected bullseye. I forwarded the request to Marianne and am not sure our plan for a response.
  - Scott Throwe in OC also has received several calls from the Mercury writer and R10 and OC press are coordinating.
  - We also responded to a press request about Title V applicability and 6S.
- Other
  - Alex Chow in Region 3 is taking the lead for organizing the regions response to the Janet McCabe letter. She has sent out further information and several people in R3 are coming up to speed.
  - Dr Breysse (Director of ATSDR) is meeting with Senators Wyden, Merkley, and Blumenauer on Thursday of this week.
  - OR is working more on their community outreach and considering more proactive messaging and even attending farmers markets.
  - Anyone know a Gayle in Office of Research and Development? If you do, please send her contact information to me. She would have done some work on air monitoring in

Chicago recently.

Media Monitoring Report – Metal Release

Social and Traditional Media

March 1, 2016

Good Morning –

This is a situation specific media monitoring report relating to the Portland metals release. This report contains both traditional and social media sources.

Nick on behalf of the HSPR Team

Traditional Media (Provided by: Nick May)

Environment

- THE AIR WE BREATHE: Dangerous contaminants found hovering over the city **(Portland Tribune)**
- Complaints about Bullseye Glass air pollution date back to 1980s **(OPB)**
    - Complaints About Bullseye Glass Air Pollution Date Back to 1980s **(KUOW)**
- Read: What the state has known about Bullseye Glass since 1984 **(OregonLive)**
- How does Portland's air quality compare to other cities? **BLOG (Portland Business Journal)**

Related topics

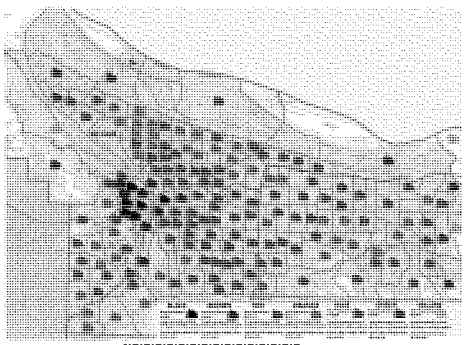
- Vigor sacrifices $1M annually for Portland's air, environment **BLOG (Portland Business Journal)**

Social Media (Provided by: Julie Black)

Online Groups – What they are discussing within the last 24 hours. This report is not exhaustive.

- Neighbors for Clean Air **Facebook – Members: 1862**
    - **Comments:**
        - Thank you The Oregonian and Rob Davis for doing what our state won't do! Give us access to the public records. Oregon Department of Environmental Quality, you can not hide toxic pollution under your intentional incompetence. Link to: Read: What the state has known about Bullseye Glass since 1984 **(OregonLive)**
        -
- Eastside Portland Air Coalition **(A.K.A** Inner SE/NE Air Quality**) Facebook – Members: 2653**
    - **Comments:**
        - Vigor sacrifices $1M annually for Portland's air, environment
        - New article in the SE Examiner by Scott Fernandez, "Portland's toxic

air: A public health crisis"

- Oh no no no. The Portland 2035 plan is out. Attached here is the plan for SE Portland. Take a look at Page 3... "Expand Industrial Protections. Protect the ability for industrial businesses to operate and invest by ensuring that new residential and industrial office development does not have the ability to file actionable complaints regarding noise, fumes, light, hours of operation, truck traffic, or other aspects of industrial operations that are conducted in a lawful manner under city code." WTFWTFWTF Link
- Another takeaway from my data crunching: The air for 300,000 Portlanders is worse than the air in 90 percent of the United States. This is green Portland, which Grist magazine said in 2008 was the second most sustainable city in the world!
- Just got off the phone with a representative from Weitz & Luxenberg! Was told they are indeed taking the case and should have everything finalized by Friday! They are sending me a retainer. So excited to have someone actually listen to me about my health issues. If you have health issues related to this, I would highly recommend filling out their 'review my case' form on their website.
- More than 670,000 Portlanders live in areas with air that is among the 40 percent most toxic in the United States based on cancer risk, according to the EPA. My map of air pollution in Portland neighborhoods in today's Portland Tribune.
  - 
- ***PARENTS*** Ex. 6 - Personal Privacy will be doing a photo shoot on Friday afternoon of children in affected neighborhoods. I'll be there with my infant, and I'd love for others to join in. Parents will need to sign a model release form, and all children are asked to come with completed signs. PM Ex. 6 - Personal Privacy if you'd like to attend and with what times you are available, and he will send you the session time and the address. (If you have a child who is too young to hold a sign, it would be great if you could be in the picture as well!)

Ex. 6 - Personal Privacy

- Has anyone considered a ballot initiative in response to this crisis.
  I'm not sure if there's enough clarity/consensus about what's to be done to craft a change in statute.... But an initiative campaign would :
  a) keep this in the news
  b) get people organized/organizing
  c) turn up the heat on Salem lawmakers I'm literally just throwing this out here. But the bar to qualify an initiative -- ~88,000 valid signatures by July -- doesn't seem totally undoable. Link
- Isn't today the DEQ's own imposed deadline for getting a full list of all company's utilizing and potentially emitting Hexavalent Chromium (CR VI)? What is the over under on them actually publishing something today?
- Curious if anyone is keeping track of people with existing health conditions in this group? Wondering about which diseases and percentages as it relates to exposure.
- Hello Ex. 6 - Personal Privacy I am following up on a request I have made several times in the past few weeks asking DEQ to put forward someone to act as a designated liaison for the Eastside Portland Air Coalition. Our grassroots citizen organization, formed in the wake of revelations of "alarmingly high" levels of toxic heavy metals around two glass factories in Portland, has now grown to a membership of over 4000 people. We have been in continuous contact with the Governor, Portland city officials, our Senators & Representatives in both Salem & DC, your office, the Oregon Health Authority, Multnomah County Health Department as well as other air quality advocacy organizations and neighborhood associations in Portland who are confronting this and other air pollution issues affecting us every day. Because our organization is growing by the day, and because we are taking ourselves seriously, working tirelessly, setting aside our daily concerns to advocate for each other and our families, we most respectfully request that you take us seriously as well. We are not an ignorant, pitchfork waving rabble: we are parents and grandparents, young and old, frail and vulnerable, ailing and strong citizens of our beloved city and we are becoming more literate every day on every aspect of this latest wake-up call. We would very much like to establish a transparent and respectful working relationship between your organization and ours. Please consider again, if you will, designating someone from your office to work with our group on this situation as it

unfolds, to field our concerns and keep us up to date on what/where/when of the DEQ's work on this important health issue. Thank you so much. Your timely reply, one way or the other, would be greatly appreciated.

- South Portland Air Quality **Facebook – Members: 267**
  - **Comments:**
    - Just got back from my daughter's pediatrician. We ordered the urine panel that was formulated for glass factories. During our wait for the lab, the pediatrician said that she received an email about nickel being a test OHA is able to monitor. It's a urine test. Nickel does have a long half-life like cadmium. She also wondered why they're still getting away with this! Updating to post this link: **https://public.health.oregon.gov/newsadvisories/Documents/se-portland-metals-emissions-physician-guidance.pdf**
    - Does anyone know if someone from DEQ will be at tonight's Milwaukie meeting?
    - Sacrifices? We are the ones who are sacrificing our health so they can operate.. Still, it highlights that some industries are doing something. Would love to hear what Vigor's air toxic footprint is. **Link to Portland Business Journal Blog**
    - Portland Metal Exposures Interim Clinical Update February 29, 2016 From DEQ, OHA, Mult Co. Concern for Human Health Risk "A complete assessment of this situation will take several months to complete. Until then we cannot estimate the risk, if any, from exposure near these sites. ....Toxicity of Arsenic, Cadmium, Chromium , and Nickel...The 4 attached brief ToxGuidesTM provide more detail on each of these metals. " **Link**
    - Link to Switchboard: Natural Resources Defense Council Staff Blog, John Walke's Blog, **"EPA: "Toxic air pollution? Cancer? Whatever."**
    - "THERE IS SOMETHING BAD GOING ON THERE." *** If you live nearby a polluter, and you smell or taste the emissions or have other concerns, please file a complaint with DEQ. It's important to build a paper trail, and for every complaint filed, I'm sure there's dozens of people who've thought "that's not right" but have done nothing about it. Case in point, I've ran/bike commuted several times by Bullseye and recall thinking exactly what one complainant mentioned in this article, that you could smell it and it was unique. I should have took a few minutes to think about complaining. Now I know better... **http://www.deq.state.or.us/complaints/**

- Airadvocacy **Facebook - Members: 49**
  - **Comments:**
    - Every day a new map – they're scaring the crap outta me **http://pamplinmedia.com/.../295673-172653-the-air-we-breathe-...**
    - A giant step toward cleaner air – let's "Oslo" Portland! Link to Washington Post article, **"The car century was amistake. It's time to move on."**

Hashtags

- It does not yet appear that any one hashtag has been adopted for this issue.
    - Eastside Portland Air Coalition group is discussing the following options:
        - #airmatters
        - #EPAC2016
        - #EPAC
        - #breathclean
        - #cleanairpdx
        - #cleanairmatters
        - #filtrateorvacate
        - #bagthatstack

To: Averback, Jonathan[Averback.Jonathan@epa.gov]; Barber, Anthony[Barber.Anthony@epa.gov]; Barnett, Keith[Barnett.Keith@epa.gov]; Bray, Dave[Bray.Dave@epa.gov]; Bremer, Kristen[Bremer.Kristen@epa.gov]; Cunningham, Roylene[Cunningham.Roylene@epa.gov]; Dalrymple, Anne[Dalrymple.Anne@epa.gov]; Davis, Alison[Davis.Alison@epa.gov]; Davis, Matthew[Davis.Matthew@epa.gov]; Doster, Brian[Doster.Brian@epa.gov]; Downey, Scott[Downey.Scott@epa.gov]; Fairchild, Susan[Fairchild.Susan@epa.gov]; Field, Chris[Field.Chris@epa.gov]; Fleming, Sheila[fleming.sheila@epa.gov]; Franklin, Richard[Franklin.Richard@epa.gov]; Fried, Gregory[Fried.Gregory@epa.gov]; Froikin, Sara[Froikin.Sara@epa.gov]; Hall, Chris[Hall.Christopher@epa.gov]; Hastings, Janis[Hastings.Janis@epa.gov]; Hedgpeth, Zach[Hedgpeth.Zach@epa.gov]; Holsman, Marianne[Holsman.Marianne@epa.gov]; Ingemansen, Dean[Ingemansen.Dean@epa.gov]; Johnson, Steffan[johnson.steffan@epa.gov]; Kaetzel, Rhonda[Kaetzel.Rhonda@epa.gov]; Keenan, John[keenan.john@epa.gov]; Koerber, Mike[Koerber.Mike@epa.gov]; Koprowski, Paul[Koprowski.Paul@epa.gov]; Kowalski, Ed[Kowalski.Edward@epa.gov]; Leefers, Kristin[Leefers.Kristin@epa.gov]; Lynch, Kira[lynch.kira@epa.gov]; Martenson, Eric[Martenson.Eric@epa.gov]; Matthews, Julie[Matthews.Juliane@epa.gov]; McLerran, Dennis[mclerran.dennis@epa.gov]; Mitchell, Ken[Mitchell.Ken@epa.gov]; Moon, Wally[Moon.Wally@epa.gov]; Narvaez, Madonna[Narvaez.Madonna@epa.gov]; Owens, Katharine[Owens.Katharine@epa.gov]; Page, Lee[Page.Lee@epa.gov]; Palma, Ted[Palma.Ted@epa.gov]; Pirzadeh, Michelle[Pirzadeh.Michelle@epa.gov]; Rimer, Kelly[Rimer.Kelly@epa.gov]; Rodman, Sonja[Rodman.Sonja@epa.gov]; Smith, Judy[Smith.Judy@epa.gov]; Stern, Allyn[Stern.Allyn@epa.gov]; Stewart, Michael[Stewart.Michael@epa.gov]; Stifelman, Marc[Stifelman.Marc@epa.gov]; Taylor, Kevin[Taylor.Kevin@epa.gov]; Terada, Calvin[Terada.Calvin@epa.gov]; Terry, Sara[Terry.Sara@epa.gov]; Thrift, Mike[thrift.mike@epa.gov]; Throwe, Scott[Throwe.Scott@epa.gov]; Tonel, Monica[Tonel.Monica@epa.gov]; Wendel, Arthur[Wendel.Arthur@epa.gov]; Williamson, Ann[Williamson.Ann@epa.gov]; Wroble, Julie[Wroble.Julie@epa.gov]; Yellin, Patrick[Yellin.Patrick@epa.gov]
From: McClintock, Katie
Sent: Tue 3/1/2016 6:55:48 AM
Subject: Color Glass Daily Update 2-29-16
Daily Update 2-29-16.docx

Here is the daily update for the day and the link the onedrive below. I've heard some people are having trouble with access. Let me know if that happens as we might be using the onedrive for FOIA data collection and we will need everyone to have access. Please also give let me know of anyone not in this email who might have responsive FOIA documents.

Ex. 6 - Personal Privacy

Katie McClintock

Air Enforcement Officer

EPA Region 10

1200 Sixth Avenue, Suite 900, OCE-101

Seattle, WA 98101

Phone: 206-553-2143

Fax: 206-553-4743

Mcclintock.katie@epa.gov

- Agreements with Bullseye and Uroboros:
  - Hoping to sign agreements with Bullseye and Uroboros this week. They will not be MAOs because they don't have an underlying violation. They will be the same in all other ways and Paul Garrahan says they are still enforceable.
  - They expect the agreement to include:
    - No operation with cadmium or hex chrome without controls
    - No future arsenic usage
    - Limited operation with monitors in place. Would allow other metals and trivalent chromium.
      - Calculate ambient 2 week rolling average emissions each week. There will be a 2 week delay in getting this data back however. Action levels are supposed to be based on chronic, not acute exposure concerns.
      - Currently 4 monitors around Bullseye and 1 at Uroboros. Unsure how many will be there for the 16 weeks until controls are installed.
      - If over the action level then would be required to scale back production until can show levels are below threshold. Then can slowly increase.
      - These thresholds will include the main metals as well as perhaps lead and other metals like cobalt and nickel.
      - Thresholds are proposed at 20 times the Oregon benchmarks for all except NAAQs for lead.
    - Will require source testing for hex chrome and baghouse.
    - Unsure if agreement will require controls on all furnaces or just those melting glass with metals.
    - Agreement will last for 5 years or until both parties agree to terminate and will include stipulated penalties.
- 6S applicability determination

Ex. 5 - Deliberative Process

- Health:
  - Sarah Armitage at DEQ asked EPA input on their current thresholds for action based on ambient data for their draft agreements with Bullseye/Uroboros. They are proposing 20 times the benchmark for all except NAAQS for lead.
    - She talked to Rhonda Kaetzel at ATSDR.
    - I roped in Julie Wroble who corresponded with her as well.
  - Having difficulty with communication with OHA. We need to establish better communication but not sure if the problem is that they are overloaded or if it is

something else. OHA is the lead on all health messaging, so it would be good to open communications between then and EPA and ATSDR. *Is there a manager who could help with this?*

- Had a call with R10 and HQ health folks to talk about the data and what it means. First step of perhaps many conversations. HQ raised issue of whether we are looking at a chronic or acute exposure. They worried than one month of data has to be viewed as acute, but we explained our understanding that these facilities have been generally unchanged for decades.
- Health is bringing up concerns about lead chromate, which is something we still don't have more information on.

- Other facilities:
  - Borosilicate –
    - Northstar Glass called me again about getting an agreement for their installation of controls and I gave him Dave Monro's contact information.
    - Apparently Dick Pederson heard EPA was volunteering to inspect the other borosilicate plants. OR interested in us inspecting the 2 other plants (Trautman Art Glass and Glass Alchemy). Contact is Keith Johnson.
    - They would like EPA's help on inspection, but would go on their own and we can send a 114 if we can't go. I will try to develop a plan later this week.
    - Timeline is within the next two weeks.
  - Haven't heard any more from OR on 114 request on all glass companies.
  - New Leads: First two from TRI search by Renée Dagseth.
    - 3M – Ceradyne – in Seattle, WA. This company makes many things but among them is glass powders (and say they can add any metal oxides you need to make glass powders). I'm not sure what they make in Seattle but the powders would be of interest to us wherever they are made.
    - Heraeus Shinetsu America in Camas, WA
    - Specialty glass in Florida – hasn't heard of Specialty Glass in NW.
  - Region 5 will be inspecting Kokomo Glass March 7th – I'll be talking to the inspectors Thursday to prep them for the inspection.
- FOIAs: there are now 2
  - OPB FOIA – very broad for all art glass facilities, we did narrow the request with the requester today as follows:
    - Original Request #1 : Copies of all records related to Bullseye Glass Co., Uroboros Glass Studios and artistic glass manufacturing
    - Revision to #1: Exclude all information claimed CBI. Prioritized the response to produce all external communications first (as quickly as possible) followed by internal communications. Not excluding privileged information (deliberative, attorney/client, enforcement confidential). Not excluding calendar invitations.
    - Original Request #2: Copies of all communication, regardless of format, since the beginning of 2015 within EPA and/or with the Oregon Department of Environmental Quality, the Oregon Health Authority.
    - Revision to #2: Only interested in information related to air emissions and glass.
    - Original Request #3: Copies of all communication, regardless of format, since

the beginning of 2015 exchanged with the U.S. Forest Service regarding its moss study and air quality in Portland.
        - Revision to #3: No change
        - Original Request #4: Copies of all communication, regardless of format, between EPA and Bullseye Glass Co. or Uroboros Glass Studios regarding its moss study and air quality in Portland.
        - Revision to #4: Same revisions as #1 above.
    - Keller Rohrback FOIA – "We seek documents your office has collected in the course of evaluating the emissions from the Bullseye Glass Co. facility and the effects of those emissions on residents and businesses in Portland. Responsive documents should include but are not limited to the data collected by EPA; summaries and reports based on that data; and internal and external communications regarding the emissions at Bullseye.
        - We have not yet reached this requester but hope to tomorrow.
- Other health concerns raised by citizens:
    - Precision Cast Parts – email to Jan Hastings on 2/29/16
        - They are in Milwakee, OR and there is a nickel hotspot on the moss map over their facility.
        - Company has submitted a notice of intent to construct. Installing cyclones, baghouses and HEPA filters on the baghouse exhaust.
    - McClure Industries in very south Portland. Styrene emissions (minor for HAPS but do report to TRI). Citizen complained to our complaint system about proximity to homes and schools. Referred to the state.
- Other
    - OR is disappointed with OPB article on Spectrum which says there is no problem at Spectrum. EPA was not consulted on the article.
    - McCabe letter, transmittal to Gov Brown and Desk statement for it are all on the onedrive.
    - ADD call today – hope for an update tomorrow.
    - R3 is having a call on Glass plants tomorrow – I have volunteered to present some background information
    - Renee Dagseth in TRI talked with OR (Jaclyn Palermo) about using TRI to find other metals facility – sounds like she already is using TRI well.
    - Judy Smith is participating in the OR Incident Management Team meetings and is posting notes on the onedrive.
    - Some new leads on technical information from Northstar Owner, a patent, an article and a book. I will post the article on the onedrive (we haven't found the book yet).

To: Averback, Jonathan[Averback.Jonathan@epa.gov]; Barber, Anthony[Barber.Anthony@epa.gov]; Barnett, Keith[Barnett.Keith@epa.gov]; Bray, Dave[Bray.Dave@epa.gov]; Bremer, Kristen[Bremer.Kristen@epa.gov]; Cunningham, Roylene[Cunningham.Roylene@epa.gov]; Dalrymple, Anne[Dalrymple.Anne@epa.gov]; Davis, Alison[Davis.Alison@epa.gov]; Davis, Matthew[Davis.Matthew@epa.gov]; Doster, Brian[Doster.Brian@epa.gov]; Downey, Scott[Downey.Scott@epa.gov]; Fairchild, Susan[Fairchild.Susan@epa.gov]; Field, Chris[Field.Chris@epa.gov]; Fleming, Sheila[fleming.sheila@epa.gov]; Franklin, Richard[Franklin.Richard@epa.gov]; Fried, Gregory[Fried.Gregory@epa.gov]; Froikin, Sara[Froikin.Sara@epa.gov]; Hall, Chris[Hall.Christopher@epa.gov]; Hastings, Janis[Hastings.Janis@epa.gov]; Hedgpeth, Zach[Hedgpeth.Zach@epa.gov]; Holsman, Marianne[Holsman.Marianne@epa.gov]; Ingemansen, Dean[Ingemansen.Dean@epa.gov]; Johnson, Steffan[johnson.steffan@epa.gov]; Kaetzel, Rhonda[Kaetzel.Rhonda@epa.gov]; Keenan, John[keenan.john@epa.gov]; Koerber, Mike[Koerber.Mike@epa.gov]; Koprowski, Paul[Koprowski.Paul@epa.gov]; Kowalski, Ed[Kowalski.Edward@epa.gov]; Leefers, Kristin[Leefers.Kristin@epa.gov]; Lynch, Kira[lynch.kira@epa.gov]; Martenson, Eric[Martenson.Eric@epa.gov]; Matthews, Julie[Matthews.Juliane@epa.gov]; McLerran, Dennis[mclerran.dennis@epa.gov]; Mitchell, Ken[Mitchell.Ken@epa.gov]; Moon, Wally[Moon.Wally@epa.gov]; Narvaez, Madonna[Narvaez.Madonna@epa.gov]; Owens, Katharine[Owens.Katharine@epa.gov]; Page, Lee[Page.Lee@epa.gov]; Palma, Ted[Palma.Ted@epa.gov]; Pirzadeh, Michelle[Pirzadeh.Michelle@epa.gov]; Rimer, Kelly[Rimer.Kelly@epa.gov]; Rodman, Sonja[Rodman.Sonja@epa.gov]; Smith, Judy[Smith.Judy@epa.gov]; Stern, Allyn[Stern.Allyn@epa.gov]; Stewart, Michael[Stewart.Michael@epa.gov]; Stifelman, Marc[Stifelman.Marc@epa.gov]; Taylor, Kevin[Taylor.Kevin@epa.gov]; Terada, Calvin[Terada.Calvin@epa.gov]; Terry, Sara[Terry.Sara@epa.gov]; Thrift, Mike[thrift.mike@epa.gov]; Tonel, Monica[Tonel.Monica@epa.gov]; Wendel, Arthur[Wendel.Arthur@epa.gov]; Williamson, Ann[Williamson.Ann@epa.gov]; Wroble, Julie[Wroble.Julie@epa.gov]
From: McClintock, Katie
Sent: Sat 2/27/2016 5:33:13 AM
Subject: Colored Glass Daily Update 2-26-16
Daily Update 2-26-16.docx
Media Monitoring Report Metal Release 02.26.2016.docx

Here is the update and press for the day. Have a great weekend.

Katie McClintock

Air Enforcement Officer

EPA Region 10

1200 Sixth Avenue, Suite 900, OCE-101

Seattle, WA 98101

Phone: 206-553-2143

Fax: 206-553-4743

Mcclintock.katie@epa.gov

Media Monitoring Report – Metal Release

Social and Traditional Media

February 26, 2016

Good Morning –

This is a situation specific media monitoring report relating to the Portland metals release. This report contains both traditional and social media sources.

Danielle on behalf of the HSPR Team

Traditional Media

Political

- How Bullseye Glass sought a key air pollution exemption -- and won **(Oregon Live)**

Health

- Portland's toxic air: Parents test 17-month-old, confused by results **(The Oregonian)**
- Portland's toxic air: Will young family have to leave home? **(The Oregonian)**
- Portland's toxic air: Longtime family worries but hopes for besta **(The Oregonian)**

Environment

- Could Portland's bad air blow this way? **(The Columbian)**

Opinion

- State environmental agency has failed to safeguard Portland's air (OPINION) **(Oregon Live)**

Related topics

- Aircraft Engine Repair Station Employees Exposed to Hexavalent Chromium Hazards: OSHA **(Occupational Health & Safety)**

Social Media

Online Groups – What they are discussing within the last 24 hours

- Neighbors for Clean Air **Facebook.**
  - **Comments:**
    - Tell Oregon Legislature: Don't throw good money into bad system!
    - Call @Governor Kate Brown - No more investment in a failed system!
    - Some history on Oregon DEQ's policy of protecting polluters: "essentially they'd be asking EPA to break a national law to benefit the worst mercury polluter in the entire country, and to allow it to emit more than other

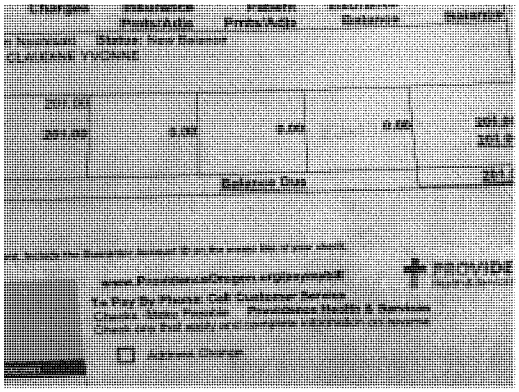
cement kilns," said James Pew, an attorney at Earthjustice who filed the suit that brought about the new rules. Link to 2009 Oregonian article: DEQ to help polluter seek federal break on mercury emission

- The details of the Oregon Legislative budget for DEQ are less satisfying than the original splash of $2.5M. It carves out a 12 person program to deal with 3 toxics! There is nothing that says the agency will deal with the diesel pollution that it knows is - by a far margin - the most deadly toxic in our air. Why do we keep throwing good public funds at a broken system? (You are able to expand the image to read it.)
  - The Subcommittee approved a $2,500,000 General Fund appropriation to expand the Department's current Oregon Air Toxics Program. This will allow the immediate focus of increased air toxics monitoring efforts on cadmium, arsenic, and chromium hotspots in Portland, as well as, expand air toxics monitoring across the state. In addition, the increased funding will allow DEQ to develop a risk-based approach to air permitting for industrial sources through rulemaking. Over time this will allow DEQ to modify existing air permits to be risk-based. The air toxics monitoring funded through this appropriation uses moss collection and analysis to map pollution levels in Portland communities and develop maps of hot spots. This funding will allow the Department to purchase and set up two additional full air toxics monitoring stations that can be directed at areas with high levels of air toxics that are identified. A Natural Resources Specialist 3 position, three Natural Resources Specialist 2 positions, a Chemist 2 position, and a Chemist 3 position are added as permanent positions for the monitoring and analysis work. DEQ will also use the funding to develop, through rulemaking, an Oregon specific air toxics program that ensures industrial hotspots are sufficiently controlled. During this process, discussions with local governments about their potential roles and involvement, either formally or informally, may occur. To work on this part of the program, six permanent positions were added (Principal Executive Manager E, Program Analyst 3, Natural Resources Specialist 4, Natural Resources Specialist 3, Operations and Policy Analyst 1, and Public Affairs Specialist 2). In all, 12 permanent positions (7.00 FTE) were added, with total Personal Services costs of $1,266,789, Services and Supplies costs, including Professional Services, of $883,211 and $350,000 in Capital Outlay for monitoring equipment. This program is estimated to have a 2017-19 roll-up cost of $3,626,239 General Fund.
  -

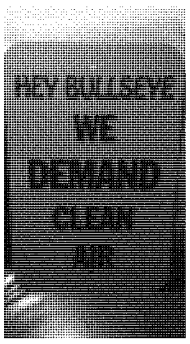
- Eastside Portland Air Coalition (A.K.A Inner SE/NE Air Quality) Facebook
  - **Note: There is more conversation on the Fb page than what is listed here.**
  - **Comments:**
    - Ex. 6 - Personal Privacy photography: Feel free to share! I am working on a series of images telling our story and fearturing neighbors telling our stories. Please PM me if you would like to participate. Could really use parents, families, kids, gardeners, people with health issues, etc.!

      Ex. 6 - Personal Privacy

      -
    - Just rec'd the first of what will be multiple invoices for lab work for my 4 year old... And the day after receiving his high cadmium and elevated lead results -- just to rub a pile of salt all up in that wound. And, bonus! Insurance is not covering a dime. We have yet to test our infant, our soil, or ourselves-husband and I. Betcha we break 2 g's before this is said and done. This just gets awesomer and awesomer, you guys. Who needs a family vacation when you can have all kinds of lab work and heavy metals poisoning, RIGHT?

- 
- Now the journalism is getting real. Link to Oregonian article above.
- Note that in addition to the great reporting it has been doing on Bullseye, The Oregonian also placed the result of its Bullseye file/communications record request online- something many of us have been pressing DEQ to do for weeks. Thank you Ex. 6 - Personal Privacy Referencing this letter from Bullseye Glass from 2008.
- Let's pull back the curtain in The Greenest City, who really is DEQ? Ex. 6 - Personal Privacy Ex. 6 - Personal Privacy mentioned last night these five Governor appointed members who make the rules for DEQ. If DEQ is going to change, this is the level at which it needs to happen. While I would like local control of air quality in Portland, I don't want to lose site of our other Oregonians. People have been contacting this page from different cities with the same air quality problems. We need a complete government overhaul, not just throwing money at a corrupt system. The latest news from the Oregonian shows how endemic this corruption is, and this group is where that begins. Hello, Oz.
- I count 27 leadership employees on deq's org chart with 3 vacant positons estimating 2.5M annual for salary and benefits just for this group. Are they earning their keep making us safe?
- How's everyone doing tonight? This is where it gets hard... The adrenaline starts to calm and we realize that we're all still breathing toxics. Test results are coming back, and they are scary. We are seeing that we have already made some immediate impacts at the local, state and federal level, but we realize that we have far to go. We've accomplished a lot together and we will do much more! And we've done it by supporting one another. So: how are you tonight? What do you need from your neighbors? What are the next steps you want to see?
- It is shocking to discover but more and more clear everyday: Oregon is the most pollution friendly place in America. This article lays it out perfectly: we are home to the nation's the worst mercury polluting cement kiln and our DEQ actively fought the EPA to keep it that way! This Kansas owned company says "we locate plants where the limestone is" but that is clearly not true. The worst kiln in America is located in Oregon because of the Oregon DEQ!! It seems we have just about the worst (for human

beings and the environment) DEQ imaginable. Matthew Preusch writes: "All except two of the country's cement kilns use limestone with a mercury content of less than 200 parts per billion, according to the EPA. The limestone at Durkee shows levels of the toxin ranging from 450 to 2,700 parts per billion, according to the company. The next-closest plant, in California, uses limestone with an average mercury content of about half that. Link to 2009 Oregonian article: **DEQ to help polluter seek federal break on mercury emission**

- Folks - I have outlined some specific problems with the details of the DEQ budget proposal that is flying through the final hours of the 2016 session in Salem. People need to call their legislators and Governor TODAY to identify these problems. Let's make sure DEQ isn't allowed to address this crisis with the same old practices that created it!
- I was excited to find this when I came home today! Where did it come from?
  - 

- South Portland Air Quality Facebook
  - **Comments:**
    - So my husband spoke to Milwaukie Mayor Mark Gamba today. He's apparently a pretty progressive guy (former natgeo photographer). He strongly encouraged residents to come to the city council meeting this coming Tuesday, March 1 (it's in the city hall council chambers at 6pm) to voice questions and concerns about air pollution/air quality. It sounds like he wants to advocate on behalf of us but needs our voices at these city council meetings.
- AirAdvocacy Facebook
  - **Comments:**
    - Ex. 6 - Personal Privacy testifies in Salem **https://youtu.be/tZ8JYHeZ1Gg**
    - A neighbor's outdoor wood boiler turns into a nightmare for Ex. 6 - Personal Privacy Ex. 6 - Personal Privacy She wins a big victory in the Court of Appeals – it's a victory for everyone who wants to breathe clean air. **Link**.

Hashtags

- It does not yet appear that any one hashtag has been adopted for this issue.
  - Eastside Portland Air Coalition group is discussing the following options:
    - #airmatters

- #EPAC2016
- #EPAC
- #breathclean
- #cleanairpdx
- #cleanairmatters
- #filtrateorvacate
- #bagthatstack

- FOIA – We received a FOIA from Oregon Public Broadcasting
  - It is quite broad and they asked for it to be expedited.
  - We estimate all R10 offices (except the non-Oregon ops offices and OMP will have responsive records). Also all regions and OECA, OGC and OAR
  - Questions: * Copies of all records related to Bullseye Glass Co., Uroboros Glass Studios and artistic glass manufacturing * Copies of all communication, regardless of format, since the beginning of 2015 within EPA and/or with the Oregon Department of Environmental Quality, the Oregon Health Authority * Copies of all communication, regardless of format, since the beginning of 2015 exchanged with the U.S. Forest Service regarding its moss study and air quality in Portland * Copies of all communication, regardless of format, between EPA and Bullseye Glass Co. or Uroboros Glass Studios regarding its moss study and air quality in Portland
- 6S applicability question:

Ex. 5 - Deliberative Process

- Forest Service has reached out about using their new moss method in other areas (Geoff Donovan the lead researcher contacted us). OAQPS provided the following contacts: Tim Watkins in ORD and Chet Wayland in OAQPS.
- Information requested from companies:
  - Bullseye – partial submittal received and remainder will be submitted by March 2nd.
  - Spectrum – partial submittal received. Remainder is finished today and they asked to not mail (and for us to pick up). I suggested they hand deliver it to Seattle.
  - Uroboros has submitted its full response.
  - We have not yet issued an information request to the borosilicate plants but hope to soon.
- Other
  - The letter to Kate Brown with the memo from Janet was sent today. It is on the onedrive.
  - I have not heard an update on Bullseye from OR since we were there on Monday. I left messages with staff and management this afternoon for an update.
  - Judy Smith will be working up talking points for if the press call about Spectrum or other glass facilities in Region 10. She will coordinate with Puget Sound. Puget Sound has already received several calls from OPB.

- Monitoring in Portland (according to OPB)
  - 4 monitors around bullseye
  - 1 met station – Rob Elleman is requesting information on this.
- Ongoing knowledge building still necessary on:
  - Hex chrome
  - Metals retained in the glass

To: Hall, Chris[Hall.Christopher@epa.gov]; Bray, Dave[Bray.Dave@epa.gov]; Smith, Judy[Smith.Judy@epa.gov]; Koprowski, Paul[Koprowski.Paul@epa.gov]; McClintock, Katie[McClintock.Katie@epa.gov]; Averback, Jonathan[Averback.Jonathan@epa.gov]; Barber, Anthony[Barber.Anthony@epa.gov]; Barnett, Keith[Barnett.Keith@epa.gov]; Bremer, Kristen[Bremer.Kristen@epa.gov]; Cunningham, Roylene[Cunningham.Roylene@epa.gov]; Dalrymple, Anne[Dalrymple.Anne@epa.gov]; Davis, Alison[Davis.Alison@epa.gov]; Davis, Matthew[Davis.Matthew@epa.gov]; Doster, Brian[Doster.Brian@epa.gov]; Downey, Scott[Downey.Scott@epa.gov]; Fairchild, Susan[Fairchild.Susan@epa.gov]; Field, Chris[Field.Chris@epa.gov]; Fleming, Sheila[fleming.sheila@epa.gov]; Franklin, Richard[Franklin.Richard@epa.gov]; Fried, Gregory[Fried.Gregory@epa.gov]; Froikin, Sara[Froikin.Sara@epa.gov]; Hastings, Janis[Hastings.Janis@epa.gov]; Hedgpeth, Zach[Hedgpeth.Zach@epa.gov]; Holsman, Marianne[Holsman.Marianne@epa.gov]; Ingemansen, Dean[Ingemansen.Dean@epa.gov]; Johnson, Steffan[johnson.steffan@epa.gov]; Kaetzel, Rhonda[Kaetzel.Rhonda@epa.gov]; Keenan, John[keenan.john@epa.gov]; Koerber, Mike[Koerber.Mike@epa.gov]; Kowalski, Ed[Kowalski.Edward@epa.gov]; Leefers, Kristin[Leefers.Kristin@epa.gov]; Lynch, Kira[lynch.kira@epa.gov]; Martenson, Eric[Martenson.Eric@epa.gov]; Matthews, Julie[Matthews.Juliane@epa.gov]; McLerran, Dennis[mclerran.dennis@epa.gov]; Mitchell, Ken[Mitchell.Ken@epa.gov]; Moon, Wally[Moon.Wally@epa.gov]; Owens, Katharine[Owens.Katharine@epa.gov]; Page, Lee[Page.Lee@epa.gov]; Palma, Ted[Palma.Ted@epa.gov]; Pirzadeh, Michelle[Pirzadeh.Michelle@epa.gov]; Rimer, Kelly[Rimer.Kelly@epa.gov]; Rodman, Sonja[Rodman.Sonja@epa.gov]; Stern, Allyn[Stern.Allyn@epa.gov]; Stewart, Michael[Stewart.Michael@epa.gov]; Stifelman, Marc[Stifelman.Marc@epa.gov]; Taylor, Kevin[Taylor.Kevin@epa.gov]; Terada, Calvin[Terada.Calvin@epa.gov]; Terry, Sara[Terry.Sara@epa.gov]; Thrift, Mike[thrift.mike@epa.gov]; Tonel, Monica[Tonel.Monica@epa.gov]; Wendel, Arthur[Wendel.Arthur@epa.gov]; Williamson, Ann[Williamson.Ann@epa.gov]; Wroble, Julie[Wroble.Julie@epa.gov]
Cc: Elleman, Robert[Elleman.Robert@epa.gov]; Islam, Mahbubul[Islam.Mahbubul@epa.gov]; Rees, David[Rees.David@epa.gov]
From: Narvaez, Madonna
Sent: Fri 2/26/2016 7:23:56 PM
Subject: RE: Colored Glass Daily Update 2-25-16

The half-life of Cr+6 is supposed to be 24 - 48 hours. It will be interesting to compare the monitoring days to when Bullseye stopped using the hexavalent chromium.

-----Original Message-----
From: Hall, Chris
Sent: Friday, February 26, 2016 11:10 AM
To: Bray, Dave <Bray.Dave@epa.gov>; Smith, Judy <Smith.Judy@epa.gov>; Koprowski, Paul <Koprowski.Paul@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Averback, Jonathan <Averback.Jonathan@epa.gov>; Barber, Anthony <Barber.Anthony@epa.gov>; Barnett, Keith <Barnett.Keith@epa.gov>; Bremer, Kristen <Bremer.Kristen@epa.gov>; Cunningham, Roylene <Cunningham.Roylene@epa.gov>; Dalrymple, Anne <Dalrymple.Anne@epa.gov>; Davis, Alison <Davis.Alison@epa.gov>; Davis, Matthew <Davis.Matthew@epa.gov>; Doster, Brian <Doster.Brian@epa.gov>; Downey, Scott <Downey.Scott@epa.gov>; Fairchild, Susan <Fairchild.Susan@epa.gov>; Field, Chris <Field.Chris@epa.gov>; Fleming, Sheila <fleming.sheila@epa.gov>; Franklin, Richard <Franklin.Richard@epa.gov>; Fried, Gregory <Fried.Gregory@epa.gov>; Froikin, Sara <Froikin.Sara@epa.gov>; Hastings, Janis <Hastings.Janis@epa.gov>; Hedgpeth, Zach <Hedgpeth.Zach@epa.gov>; Holsman, Marianne <Holsman.Marianne@epa.gov>; Ingemansen, Dean <Ingemansen.Dean@epa.gov>; Johnson, Steffan <johnson.steffan@epa.gov>; Kaetzel, Rhonda <Kaetzel.Rhonda@epa.gov>; Keenan, John <keenan.john@epa.gov>; Koerber, Mike <Koerber.Mike@epa.gov>; Kowalski, Ed <Kowalski.Edward@epa.gov>; Leefers, Kristin <Leefers.Kristin@epa.gov>; Lynch, Kira <lynch.kira@epa.gov>; Martenson, Eric <Martenson.Eric@epa.gov>; Matthews, Julie <Matthews.Juliane@epa.gov>; McLerran, Dennis

<mclerran.dennis@epa.gov>; Mitchell, Ken <Mitchell.Ken@epa.gov>; Moon, Wally <Moon.Wally@epa.gov>; Owens, Katharine <Owens.Katharine@epa.gov>; Page, Lee <Page.Lee@epa.gov>; Palma, Ted <Palma.Ted@epa.gov>; Pirzadeh, Michelle <Pirzadeh.Michelle@epa.gov>; Rimer, Kelly <Rimer.Kelly@epa.gov>; Rodman, Sonja <Rodman.Sonja@epa.gov>; Stern, Allyn <Stern.Allyn@epa.gov>; Stewart, Michael <Stewart.Michael@epa.gov>; Stifelman, Marc <Stifelman.Marc@epa.gov>; Taylor, Kevin <Taylor.Kevin@epa.gov>; Terada, Calvin <Terada.Calvin@epa.gov>; Terry, Sara <Terry.Sara@epa.gov>; Thrift, Mike <thrift.mike@epa.gov>; Tonel, Monica <Tonel.Monica@epa.gov>; Wendel, Arthur <Wendel.Arthur@epa.gov>; Williamson, Ann <Williamson.Ann@epa.gov>; Wroble, Julie <Wroble.Julie@epa.gov>
Cc: Elleman, Robert <Elleman.Robert@epa.gov>; Islam, Mahbubul <Islam.Mahbubul@epa.gov>; Rees, David <Rees.David@epa.gov>
Subject: RE: Colored Glass Daily Update 2-25-16

Hi, I just talked with Anthony Barnack at DEQ Air Monitoring. They have the five PQ200 PM10 air samplers in their possession and are deploying them starting today for Cr+6 sampling (thank you ECL). Anthony mentioned that recent samples near Bullseye are still showing Cr+6 levels well above the benchmark (up to 5-6x higher). Cadmium and Arsenic levels have dropped off significantly. This is just word of mouth as I have not seen the data.

Chris Hall
OEA

-----Original Message-----
From: Bray, Dave
Sent: Friday, February 26, 2016 10:32 AM
To: Smith, Judy <Smith.Judy@epa.gov>; Koprowski, Paul <Koprowski.Paul@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Averback, Jonathan <Averback.Jonathan@epa.gov>; Barber, Anthony <Barber.Anthony@epa.gov>; Barnett, Keith <Barnett.Keith@epa.gov>; Bremer, Kristen <Bremer.Kristen@epa.gov>; Cunningham, Roylene <Cunningham.Roylene@epa.gov>; Dalrymple, Anne <Dalrymple.Anne@epa.gov>; Davis, Alison <Davis.Alison@epa.gov>; Davis, Matthew <Davis.Matthew@epa.gov>; Doster, Brian <Doster.Brian@epa.gov>; Downey, Scott <Downey.Scott@epa.gov>; Fairchild, Susan <Fairchild.Susan@epa.gov>; Field, Chris <Field.Chris@epa.gov>; Fleming, Sheila <fleming.sheila@epa.gov>; Franklin, Richard <Franklin.Richard@epa.gov>; Fried, Gregory <Fried.Gregory@epa.gov>; Froikin, Sara <Froikin.Sara@epa.gov>; Hall, Chris <Hall.Christopher@epa.gov>; Hastings, Janis <Hastings.Janis@epa.gov>; Hedgpeth, Zach <Hedgpeth.Zach@epa.gov>; Holsman, Marianne <Holsman.Marianne@epa.gov>; Ingemansen, Dean <Ingemansen.Dean@epa.gov>; Johnson, Steffan <johnson.steffan@epa.gov>; Kaetzel, Rhonda <Kaetzel.Rhonda@epa.gov>; Keenan, John <keenan.john@epa.gov>; Koerber, Mike <Koerber.Mike@epa.gov>; Kowalski, Ed <Kowalski.Edward@epa.gov>; Leefers, Kristin <Leefers.Kristin@epa.gov>; Lynch, Kira <lynch.kira@epa.gov>; Martenson, Eric <Martenson.Eric@epa.gov>; Matthews, Julie <Matthews.Juliane@epa.gov>; McLerran, Dennis <mclerran.dennis@epa.gov>; Mitchell, Ken <Mitchell.Ken@epa.gov>; Moon, Wally <Moon.Wally@epa.gov>; Owens, Katharine <Owens.Katharine@epa.gov>; Page, Lee <Page.Lee@epa.gov>; Palma, Ted <Palma.Ted@epa.gov>; Pirzadeh, Michelle <Pirzadeh.Michelle@epa.gov>; Rimer, Kelly <Rimer.Kelly@epa.gov>; Rodman, Sonja <Rodman.Sonja@epa.gov>; Stern, Allyn <Stern.Allyn@epa.gov>; Stewart, Michael <Stewart.Michael@epa.gov>; Stifelman, Marc <Stifelman.Marc@epa.gov>; Taylor, Kevin <Taylor.Kevin@epa.gov>; Terada, Calvin <Terada.Calvin@epa.gov>; Terry, Sara <Terry.Sara@epa.gov>; Thrift, Mike <thrift.mike@epa.gov>; Tonel, Monica <Tonel.Monica@epa.gov>; Wendel, Arthur <Wendel.Arthur@epa.gov>; Williamson, Ann <Williamson.Ann@epa.gov>; Wroble, Julie <Wroble.Julie@epa.gov>
Subject: RE: Colored Glass Daily Update 2-25-16

So this is a 2010 applicability determination for the arsenic NESHAP in Part 61. It concludes that they are subject to Subpart N but it says nothing about monitoring and reporting requirements.

Dave

From: Smith, Judy
Sent: Friday, February 26, 2016 10:17 AM
To: Koprowski, Paul; Narvaez, Madonna; McClintock, Katie; Averback, Jonathan; Barber, Anthony; Barnett, Keith; Bray, Dave; Bremer, Kristen; Cunningham, Roylene; Dalrymple, Anne; Davis, Alison; Davis, Matthew; Doster, Brian; Downey, Scott; Fairchild, Susan; Field, Chris; Fleming, Sheila; Franklin, Richard; Fried, Gregory; Froikin, Sara; Hall, Chris; Hastings, Janis; Hedgpeth, Zach; Holsman, Marianne; Ingemansen, Dean; Johnson, Steffan; Kaetzel, Rhonda; Keenan, John; Koerber, Mike; Kowalski, Ed; Leefers, Kristin; Lynch, Kira; Martenson, Eric; Matthews, Julie; McLerran, Dennis; Mitchell, Ken; Moon, Wally; Owens, Katharine; Page, Lee; Palma, Ted; Pirzadeh, Michelle; Rimer, Kelly; Rodman, Sonja; Stern, Allyn; Stewart, Michael; Stifelman, Marc; Taylor, Kevin; Terada, Calvin; Terry, Sara; Thrift, Mike; Tonel, Monica; Wendel, Arthur; Williamson, Ann; Wroble, Julie
Subject: RE: Colored Glass Daily Update 2-25-16

Hi – I wasn't able to be on the call this morning where there was some discussion about a reference to an EPA letter in this morning's Oregonian. Here is the clarification/source from O reporter Rob Davis:

Hi Judy,

We included the letter in the documents linked in the story:
https://www.documentcloud.org/documents/2723120-AQ-Permit-26-3135-Bullseye-Glass-Co-Multnomah.html#document/p160/a280079

It's page 120 of 353.

Cheers,
Rob

From: Koprowski, Paul
Sent: Friday, February 26, 2016 9:49 AM
To: Narvaez, Madonna <Narvaez.Madonna@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Averback, Jonathan <Averback.Jonathan@epa.gov>; Barber, Anthony <Barber.Anthony@epa.gov>; Barnett, Keith <Barnett.Keith@epa.gov>; Bray, Dave <Bray.Dave@epa.gov>; Bremer, Kristen <Bremer.Kristen@epa.gov>; Cunningham, Roylene <Cunningham.Roylene@epa.gov>; Dalrymple, Anne <Dalrymple.Anne@epa.gov>; Davis, Alison <Davis.Alison@epa.gov>; Davis, Matthew <Davis.Matthew@epa.gov>; Doster, Brian <Doster.Brian@epa.gov>; Downey, Scott <Downey.Scott@epa.gov>; Fairchild, Susan <Fairchild.Susan@epa.gov>; Field, Chris <Field.Chris@epa.gov>; Fleming, Sheila <fleming.sheila@epa.gov>; Franklin, Richard <Franklin.Richard@epa.gov>; Fried, Gregory <Fried.Gregory@epa.gov>; Froikin, Sara <Froikin.Sara@epa.gov>; Hall, Chris <Hall.Christopher@epa.gov>; Hastings, Janis <Hastings.Janis@epa.gov>; Hedgpeth, Zach <Hedgpeth.Zach@epa.gov>; Holsman, Marianne <Holsman.Marianne@epa.gov>; Ingemansen, Dean <Ingemansen.Dean@epa.gov>; Johnson, Steffan <johnson.steffan@epa.gov>; Kaetzel, Rhonda <Kaetzel.Rhonda@epa.gov>; Keenan, John <keenan.john@epa.gov>; Koerber, Mike <Koerber.Mike@epa.gov>; Kowalski, Ed <Kowalski.Edward@epa.gov>; Leefers, Kristin <Leefers.Kristin@epa.gov>; Lynch, Kira <lynch.kira@epa.gov>; Martenson, Eric <Martenson.Eric@epa.gov>; Matthews, Julie <Matthews.Juliane@epa.gov>; McLerran, Dennis <mclerran.dennis@epa.gov>; Mitchell, Ken <Mitchell.Ken@epa.gov>; Moon, Wally <Moon.Wally@epa.gov>; Owens, Katharine <Owens.Katharine@epa.gov>; Page, Lee <Page.Lee@epa.gov>; Palma, Ted <Palma.Ted@epa.gov>; Pirzadeh, Michelle <Pirzadeh.Michelle@epa.gov>; Rimer, Kelly <Rimer.Kelly@epa.gov>; Rodman, Sonja <Rodman.Sonja@epa.gov>; Smith, Judy <Smith.Judy@epa.gov>; Stern, Allyn <Stern.Allyn@epa.gov>;

Stewart, Michael <Stewart.Michael@epa.gov>; Stifelman, Marc <Stifelman.Marc@epa.gov>; Taylor, Kevin <Taylor.Kevin@epa.gov>; Terada, Calvin <Terada.Calvin@epa.gov>; Terry, Sara <Terry.Sara@epa.gov>; Thrift, Mike <thrift.mike@epa.gov>; Tonel, Monica <Tonel.Monica@epa.gov>; Wendel, Arthur <Wendel.Arthur@epa.gov>; Williamson, Ann <Williamson.Ann@epa.gov>; Wroble, Julie <Wroble.Julie@epa.gov>
Subject: RE: Colored Glass Daily Update 2-25-16

Thanks for sending this out Madonna. The paragraph I asked about this morning is toward the end and it reads…

An EPA official responded in a letter a year later that no, the company was not exempt from monitoring and reporting requirements.

The letter would have been in the 2009-2010 timeframe but there is no mention of where the letter came from specifically. I asked Judy to ask the reporters about it.

Paul

Paul Koprowski
U.S. EPA; Oregon Operations Office
805 SW Broadway, Suite 500
Portland, Oregon 97205
(503) 326-6363

From: Narvaez, Madonna
Sent: Friday, February 26, 2016 9:00 AM
To: McClintock, Katie <McClintock.Katie@epa.gov<mailto:McClintock.Katie@epa.gov>>; Averback, Jonathan <Averback.Jonathan@epa.gov<mailto:Averback.Jonathan@epa.gov>>; Barber, Anthony <Barber.Anthony@epa.gov<mailto:Barber.Anthony@epa.gov>>; Barnett, Keith <Barnett.Keith@epa.gov<mailto:Barnett.Keith@epa.gov>>; Bray, Dave <Bray.Dave@epa.gov<mailto:Bray.Dave@epa.gov>>; Bremer, Kristen <Bremer.Kristen@epa.gov<mailto:Bremer.Kristen@epa.gov>>; Cunningham, Roylene <Cunningham.Roylene@epa.gov<mailto:Cunningham.Roylene@epa.gov>>; Dalrymple, Anne <Dalrymple.Anne@epa.gov<mailto:Dalrymple.Anne@epa.gov>>; Davis, Alison <Davis.Alison@epa.gov<mailto:Davis.Alison@epa.gov>>; Davis, Matthew <Davis.Matthew@epa.gov<mailto:Davis.Matthew@epa.gov>>; Doster, Brian <Doster.Brian@epa.gov<mailto:Doster.Brian@epa.gov>>; Downey, Scott <Downey.Scott@epa.gov<mailto:Downey.Scott@epa.gov>>; Fairchild, Susan <Fairchild.Susan@epa.gov<mailto:Fairchild.Susan@epa.gov>>; Field, Chris <Field.Chris@epa.gov<mailto:Field.Chris@epa.gov>>; Fleming, Sheila <fleming.sheila@epa.gov<mailto:fleming.sheila@epa.gov>>; Franklin, Richard <Franklin.Richard@epa.gov<mailto:Franklin.Richard@epa.gov>>; Fried, Gregory <Fried.Gregory@epa.gov<mailto:Fried.Gregory@epa.gov>>; Froikin, Sara <Froikin.Sara@epa.gov<mailto:Froikin.Sara@epa.gov>>; Hall, Chris <Hall.Christopher@epa.gov<mailto:Hall.Christopher@epa.gov>>; Hastings, Janis <Hastings.Janis@epa.gov<mailto:Hastings.Janis@epa.gov>>; Hedgpeth, Zach <Hedgpeth.Zach@epa.gov<mailto:Hedgpeth.Zach@epa.gov>>; Holsman, Marianne <Holsman.Marianne@epa.gov<mailto:Holsman.Marianne@epa.gov>>; Ingemansen, Dean <Ingemansen.Dean@epa.gov<mailto:Ingemansen.Dean@epa.gov>>; Johnson, Steffan <johnson.steffan@epa.gov<mailto:johnson.steffan@epa.gov>>; Kaetzel, Rhonda <Kaetzel.Rhonda@epa.gov<mailto:Kaetzel.Rhonda@epa.gov>>; Keenan, John <keenan.john@epa.gov<mailto:keenan.john@epa.gov>>; Koerber, Mike <Koerber.Mike@epa.gov<mailto:Koerber.Mike@epa.gov>>; Koprowski, Paul <Koprowski.Paul@epa.gov<mailto:Koprowski.Paul@epa.gov>>; Kowalski, Ed <Kowalski.Edward@epa.gov<mailto:Kowalski.Edward@epa.gov>>; Leefers, Kristin <Leefers.Kristin@epa.gov<mailto:Leefers.Kristin@epa.gov>>; Lynch, Kira

<lynch.kira@epa.gov<mailto:lynch.kira@epa.gov>>; Martenson, Eric
<Martenson.Eric@epa.gov<mailto:Martenson.Eric@epa.gov>>; Matthews, Julie
<Matthews.Juliane@epa.gov<mailto:Matthews.Juliane@epa.gov>>; McLerran, Dennis
<mclerran.dennis@epa.gov<mailto:mclerran.dennis@epa.gov>>; Mitchell, Ken
<Mitchell.Ken@epa.gov<mailto:Mitchell.Ken@epa.gov>>; Moon, Wally
<Moon.Wally@epa.gov<mailto:Moon.Wally@epa.gov>>; Owens, Katharine
<Owens.Katharine@epa.gov<mailto:Owens.Katharine@epa.gov>>; Page, Lee
<Page.Lee@epa.gov<mailto:Page.Lee@epa.gov>>; Palma, Ted
<Palma.Ted@epa.gov<mailto:Palma.Ted@epa.gov>>; Pirzadeh, Michelle
<Pirzadeh.Michelle@epa.gov<mailto:Pirzadeh.Michelle@epa.gov>>; Rimer, Kelly
<Rimer.Kelly@epa.gov<mailto:Rimer.Kelly@epa.gov>>; Rodman, Sonja
<Rodman.Sonja@epa.gov<mailto:Rodman.Sonja@epa.gov>>; Smith, Judy
<Smith.Judy@epa.gov<mailto:Smith.Judy@epa.gov>>; Stern, Allyn
<Stern.Allyn@epa.gov<mailto:Stern.Allyn@epa.gov>>; Stewart, Michael
<Stewart.Michael@epa.gov<mailto:Stewart.Michael@epa.gov>>; Stifelman, Marc
<Stifelman.Marc@epa.gov<mailto:Stifelman.Marc@epa.gov>>; Taylor, Kevin
<Taylor.Kevin@epa.gov<mailto:Taylor.Kevin@epa.gov>>; Terada, Calvin
<Terada.Calvin@epa.gov<mailto:Terada.Calvin@epa.gov>>; Terry, Sara
<Terry.Sara@epa.gov<mailto:Terry.Sara@epa.gov>>; Thrift, Mike
<thrift.mike@epa.gov<mailto:thrift.mike@epa.gov>>; Tonel, Monica
<Tonel.Monica@epa.gov<mailto:Tonel.Monica@epa.gov>>; Wendel, Arthur
<Wendel.Arthur@epa.gov<mailto:Wendel.Arthur@epa.gov>>; Williamson, Ann
<Williamson.Ann@epa.gov<mailto:Williamson.Ann@epa.gov>>; Wroble, Julie
<Wroble.Julie@epa.gov<mailto:Wroble.Julie@epa.gov>>
Subject: RE: Colored Glass Daily Update 2-25-16

It should be noted that the amount of trivalent chromium that could be oxidized to hexavalent chromium depends on the amount of manganese being used. I don't remember if Bullseye uses manganese in their process.

From: McClintock, Katie
Sent: Thursday, February 25, 2016 9:37 PM
To: Averback, Jonathan <Averback.Jonathan@epa.gov<mailto:Averback.Jonathan@epa.gov>>; Barber, Anthony <Barber.Anthony@epa.gov<mailto:Barber.Anthony@epa.gov>>; Barnett, Keith
<Barnett.Keith@epa.gov<mailto:Barnett.Keith@epa.gov>>; Bray, Dave
<Bray.Dave@epa.gov<mailto:Bray.Dave@epa.gov>>; Bremer, Kristen
<Bremer.Kristen@epa.gov<mailto:Bremer.Kristen@epa.gov>>; Cunningham, Roylene
<Cunningham.Roylene@epa.gov<mailto:Cunningham.Roylene@epa.gov>>; Dalrymple, Anne
<Dalrymple.Anne@epa.gov<mailto:Dalrymple.Anne@epa.gov>>; Davis, Alison
<Davis.Alison@epa.gov<mailto:Davis.Alison@epa.gov>>; Davis, Matthew
<Davis.Matthew@epa.gov<mailto:Davis.Matthew@epa.gov>>; Doster, Brian
<Doster.Brian@epa.gov<mailto:Doster.Brian@epa.gov>>; Downey, Scott
<Downey.Scott@epa.gov<mailto:Downey.Scott@epa.gov>>; Fairchild, Susan
<Fairchild.Susan@epa.gov<mailto:Fairchild.Susan@epa.gov>>; Field, Chris
<Field.Chris@epa.gov<mailto:Field.Chris@epa.gov>>; Fleming, Sheila
<fleming.sheila@epa.gov<mailto:fleming.sheila@epa.gov>>; Franklin, Richard
<Franklin.Richard@epa.gov<mailto:Franklin.Richard@epa.gov>>; Fried, Gregory
<Fried.Gregory@epa.gov<mailto:Fried.Gregory@epa.gov>>; Froikin, Sara
<Froikin.Sara@epa.gov<mailto:Froikin.Sara@epa.gov>>; Hall, Chris
<Hall.Christopher@epa.gov<mailto:Hall.Christopher@epa.gov>>; Hastings, Janis
<Hastings.Janis@epa.gov<mailto:Hastings.Janis@epa.gov>>; Hedgpeth, Zach
<Hedgpeth.Zach@epa.gov<mailto:Hedgpeth.Zach@epa.gov>>; Holsman, Marianne
<Holsman.Marianne@epa.gov<mailto:Holsman.Marianne@epa.gov>>; Ingemansen, Dean
<Ingemansen.Dean@epa.gov<mailto:Ingemansen.Dean@epa.gov>>; Johnson, Steffan
<johnson.steffan@epa.gov<mailto:johnson.steffan@epa.gov>>; Kaetzel, Rhonda
<Kaetzel.Rhonda@epa.gov<mailto:Kaetzel.Rhonda@epa.gov>>; Keenan, John

<keenan.john@epa.gov<mailto:keenan.john@epa.gov>>; Koerber, Mike
<Koerber.Mike@epa.gov<mailto:Koerber.Mike@epa.gov>>; Koprowski, Paul
<Koprowski.Paul@epa.gov<mailto:Koprowski.Paul@epa.gov>>; Kowalski, Ed
<Kowalski.Edward@epa.gov<mailto:Kowalski.Edward@epa.gov>>; Leefers, Kristin
<Leefers.Kristin@epa.gov<mailto:Leefers.Kristin@epa.gov>>; Lynch, Kira
<lynch.kira@epa.gov<mailto:lynch.kira@epa.gov>>; Martenson, Eric
<Martenson.Eric@epa.gov<mailto:Martenson.Eric@epa.gov>>; Matthews, Julie
<Matthews.Juliane@epa.gov<mailto:Matthews.Juliane@epa.gov>>; McLerran, Dennis
<mclerran.dennis@epa.gov<mailto:mclerran.dennis@epa.gov>>; Mitchell, Ken
<Mitchell.Ken@epa.gov<mailto:Mitchell.Ken@epa.gov>>; Moon, Wally
<Moon.Wally@epa.gov<mailto:Moon.Wally@epa.gov>>; Narvaez, Madonna
<Narvaez.Madonna@epa.gov<mailto:Narvaez.Madonna@epa.gov>>; Owens, Katharine
<Owens.Katharine@epa.gov<mailto:Owens.Katharine@epa.gov>>; Page, Lee
<Page.Lee@epa.gov<mailto:Page.Lee@epa.gov>>; Palma, Ted
<Palma.Ted@epa.gov<mailto:Palma.Ted@epa.gov>>; Pirzadeh, Michelle
<Pirzadeh.Michelle@epa.gov<mailto:Pirzadeh.Michelle@epa.gov>>; Rimer, Kelly
<Rimer.Kelly@epa.gov<mailto:Rimer.Kelly@epa.gov>>; Rodman, Sonja
<Rodman.Sonja@epa.gov<mailto:Rodman.Sonja@epa.gov>>; Smith, Judy
<Smith.Judy@epa.gov<mailto:Smith.Judy@epa.gov>>; Stern, Allyn
<Stern.Allyn@epa.gov<mailto:Stern.Allyn@epa.gov>>; Stewart, Michael
<Stewart.Michael@epa.gov<mailto:Stewart.Michael@epa.gov>>; Stifelman, Marc
<Stifelman.Marc@epa.gov<mailto:Stifelman.Marc@epa.gov>>; Taylor, Kevin
<Taylor.Kevin@epa.gov<mailto:Taylor.Kevin@epa.gov>>; Terada, Calvin
<Terada.Calvin@epa.gov<mailto:Terada.Calvin@epa.gov>>; Terry, Sara
<Terry.Sara@epa.gov<mailto:Terry.Sara@epa.gov>>; Thrift, Mike
<thrift.mike@epa.gov<mailto:thrift.mike@epa.gov>>; Tonel, Monica
<Tonel.Monica@epa.gov<mailto:Tonel.Monica@epa.gov>>; Wendel, Arthur
<Wendel.Arthur@epa.gov<mailto:Wendel.Arthur@epa.gov>>; Williamson, Ann
<Williamson.Ann@epa.gov<mailto:Williamson.Ann@epa.gov>>; Wroble, Julie
<Wroble.Julie@epa.gov<mailto:Wroble.Julie@epa.gov>>
Subject: Colored Glass Daily Update 2-25-16

Attached is the update for Colored glass and the most recent news articles Also I am including the link to the one drive. I changed the name to “colored glass” instead of “color glass” which unintentionally broke any old links.

Ex. 6 - Personal Privacy

Katie McClintock
Air Enforcement Officer
EPA Region 10
1200 Sixth Avenue, Suite 900, OCE-101
Seattle, WA 98101
Phone: 206-553-2143
Fax: 206-553-4743
Mcclintock.katie@epa.gov<mailto:Mcclintock.katie@epa.gov>

To: Bray, Dave[Bray.Dave@epa.gov]; Smith, Judy[Smith.Judy@epa.gov]; Koprowski, Paul[Koprowski.Paul@epa.gov]; Narvaez, Madonna[Narvaez.Madonna@epa.gov]; McClintock, Katie[McClintock.Katie@epa.gov]; Averback, Jonathan[Averback.Jonathan@epa.gov]; Barber, Anthony[Barber.Anthony@epa.gov]; Barnett, Keith[Barnett.Keith@epa.gov]; Bremer, Kristen[Bremer.Kristen@epa.gov]; Cunningham, Roylene[Cunningham.Roylene@epa.gov]; Dalrymple, Anne[Dalrymple.Anne@epa.gov]; Davis, Alison[Davis.Alison@epa.gov]; Davis, Matthew[Davis.Matthew@epa.gov]; Doster, Brian[Doster.Brian@epa.gov]; Downey, Scott[Downey.Scott@epa.gov]; Fairchild, Susan[Fairchild.Susan@epa.gov]; Field, Chris[Field.Chris@epa.gov]; Fleming, Sheila[fleming.sheila@epa.gov]; Franklin, Richard[Franklin.Richard@epa.gov]; Fried, Gregory[Fried.Gregory@epa.gov]; Froikin, Sara[Froikin.Sara@epa.gov]; Hastings, Janis[Hastings.Janis@epa.gov]; Hedgpeth, Zach[Hedgpeth.Zach@epa.gov]; Holsman, Marianne[Holsman.Marianne@epa.gov]; Ingemansen, Dean[Ingemansen.Dean@epa.gov]; Johnson, Steffan[johnson.steffan@epa.gov]; Kaetzel, Rhonda[Kaetzel.Rhonda@epa.gov]; Keenan, John[keenan.john@epa.gov]; Koerber, Mike[Koerber.Mike@epa.gov]; Kowalski, Ed[Kowalski.Edward@epa.gov]; Leefers, Kristin[Leefers.Kristin@epa.gov]; Lynch, Kira[lynch.kira@epa.gov]; Martenson, Eric[Martenson.Eric@epa.gov]; Matthews, Julie[Matthews.Juliane@epa.gov]; McLerran, Dennis[mclerran.dennis@epa.gov]; Mitchell, Ken[Mitchell.Ken@epa.gov]; Moon, Wally[Moon.Wally@epa.gov]; Owens, Katharine[Owens.Katharine@epa.gov]; Page, Lee[Page.Lee@epa.gov]; Palma, Ted[Palma.Ted@epa.gov]; Pirzadeh, Michelle[Pirzadeh.Michelle@epa.gov]; Rimer, Kelly[Rimer.Kelly@epa.gov]; Rodman, Sonja[Rodman.Sonja@epa.gov]; Stern, Allyn[Stern.Allyn@epa.gov]; Stewart, Michael[Stewart.Michael@epa.gov]; Stifelman, Marc[Stifelman.Marc@epa.gov]; Taylor, Kevin[Taylor.Kevin@epa.gov]; Terada, Calvin[Terada.Calvin@epa.gov]; Terry, Sara[Terry.Sara@epa.gov]; Thrift, Mike[thrift.mike@epa.gov]; Tonel, Monica[Tonel.Monica@epa.gov]; Wendel, Arthur[Wendel.Arthur@epa.gov]; Williamson, Ann[Williamson.Ann@epa.gov]; Wroble, Julie[Wroble.Julie@epa.gov]
Cc: Elleman, Robert[Elleman.Robert@epa.gov]; Islam, Mahbubul[Islam.Mahbubul@epa.gov]; Rees, David[Rees.David@epa.gov]
From: Hall, Chris
Sent: Fri 2/26/2016 7:09:37 PM
Subject: RE: Colored Glass Daily Update 2-25-16

Hi, I just talked with Anthony Barnack at DEQ Air Monitoring. They have the five PQ200 PM10 air samplers in their possession and are deploying them starting today for Cr+6 sampling (thank you ECL). Anthony mentioned that recent samples near Bullseye are still showing Cr+6 levels well above the benchmark (up to 5-6x higher). Cadmium and Arsenic levels have dropped off significantly. This is just word of mouth as I have not seen the data.

Chris Hall
OEA

-----Original Message-----
From: Bray, Dave
Sent: Friday, February 26, 2016 10:32 AM
To: Smith, Judy <Smith.Judy@epa.gov>; Koprowski, Paul <Koprowski.Paul@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Averback, Jonathan <Averback.Jonathan@epa.gov>; Barber, Anthony <Barber.Anthony@epa.gov>; Barnett, Keith <Barnett.Keith@epa.gov>; Bremer, Kristen <Bremer.Kristen@epa.gov>; Cunningham, Roylene <Cunningham.Roylene@epa.gov>; Dalrymple, Anne <Dalrymple.Anne@epa.gov>; Davis, Alison <Davis.Alison@epa.gov>; Davis, Matthew <Davis.Matthew@epa.gov>; Doster, Brian <Doster.Brian@epa.gov>; Downey, Scott <Downey.Scott@epa.gov>; Fairchild, Susan <Fairchild.Susan@epa.gov>; Field, Chris <Field.Chris@epa.gov>; Fleming, Sheila <fleming.sheila@epa.gov>; Franklin, Richard <Franklin.Richard@epa.gov>; Fried, Gregory <Fried.Gregory@epa.gov>; Froikin, Sara <Froikin.Sara@epa.gov>; Hall, Chris

<Hall.Christopher@epa.gov>; Hastings, Janis <Hastings.Janis@epa.gov>; Hedgpeth, Zach <Hedgpeth.Zach@epa.gov>; Holsman, Marianne <Holsman.Marianne@epa.gov>; Ingemansen, Dean <Ingemansen.Dean@epa.gov>; Johnson, Steffan <johnson.steffan@epa.gov>; Kaetzel, Rhonda <Kaetzel.Rhonda@epa.gov>; Keenan, John <keenan.john@epa.gov>; Koerber, Mike <Koerber.Mike@epa.gov>; Kowalski, Ed <Kowalski.Edward@epa.gov>; Leefers, Kristin <Leefers.Kristin@epa.gov>; Lynch, Kira <lynch.kira@epa.gov>; Martenson, Eric <Martenson.Eric@epa.gov>; Matthews, Julie <Matthews.Juliane@epa.gov>; McLerran, Dennis <mclerran.dennis@epa.gov>; Mitchell, Ken <Mitchell.Ken@epa.gov>; Moon, Wally <Moon.Wally@epa.gov>; Owens, Katharine <Owens.Katharine@epa.gov>; Page, Lee <Page.Lee@epa.gov>; Palma, Ted <Palma.Ted@epa.gov>; Pirzadeh, Michelle <Pirzadeh.Michelle@epa.gov>; Rimer, Kelly <Rimer.Kelly@epa.gov>; Rodman, Sonja <Rodman.Sonja@epa.gov>; Stern, Allyn <Stern.Allyn@epa.gov>; Stewart, Michael <Stewart.Michael@epa.gov>; Stifelman, Marc <Stifelman.Marc@epa.gov>; Taylor, Kevin <Taylor.Kevin@epa.gov>; Terada, Calvin <Terada.Calvin@epa.gov>; Terry, Sara <Terry.Sara@epa.gov>; Thrift, Mike <thrift.mike@epa.gov>; Tonel, Monica <Tonel.Monica@epa.gov>; Wendel, Arthur <Wendel.Arthur@epa.gov>; Williamson, Ann <Williamson.Ann@epa.gov>; Wroble, Julie <Wroble.Julie@epa.gov>
Subject: RE: Colored Glass Daily Update 2-25-16

So this is a 2010 applicability determination for the arsenic NESHAP in Part 61. It concludes that they are subject to Subpart N but it says nothing about monitoring and reporting requirements.

Dave

From: Smith, Judy
Sent: Friday, February 26, 2016 10:17 AM
To: Koprowski, Paul; Narvaez, Madonna; McClintock, Katie; Averback, Jonathan; Barber, Anthony; Barnett, Keith; Bray, Dave; Bremer, Kristen; Cunningham, Roylene; Dalrymple, Anne; Davis, Alison; Davis, Matthew; Doster, Brian; Downey, Scott; Fairchild, Susan; Field, Chris; Fleming, Sheila; Franklin, Richard; Fried, Gregory; Froikin, Sara; Hall, Chris; Hastings, Janis; Hedgpeth, Zach; Holsman, Marianne; Ingemansen, Dean; Johnson, Steffan; Kaetzel, Rhonda; Keenan, John; Koerber, Mike; Kowalski, Ed; Leefers, Kristin; Lynch, Kira; Martenson, Eric; Matthews, Julie; McLerran, Dennis; Mitchell, Ken; Moon, Wally; Owens, Katharine; Page, Lee; Palma, Ted; Pirzadeh, Michelle; Rimer, Kelly; Rodman, Sonja; Stern, Allyn; Stewart, Michael; Stifelman, Marc; Taylor, Kevin; Terada, Calvin; Terry, Sara; Thrift, Mike; Tonel, Monica; Wendel, Arthur; Williamson, Ann; Wroble, Julie
Subject: RE: Colored Glass Daily Update 2-25-16

Hi – I wasn't able to be on the call this morning where there was some discussion about a reference to an EPA letter in this morning's Oregonian. Here is the clarification/source from O reporter Rob Davis:

Hi Judy,

We included the letter in the documents linked in the story:
https://www.documentcloud.org/documents/2723120-AQ-Permit-26-3135-Bullseye-Glass-Co-Multnomah.html#document/p160/a280079

It's page 120 of 353.

Cheers,
Rob

From: Koprowski, Paul
Sent: Friday, February 26, 2016 9:49 AM
To: Narvaez, Madonna <Narvaez.Madonna@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Averback, Jonathan <Averback.Jonathan@epa.gov>; Barber, Anthony <Barber.Anthony@epa.gov>;

Barnett, Keith <Barnett.Keith@epa.gov>; Bray, Dave <Bray.Dave@epa.gov>; Bremer, Kristen <Bremer.Kristen@epa.gov>; Cunningham, Roylene <Cunningham.Roylene@epa.gov>; Dalrymple, Anne <Dalrymple.Anne@epa.gov>; Davis, Alison <Davis.Alison@epa.gov>; Davis, Matthew <Davis.Matthew@epa.gov>; Doster, Brian <Doster.Brian@epa.gov>; Downey, Scott <Downey.Scott@epa.gov>; Fairchild, Susan <Fairchild.Susan@epa.gov>; Field, Chris <Field.Chris@epa.gov>; Fleming, Sheila <fleming.sheila@epa.gov>; Franklin, Richard <Franklin.Richard@epa.gov>; Fried, Gregory <Fried.Gregory@epa.gov>; Froikin, Sara <Froikin.Sara@epa.gov>; Hall, Chris <Hall.Christopher@epa.gov>; Hastings, Janis <Hastings.Janis@epa.gov>; Hedgpeth, Zach <Hedgpeth.Zach@epa.gov>; Holsman, Marianne <Holsman.Marianne@epa.gov>; Ingemansen, Dean <Ingemansen.Dean@epa.gov>; Johnson, Steffan <johnson.steffan@epa.gov>; Kaetzel, Rhonda <Kaetzel.Rhonda@epa.gov>; Keenan, John <keenan.john@epa.gov>; Koerber, Mike <Koerber.Mike@epa.gov>; Kowalski, Ed <Kowalski.Edward@epa.gov>; Leefers, Kristin <Leefers.Kristin@epa.gov>; Lynch, Kira <lynch.kira@epa.gov>; Martenson, Eric <Martenson.Eric@epa.gov>; Matthews, Julie <Matthews.Juliane@epa.gov>; McLerran, Dennis <mclerran.dennis@epa.gov>; Mitchell, Ken <Mitchell.Ken@epa.gov>; Moon, Wally <Moon.Wally@epa.gov>; Owens, Katharine <Owens.Katharine@epa.gov>; Page, Lee <Page.Lee@epa.gov>; Palma, Ted <Palma.Ted@epa.gov>; Pirzadeh, Michelle <Pirzadeh.Michelle@epa.gov>; Rimer, Kelly <Rimer.Kelly@epa.gov>; Rodman, Sonja <Rodman.Sonja@epa.gov>; Smith, Judy <Smith.Judy@epa.gov>; Stern, Allyn <Stern.Allyn@epa.gov>; Stewart, Michael <Stewart.Michael@epa.gov>; Stifelman, Marc <Stifelman.Marc@epa.gov>; Taylor, Kevin <Taylor.Kevin@epa.gov>; Terada, Calvin <Terada.Calvin@epa.gov>; Terry, Sara <Terry.Sara@epa.gov>; Thrift, Mike <thrift.mike@epa.gov>; Tonel, Monica <Tonel.Monica@epa.gov>; Wendel, Arthur <Wendel.Arthur@epa.gov>; Williamson, Ann <Williamson.Ann@epa.gov>; Wroble, Julie <Wroble.Julie@epa.gov>
Subject: RE: Colored Glass Daily Update 2-25-16

Thanks for sending this out Madonna. The paragraph I asked about this morning is toward the end and it reads…

An EPA official responded in a letter a year later that no, the company was not exempt from monitoring and reporting requirements.

The letter would have been in the 2009-2010 timeframe but there is no mention of where the letter came from specifically. I asked Judy to ask the reporters about it.

Paul

Paul Koprowski
U.S. EPA; Oregon Operations Office
805 SW Broadway, Suite 500
Portland, Oregon 97205
(503) 326-6363

From: Narvaez, Madonna
Sent: Friday, February 26, 2016 9:00 AM
To: McClintock, Katie <McClintock.Katie@epa.gov<mailto:McClintock.Katie@epa.gov>>; Averback, Jonathan <Averback.Jonathan@epa.gov<mailto:Averback.Jonathan@epa.gov>>; Barber, Anthony <Barber.Anthony@epa.gov<mailto:Barber.Anthony@epa.gov>>; Barnett, Keith <Barnett.Keith@epa.gov<mailto:Barnett.Keith@epa.gov>>; Bray, Dave <Bray.Dave@epa.gov<mailto:Bray.Dave@epa.gov>>; Bremer, Kristen <Bremer.Kristen@epa.gov<mailto:Bremer.Kristen@epa.gov>>; Cunningham, Roylene <Cunningham.Roylene@epa.gov<mailto:Cunningham.Roylene@epa.gov>>; Dalrymple, Anne <Dalrymple.Anne@epa.gov<mailto:Dalrymple.Anne@epa.gov>>; Davis, Alison <Davis.Alison@epa.gov<mailto:Davis.Alison@epa.gov>>; Davis, Matthew <Davis.Matthew@epa.gov<mailto:Davis.Matthew@epa.gov>>; Doster, Brian <Doster.Brian@epa.gov<mailto:Doster.Brian@epa.gov>>; Downey, Scott

<Downey.Scott@epa.gov<mailto:Downey.Scott@epa.gov>>; Fairchild, Susan
<Fairchild.Susan@epa.gov<mailto:Fairchild.Susan@epa.gov>>; Field, Chris
<Field.Chris@epa.gov<mailto:Field.Chris@epa.gov>>; Fleming, Sheila
<fleming.sheila@epa.gov<mailto:fleming.sheila@epa.gov>>; Franklin, Richard
<Franklin.Richard@epa.gov<mailto:Franklin.Richard@epa.gov>>; Fried, Gregory
<Fried.Gregory@epa.gov<mailto:Fried.Gregory@epa.gov>>; Froikin, Sara
<Froikin.Sara@epa.gov<mailto:Froikin.Sara@epa.gov>>; Hall, Chris
<Hall.Christopher@epa.gov<mailto:Hall.Christopher@epa.gov>>; Hastings, Janis
<Hastings.Janis@epa.gov<mailto:Hastings.Janis@epa.gov>>; Hedgpeth, Zach
<Hedgpeth.Zach@epa.gov<mailto:Hedgpeth.Zach@epa.gov>>; Holsman, Marianne
<Holsman.Marianne@epa.gov<mailto:Holsman.Marianne@epa.gov>>; Ingemansen, Dean
<Ingemansen.Dean@epa.gov<mailto:Ingemansen.Dean@epa.gov>>; Johnson, Steffan
<johnson.steffan@epa.gov<mailto:johnson.steffan@epa.gov>>; Kaetzel, Rhonda
<Kaetzel.Rhonda@epa.gov<mailto:Kaetzel.Rhonda@epa.gov>>; Keenan, John
<keenan.john@epa.gov<mailto:keenan.john@epa.gov>>; Koerber, Mike
<Koerber.Mike@epa.gov<mailto:Koerber.Mike@epa.gov>>; Koprowski, Paul
<Koprowski.Paul@epa.gov<mailto:Koprowski.Paul@epa.gov>>; Kowalski, Ed
<Kowalski.Edward@epa.gov<mailto:Kowalski.Edward@epa.gov>>; Leefers, Kristin
<Leefers.Kristin@epa.gov<mailto:Leefers.Kristin@epa.gov>>; Lynch, Kira
<lynch.kira@epa.gov<mailto:lynch.kira@epa.gov>>; Martenson, Eric
<Martenson.Eric@epa.gov<mailto:Martenson.Eric@epa.gov>>; Matthews, Julie
<Matthews.Juliane@epa.gov<mailto:Matthews.Juliane@epa.gov>>; McLerran, Dennis
<mclerran.dennis@epa.gov<mailto:mclerran.dennis@epa.gov>>; Mitchell, Ken
<Mitchell.Ken@epa.gov<mailto:Mitchell.Ken@epa.gov>>; Moon, Wally
<Moon.Wally@epa.gov<mailto:Moon.Wally@epa.gov>>; Owens, Katharine
<Owens.Katharine@epa.gov<mailto:Owens.Katharine@epa.gov>>; Page, Lee
<Page.Lee@epa.gov<mailto:Page.Lee@epa.gov>>; Palma, Ted
<Palma.Ted@epa.gov<mailto:Palma.Ted@epa.gov>>; Pirzadeh, Michelle
<Pirzadeh.Michelle@epa.gov<mailto:Pirzadeh.Michelle@epa.gov>>; Rimer, Kelly
<Rimer.Kelly@epa.gov<mailto:Rimer.Kelly@epa.gov>>; Rodman, Sonja
<Rodman.Sonja@epa.gov<mailto:Rodman.Sonja@epa.gov>>; Smith, Judy
<Smith.Judy@epa.gov<mailto:Smith.Judy@epa.gov>>; Stern, Allyn
<Stern.Allyn@epa.gov<mailto:Stern.Allyn@epa.gov>>; Stewart, Michael
<Stewart.Michael@epa.gov<mailto:Stewart.Michael@epa.gov>>; Stifelman, Marc
<Stifelman.Marc@epa.gov<mailto:Stifelman.Marc@epa.gov>>; Taylor, Kevin
<Taylor.Kevin@epa.gov<mailto:Taylor.Kevin@epa.gov>>; Terada, Calvin
<Terada.Calvin@epa.gov<mailto:Terada.Calvin@epa.gov>>; Terry, Sara
<Terry.Sara@epa.gov<mailto:Terry.Sara@epa.gov>>; Thrift, Mike
<thrift.mike@epa.gov<mailto:thrift.mike@epa.gov>>; Tonel, Monica
<Tonel.Monica@epa.gov<mailto:Tonel.Monica@epa.gov>>; Wendel, Arthur
<Wendel.Arthur@epa.gov<mailto:Wendel.Arthur@epa.gov>>; Williamson, Ann
<Williamson.Ann@epa.gov<mailto:Williamson.Ann@epa.gov>>; Wroble, Julie
<Wroble.Julie@epa.gov<mailto:Wroble.Julie@epa.gov>>
Subject: RE: Colored Glass Daily Update 2-25-16

It should be noted that the amount of trivalent chromium that could be oxidized to hexavalent chromium depends on the amount of manganese being used. I don't remember if Bullseye uses manganese in their process.

From: McClintock, Katie
Sent: Thursday, February 25, 2016 9:37 PM
To: Averback, Jonathan <Averback.Jonathan@epa.gov<mailto:Averback.Jonathan@epa.gov>>; Barber, Anthony <Barber.Anthony@epa.gov<mailto:Barber.Anthony@epa.gov>>; Barnett, Keith
<Barnett.Keith@epa.gov<mailto:Barnett.Keith@epa.gov>>; Bray, Dave
<Bray.Dave@epa.gov<mailto:Bray.Dave@epa.gov>>; Bremer, Kristen
<Bremer.Kristen@epa.gov<mailto:Bremer.Kristen@epa.gov>>; Cunningham, Roylene

<Cunningham.Roylene@epa.gov<mailto:Cunningham.Roylene@epa.gov>>; Dalrymple, Anne
<Dalrymple.Anne@epa.gov<mailto:Dalrymple.Anne@epa.gov>>; Davis, Alison
<Davis.Alison@epa.gov<mailto:Davis.Alison@epa.gov>>; Davis, Matthew
<Davis.Matthew@epa.gov<mailto:Davis.Matthew@epa.gov>>; Doster, Brian
<Doster.Brian@epa.gov<mailto:Doster.Brian@epa.gov>>; Downey, Scott
<Downey.Scott@epa.gov<mailto:Downey.Scott@epa.gov>>; Fairchild, Susan
<Fairchild.Susan@epa.gov<mailto:Fairchild.Susan@epa.gov>>; Field, Chris
<Field.Chris@epa.gov<mailto:Field.Chris@epa.gov>>; Fleming, Sheila
<fleming.sheila@epa.gov<mailto:fleming.sheila@epa.gov>>; Franklin, Richard
<Franklin.Richard@epa.gov<mailto:Franklin.Richard@epa.gov>>; Fried, Gregory
<Fried.Gregory@epa.gov<mailto:Fried.Gregory@epa.gov>>; Froikin, Sara
<Froikin.Sara@epa.gov<mailto:Froikin.Sara@epa.gov>>; Hall, Chris
<Hall.Christopher@epa.gov<mailto:Hall.Christopher@epa.gov>>; Hastings, Janis
<Hastings.Janis@epa.gov<mailto:Hastings.Janis@epa.gov>>; Hedgpeth, Zach
<Hedgpeth.Zach@epa.gov<mailto:Hedgpeth.Zach@epa.gov>>; Holsman, Marianne
<Holsman.Marianne@epa.gov<mailto:Holsman.Marianne@epa.gov>>; Ingemansen, Dean
<Ingemansen.Dean@epa.gov<mailto:Ingemansen.Dean@epa.gov>>; Johnson, Steffan
<johnson.steffan@epa.gov<mailto:johnson.steffan@epa.gov>>; Kaetzel, Rhonda
<Kaetzel.Rhonda@epa.gov<mailto:Kaetzel.Rhonda@epa.gov>>; Keenan, John
<keenan.john@epa.gov<mailto:keenan.john@epa.gov>>; Koerber, Mike
<Koerber.Mike@epa.gov<mailto:Koerber.Mike@epa.gov>>; Koprowski, Paul
<Koprowski.Paul@epa.gov<mailto:Koprowski.Paul@epa.gov>>; Kowalski, Ed
<Kowalski.Edward@epa.gov<mailto:Kowalski.Edward@epa.gov>>; Leefers, Kristin
<Leefers.Kristin@epa.gov<mailto:Leefers.Kristin@epa.gov>>; Lynch, Kira
<lynch.kira@epa.gov<mailto:lynch.kira@epa.gov>>; Martenson, Eric
<Martenson.Eric@epa.gov<mailto:Martenson.Eric@epa.gov>>; Matthews, Julie
<Matthews.Juliane@epa.gov<mailto:Matthews.Juliane@epa.gov>>; McLerran, Dennis
<mclerran.dennis@epa.gov<mailto:mclerran.dennis@epa.gov>>; Mitchell, Ken
<Mitchell.Ken@epa.gov<mailto:Mitchell.Ken@epa.gov>>; Moon, Wally
<Moon.Wally@epa.gov<mailto:Moon.Wally@epa.gov>>; Narvaez, Madonna
<Narvaez.Madonna@epa.gov<mailto:Narvaez.Madonna@epa.gov>>; Owens, Katharine
<Owens.Katharine@epa.gov<mailto:Owens.Katharine@epa.gov>>; Page, Lee
<Page.Lee@epa.gov<mailto:Page.Lee@epa.gov>>; Palma, Ted
<Palma.Ted@epa.gov<mailto:Palma.Ted@epa.gov>>; Pirzadeh, Michelle
<Pirzadeh.Michelle@epa.gov<mailto:Pirzadeh.Michelle@epa.gov>>; Rimer, Kelly
<Rimer.Kelly@epa.gov<mailto:Rimer.Kelly@epa.gov>>; Rodman, Sonja
<Rodman.Sonja@epa.gov<mailto:Rodman.Sonja@epa.gov>>; Smith, Judy
<Smith.Judy@epa.gov<mailto:Smith.Judy@epa.gov>>; Stern, Allyn
<Stern.Allyn@epa.gov<mailto:Stern.Allyn@epa.gov>>; Stewart, Michael
<Stewart.Michael@epa.gov<mailto:Stewart.Michael@epa.gov>>; Stifelman, Marc
<Stifelman.Marc@epa.gov<mailto:Stifelman.Marc@epa.gov>>; Taylor, Kevin
<Taylor.Kevin@epa.gov<mailto:Taylor.Kevin@epa.gov>>; Terada, Calvin
<Terada.Calvin@epa.gov<mailto:Terada.Calvin@epa.gov>>; Terry, Sara
<Terry.Sara@epa.gov<mailto:Terry.Sara@epa.gov>>; Thrift, Mike
<thrift.mike@epa.gov<mailto:thrift.mike@epa.gov>>; Tonel, Monica
<Tonel.Monica@epa.gov<mailto:Tonel.Monica@epa.gov>>; Wendel, Arthur
<Wendel.Arthur@epa.gov<mailto:Wendel.Arthur@epa.gov>>; Williamson, Ann
<Williamson.Ann@epa.gov<mailto:Williamson.Ann@epa.gov>>; Wroble, Julie
<Wroble.Julie@epa.gov<mailto:Wroble.Julie@epa.gov>>
Subject: Colored Glass Daily Update 2-25-16

Attached is the update for Colored glass and the most recent news articles Also I am including the link to the one drive. I changed the name to “colored glass” instead of “color glass” which unintentionally broke any old links.

Ex. 6 - Personal Privacy

Katie McClintock
Air Enforcement Officer
EPA Region 10
1200 Sixth Avenue, Suite 900, OCE-101
Seattle, WA 98101
Phone: 206-553-2143
Fax: 206-553-4743
Mcclintock.katie@epa.gov<mailto:Mcclintock.katie@epa.gov>

To: Smith, Judy[Smith.Judy@epa.gov]; Koprowski, Paul[Koprowski.Paul@epa.gov]; Narvaez, Madonna[Narvaez.Madonna@epa.gov]; McClintock, Katie[McClintock.Katie@epa.gov]; Averback, Jonathan[Averback.Jonathan@epa.gov]; Barber, Anthony[Barber.Anthony@epa.gov]; Barnett, Keith[Barnett.Keith@epa.gov]; Bremer, Kristen[Bremer.Kristen@epa.gov]; Cunningham, Roylene[Cunningham.Roylene@epa.gov]; Dalrymple, Anne[Dalrymple.Anne@epa.gov]; Davis, Alison[Davis.Alison@epa.gov]; Davis, Matthew[Davis.Matthew@epa.gov]; Doster, Brian[Doster.Brian@epa.gov]; Downey, Scott[Downey.Scott@epa.gov]; Fairchild, Susan[Fairchild.Susan@epa.gov]; Field, Chris[Field.Chris@epa.gov]; Fleming, Sheila[fleming.sheila@epa.gov]; Franklin, Richard[Franklin.Richard@epa.gov]; Fried, Gregory[Fried.Gregory@epa.gov]; Froikin, Sara[Froikin.Sara@epa.gov]; Hall, Chris[Hall.Christopher@epa.gov]; Hastings, Janis[Hastings.Janis@epa.gov]; Hedgpeth, Zach[Hedgpeth.Zach@epa.gov]; Holsman, Marianne[Holsman.Marianne@epa.gov]; Ingemansen, Dean[Ingemansen.Dean@epa.gov]; Johnson, Steffan[johnson.steffan@epa.gov]; Kaetzel, Rhonda[Kaetzel.Rhonda@epa.gov]; Keenan, John[keenan.john@epa.gov]; Koerber, Mike[Koerber.Mike@epa.gov]; Kowalski, Ed[Kowalski.Edward@epa.gov]; Leefers, Kristin[Leefers.Kristin@epa.gov]; Lynch, Kira[lynch.kira@epa.gov]; Martenson, Eric[Martenson.Eric@epa.gov]; Matthews, Julie[Matthews.Juliane@epa.gov]; McLerran, Dennis[mclerran.dennis@epa.gov]; Mitchell, Ken[Mitchell.Ken@epa.gov]; Moon, Wally[Moon.Wally@epa.gov]; Owens, Katharine[Owens.Katharine@epa.gov]; Page, Lee[Page.Lee@epa.gov]; Palma, Ted[Palma.Ted@epa.gov]; Pirzadeh, Michelle[Pirzadeh.Michelle@epa.gov]; Rimer, Kelly[Rimer.Kelly@epa.gov]; Rodman, Sonja[Rodman.Sonja@epa.gov]; Stern, Allyn[Stern.Allyn@epa.gov]; Stewart, Michael[Stewart.Michael@epa.gov]; Stifelman, Marc[Stifelman.Marc@epa.gov]; Taylor, Kevin[Taylor.Kevin@epa.gov]; Terada, Calvin[Terada.Calvin@epa.gov]; Terry, Sara[Terry.Sara@epa.gov]; Thrift, Mike[thrift.mike@epa.gov]; Tonel, Monica[Tonel.Monica@epa.gov]; Wendel, Arthur[Wendel.Arthur@epa.gov]; Williamson, Ann[Williamson.Ann@epa.gov]; Wroble, Julie[Wroble.Julie@epa.gov]
From: Bray, Dave
Sent: Fri 2/26/2016 6:31:36 PM
Subject: RE: Colored Glass Daily Update 2-25-16

So this is a 2010 applicability determination for the arsenic NESHAP in Part 61. It concludes that they are subject to Subpart N but it says nothing about monitoring and reporting requirements.

Dave

From: Smith, Judy
Sent: Friday, February 26, 2016 10:17 AM
To: Koprowski, Paul; Narvaez, Madonna; McClintock, Katie; Averback, Jonathan; Barber, Anthony; Barnett, Keith; Bray, Dave; Bremer, Kristen; Cunningham, Roylene; Dalrymple, Anne; Davis, Alison; Davis, Matthew; Doster, Brian; Downey, Scott; Fairchild, Susan; Field, Chris; Fleming, Sheila; Franklin, Richard; Fried, Gregory; Froikin, Sara; Hall, Chris; Hastings, Janis; Hedgpeth, Zach; Holsman, Marianne; Ingemansen, Dean; Johnson, Steffan; Kaetzel, Rhonda; Keenan, John; Koerber, Mike; Kowalski, Ed; Leefers, Kristin; Lynch, Kira; Martenson, Eric; Matthews, Julie; McLerran, Dennis; Mitchell, Ken; Moon, Wally; Owens, Katharine; Page, Lee; Palma, Ted; Pirzadeh, Michelle; Rimer, Kelly; Rodman, Sonja; Stern, Allyn; Stewart, Michael; Stifelman, Marc; Taylor, Kevin; Terada, Calvin; Terry, Sara; Thrift, Mike; Tonel, Monica; Wendel, Arthur; Williamson, Ann; Wroble, Julie
Subject: RE: Colored Glass Daily Update 2-25-16

Hi – I wasn't able to be on the call this morning where there was some discussion about a reference to an EPA letter in this morning's Oregonian. Here is the clarification/source from O reporter Rob Davis:

Hi Judy,

We included the letter in the documents linked in the story:
https://www.documentcloud.org/documents/2723120-AQ-Permit-26-3135-Bullseye-Glass-Co-

Multnomah.html#document/p160/a280079

It's page 120 of 353.

Cheers,
Rob

From: Koprowski, Paul
Sent: Friday, February 26, 2016 9:49 AM
To: Narvaez, Madonna <Narvaez.Madonna@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Averback, Jonathan <Averback.Jonathan@epa.gov>; Barber, Anthony <Barber.Anthony@epa.gov>; Barnett, Keith <Barnett.Keith@epa.gov>; Bray, Dave <Bray.Dave@epa.gov>; Bremer, Kristen <Bremer.Kristen@epa.gov>; Cunningham, Roylene <Cunningham.Roylene@epa.gov>; Dalrymple, Anne <Dalrymple.Anne@epa.gov>; Davis, Alison <Davis.Alison@epa.gov>; Davis, Matthew <Davis.Matthew@epa.gov>; Doster, Brian <Doster.Brian@epa.gov>; Downey, Scott <Downey.Scott@epa.gov>; Fairchild, Susan <Fairchild.Susan@epa.gov>; Field, Chris <Field.Chris@epa.gov>; Fleming, Sheila <fleming.sheila@epa.gov>; Franklin, Richard <Franklin.Richard@epa.gov>; Fried, Gregory <Fried.Gregory@epa.gov>; Froikin, Sara <Froikin.Sara@epa.gov>; Hall, Chris <Hall.Christopher@epa.gov>; Hastings, Janis <Hastings.Janis@epa.gov>; Hedgpeth, Zach <Hedgpeth.Zach@epa.gov>; Holsman, Marianne <Holsman.Marianne@epa.gov>; Ingemansen, Dean <Ingemansen.Dean@epa.gov>; Johnson, Steffan <johnson.steffan@epa.gov>; Kaetzel, Rhonda <Kaetzel.Rhonda@epa.gov>; Keenan, John <keenan.john@epa.gov>; Koerber, Mike <Koerber.Mike@epa.gov>; Kowalski, Ed <Kowalski.Edward@epa.gov>; Leefers, Kristin <Leefers.Kristin@epa.gov>; Lynch, Kira <lynch.kira@epa.gov>; Martenson, Eric <Martenson.Eric@epa.gov>; Matthews, Julie <Matthews.Juliane@epa.gov>; McLerran, Dennis <mclerran.dennis@epa.gov>; Mitchell, Ken <Mitchell.Ken@epa.gov>; Moon, Wally <Moon.Wally@epa.gov>; Owens, Katharine <Owens.Katharine@epa.gov>; Page, Lee <Page.Lee@epa.gov>; Palma, Ted <Palma.Ted@epa.gov>; Pirzadeh, Michelle <Pirzadeh.Michelle@epa.gov>; Rimer, Kelly <Rimer.Kelly@epa.gov>; Rodman, Sonja <Rodman.Sonja@epa.gov>; Smith, Judy <Smith.Judy@epa.gov>; Stern, Allyn <Stern.Allyn@epa.gov>; Stewart, Michael <Stewart.Michael@epa.gov>; Stifelman, Marc <Stifelman.Marc@epa.gov>; Taylor, Kevin <Taylor.Kevin@epa.gov>; Terada, Calvin <Terada.Calvin@epa.gov>; Terry, Sara <Terry.Sara@epa.gov>; Thrift, Mike <thrift.mike@epa.gov>; Tonel, Monica <Tonel.Monica@epa.gov>; Wendel, Arthur <Wendel.Arthur@epa.gov>; Williamson, Ann <Williamson.Ann@epa.gov>; Wroble, Julie <Wroble.Julie@epa.gov>
Subject: RE: Colored Glass Daily Update 2-25-16

Thanks for sending this out Madonna. The paragraph I asked about this morning is toward the end and it reads…

An EPA official responded in a letter a year later that no, the company was not exempt from monitoring and reporting requirements.

The letter would have been in the 2009-2010 timeframe but there is no mention of where the letter came from specifically. I asked Judy to ask the reporters about it.

Paul

Paul Koprowski
U.S. EPA; Oregon Operations Office
805 SW Broadway, Suite 500
Portland, Oregon 97205
(503) 326-6363

From: Narvaez, Madonna

Sent: Friday, February 26, 2016 9:00 AM
To: McClintock, Katie <McClintock.Katie@epa.gov<mailto:McClintock.Katie@epa.gov>>; Averback, Jonathan <Averback.Jonathan@epa.gov<mailto:Averback.Jonathan@epa.gov>>; Barber, Anthony <Barber.Anthony@epa.gov<mailto:Barber.Anthony@epa.gov>>; Barnett, Keith <Barnett.Keith@epa.gov<mailto:Barnett.Keith@epa.gov>>; Bray, Dave <Bray.Dave@epa.gov<mailto:Bray.Dave@epa.gov>>; Bremer, Kristen <Bremer.Kristen@epa.gov<mailto:Bremer.Kristen@epa.gov>>; Cunningham, Roylene <Cunningham.Roylene@epa.gov<mailto:Cunningham.Roylene@epa.gov>>; Dalrymple, Anne <Dalrymple.Anne@epa.gov<mailto:Dalrymple.Anne@epa.gov>>; Davis, Alison <Davis.Alison@epa.gov<mailto:Davis.Alison@epa.gov>>; Davis, Matthew <Davis.Matthew@epa.gov<mailto:Davis.Matthew@epa.gov>>; Doster, Brian <Doster.Brian@epa.gov<mailto:Doster.Brian@epa.gov>>; Downey, Scott <Downey.Scott@epa.gov<mailto:Downey.Scott@epa.gov>>; Fairchild, Susan <Fairchild.Susan@epa.gov<mailto:Fairchild.Susan@epa.gov>>; Field, Chris <Field.Chris@epa.gov<mailto:Field.Chris@epa.gov>>; Fleming, Sheila <fleming.sheila@epa.gov<mailto:fleming.sheila@epa.gov>>; Franklin, Richard <Franklin.Richard@epa.gov<mailto:Franklin.Richard@epa.gov>>; Fried, Gregory <Fried.Gregory@epa.gov<mailto:Fried.Gregory@epa.gov>>; Froikin, Sara <Froikin.Sara@epa.gov<mailto:Froikin.Sara@epa.gov>>; Hall, Chris <Hall.Christopher@epa.gov<mailto:Hall.Christopher@epa.gov>>; Hastings, Janis <Hastings.Janis@epa.gov<mailto:Hastings.Janis@epa.gov>>; Hedgpeth, Zach <Hedgpeth.Zach@epa.gov<mailto:Hedgpeth.Zach@epa.gov>>; Holsman, Marianne <Holsman.Marianne@epa.gov<mailto:Holsman.Marianne@epa.gov>>; Ingemansen, Dean <Ingemansen.Dean@epa.gov<mailto:Ingemansen.Dean@epa.gov>>; Johnson, Steffan <johnson.steffan@epa.gov<mailto:johnson.steffan@epa.gov>>; Kaetzel, Rhonda <Kaetzel.Rhonda@epa.gov<mailto:Kaetzel.Rhonda@epa.gov>>; Keenan, John <keenan.john@epa.gov<mailto:keenan.john@epa.gov>>; Koerber, Mike <Koerber.Mike@epa.gov<mailto:Koerber.Mike@epa.gov>>; Koprowski, Paul <Koprowski.Paul@epa.gov<mailto:Koprowski.Paul@epa.gov>>; Kowalski, Ed <Kowalski.Edward@epa.gov<mailto:Kowalski.Edward@epa.gov>>; Leefers, Kristin <Leefers.Kristin@epa.gov<mailto:Leefers.Kristin@epa.gov>>; Lynch, Kira <lynch.kira@epa.gov<mailto:lynch.kira@epa.gov>>; Martenson, Eric <Martenson.Eric@epa.gov<mailto:Martenson.Eric@epa.gov>>; Matthews, Julie <Matthews.Juliane@epa.gov<mailto:Matthews.Juliane@epa.gov>>; McLerran, Dennis <mclerran.dennis@epa.gov<mailto:mclerran.dennis@epa.gov>>; Mitchell, Ken <Mitchell.Ken@epa.gov<mailto:Mitchell.Ken@epa.gov>>; Moon, Wally <Moon.Wally@epa.gov<mailto:Moon.Wally@epa.gov>>; Owens, Katharine <Owens.Katharine@epa.gov<mailto:Owens.Katharine@epa.gov>>; Page, Lee <Page.Lee@epa.gov<mailto:Page.Lee@epa.gov>>; Palma, Ted <Palma.Ted@epa.gov<mailto:Palma.Ted@epa.gov>>; Pirzadeh, Michelle <Pirzadeh.Michelle@epa.gov<mailto:Pirzadeh.Michelle@epa.gov>>; Rimer, Kelly <Rimer.Kelly@epa.gov<mailto:Rimer.Kelly@epa.gov>>; Rodman, Sonja <Rodman.Sonja@epa.gov<mailto:Rodman.Sonja@epa.gov>>; Smith, Judy <Smith.Judy@epa.gov<mailto:Smith.Judy@epa.gov>>; Stern, Allyn <Stern.Allyn@epa.gov<mailto:Stern.Allyn@epa.gov>>; Stewart, Michael <Stewart.Michael@epa.gov<mailto:Stewart.Michael@epa.gov>>; Stifelman, Marc <Stifelman.Marc@epa.gov<mailto:Stifelman.Marc@epa.gov>>; Taylor, Kevin <Taylor.Kevin@epa.gov<mailto:Taylor.Kevin@epa.gov>>; Terada, Calvin <Terada.Calvin@epa.gov<mailto:Terada.Calvin@epa.gov>>; Terry, Sara <Terry.Sara@epa.gov<mailto:Terry.Sara@epa.gov>>; Thrift, Mike <thrift.mike@epa.gov<mailto:thrift.mike@epa.gov>>; Tonel, Monica <Tonel.Monica@epa.gov<mailto:Tonel.Monica@epa.gov>>; Wendel, Arthur <Wendel.Arthur@epa.gov<mailto:Wendel.Arthur@epa.gov>>; Williamson, Ann <Williamson.Ann@epa.gov<mailto:Williamson.Ann@epa.gov>>; Wroble, Julie <Wroble.Julie@epa.gov<mailto:Wroble.Julie@epa.gov>>
Subject: RE: Colored Glass Daily Update 2-25-16

It should be noted that the amount of trivalent chromium that could be oxidized to hexavalent chromium depends on the amount of manganese being used. I don't remember if Bullseye uses manganese in their process.

From: McClintock, Katie
Sent: Thursday, February 25, 2016 9:37 PM
To: Averback, Jonathan <Averback.Jonathan@epa.gov<mailto:Averback.Jonathan@epa.gov>>; Barber, Anthony <Barber.Anthony@epa.gov<mailto:Barber.Anthony@epa.gov>>; Barnett, Keith <Barnett.Keith@epa.gov<mailto:Barnett.Keith@epa.gov>>; Bray, Dave <Bray.Dave@epa.gov<mailto:Bray.Dave@epa.gov>>; Bremer, Kristen <Bremer.Kristen@epa.gov<mailto:Bremer.Kristen@epa.gov>>; Cunningham, Roylene <Cunningham.Roylene@epa.gov<mailto:Cunningham.Roylene@epa.gov>>; Dalrymple, Anne <Dalrymple.Anne@epa.gov<mailto:Dalrymple.Anne@epa.gov>>; Davis, Alison <Davis.Alison@epa.gov<mailto:Davis.Alison@epa.gov>>; Davis, Matthew <Davis.Matthew@epa.gov<mailto:Davis.Matthew@epa.gov>>; Doster, Brian <Doster.Brian@epa.gov<mailto:Doster.Brian@epa.gov>>; Downey, Scott <Downey.Scott@epa.gov<mailto:Downey.Scott@epa.gov>>; Fairchild, Susan <Fairchild.Susan@epa.gov<mailto:Fairchild.Susan@epa.gov>>; Field, Chris <Field.Chris@epa.gov<mailto:Field.Chris@epa.gov>>; Fleming, Sheila <fleming.sheila@epa.gov<mailto:fleming.sheila@epa.gov>>; Franklin, Richard <Franklin.Richard@epa.gov<mailto:Franklin.Richard@epa.gov>>; Fried, Gregory <Fried.Gregory@epa.gov<mailto:Fried.Gregory@epa.gov>>; Froikin, Sara <Froikin.Sara@epa.gov<mailto:Froikin.Sara@epa.gov>>; Hall, Chris <Hall.Christopher@epa.gov<mailto:Hall.Christopher@epa.gov>>; Hastings, Janis <Hastings.Janis@epa.gov<mailto:Hastings.Janis@epa.gov>>; Hedgpeth, Zach <Hedgpeth.Zach@epa.gov<mailto:Hedgpeth.Zach@epa.gov>>; Holsman, Marianne <Holsman.Marianne@epa.gov<mailto:Holsman.Marianne@epa.gov>>; Ingemansen, Dean <Ingemansen.Dean@epa.gov<mailto:Ingemansen.Dean@epa.gov>>; Johnson, Steffan <johnson.steffan@epa.gov<mailto:johnson.steffan@epa.gov>>; Kaetzel, Rhonda <Kaetzel.Rhonda@epa.gov<mailto:Kaetzel.Rhonda@epa.gov>>; Keenan, John <keenan.john@epa.gov<mailto:keenan.john@epa.gov>>; Koerber, Mike <Koerber.Mike@epa.gov<mailto:Koerber.Mike@epa.gov>>; Koprowski, Paul <Koprowski.Paul@epa.gov<mailto:Koprowski.Paul@epa.gov>>; Kowalski, Ed <Kowalski.Edward@epa.gov<mailto:Kowalski.Edward@epa.gov>>; Leefers, Kristin <Leefers.Kristin@epa.gov<mailto:Leefers.Kristin@epa.gov>>; Lynch, Kira <lynch.kira@epa.gov<mailto:lynch.kira@epa.gov>>; Martenson, Eric <Martenson.Eric@epa.gov<mailto:Martenson.Eric@epa.gov>>; Matthews, Julie <Matthews.Juliane@epa.gov<mailto:Matthews.Juliane@epa.gov>>; McLerran, Dennis <mclerran.dennis@epa.gov<mailto:mclerran.dennis@epa.gov>>; Mitchell, Ken <Mitchell.Ken@epa.gov<mailto:Mitchell.Ken@epa.gov>>; Moon, Wally <Moon.Wally@epa.gov<mailto:Moon.Wally@epa.gov>>; Narvaez, Madonna <Narvaez.Madonna@epa.gov<mailto:Narvaez.Madonna@epa.gov>>; Owens, Katharine <Owens.Katharine@epa.gov<mailto:Owens.Katharine@epa.gov>>; Page, Lee <Page.Lee@epa.gov<mailto:Page.Lee@epa.gov>>; Palma, Ted <Palma.Ted@epa.gov<mailto:Palma.Ted@epa.gov>>; Pirzadeh, Michelle <Pirzadeh.Michelle@epa.gov<mailto:Pirzadeh.Michelle@epa.gov>>; Rimer, Kelly <Rimer.Kelly@epa.gov<mailto:Rimer.Kelly@epa.gov>>; Rodman, Sonja <Rodman.Sonja@epa.gov<mailto:Rodman.Sonja@epa.gov>>; Smith, Judy <Smith.Judy@epa.gov<mailto:Smith.Judy@epa.gov>>; Stern, Allyn <Stern.Allyn@epa.gov<mailto:Stern.Allyn@epa.gov>>; Stewart, Michael <Stewart.Michael@epa.gov<mailto:Stewart.Michael@epa.gov>>; Stifelman, Marc <Stifelman.Marc@epa.gov<mailto:Stifelman.Marc@epa.gov>>; Taylor, Kevin <Taylor.Kevin@epa.gov<mailto:Taylor.Kevin@epa.gov>>; Terada, Calvin <Terada.Calvin@epa.gov<mailto:Terada.Calvin@epa.gov>>; Terry, Sara <Terry.Sara@epa.gov<mailto:Terry.Sara@epa.gov>>; Thrift, Mike

<thrift.mike@epa.gov<mailto:thrift.mike@epa.gov>>; Tonel, Monica <Tonel.Monica@epa.gov<mailto:Tonel.Monica@epa.gov>>; Wendel, Arthur <Wendel.Arthur@epa.gov<mailto:Wendel.Arthur@epa.gov>>; Williamson, Ann <Williamson.Ann@epa.gov<mailto:Williamson.Ann@epa.gov>>; Wroble, Julie <Wroble.Julie@epa.gov<mailto:Wroble.Julie@epa.gov>>
Subject: Colored Glass Daily Update 2-25-16

Attached is the update for Colored glass and the most recent news articles Also I am including the link to the one drive. I changed the name to “colored glass” instead of “color glass” which unintentionally broke any old links.

Ex. 6 - Personal Privacy

Katie McClintock
Air Enforcement Officer
EPA Region 10
1200 Sixth Avenue, Suite 900, OCE-101
Seattle, WA 98101
Phone: 206-553-2143
Fax: 206-553-4743
Mcclintock.katie@epa.gov<mailto:Mcclintock.katie@epa.gov>

To: Koprowski, Paul[Koprowski.Paul@epa.gov]; Narvaez, Madonna[Narvaez.Madonna@epa.gov]; McClintock, Katie[McClintock.Katie@epa.gov]; Averback, Jonathan[Averback.Jonathan@epa.gov]; Barber, Anthony[Barber.Anthony@epa.gov]; Barnett, Keith[Barnett.Keith@epa.gov]; Bray, Dave[Bray.Dave@epa.gov]; Bremer, Kristen[Bremer.Kristen@epa.gov]; Cunningham, Roylene[Cunningham.Roylene@epa.gov]; Dalrymple, Anne[Dalrymple.Anne@epa.gov]; Davis, Alison[Davis.Alison@epa.gov]; Davis, Matthew[Davis.Matthew@epa.gov]; Doster, Brian[Doster.Brian@epa.gov]; Downey, Scott[Downey.Scott@epa.gov]; Fairchild, Susan[Fairchild.Susan@epa.gov]; Field, Chris[Field.Chris@epa.gov]; Fleming, Sheila[fleming.sheila@epa.gov]; Franklin, Richard[Franklin.Richard@epa.gov]; Fried, Gregory[Fried.Gregory@epa.gov]; Froikin, Sara[Froikin.Sara@epa.gov]; Hall, Chris[Hall.Christopher@epa.gov]; Hastings, Janis[Hastings.Janis@epa.gov]; Hedgpeth, Zach[Hedgpeth.Zach@epa.gov]; Holsman, Marianne[Holsman.Marianne@epa.gov]; Ingemansen, Dean[Ingemansen.Dean@epa.gov]; Johnson, Steffan[johnson.steffan@epa.gov]; Kaetzel, Rhonda[Kaetzel.Rhonda@epa.gov]; Keenan, John[keenan.john@epa.gov]; Koerber, Mike[Koerber.Mike@epa.gov]; Kowalski, Ed[Kowalski.Edward@epa.gov]; Leefers, Kristin[Leefers.Kristin@epa.gov]; Lynch, Kira[lynch.kira@epa.gov]; Martenson, Eric[Martenson.Eric@epa.gov]; Matthews, Julie[Matthews.Juliane@epa.gov]; McLerran, Dennis[mclerran.dennis@epa.gov]; Mitchell, Ken[Mitchell.Ken@epa.gov]; Moon, Wally[Moon.Wally@epa.gov]; Owens, Katharine[Owens.Katharine@epa.gov]; Page, Lee[Page.Lee@epa.gov]; Palma, Ted[Palma.Ted@epa.gov]; Pirzadeh, Michelle[Pirzadeh.Michelle@epa.gov]; Rimer, Kelly[Rimer.Kelly@epa.gov]; Rodman, Sonja[Rodman.Sonja@epa.gov]; Stern, Allyn[Stern.Allyn@epa.gov]; Stewart, Michael[Stewart.Michael@epa.gov]; Stifelman, Marc[Stifelman.Marc@epa.gov]; Taylor, Kevin[Taylor.Kevin@epa.gov]; Terada, Calvin[Terada.Calvin@epa.gov]; Terry, Sara[Terry.Sara@epa.gov]; Thrift, Mike[thrift.mike@epa.gov]; Tonel, Monica[Tonel.Monica@epa.gov]; Wendel, Arthur[Wendel.Arthur@epa.gov]; Williamson, Ann[Williamson.Ann@epa.gov]; Wroble, Julie[Wroble.Julie@epa.gov]
From: Smith, Judy
Sent: Fri 2/26/2016 6:17:33 PM
Subject: RE: Colored Glass Daily Update 2-25-16

Hi – I wasn't able to be on the call this morning where there was some discussion about a reference to an EPA letter in this morning's Oregonian. Here is the clarification/source from O reporter Rob Davis:

Hi Judy,

We included the letter in the documents linked in the story: https://www.documentcloud.org/documents/2723120-AQ-Permit-26-3135-Bullseye-Glass-Co-Multnomah.html#document/p160/a280079

It's page 120 of 353.

Cheers,

Rob

From: Koprowski, Paul
Sent: Friday, February 26, 2016 9:49 AM
To: Narvaez, Madonna <Narvaez.Madonna@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Averback, Jonathan <Averback.Jonathan@epa.gov>; Barber, Anthony <Barber.Anthony@epa.gov>; Barnett, Keith <Barnett.Keith@epa.gov>; Bray, Dave <Bray.Dave@epa.gov>; Bremer, Kristen <Bremer.Kristen@epa.gov>; Cunningham, Roylene <Cunningham.Roylene@epa.gov>; Dalrymple, Anne <Dalrymple.Anne@epa.gov>; Davis, Alison <Davis.Alison@epa.gov>; Davis, Matthew <Davis.Matthew@epa.gov>; Doster, Brian <Doster.Brian@epa.gov>; Downey, Scott <Downey.Scott@epa.gov>; Fairchild, Susan <Fairchild.Susan@epa.gov>; Field, Chris <Field.Chris@epa.gov>; Fleming, Sheila <fleming.sheila@epa.gov>; Franklin, Richard <Franklin.Richard@epa.gov>; Fried, Gregory <Fried.Gregory@epa.gov>; Froikin, Sara <Froikin.Sara@epa.gov>; Hall, Chris <Hall.Christopher@epa.gov>; Hastings, Janis <Hastings.Janis@epa.gov>; Hedgpeth, Zach <Hedgpeth.Zach@epa.gov>; Holsman, Marianne <Holsman.Marianne@epa.gov>; Ingemansen, Dean <Ingemansen.Dean@epa.gov>; Johnson, Steffan <johnson.steffan@epa.gov>; Kaetzel, Rhonda <Kaetzel.Rhonda@epa.gov>; Keenan, John <keenan.john@epa.gov>; Koerber, Mike <Koerber.Mike@epa.gov>; Kowalski, Ed <Kowalski.Edward@epa.gov>; Leefers, Kristin <Leefers.Kristin@epa.gov>; Lynch, Kira <lynch.kira@epa.gov>; Martenson, Eric <Martenson.Eric@epa.gov>; Matthews, Julie <Matthews.Juliane@epa.gov>; McLerran, Dennis <mclerran.dennis@epa.gov>; Mitchell, Ken <Mitchell.Ken@epa.gov>; Moon, Wally <Moon.Wally@epa.gov>; Owens, Katharine <Owens.Katharine@epa.gov>; Page, Lee <Page.Lee@epa.gov>; Palma, Ted <Palma.Ted@epa.gov>; Pirzadeh, Michelle <Pirzadeh.Michelle@epa.gov>; Rimer, Kelly <Rimer.Kelly@epa.gov>; Rodman, Sonja <Rodman.Sonja@epa.gov>; Smith, Judy <Smith.Judy@epa.gov>; Stern, Allyn <Stern.Allyn@epa.gov>; Stewart, Michael <Stewart.Michael@epa.gov>; Stifelman, Marc <Stifelman.Marc@epa.gov>; Taylor, Kevin <Taylor.Kevin@epa.gov>; Terada, Calvin <Terada.Calvin@epa.gov>; Terry, Sara <Terry.Sara@epa.gov>; Thrift, Mike <thrift.mike@epa.gov>; Tonel, Monica <Tonel.Monica@epa.gov>; Wendel, Arthur <Wendel.Arthur@epa.gov>; Williamson, Ann <Williamson.Ann@epa.gov>; Wroble, Julie <Wroble.Julie@epa.gov>
Subject: RE: Colored Glass Daily Update 2-25-16

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Katie McClintock

Air Enforcement Officer

EPA Region 10

1200 Sixth Avenue, Suite 900, OCE-101

Seattle, WA 98101

Phone: 206-553-2143

Fax: 206-553-4743

Mcclintock.katie@epa.gov

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From: Koprowski, Paul
Sent: Fri 2/26/2016 5:48:36 PM
Subject: RE: Colored Glass Daily Update 2-25-16

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1200 Sixth Avenue, Suite 900, OCE-101

Seattle, WA 98101

Phone: 206-553-2143

Fax: 206-553-4743

Mcclintock.katie@epa.gov

To: Averback, Jonathan[Averback.Jonathan@epa.gov]; Barber, Anthony[Barber.Anthony@epa.gov]; Barnett, Keith[Barnett.Keith@epa.gov]; Bray, Dave[Bray.Dave@epa.gov]; Bremer, Kristen[Bremer.Kristen@epa.gov]; Cunningham, Roylene[Cunningham.Roylene@epa.gov]; Dalrymple, Anne[Dalrymple.Anne@epa.gov]; Davis, Alison[Davis.Alison@epa.gov]; Davis, Matthew[Davis.Matthew@epa.gov]; Doster, Brian[Doster.Brian@epa.gov]; Downey, Scott[Downey.Scott@epa.gov]; Fairchild, Susan[Fairchild.Susan@epa.gov]; Field, Chris[Field.Chris@epa.gov]; Fleming, Sheila[fleming.sheila@epa.gov]; Franklin, Richard[Franklin.Richard@epa.gov]; Fried, Gregory[Fried.Gregory@epa.gov]; Froikin, Sara[Froikin.Sara@epa.gov]; Hall, Chris[Hall.Christopher@epa.gov]; Hastings, Janis[Hastings.Janis@epa.gov]; Hedgpeth, Zach[Hedgpeth.Zach@epa.gov]; Holsman, Marianne[Holsman.Marianne@epa.gov]; Ingemansen, Dean[Ingemansen.Dean@epa.gov]; Johnson, Steffan[johnson.steffan@epa.gov]; Kaetzel, Rhonda[Kaetzel.Rhonda@epa.gov]; Keenan, John[keenan.john@epa.gov]; Koerber, Mike[Koerber.Mike@epa.gov]; Koprowski, Paul[Koprowski.Paul@epa.gov]; Kowalski, Ed[Kowalski.Edward@epa.gov]; Leefers, Kristin[Leefers.Kristin@epa.gov]; Lynch, Kira[lynch.kira@epa.gov]; Martenson, Eric[Martenson.Eric@epa.gov]; Matthews, Julie[Matthews.Juliane@epa.gov]; McLerran, Dennis[mclerran.dennis@epa.gov]; Mitchell, Ken[Mitchell.Ken@epa.gov]; Moon, Wally[Moon.Wally@epa.gov]; Narvaez, Madonna[Narvaez.Madonna@epa.gov]; Owens, Katharine[Owens.Katharine@epa.gov]; Page, Lee[Page.Lee@epa.gov]; Palma, Ted[Palma.Ted@epa.gov]; Pirzadeh, Michelle[Pirzadeh.Michelle@epa.gov]; Rimer, Kelly[Rimer.Kelly@epa.gov]; Rodman, Sonja[Rodman.Sonja@epa.gov]; Smith, Judy[Smith.Judy@epa.gov]; Stern, Allyn[Stern.Allyn@epa.gov]; Stewart, Michael[Stewart.Michael@epa.gov]; Stifelman, Marc[Stifelman.Marc@epa.gov]; Taylor, Kevin[Taylor.Kevin@epa.gov]; Terada, Calvin[Terada.Calvin@epa.gov]; Terry, Sara[Terry.Sara@epa.gov]; Thrift, Mike[thrift.mike@epa.gov]; Tonel, Monica[Tonel.Monica@epa.gov]; Wendel, Arthur[Wendel.Arthur@epa.gov]; Williamson, Ann[Williamson.Ann@epa.gov]; Wroble, Julie[Wroble.Julie@epa.gov]
From: McClintock, Katie
Sent: Fri 2/26/2016 5:37:01 AM
Subject: Colored Glass Daily Update 2-25-16
Daily Update 2-25-16.docx
Media Monitoring Report Metal Release 02.23.2016.docx

Attached is the update for Colored glass and the most recent news articles Also I am including the link to the one drive. I changed the name to "colored glass" instead of "color glass" which unintentionally broke any old links.

Ex. 6 - Personal Privacy

Katie McClintock

Air Enforcement Officer

EPA Region 10

1200 Sixth Avenue, Suite 900, OCE-101

Seattle, WA 98101

Phone: 206-553-2143

Fax: 206-553-4743

Mcclintock.katie@epa.gov

Media Monitoring Report – Metal Release

Social and Traditional Media

February 23, 2016

Good Morning –

This is a situation specific media monitoring report relating to the Portland metals release. This report contains both traditional and social media sources.

Danielle on behalf of the HSPR Team

Traditional Media

Political

- Legislative leaders on lawmaking – Air pollution in SE Portland **(OPB: Think Out Loud)**
- Watch: Portland clean air groups speak to Oregon lawmakers **(KGW)**
- SE Portland residents plan rally at state capitol concerning heavy metal emissions **(FOX12)**
- Wyden, Merkley, Blumenauer ask CDC for help with Portland's toxic air **(Oregonian)**
- OR Lawmakers Ask Feds To Identify Risks Of Metals In Portland's Air **(OPB)**
- Portland residents rally in Salem for clean air **(KOIN6)**
- Lawmakers seek federal help in Portland "heavy metal" air readings **(KTVZ)**

Environment

- What You Need to Know About Heavy Metals Pollution in Portland **(OPB)**
- Portland struggling to contain growing air problem **(Maine News)**

Related topics

- DEQ fines Ninkasi Brewing over stormwater violations **(FOX12)**
- 450 gallons of diesel spill above Detroit Lake **(Statesman Journal)**
- Metro grants $377,406 for community-improvement projects in Northwest Portland **(Metro)**

Social Media

Online Groups – What they are discussing within the last 24 hours

- Neighbors for Clean Air **Facebook.**
  - **Comments:**
    - We now have 4,731 signatures, folks! Can you help us reach 5,000 this morning??? We can do it!! Please share. Thank you.
    - KGW is live streaming today's info hearing on air toxics. Link to KGW live stream.

- While the emerging public health emergency over air toxics has largely focused on high levels of cadmium near Bullseye Glass Co. in SE and Uroboros Glass Studio on the east side of the Fremont Bridge, there is little doubt that areas in and around Kenton are also being impacted by heavy metal pollutants. For example, federal researchers located elevated levels of arsenic and high levels of lead in moss in the vicinity of Kenton. As well, 2 oil re-refineries operate off N Marine Dr, American Petroleum Environmental Services, Inc. (APES) and Orrco, in or adjacent to Kenton. Hayden Island residents have alleged that APES is engaged in illegal off-gassing and emitting an unknown amount of various toxic heavy metals. Neighbors for Clean Air is delivering their petition, attached below, to Governor Kate Brown and the Oregon state legislature in Salem for the House Energy and Environment Committee's information session on air toxics in Portland tomorrow, the 23rd. So, for those looking to take some action on this situation, please consider signing the petition, which is only about 150 signatures away from meeting its goal of 4,000 signatures, before the information session tomorrow.
- OPB Think Out Loud posted: Tomorrow we talk with representatives from the Multnomah County Health Dept., and advocacy group - Neighbors For Clean Air. What do you want to know about heavy metal contamination in your neighborhood? (10 comments follow on the Fb page)

- Eastside Portland Air Coalition **(A.K.A** Inner SE/NE Air Quality**) Facebook**
  - **Note: This group has been very active within the previous 24 hours due to the hearing this morning in Salem. This is a marked increase from any previous report. There is more conversation on the Fb page than what is listed here.**
  - **Comments:**
    - Today 10/23 (This is a typo, today's date is 2/23) at 12:00 OPB (Think Out Loud) is discussing the issue of air toxins in Portland. If you'd like to comment on this topic, get in touch on Facebook or Twitter, send an email to thinkoutloud@opb.org, or call OPB during the noon hour at 1-888-665-5865
    - Our panelists are up!!! **Ex. 6 - Personal Privacy** Ex. 6 - Personal Privacy thank you all!!!
      - Ex. 6 - Personal Privacy I am very glad U all came today! A packed hearing room helps make an important impression!
    - Does anybody have the map from the forest service that shows where they took the moss samples from? Does anyone know where we can get our own moss testing or is soil sampling more accurate? I already asked forest service and they said "unfortunately, the decision has been made not to release any more data or maps at the moment."
      - Quite a long discussion of moss followed.
    - Is this the best email address for Lynne Saxton: OHA.DirectorsOffice@state.or.us?

- Rep. Weidner concerned we'll all be out of work, but have clean air, if we chase businesses away, new companies won't come. He ignores the fact they won't come if environment is poisoned and workforce is sick.
- Dick Pederson is saying that the DEQ has all the authority it needs to make new rules. Which means the DEQ could have made those rules years ago. Dick Pederson must be replaced. He's had his chance and failed.
- I have an idea for a photo to help draw attention to our cause and I'm looking for a pregnant woman. The more pregnant the better! Know anyone? The shoot will take maybe 15 minutes.I am a 30 year pro photographer. Some work I did for Clean Water Portland's highly successful campaign: Ex. 6 - Personal Privacy Photography
- DEQ says Bullseye has ceased using arsenic, etc. No, they have only suspended the use of these toxins. Very crucial difference.
- In Salem: DEQ Director Dick Pedersen testifying, reminds panel they were originally searching for wood burning and woodsmoke.
- Turn on OPB to listen to Think Out Loud - Ex. 6 - Personal Privacy s speaking on air toxics right now! **Ex. 6 - Personal Privacy** and other activists are on the show today too!
- I know that we are worried about the air pollution on the outside of these buildings but what about the health of the employees on the inside as well ??? The air quality is probably exponentially worse inside these plants ....
- Air toxics Energy & Environment hearing underway in Salem! Ex. 6 - Personal Privacy petition she's delivering has more than 4500 of our signatures! Love seeing all our light blue supporters & allies in the crowd, it's a packed room & lots of folks were sent to overflow seating!
- Rose City Park Neighborhood Association Board will be dedicating the first half of our March 1st meeting as a public forum on the RCP arsenic hotspot. Please join with your neighbors in participating in this discussion.Tues. March 1st from 7- 9 at the German American Society, 5626 NE Alameda. This information was shared on a Nextdoor Listserve by Tamara DeRidder, RCPNA chair.
- Submit Your Testimony! This came from a neighbor this morning: Looks like we can send in our testimony to be included in the public record for today's hearing. If interested, send it directly to Beth Patrino. Her info is on the House Committee On Energy and Environment page at the bottom under "staff". She is the Committee Administrator. Feel free to pass this info along to others. I didn't know there was a way to include testimony for the hearing until I spoke to someone at Rosenbaum's office. Although, you may have already have known this. I just sent my letter, to all the members on this page: https://olis.leg.state.or.us/.../2015.../Committees/HEE/Overview and copied Beth Patrino at: beth.patrino@state.or.us
- SALEM HEARING 101! We are so excited that so many of us will be at

the 8 am hearing tomorrow! Here's lots of info on getting there, what to expect, and logistics – please comment with any questions or your updates. Thanks to everyone who's going! + Two quick things – 1) please wear light blue or any shade of blue for a strong visual statement that we at EPAC want clean air (Ex. 6 - Personal Privacy will also have some extra blue Neighbors for Clean Air shirts anyone can wear!) + 2) Please consider writing YOUR story as your testimony. The speaking slots are full, with several activists speaking (yay!) but YOU can submit your testimony in writing. I will write a quick 101 on that shortly – we want to submit as many stories as we can, so please email it to eastsideportlandair@gmail.com by tonight, so we can print it out, OR bring a copy with you to Salem to be submitted in a big stack for a great visual effect! Great way to get involved if you can't go in person! + Yes, the bus still has spots! Please RSVP to let Neighbors for Clean Air know you'd like to ride with them. It leaves from Cleveland High School (26th & Powell) at 6:30 am sharp. We will have pens and paper available so you can hand-write your story on the bus ride down, and give it to Ex. 6 - Personal Privacy to submit with her testimony so it will go on record. Sign up to ride the bus right here! https://www.surveymonkey.com/r/BUStoSalem + If you are driving/carpooling, you can caravan with the bus and other cars – meet at Cleveland at 6:30 also. + Parking in Salem is either metered street parking near the Capitol – FYI, many meters just take quarters – or in the official underground lot, which has some card payment options. Best bet is to go by the bank today and bring a roll of quarters with you if you can! + We don't have a hearing room for the 8 am session yet but will update immediately when we get it. Go directly to the state capitol, go in through the main doors, and ask at the info desk where the 8 am hearing for Energy and Environment with Rep. Vega Pederson is being held. Our presence in numbers will be very powerful, even though speaking slots are limited to invited testimony – our statement is US. + We will be able to sit in either the hearing room or an overflow room during testimony. Ex. 6 - Personal Privacy Ex. 6 - Personal Privacy will speak near the end and will submit ALL our written stories as part of her testimony to show how many in our community are concerned and want action. Bring something to write with or a handwork project (like embroidery, drawing, knitting) during the hearing if you'd like to. Media will be allowed in the hearing as a public meeting, FYI. + After the hearing, you can quickly visit YOUR representative and senator's offices right there upstairs in the Capitol & let them or their staffers know you are concerned about air toxics and want their support on this huge issue. This is a great way to let our reps know what we care about! Find your reps' info and office numbers by entering your address HERE – you can click on Senate and House and quickly visit both! – https://www.oregonlegislature.gov/FindYo.../leg-districts.html + The bus will return to Cleveland High School by around 12 noon and EPAC

has several Portland action events planned soon – details to come ASAP! + THANK YOU ALL!!!

- In Salem... It seems clear that people think that Bullseye and Uroboros are no longer emitting toxics. We have no way of knowing that and no reason to think it's true when we know via the NIH that they're using lead and other toxic materials to make colored glass.

Hashtags

- It does not yet appear that any one hashtag has been adopted for this issue.
  - Eastside Portland Air Coalition group is discussing the following options:
    - #airmatters
    - #EPAC2016
    - #EPAC
    - #breathclean
    - #cleanairpdx
    - #cleanairmatters
    - #filtrateorvacate
    - #bagthatstack

- Janet McCabe sent her email to the ADDs (on onedrive)
  - Deadline of March 9, 2016 requests that regions:
    - Provide information on listed facilities
    - Communicate with states: inform them of OR issue, ask for their info and offer assistance to determine if similar concerns.
    - Let HQ know of special expertise.
- Oregon upcoming request for 60+ Section 114 Information Requests.
  - Oregon will be sending an official request for help investigating all other glass manufacturing operations identified in OR (list is still growing daily).
  - Why 114s? OR managers tell me the decision is that they need written information on whether each facility could be a source of metals to the atmosphere. They don't think a phone call is sufficient because they want a record.
  - Issues (some of which may be answered by letter)–
    - It is a lot of Information Requests and although the requests will be short
    - Unclear why these requests are best coming from EPA rather than from OR.
    - We can ask sources to send a copy of the response to OR but they don't have to do that, so OR may not get the data.
    - We do not understand the purpose (and therefore what info we need). Oregon now has a potential list of art glass plants (so they won't be surprised). Is there a need for it to be refined? Are they looking for sources of a particular size or are they wanting to quantify emissions from all. If so, why? Many factors go into emissions so although we can ask for metals usages, it won't tell us total emissions unless we get stack information, etc.
- Meteorological data review:
  - I met with Rob Elleman from Region 10 Office of Environmental Assessment. He reviewed the ambient monitoring data and the nearest met station data. Some takeaways from that meeting:
    - The met station available is a mile south and on a rooftop which makes its data not reliable for accurate meteorological information.
    - Having said that, most of the met data shows wind out of the SE and the monitor was NE of bullseye (meaning SW wind is the wind direction that would blow Bullseye emissions to the monitor).
    - The rail yard is right behind Bullseye in the same direction so it is impossible to differentiate source even based on that directionality.
    - The recorded peak days don't seem to correlate to Bullseye. One of each of the high Cadmium and Chromium days, Bullseye was not melting glass (Saturday). Rob says that these peak conditions would not persist until the next day.
    - Rob found out the samples at the monitor were 24 hour samples.
  - Though the met data is incomplete, there is some indication there may be other sources of concern in the area. Thought the moss maps seemed to correlate to glass plants, we should be potentially looking at other sources too.
- Hexavalent Chromium from glass melting

- We are continuing our learning about the 3 factors that could affect chrome VI emissions. This is an ongoing effort but I wanted to present what we have learned. Thanks to Stephanie Doolan and Steffan Johnson for their help so far.
- The overall summary is it seems concerning chrome emissions (hexavalent) from glass may be much smaller than cadmium or arsenic emissions.
- 1. How much chromium is emitted during melting (converse is: how much is retained in the glass)? New information gathered from industry indicates that 95-98% of chrome is retained in the glass. This is consistent with Bullseye's analysis which showed 76%, 93% and 94% retention (based on a lab analysis of finished glass, they had trouble getting a reliable result though).
- 2. How much of the chromium that leaves the glass becomes hex chrome (from trivalent chrome raw materials)?
  - There is a study on incinerators (on onedrive) that very little becomes hex chrome at the high temperatures we are discussing in glass furnaces.
  - Bullseye also operates its furnaces fuel lean (reducing) when melting green (chrome containing) glass. That will also decrease conversion to hexavalent.
- 3. Does Hexavalent chromium persist in the environment or does it convert back to trivalent chromium:
  - Information from R7 and OAQPS indicates that hexavalent chromium might not persist as easily in the environment and may reduce to trivalent. There is additional data that once it interacts with other media besides air it is also likely to reduce to trivalent. (both on onedrive)

- Spectrum:
  - Puget Sound and modeling:
    - Puget Sound took the lead asking for Spectrum for data for them to run a screening model. Steve Van Slyke talked to Spectrum president, Kyle Barker, today. Spectrum is very concerned that annual total metals usages should be CBI and he doesn't want to share them with Puget Sound. Steve gave him the option of doing further refining of that number to determine emission and even to run the screening model himself and provide information on assumptions and data. Kyle will weigh the options, speak with his consultant, and let Steve know by early next week when the data will be available.
  - Data production for EPA:
    - Spectrum's first submission was supposedly delivered today. They expect to send a second submittal tomorrow. We will review what data is submitted and determine if a 114 is necessary.
    - We will likely ask them to substantiate their CBI claim now based on the issues we are having around cbi and their significant number of claims and questions.
- Other:
  - Judy is putting great info on the onedrive
    - Incident managment team (IMT notes)
    - Communications and notes
    - Summary of press coverage (which I will also include in my emails)

- Lane County (LRAPA) inspected an art glass company – Aurora Glass – using 15-25 lbs/yr of manganese and cobalt.
- OR asking legislature for 2.5 million for a toxics program including lab and rule writing staff and a manager. Will also include monitoring equipment.
- 6S applicability – continued conversations within EPA. Decision resides likely within OAQPS.
- OR will be forming an internal group for reviewing chrome plating general permits.
- OR received a request about whether Hollingsworth and Vose could be a similar source to Bullseye (they use Cd). We will look into as well.
- Soil sampling has been completed. 50 samples were taken. Expect some results in next week and a finished report 3/7. They are testing soil for hex chrome.
- Region 10 is talking with NATA risk assessors to move forward on building the picture of the health impacts of the data collected.
- EPA ceramics experts are meeting with OR tomorrow to help them understand potential metals emissions from ceramics.
- The Portland Mercury has been digging into 6S applicability.
- Puget Sound has been contacted by the press on multiple occasions, including several times by Cassandra at OPB.
- EPA is going to look into a Records Management Plan.

To: Bray, Dave[Bray.Dave@epa.gov]; Suzuki, Debra[Suzuki.Debra@epa.gov]; Wilson, Wenona[Wilson.Wenona@epa.gov]; Dossett, Donald[Dossett.Donald@epa.gov]; Narvaez, Madonna[Narvaez.Madonna@epa.gov]; Koprowski, Paul[Koprowski.Paul@epa.gov]; Barber, Anthony[Barber.Anthony@epa.gov]; McClintock, Katie[McClintock.Katie@epa.gov]; Kowalski, Ed[Kowalski.Edward@epa.gov]; Downey, Scott[Downey.Scott@epa.gov]; Matthews, Julie[Matthews.Juliane@epa.gov]; Leefers, Kristin[Leefers.Kristin@epa.gov]; Wroble, Julie[Wroble.Julie@epa.gov]; Moon, Wally[Moon.Wally@epa.gov]
Cc: McArthur, Lisa[McArthur.Lisa@epa.gov]; Baron, Adam[Baron.Adam@epa.gov]; Pirzadeh, Michelle[Pirzadeh.Michelle@epa.gov]; Edmondson, Lucy[Edmondson.Lucy@epa.gov]; Werntz, James[Werntz.James@epa.gov]
From: Hastings, Janis
Sent: Fri 2/26/2016 12:55:53 AM
Subject: Internal EPA memo - Portland glass facilities (from Janet McCabe)
Memo from Janet McCabe on Art Glass Manf. emissions feb25.pdf

FYI

From: McCabe, Janet
Sent: Thursday, February 25, 2016 4:09 PM
To: Air Division Directors and Deputies <Air_Division_Directors_and_Deputies@epa.gov>
Cc: Koerber, Mike <Koerber.Mike@epa.gov>; Page, Steve <Page.Steve@epa.gov>; Giles-AA, Cynthia <Giles-AA.Cynthia@epa.gov>; McLerran, Dennis <mclerran.dennis@epa.gov>; Hastings, Janis <Hastings.Janis@epa.gov>; Stewart, Lori <Stewart.Lori@epa.gov>; Goffman, Joseph <Goffman.Joseph@epa.gov>; Cyran, Carissa <Cyran.Carissa@epa.gov>; Wortman, Eric <Wortman.Eric@epa.gov>
Subject: Portland glass facilities

Air Division Directors—

Attached is a memo in followup to the special purpose call OAQPS held yesterday about the glass facilities in Portland and beyond. Please contact Mike Koerber if you have any questions.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

FEB 2 5 2016

OFFICE OF
AIR AND RADIATION

MEMORANDUM

SUBJECT: Art Glass Manufacturing - Request for Regional Input

FROM: Janet G. McCabe
Acting Assistant Administrator

TO: Regional Air Division Directors
Regions 1-10

I am writing to make you aware of an air toxics situation that has been taking place in Region 10 and ask your assistance as we work to understand the national implications of this situation. In this memo, I am summarizing the situational background and the ways in which EPA is supporting Oregon to respond. I hope you were able to attend yesterday's special purpose call and have a better understanding of the situation on the ground in Portland. My specific asks of you moving forward are to, by March 9, 2016:

1. Provide any information you currently have about the sources we've identified (attached), and if you are aware of any additional art (or colored) glass manufacturing facilities not on this list.
2. Communicate with your states to:
    a. ensure they are aware of the issues associated with these sources in Oregon;
    b. offer your assistance in determining whether there are similar emissions of concern associated with these sources; and
    c. request your states provide any information they have about these sources.
3. Let me know if your Region has special expertise in this type of facility or control of these types of pollutants.

Background

The U.S. Forest Service (USFS), in a pilot study, found moss collected from trees around art glass manufacturers in the Portland area—and Bullseye Glass in particular—had much higher concentrations of heavy metals than other areas in the city. This result prompted the Oregon Department of Environmental Quality (ODEQ) to set up air monitoring systems near the company to collect 24-hour air samples every few days over a 30-day period in October 2015.

In early February, ODEQ made publicly available the results of that air monitoring, which showed high levels of cadmium and arsenic in the air and began investigating potential sources. Preliminary work suggests that the metals found in the monitoring were coming in large part from Bullseye Glass, an art glass manufacturing facility. Elevated cadmium levels were also found in proximity to another Portland glass manufacturer, Uroboros Glass. Both companies have suspended the use of chromium and

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cadmium; Bullseye, which also used arsenic, has suspended its use. ODEQ has provided a summary at http://www.deq.state.or.us/nwr/docs/metalsem/FSDEQAdressingAirToxics.pdf, and they are providing regular updates and technical information on the Portland Metals website at http://www.deq.state.or.us/nwr/metalsemissions.htm.

OAQPS has identified 14 other similar facilities, which, like Bullseye and Uroboros, may manufacture art glass and may use raw metals in their processes. A Clean Air Act National Emission Standards for Hazardous Air Pollutants (NESHAP) (40 CFR Part 63, Subpart SSSSSS) for glass manufacturing area sources has been in effect since 2007. This rule applies to continuous furnaces that produce 50 tons or more of glass per year using any amount of toxic metals in the glass recipe. As noted below, one area of investigation is the applicability of Part 63, Subpart SSSSSS to these and similar facilities.

EPA Assistance

The EPA has been fully engaged to support Oregon and others as this situation has developed, including supporting efforts to identify all art glass producers that might have similar issues and all other sources of metals emissions in Oregon.

In Region 10:

- Staff and management are working closely with state partners to provide significant assistance to ODEQ and the Oregon Health Authority (OHA). Oregon has set up an incident command structure for managing this issue, and the Region 10 Operations Office in Portland is part of the team, helping to coordinate EPA's assistance as a part of the state's ongoing work.

- EPA Region 10's focus has been on supporting Oregon to work directly with impacted facilities and to provide assistance in the development of air and soil sampling programs. Two weeks ago, EPA Region 10 enforcement staff, including an expert on glass manufacturing facilities, conducted a joint inspection with ODEQ of the Bullseye Glass Company and an EPA inspection of Uroboros Glass. The EPA subsequently inspected Spectrum Glass in Washington State and conducted a joint inspection with ODEQ of Northstar Glassworks in Portland. The EPA's engineers and technical specialists from across the country[1] have participated in subsequent technical meetings with ODEQ and Bullseye Glass to provide guidance on analytical methods to characterize the sources and information on technologies available to control emissions from glass manufacturing facilities. We have supported Oregon in their actions to secure agreements from the companies to stop using the compounds that are associated with the toxic emissions found in the air monitoring until other solutions can be developed. ODEQ and OHA have been very proactive in their efforts to identify risks to the public from air toxics and in response to this specific situation.

- For the assessment of impacts, EPA Region 10 has loaned air monitoring equipment and provided supplies to ODEQ for collection of air samples to analyze for heavy metals. The EPA has also loaned ODEQ equipment to analyze soil samples and offered access to one of the EPA's science and technical assistance contractors. The EPA air and cleanup staff have offered assistance in the development of air and soil sampling programs. In addition, the EPA risk assessors stand ready to

[1] Region 10 added experts to our team from Region 7, which has worked extensively with the development of the Wool Fiberglass Rule to determine and address hexavalent chromium emissions in EJ neighborhoods. Also, OAQPS' Measurement Technology Group is providing guidance and information on hexavalent chromium emissions measurement methods. The National Risk Management Laboratory has provided background materials on chromium reactions at high temperatures.

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work with the OHA, Multnomah County Health Department, and the Agency for Toxics Substances and Disease Registry to help assess and communicate the public health risks using the limited data currently available and to refine the assessment as more information becomes available on concentrations of metals in the air and soil.

At Headquarters:

- Relevant experts from the Office of Air Quality Planning and Standards (OAQPS) and the Office of Research and Development (ORD) are providing technical support to Region 10 on source testing, health impacts of air toxics levels and other monitoring and impacts issues as they arise.
- The Office of Enforcement and Compliance Assistance (OECA), the Office of General Counsel (OGC) and OAQPS are jointly investigating the applicability of Part 63, Subpart SSSSSS to these and similar facilities nationally.
- OECA and Region 10 have also discussed potential use of authority under Clean Air Act Section 114 to request additional information from facilities nationwide.
- OAQPS is working to improve our characterizations of emissions from art glass manufacturing facilities.
- OAQPS and ORD are collaborating to assess the viability of the original USFS study as a screening methodology for air toxics and review screening modeling by state of Washington. This will help determine whether this modeling can be applied to other art glass manufacturing facilities.
- OAQPS is also considering the feasibility of using the Community Scale Air Toxics Ambient Monitoring funds (FY16) to reimburse the ODEQ for Portland monitoring and conduct new monitoring around other plants.

We will keep you posted on these activities and look forward to receiving additional information from you as requested above. If you or your states have questions, please contact Mike Koerber in OAQPS.

Attachment

ED_000719_00000185-00003

	Company Name	Street Address	Region	City	State	Zip	Phone		Notes
1	Steuben	One Museum Way	2	Corning	NY	14830	607	937-5371	fabricator?
2	Blenko Glass	9 Bill Blenko Dr.	3	Milton	WV	25541	304	743-9081	
3	Youghiogheny Glass	300 S 1st Street	3	Connellsville	PA	15425	724	628-3000	
4	Wissmach Glass	420 Stephen St.	3	Paden City	WV	26159	304	337-2253	
5	Fenton Glass	700 Elizabeth St	3	Williamstown	WV	26187	304	375-6122	closed but permitted
6	Armstrong Glass	55 Chastain Road NW	4	Kennesaw	GA	30144	770	919-9924	
7	Origin Glass (Elan Technologies)	169 Elan Court	4	Midway	GA	31320	912	880-3526	
8	Parramore Glass	PO BOX 2777	4	Asheville	NC	28802	828	456-4414	
9	Franklin glass	222 East Sycamore St	5	Columbus	OH	43206	614	221-2972	
10	Kokomo Glass	1310 S. Market St.	5	Kokomo	IN	46902	765	457-8136	
11	Pacific Art Glass	125 West 157th St	9	Gardena	CA	90248	310	780-4047	fabricator?
12	Uroboros Glass	2139 N. Kerby Ave. SE	10	Portland	OR	97227	503	284-4900	
13	Spectrum Glass	21415 87th Avenue SE	10	Woodinville	WA	98072	425	483-6699	
14	Bullseye glass	3722 SE 21st Ave	10	Portland	OR	97202	503	232-8887	
15	System 96	24105 Snohomish-Woodinvile Roa	10	Woodinville	WA	98072	425	483-6699	fabricator?
16	Northstar Glassworks	8228 SE 26th Place	10	Portland	OR	97202	866	684-6986	makes colored borosilicate glass
17	Trautman Art glass		10	Portland	OR				
18	Glass Alchemy		10	Portland	OR				
19	Momka's Glass	19580 23rd Avenue NE	10	Arlington	WA	98223	425	776-3417	

To: McClintock, Katie[McClintock.Katie@epa.gov]; Averback, Jonathan[Averback.Jonathan@epa.gov]; Barber, Anthony[Barber.Anthony@epa.gov]; Barnett, Keith[Barnett.Keith@epa.gov]; Bray, Dave[Bray.Dave@epa.gov]; Bremer, Kristen[Bremer.Kristen@epa.gov]; Cunningham, Roylene[Cunningham.Roylene@epa.gov]; Dalrymple, Anne[Dalrymple.Anne@epa.gov]; Davis, Alison[Davis.Alison@epa.gov]; Davis, Matthew[Davis.Matthew@epa.gov]; Doster, Brian[Doster.Brian@epa.gov]; Downey, Scott[Downey.Scott@epa.gov]; Fairchild, Susan[Fairchild.Susan@epa.gov]; Field, Chris[Field.Chris@epa.gov]; Fleming, Sheila[fleming.sheila@epa.gov]; Franklin, Richard[Franklin.Richard@epa.gov]; Fried, Gregory[Fried.Gregory@epa.gov]; Froikin, Sara[Froikin.Sara@epa.gov]; Hall, Chris[Hall.Christopher@epa.gov]; Hastings, Janis[Hastings.Janis@epa.gov]; Hedgpeth, Zach[Hedgpeth.Zach@epa.gov]; Holsman, Marianne[Holsman.Marianne@epa.gov]; Ingemansen, Dean[Ingemansen.Dean@epa.gov]; Johnson, Steffan[johnson.steffan@epa.gov]; Kaetzel, Rhonda[Kaetzel.Rhonda@epa.gov]; Keenan, John[keenan.john@epa.gov]; Koerber, Mike[Koerber.Mike@epa.gov]; Koprowski, Paul[Koprowski.Paul@epa.gov]; Kowalski, Ed[Kowalski.Edward@epa.gov]; Leefers, Kristin[Leefers.Kristin@epa.gov]; Lynch, Kira[lynch.kira@epa.gov]; Martenson, Eric[Martenson.Eric@epa.gov]; Matthews, Julie[Matthews.Juliane@epa.gov]; McLerran, Dennis[mclerran.dennis@epa.gov]; Moon, Wally[Moon.Wally@epa.gov]; Narvaez, Madonna[Narvaez.Madonna@epa.gov]; Owens, Katharine[Owens.Katharine@epa.gov]; Pirzadeh, Michelle[Pirzadeh.Michelle@epa.gov]; Rodman, Sonja[Rodman.Sonja@epa.gov]; Stern, Allyn[Stern.Allyn@epa.gov]; Stifelman, Marc[Stifelman.Marc@epa.gov]; Terada, Calvin[Terada.Calvin@epa.gov]; Terry, Sara[Terry.Sara@epa.gov]; Thrift, Mike[thrift.mike@epa.gov]; Tonel, Monica[Tonel.Monica@epa.gov]; Wendel, Arthur[Wendel.Arthur@epa.gov]; Williamson, Ann[Williamson.Ann@epa.gov]; Wroble, Julie[Wroble.Julie@epa.gov]
From: Smith, Judy
Sent: Thur 2/25/2016 2:39:02 PM
Subject: Re: Colored Glass Daily Update 2-24-16 - Adding Media Monitoring Report
Media Monitoring Report Metal Release 02.23.2016.docx

Here is the daily media monitoring report from OHA. Beginning today, I'll get it to Katie so that she can include it along with the daily update. These are also filed in the Color Glass press folder. Judy

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From: McClintock, Katie
Sent: Wednesday, February 24, 2016 10:41 PM
To: Averback, Jonathan; Barber, Anthony; Barnett, Keith; Bray, Dave; Bremer, Kristen; Cunningham, Roylene; Dalrymple, Anne; Davis, Alison; Davis, Matthew; Doster, Brian; Downey, Scott; Fairchild, Susan; Field, Chris; Fleming, Sheila; Franklin, Richard; Fried, Gregory; Froikin, Sara; Hall, Chris; Hastings, Janis; Hedgpeth, Zach; Holsman, Marianne; Ingemansen, Dean; Johnson, Steffan; Kaetzel, Rhonda; Keenan, John; Koerber, Mike; Koprowski, Paul; Kowalski, Ed; Leefers, Kristin; Lynch, Kira; Martenson, Eric; Matthews, Julie; McLerran, Dennis; Moon, Wally; Narvaez, Madonna; Owens, Katharine; Pirzadeh, Michelle; Rodman, Sonja; Smith, Judy; Stern, Allyn; Stifelman, Marc; Terada, Calvin; Terry, Sara; Thrift, Mike; Tonel, Monica; Wendel, Arthur; Williamson, Ann; Wroble, Julie
Subject: Colored Glass Daily Update 2-24-16

Note to people who are identifying sources – borosilicate manufactures of colored glass identified in my update (I did more research to corroborate after heard from one of the companies).

Katie McClintock

Air Enforcement Officer

EPA Region 10

1200 Sixth Avenue, Suite 900, OCE-101

Seattle, WA 98101

Phone: 206-553-2143

Fax: 206-553-4743

Mcclintock.katie@epa.gov

Media Monitoring Report – Metal Release

Social and Traditional Media

February 23, 2016

Good Morning –

This is a situation specific media monitoring report relating to the Portland metals release. This report contains both traditional and social media sources.

Danielle on behalf of the HSPR Team

Traditional Media

Political

- Legislative leaders on lawmaking – Air pollution in SE Portland **(OPB: Think Out Loud)**
- Watch: Portland clean air groups speak to Oregon lawmakers **(KGW)**
- SE Portland residents plan rally at state capitol concerning heavy metal emissions **(FOX12)**
- Wyden, Merkley, Blumenauer ask CDC for help with Portland's toxic air **(Oregonian)**
- OR Lawmakers Ask Feds To Identify Risks Of Metals In Portland's Air **(OPB)**
- Portland residents rally in Salem for clean air **(KOIN6)**
- Lawmakers seek federal help in Portland "heavy metal" air readings **(KTVZ)**

Environment

- What You Need to Know About Heavy Metals Pollution in Portland **(OPB)**
- Portland struggling to contain growing air problem **(Maine News)**

Related topics

- DEQ fines Ninkasi Brewing over stormwater violations **(FOX12)**
- 450 gallons of diesel spill above Detroit Lake **(Statesman Journal)**
- Metro grants $377,406 for community-improvement projects in Northwest Portland **(Metro)**

Social Media

Online Groups – What they are discussing within the last 24 hours

- Neighbors for Clean Air **Facebook.**
  - **Comments:**
    - We now have 4,731 signatures, folks! Can you help us reach 5,000 this morning??? We can do it!! Please share. Thank you.
    - KGW is live streaming today's info hearing on air toxics. Link to KGW live stream.

- While the emerging public health emergency over air toxics has largely focused on high levels of cadmium near Bullseye Glass Co. in SE and Uroboros Glass Studio on the east side of the Fremont Bridge, there is little doubt that areas in and around Kenton are also being impacted by heavy metal pollutants. For example, federal researchers located elevated levels of arsenic and high levels of lead in moss in the vicinity of Kenton. As well, 2 oil re-refineries operate off N Marine Dr, American Petroleum Environmental Services, Inc. (APES) and Orrco, in or adjacent to Kenton. Hayden Island residents have alleged that APES is engaged in illegal off-gassing and emitting an unknown amount of various toxic heavy metals. Neighbors for Clean Air is delivering their petition, attached below, to Governor Kate Brown and the Oregon state legislature in Salem for the House Energy and Environment Committee's information session on air toxics in Portland tomorrow, the 23rd. So, for those looking to take some action on this situation, please consider signing the petition, which is only about 150 signatures away from meeting its goal of 4,000 signatures, before the information session tomorrow.
- OPB Think Out Loud posted: Tomorrow we talk with representatives from the Multnomah County Health Dept., and advocacy group - Neighbors For Clean Air. What do you want to know about heavy metal contamination in your neighborhood? (10 comments follow on the Fb page)

- Eastside Portland Air Coalition **(A.K.A Inner SE/NE Air Quality) Facebook**
  - **Note: This group has been very active within the previous 24 hours due to the hearing this morning in Salem. This is a marked increase from any previous report. There is more conversation on the Fb page than what is listed here.**
  - **Comments:**
    - Today 10/23 (This is a typo, today's date is 2/23) at 12:00 OPB (Think Out Loud) is discussing the issue of air toxins in Portland. If you'd like to comment on this topic, get in touch on Facebook or Twitter, send an email to thinkoutloud@opb.org, or call OPB during the noon hour at 1-888-665-5865
    - Our panelists are up!!! **Ex. 6 - Personal Privacy** Ex. 6 - Personal Privacy thank you all!!!
      - Ex. 6 - Personal Privacy I am very glad U all came today! A packed hearing room helps make an important impression!
    - Does anybody have the map from the forest service that shows where they took the moss samples from? Does anyone know where we can get our own moss testing or is soil sampling more accurate? I already asked forest service and they said "unfortunately, the decision has been made not to release any more data or maps at the moment."
      - Quite a long discussion of moss followed.
    - Is this the best email address for Lynne Saxton: OHA.DirectorsOffice@state.or.us?

- Rep. Weidner concerned we'll all be out of work, but have clean air, if we chase businesses away, new companies won't come. He ignores the fact they won't come if environment is poisoned and workforce is sick.
- Dick Pederson is saying that the DEQ has all the authority it needs to make new rules. Which means the DEQ could have made those rules years ago. Dick Pederson must be replaced. He's had his chance and failed.
- I have an idea for a photo to help draw attention to our cause and I'm looking for a pregnant woman. The more pregnant the better! Know anyone? The shoot will take maybe 15 minutes.I am a 30 year pro photographer. Some work I did for Clean Water Portland's highly successful campaign: Ex. 6 - Personal Privacy Photography
- DEQ says Bullseye has ceased using arsenic, etc. No, they have only suspended the use of these toxins. Very crucial difference.
- In Salem: DEQ Director Dick Pedersen testifying, reminds panel they were originally searching for wood burning and woodsmoke.
- Turn on OPB to listen to Think Out Loud - Ex. 6 - Personal Privacy is speaking on air toxics right now! **Ex. 6 - Personal Privacy** and other activists are on the show today too!
- I know that we are worried about the air pollution on the outside of these buildings but what about the health of the employees on the inside as well ??? The air quality is probably exponentially worse inside these plants ....
- Air toxics Energy & Environment hearing underway in Salem! Sheryl's petition she's delivering has more than 4500 of our signatures! Love seeing all our light blue supporters & allies in the crowd, it's a packed room & lots of folks were sent to overflow seating!
- Rose City Park Neighborhood Association Board will be dedicating the first half of our March 1st meeting as a public forum on the RCP arsenic hotspot. Please join with your neighbors in participating in this discussion.Tues. March 1st from 7- 9 at the German American Society, 5626 NE Alameda. This information was shared on a Nextdoor Listserve by Tamara DeRidder, RCPNA chair.
- Submit Your Testimony! This came from a neighbor this morning: Looks like we can send in our testimony to be included in the public record for today's hearing. If interested, send it directly to Beth Patrino. Her info is on the House Committee On Energy and Environment page at the bottom under "staff". She is the Committee Administrator. Feel free to pass this info along to others. I didn't know there was a way to include testimony for the hearing until I spoke to someone at Rosenbaum's office. Although, you may have already have known this. I just sent my letter, to all the members on this page: https://olis.leg.state.or.us/.../2015.../Committees/HEE/Overview and copied Beth Patrino at: beth.patrino@state.or.us
- SALEM HEARING 101! We are so excited that so many of us will be at

the 8 am hearing tomorrow! Here's lots of info on getting there, what to expect, and logistics – please comment with any questions or your updates. Thanks to everyone who's going! + Two quick things – 1) please wear light blue or any shade of blue for a strong visual statement that we at EPAC want clean air (Ex. 6 - Personal Privacy will also have some extra blue Neighbors for Clean Air shirts anyone can wear!) + 2) Please consider writing YOUR story as your testimony. The speaking slots are full, with several activists speaking (yay!) but YOU can submit your testimony in writing. I will write a quick 101 on that shortly – we want to submit as many stories as we can, so please email it to eastsideportlandair@gmail.com by tonight, so we can print it out, OR bring a copy with you to Salem to be submitted in a big stack for a great visual effect! Great way to get involved if you can't go in person! + Yes, the bus still has spots! Please RSVP to let Neighbors for Clean Air know you'd like to ride with them. It leaves from Cleveland High School (26th & Powell) at 6:30 am sharp. We will have pens and paper available so you can hand-write your story on the bus ride down, and give it to [redacted] to submit with her testimony so it will go on record. Sign up to ride the bus right here! **https://www.surveymonkey.com/r/BUStoSalem** + If you are driving/carpooling, you can caravan with the bus and other cars – meet at Cleveland at 6:30 also. + Parking in Salem is either metered street parking near the Capitol – FYI, many meters just take quarters – or in the official underground lot, which has some card payment options. Best bet is to go by the bank today and bring a roll of quarters with you if you can! + We don't have a hearing room for the 8 am session yet but will update immediately when we get it. Go directly to the state capitol, go in through the main doors, and ask at the info desk where the 8 am hearing for Energy and Environment with Rep. Vega Pederson is being held. Our presence in numbers will be very powerful, even though speaking slots are limited to invited testimony – our statement is US. + We will be able to sit in either the hearing room or an overflow room during testimony. Mary Peveto will speak near the end and will submit ALL our written stories as part of her testimony to show how many in our community are concerned and want action. Bring something to write with or a handwork project (like embroidery, drawing, knitting) during the hearing if you'd like to. Media will be allowed in the hearing as a public meeting, FYI. + After the hearing, you can quickly visit YOUR representative and senator's offices right there upstairs in the Capitol & let them or their staffers know you are concerned about air toxics and want their support on this huge issue. This is a great way to let our reps know what we care about! Find your reps' info and office numbers by entering your address HERE – you can click on Senate and House and quickly visit both! – **https://www.oregonlegislature.gov/FindYo.../leg-districts.html** + The bus will return to Cleveland High School by around 12 noon and EPAC

has several Portland action events planned soon – details to come ASAP! + THANK YOU ALL!!!

- In Salem... It seems clear that people think that Bullseye and Uroboros are no longer emitting toxics. We have no way of knowing that and no reason to think it's true when we know via the NIH that they're using lead and other toxic materials to make colored glass.

Hashtags

- It does not yet appear that any one hashtag has been adopted for this issue.
  - Eastside Portland Air Coalition group is discussing the following options:
    - #airmatters
    - #EPAC2016
    - #EPAC
    - #breathclean
    - #cleanairpdx
    - #cleanairmatters
    - #filtrateorvacate
    - #bagthatstack

To: Averback, Jonathan[Averback.Jonathan@epa.gov]; Barber, Anthony[Barber.Anthony@epa.gov]; Barnett, Keith[Barnett.Keith@epa.gov]; Bray, Dave[Bray.Dave@epa.gov]; Bremer, Kristen[Bremer.Kristen@epa.gov]; Cunningham, Roylene[Cunningham.Roylene@epa.gov]; Dalrymple, Anne[Dalrymple.Anne@epa.gov]; Davis, Alison[Davis.Alison@epa.gov]; Davis, Matthew[Davis.Matthew@epa.gov]; Doster, Brian[Doster.Brian@epa.gov]; Downey, Scott[Downey.Scott@epa.gov]; Fairchild, Susan[Fairchild.Susan@epa.gov]; Field, Chris[Field.Chris@epa.gov]; Fleming, Sheila[fleming.sheila@epa.gov]; Franklin, Richard[Franklin.Richard@epa.gov]; Fried, Gregory[Fried.Gregory@epa.gov]; Froikin, Sara[Froikin.Sara@epa.gov]; Hall, Chris[Hall.Christopher@epa.gov]; Hastings, Janis[Hastings.Janis@epa.gov]; Hedgpeth, Zach[Hedgpeth.Zach@epa.gov]; Holsman, Marianne[Holsman.Marianne@epa.gov]; Ingemansen, Dean[Ingemansen.Dean@epa.gov]; Johnson, Steffan[johnson.steffan@epa.gov]; Kaetzel, Rhonda[Kaetzel.Rhonda@epa.gov]; Keenan, John[keenan.john@epa.gov]; Koerber, Mike[Koerber.Mike@epa.gov]; Koprowski, Paul[Koprowski.Paul@epa.gov]; Kowalski, Ed[Kowalski.Edward@epa.gov]; Leefers, Kristin[Leefers.Kristin@epa.gov]; Lynch, Kira[lynch.kira@epa.gov]; Martenson, Eric[Martenson.Eric@epa.gov]; Matthews, Julie[Matthews.Juliane@epa.gov]; McLerran, Dennis[mclerran.dennis@epa.gov]; Moon, Wally[Moon.Wally@epa.gov]; Narvaez, Madonna[Narvaez.Madonna@epa.gov]; Owens, Katharine[Owens.Katharine@epa.gov]; Pirzadeh, Michelle[Pirzadeh.Michelle@epa.gov]; Rodman, Sonja[Rodman.Sonja@epa.gov]; Smith, Judy[Smith.Judy@epa.gov]; Stern, Allyn[Stern.Allyn@epa.gov]; Stifelman, Marc[Stifelman.Marc@epa.gov]; Terada, Calvin[Terada.Calvin@epa.gov]; Terry, Sara[Terry.Sara@epa.gov]; Thrift, Mike[thrift.mike@epa.gov]; Tonel, Monica[Tonel.Monica@epa.gov]; Wendel, Arthur[Wendel.Arthur@epa.gov]; Williamson, Ann[Williamson.Ann@epa.gov]; Wroble, Julie[Wroble.Julie@epa.gov]
From: McClintock, Katie
Sent: Thur 2/25/2016 6:41:38 AM
Subject: Colored Glass Daily Update 2-24-16
Daily Update 2-24-16.docx

Note to people who are identifying sources – borosilicate manufactures of colored glass identified in my update (I did more research to corroborate after heard from one of the companies).

Katie McClintock

Air Enforcement Officer

EPA Region 10

1200 Sixth Avenue, Suite 900, OCE-101

Seattle, WA 98101

Phone: 206-553-2143

Fax: 206-553-4743

Mcclintock.katie@epa.gov

- ADD call
  - We had a brief 30 min call this morning that was well attended by OAQPS and all regions except potentially 6 and 8 (though several beeps came on after roll).
  - I provided a summary of what started this (moss and ambient data), what we have done, and what we have found about other manufacturers. There was only a brief discussion about what is required of people and it was emphasized that there is not yet a national strategy. The email from Janet with requests was sent after the meeting.
- Northstar Glass
  - The president of Northstar Glassworks called me today to discuss more their plan moving forward (this is the source we inspected yesterday)
  - Plan for controls –They have two baghouses on site and will install one on raw material/crushing and one on the furnaces. He is a chemist and he clearly understands the issues with controlling gaseous emissions. He says they will install regardless of any information on ambient impacts from his facility.
  - Guidance – He requested guidance on what will DEQ require so that they don't do something different now than what will be required by regulation or legislation. I pointed him to DEQ but said Bullseye and others are in this boat and we are aware.
  - Testing info – He is partnered closely with a New Zealand company with an operation almost identical to Bullseye which supposedly has controls and has done a lot of testing. He is hoping to be able to send me some testing data in the next week.
  - Knowledge – He also shared information on retention of metals and his industry (see below for industry)
    - He said for cadmium and selenium only about 20% is retained in the glass. For chromium, about 95-98% is retained. He said this is common knowledge in the industry and pointed me to an expert and "old glass books."
  - Previous address: They moved in September which means there will NOT be a moss hot spot associated with their operation (that study was in May). Their previous address is outside of the moss map, but in case we need it, it is 9386 Sw Tigard St, Tigard OR, 97223.
- Glass retention information:
  - I have enlisted Liz Doyle to help do some glass chemistry research. She has already been hard at work. I will be reviewing this data and will hopefully have more info tomorrow.
  - Consider hiring a glass expert – Alexis Clare at Alfred university was mentioned by Northstar glass, but could look at others.
- Other manufacturers – according to Abe Fleishman, owner of Northstar Glass:
  - 30% of the world's art glass is made in Portland!
  - There are 6 many companies doing borosilicate color glass in the country:
    - 3 in Portland: Trautman Art Glass, Glass Alchemy and Northstar
    - Momka's Glass – Arlington, WA
    - Origin Glass (division of Elan Technologies) – Midway, GA
    - Parramore Colors – Asheville, NC
- Call with Steve van Slyke from Puget Sound Clean Air Agency about Spectrum:

- He is eager to get annual metals usages from Spectrum to do a screening model. I reached out to Spectrum but after some resistance today have roped in Puget Sound into the conversation so that hopefully we can get the data in the next day or two.
- We talked about his proposed path to understanding ambient impacts:
  - Get annual metals usage and potentially stack flow/height data.
  - Puget Sound will run a screening model based on very conservative assumptions. Can be done in a week (or much less) after get data.
  - If that model predicts and impact, then adjust some assumptions to a more reasonable level and run again.
  - If it is still above, then consider other options such as:
    - Requiring source/source's contractor to do a more comprehensive dispersion model.
    - Requiring stack testing
    - Installing ambient monitors nearby.
- Concerns that ambient monitor will not only be unclear about the source attribution but also are dependent on operation and a dispersion model doesn't require they are melting the material on the day/period of the ambient monitoring or stack testing – can model it at any time.
- Also discussed Ardagh and they are VERY supportive of us sending a 114 to Ardagh to get more information in their metals usage.

- Spectrum related news:
  - The PI had an article on Portland and whether something similar is happening in Seattle (article conclusion is, "no"). It specifically identifies Spectrum and Ardagh.
  - Spectrum put out a press release on a Glass Guild facebook page and has some information on their own website.

To: MacIntyre, Mark[Macintyre.Mark@epa.gov]; Holsman, Marianne[Holsman.Marianne@epa.gov]; Philip, Jeff[Philip.Jeff@epa.gov]; Smith, Judy[Smith.Judy@epa.gov]; Barber, Anthony[Barber.Anthony@epa.gov]; Downey, Scott[Downey.Scott@epa.gov]
From: McClintock, Katie
Sent: Thur 2/25/2016 6:03:25 AM
Subject: RE: No sign of Portland-like air pollution in Seattle - seattlepi.com

Thanks for sharing Mark. I'm surprised it took this long for press to pick it up up here. It definitely tells a rosier picture than reality is since Spectrum does not have all of its glass production controlled with baghouses. I'll add this link to my daily update.

Katie

From: MacIntyre, Mark
Sent: Wednesday, February 24, 2016 10:00 PM
To: Holsman, Marianne <Holsman.Marianne@epa.gov>; Philip, Jeff <Philip.Jeff@epa.gov>; Smith, Judy <Smith.Judy@epa.gov>; Barber, Anthony <Barber.Anthony@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Downey, Scott <Downey.Scott@epa.gov>
Subject: Fwd: No sign of Portland-like air pollution in Seattle - seattlepi.com

FYI only!!!

Sent from my iPhone

Begin forwarded message:

From: Mark MacIntyre <mmseattleite@yahoo.com>
Date: February 24, 2016 at 9:53:37 PM PST
To: Mark MacIntyre <macintyre.mark@epa.gov>
Subject: No sign of Portland-like air pollution in Seattle - seattlepi.com

http://www.seattlepi.com/local/environment/article/No-sign-of-Portland-like-metal-air-pollution-in-6852591.php

Sent from my iPad

To: Franklin, Richard[Franklin.Richard@epa.gov]; McClintock, Katie[McClintock.Katie@epa.gov]; Averback, Jonathan[Averback.Jonathan@epa.gov]; Barber, Anthony[Barber.Anthony@epa.gov]; Barnett, Keith[Barnett.Keith@epa.gov]; Bray, Dave[Bray.Dave@epa.gov]; Bremer, Kristen[Bremer.Kristen@epa.gov]; Davis, Alison[Davis.Alison@epa.gov]; Davis, Matthew[Davis.Matthew@epa.gov]; Doster, Brian[Doster.Brian@epa.gov]; Downey, Scott[Downey.Scott@epa.gov]; Fairchild, Susan[Fairchild.Susan@epa.gov]; Field, Chris[Field.Chris@epa.gov]; Fleming, Sheila[fleming.sheila@epa.gov]; Fried, Gregory[Fried.Gregory@epa.gov]; Froikin, Sara[Froikin.Sara@epa.gov]; Hall, Chris[Hall.Christopher@epa.gov]; Hastings, Janis[Hastings.Janis@epa.gov]; Hedgpeth, Zach[Hedgpeth.Zach@epa.gov]; Holsman, Marianne[Holsman.Marianne@epa.gov]; Ingemansen, Dean[Ingemansen.Dean@epa.gov]; Kaetzel, Rhonda[Kaetzel.Rhonda@epa.gov]; Koerber, Mike[Koerber.Mike@epa.gov]; Koprowski, Paul[Koprowski.Paul@epa.gov]; Kowalski, Ed[Kowalski.Edward@epa.gov]; Leefers, Kristin[Leefers.Kristin@epa.gov]; Martenson, Eric[Martenson.Eric@epa.gov]; Matthews, Julie[Matthews.Juliane@epa.gov]; McLerran, Dennis[mclerran.dennis@epa.gov]; Moon, Wally[Moon.Wally@epa.gov]; Narvaez, Madonna[Narvaez.Madonna@epa.gov]; Pirzadeh, Michelle[Pirzadeh.Michelle@epa.gov]; Rodman, Sonja[Rodman.Sonja@epa.gov]; Smith, Judy[Smith.Judy@epa.gov]; Stern, Allyn[Stern.Allyn@epa.gov]; Stifelman, Marc[Stifelman.Marc@epa.gov]; Terada, Calvin[Terada.Calvin@epa.gov]; Terry, Sara[Terry.Sara@epa.gov]; Thrift, Mike[thrift.mike@epa.gov]; Tonel, Monica[Tonel.Monica@epa.gov]; Wendel, Arthur[Wendel.Arthur@epa.gov]; Williamson, Ann[Williamson.Ann@epa.gov]
From: Wroble, Julie
Sent: Thur 2/25/2016 12:31:42 AM
Subject: RE: Chromium and Chromium uptake in plants

I'm not sure if hexavalent chromium that's used as a product in a facility would change upon release to air or stay in a hexavalent form? Maybe someone else in this group could weigh in on that?

I've been curious about even smaller glass facilities (art glass producers) in neighborhoods where there may be few to no emissions controls. Anyone looking into these yet? We've got a few I can think of in Seattle.

Julie

From: Franklin, Richard
Sent: Wednesday, February 24, 2016 12:59 PM
To: McClintock, Katie <McClintock.Katie@epa.gov>; Averback, Jonathan <Averback.Jonathan@epa.gov>; Barber, Anthony <Barber.Anthony@epa.gov>; Barnett, Keith <Barnett.Keith@epa.gov>; Bray, Dave <Bray.Dave@epa.gov>; Bremer, Kristen <Bremer.Kristen@epa.gov>; Davis, Alison <Davis.Alison@epa.gov>; Davis, Matthew <Davis.Matthew@epa.gov>; Doster, Brian <Doster.Brian@epa.gov>; Downey, Scott <Downey.Scott@epa.gov>; Fairchild, Susan <Fairchild.Susan@epa.gov>; Field, Chris <Field.Chris@epa.gov>; Fleming, Sheila <fleming.sheila@epa.gov>; Fried, Gregory <Fried.Gregory@epa.gov>; Froikin, Sara <Froikin.Sara@epa.gov>; Hall, Chris <Hall.Christopher@epa.gov>; Hastings, Janis <Hastings.Janis@epa.gov>; Hedgpeth, Zach <Hedgpeth.Zach@epa.gov>; Holsman, Marianne <Holsman.Marianne@epa.gov>; Ingemansen, Dean <Ingemansen.Dean@epa.gov>; Kaetzel, Rhonda <Kaetzel.Rhonda@epa.gov>; Koerber,

Mike <Koerber.Mike@epa.gov>; Koprowski, Paul <Koprowski.Paul@epa.gov>; Kowalski, Ed <Kowalski.Edward@epa.gov>; Leefers, Kristin <Leefers.Kristin@epa.gov>; Martenson, Eric <Martenson.Eric@epa.gov>; Matthews, Julie <Matthews.Juliane@epa.gov>; McLerran, Dennis <mclerran.dennis@epa.gov>; Moon, Wally <Moon.Wally@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; Pirzadeh, Michelle <Pirzadeh.Michelle@epa.gov>; Rodman, Sonja <Rodman.Sonja@epa.gov>; Smith, Judy <Smith.Judy@epa.gov>; Stern, Allyn <Stern.Allyn@epa.gov>; Stifelman, Marc <Stifelman.Marc@epa.gov>; Terada, Calvin <Terada.Calvin@epa.gov>; Terry, Sara <Terry.Sara@epa.gov>; Thrift, Mike <thrift.mike@epa.gov>; Tonel, Monica <Tonel.Monica@epa.gov>; Wendel, Arthur <Wendel.Arthur@epa.gov>; Williamson, Ann <Williamson.Ann@epa.gov>; Wroble, Julie <Wroble.Julie@epa.gov>
Subject: Chromium and Chromium uptake in plants

See url below for a very instructive article on chromium in soil, water, and plant uptake in the Journal of Botany. I have spoken with a plant specialist and heard basics such as chrome vi "does not like the environment", and may oxidize readily. If in reducing soils, with levels of iron, vanadium, sulfides and organic materials, Cr VI may be readily reduced. Of course, I am NOT a chemist (only a lowly geologist), But take some time to read the article.

http://www.hindawi.com/journals/jb/2012/375843/

From: McClintock, Katie
Sent: Tuesday, February 23, 2016 10:35 PM
To: Averback, Jonathan <Averback.Jonathan@epa.gov>; Barber, Anthony <Barber.Anthony@epa.gov>; Barnett, Keith <Barnett.Keith@epa.gov>; Bray, Dave <Bray.Dave@epa.gov>; Bremer, Kristen <Bremer.Kristen@epa.gov>; Davis, Alison <Davis.Alison@epa.gov>; Davis, Matthew <Davis.Matthew@epa.gov>; Doster, Brian <Doster.Brian@epa.gov>; Downey, Scott <Downey.Scott@epa.gov>; Fairchild, Susan <Fairchild.Susan@epa.gov>; Field, Chris <Field.Chris@epa.gov>; Fleming, Sheila <fleming.sheila@epa.gov>; Franklin, Richard <Franklin.Richard@epa.gov>; Fried, Gregory <Fried.Gregory@epa.gov>; Froikin, Sara <Froikin.Sara@epa.gov>; Hall, Chris <Hall.Christopher@epa.gov>; Hastings, Janis <Hastings.Janis@epa.gov>; Hedgpeth, Zach <Hedgpeth.Zach@epa.gov>; Holsman, Marianne <Holsman.Marianne@epa.gov>; Ingemansen, Dean <Ingemansen.Dean@epa.gov>; Kaetzel, Rhonda <Kaetzel.Rhonda@epa.gov>; Koerber, Mike <Koerber.Mike@epa.gov>; Koprowski, Paul <Koprowski.Paul@epa.gov>; Kowalski, Ed

<Kowalski.Edward@epa.gov>; Leefers, Kristin <Leefers.Kristin@epa.gov>; Martenson, Eric <Martenson.Eric@epa.gov>; Matthews, Julie <Matthews.Juliane@epa.gov>; McLerran, Dennis <mclerran.dennis@epa.gov>; Moon, Wally <Moon.Wally@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; Pirzadeh, Michelle <Pirzadeh.Michelle@epa.gov>; Rodman, Sonja <Rodman.Sonja@epa.gov>; Smith, Judy <Smith.Judy@epa.gov>; Stern, Allyn <Stern.Allyn@epa.gov>; Stifelman, Marc <Stifelman.Marc@epa.gov>; Terada, Calvin <Terada.Calvin@epa.gov>; Terry, Sara <Terry.Sara@epa.gov>; Thrift, Mike <thrift.mike@epa.gov>; Tonel, Monica <Tonel.Monica@epa.gov>; Wendel, Arthur <Wendel.Arthur@epa.gov>; Williamson, Ann <Williamson.Ann@epa.gov>; Wroble, Julie <Wroble.Julie@epa.gov>
Subject: Color Glass Daily Update 2-23-16

It came to my attention that new people added to the group haven't been getting these updates because we had maxed out the ability for onedrive to export email addresses. I have fixed this. For those of you who haven't gotten these, these are my daily updates combining all the information I hear about during the day. I post them on the onedrive as well but for people on phones, I have been emailing. If you would like to be removed from the list, let me know. **Also, if you have an update you think should be included, please send it to me.** I write my updates after 8 pm each day so each update will include all info I have received during the day.

Ex. 6 - Personal Privacy

Katie McClintock

Air Enforcement Officer

EPA Region 10

1200 Sixth Avenue, Suite 900, OCE-101

Seattle, WA 98101

Phone: 206-553-2143

Fax: 206-553-4743

Mcclintock.katie@epa.gov

To: Barber, Anthony[Barber.Anthony@epa.gov]; McLerran, Dennis[mclerran.dennis@epa.gov]; Pirzadeh, Michelle[Pirzadeh.Michelle@epa.gov]; Hastings, Janis[Hastings.Janis@epa.gov]; Holsman, Marianne[Holsman.Marianne@epa.gov]; Bray, Dave[Bray.Dave@epa.gov]; Narvaez, Madonna[Narvaez.Madonna@epa.gov]; Smith, Judy[Smith.Judy@epa.gov]; McClintock, Katie[McClintock.Katie@epa.gov]; Koerber, Mike[Koerber.Mike@epa.gov]; Davis, Alison[Davis.Alison@epa.gov]; Terry, Sara[Terry.Sara@epa.gov]; Davis, Matthew[Davis.Matthew@epa.gov]; Downey, Scott[Downey.Scott@epa.gov]; Moon, Wally[Moon.Wally@epa.gov]; Bremer, Kristen[Bremer.Kristen@epa.gov]; Fairchild, Susan[Fairchild.Susan@epa.gov]
From: Koprowski, Paul
Sent: Wed 2/24/2016 7:06:48 PM
Subject: RE: DEQ announces Bullseye Glass' additional commitments to suspend metals use

Tony, et al,

You all may also have heard that DEQ asked the legislature for $1.5 million for an air toxics program. I learned this morning that the funds would be used to hire 4 lab staff, 3 program (i.e. rule writer type) staff and a new manager. About $140,000 would be for new monitoring equipment. That's the rough outline. If the funds are approved they would be included in a spending bill at the end of the current session.

Paul

Paul Koprowski

U.S. EPA; Oregon Operations Office

805 SW Broadway, Suite 500

Portland, Oregon 97205

(503) 326-6363

From: Barber, Anthony
Sent: Tuesday, February 23, 2016 4:54 PM
To: McLerran, Dennis <mclerran.dennis@epa.gov>; Pirzadeh, Michelle <Pirzadeh.Michelle@epa.gov>; Hastings, Janis <Hastings.Janis@epa.gov>; Holsman, Marianne <Holsman.Marianne@epa.gov>; Bray, Dave <Bray.Dave@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; Smith, Judy <Smith.Judy@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Koerber, Mike <Koerber.Mike@epa.gov>; Davis, Alison <Davis.Alison@epa.gov>; Terry, Sara <Terry.Sara@epa.gov>; Davis, Matthew <Davis.Matthew@epa.gov>; Downey, Scott <Downey.Scott@epa.gov>; Moon, Wally

<Moon.Wally@epa.gov>; Bremer, Kristen <Bremer.Kristen@epa.gov>; Fairchild, Susan <Fairchild.Susan@epa.gov>; Koprowski, Paul <Koprowski.Paul@epa.gov>
Subject: FW: DEQ announces Bullseye Glass' additional commitments to suspend metals use
Importance: High

I may have missed someone with this distribution list, so please forward as appropriate.

Anthony L. Barber, PE
Director
Oregon Operations Office
US EPA Region 10
805 SW Broadway, Suite 500
Portland, OR 97205

503-326-6890 (phone)
503-326-3399 (fax)
barber.anthony@epa.gov

From: DEQ Online Subscriptions [mailto:ordeq@public.govdelivery.com]
Sent: Tuesday, February 23, 2016 4:08 PM
To: Barber, Anthony <Barber.Anthony@epa.gov>
Subject: DEQ announces Bullseye Glass' additional commitments to suspend metals use

Today the Oregon Department of Environmental Quality announced additional steps that Bullseye Glass has committed to take in its operations to support the DEQ's ongoing testing of air quality impacts from industrial facilities. To read the full news release, click on the link below.

http://www.oregon.gov/newsroom/Pages/NewsDetail.aspx?newsid=1013

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This email was sent to barber.anthony@epa.gov using GovDelivery, on behalf of the Oregon Department of Environmental Quality (DEQ) · 811 SW 6th Avenue · Portland OR 97204 · 503-229-5696

To: Averback, Jonathan[Averback.Jonathan@epa.gov]; Barber, Anthony[Barber.Anthony@epa.gov]; Barnett, Keith[Barnett.Keith@epa.gov]; Bray, Dave[Bray.Dave@epa.gov]; Bremer, Kristen[Bremer.Kristen@epa.gov]; Davis, Alison[Davis.Alison@epa.gov]; Davis, Matthew[Davis.Matthew@epa.gov]; Doster, Brian[Doster.Brian@epa.gov]; Downey, Scott[Downey.Scott@epa.gov]; Fairchild, Susan[Fairchild.Susan@epa.gov]; Field, Chris[Field.Chris@epa.gov]; Fleming, Sheila[fleming.sheila@epa.gov]; Franklin, Richard[Franklin.Richard@epa.gov]; Fried, Gregory[Fried.Gregory@epa.gov]; Froikin, Sara[Froikin.Sara@epa.gov]; Hall, Chris[Hall.Christopher@epa.gov]; Hastings, Janis[Hastings.Janis@epa.gov]; Hedgpeth, Zach[Hedgpeth.Zach@epa.gov]; Holsman, Marianne[Holsman.Marianne@epa.gov]; Ingemansen, Dean[Ingemansen.Dean@epa.gov]; Kaetzel, Rhonda[Kaetzel.Rhonda@epa.gov]; Koerber, Mike[Koerber.Mike@epa.gov]; Koprowski, Paul[Koprowski.Paul@epa.gov]; Kowalski, Ed[Kowalski.Edward@epa.gov]; Leefers, Kristin[Leefers.Kristin@epa.gov]; Martenson, Eric[Martenson.Eric@epa.gov]; Matthews, Julie[Matthews.Juliane@epa.gov]; McLerran, Dennis[mclerran.dennis@epa.gov]; Moon, Wally[Moon.Wally@epa.gov]; Narvaez, Madonna[Narvaez.Madonna@epa.gov]; Pirzadeh, Michelle[Pirzadeh.Michelle@epa.gov]; Rodman, Sonja[Rodman.Sonja@epa.gov]; Smith, Judy[Smith.Judy@epa.gov]; Stern, Allyn[Stern.Allyn@epa.gov]; Stifelman, Marc[Stifelman.Marc@epa.gov]; Terada, Calvin[Terada.Calvin@epa.gov]; Terry, Sara[Terry.Sara@epa.gov]; Thrift, Mike[thrift.mike@epa.gov]; Tonel, Monica[Tonel.Monica@epa.gov]; Wendel, Arthur[Wendel.Arthur@epa.gov]; Williamson, Ann[Williamson.Ann@epa.gov]; Wroble, Julie[Wroble.Julie@epa.gov]
From: McClintock, Katie
Sent: Wed 2/24/2016 6:35:04 AM
Subject: Color Glass Daily Update 2-23-16
Daily Update 2-23-16.docx

It came to my attention that new people added to the group haven't been getting these updates because we had maxed out the ability for onedrive to export email addresses. I have fixed this. For those of you who haven't gotten these, these are my daily updates combining all the information I hear about during the day. I post them on the onedrive as well but for people on phones, I have been emailing. If you would like to be removed from the list, let me know. **Also, if you have an update you think should be included, please send it to me.** I write my updates after 8 pm each day so each update will include all info I have received during the day.

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Katie McClintock

Air Enforcement Officer

EPA Region 10

1200 Sixth Avenue, Suite 900, OCE-101

Seattle, WA 98101

Phone: 206-553-2143

Fax: 206-553-4743

Mcclintock.katie@epa.gov

Daily Update 2-23-16
Enforcement Confidential

- Press release regarding Bullseye
  - http://www.oregon.gov/newsroom/Pages/NewsDetail.aspx?newsid=1013
  - Said that February 22nd Bullseye assured it would not use chromium for another week.
  - The correspondence doesn't include some of the finer points of our discussions and I'm guessing will not mean much to the public since they didn't realize that Bullseye was considering restarting melting with chromium this week.
- Northstar Glassworks Inspection
  - John Keenan (EPA), Chris Schwab (ODEQ) and I inspected Northstar Glassworks early 2/23/16. The facility makes borosilicate colored glass. They claimed almost everything they told us a CBI (Spectrum is doing this too). However, the following is not CBI: They melt premade clear borosilicate glass and they add metals to their melts to make colors. They make about 120,000 lbs a year of glass. As a sense of comparison, Bullseye was probably in the range of 20,000 lbs per day (and Spectrum much more than that).
  - They melt glass containing cadmium, trivalent chrome, and selenium. They do not use nickel, hexavalent chromium, arsenic or lead.
  - They ordered air testing and had it done 2-22-16 on their intake and outtake. The operations manager wasn't sure on the turn around on results. They will analyze for metals but only the metals used on each kiln to get more targeted results.
  - They have no current air emission controls but had solicited a bid a year ago and asked the company to come back out last week. They do have a ventilation system inside to ensure worker safety because the glasses to off-gas when melting.
  - They were not surprised by our visit and expected this to trickle down but did encourage us to go after their direct competitors, most of whom I had found but we have not investigated yet.
  - There is an elementary school about 0.5 miles from the facility (and a middle school slightly farther). There are houses very close to the facility on the east side.
  - They relocated from Tigard in September 2015. If there is a soils issue we may have to track down the old location.
- Expanding glass universe – Borosilicate glass manufacturers like Northstar
  - Northstar raises the concerns that we should look into smaller companies. In Portland there are 4 small borosilicate manufacturers: TAG, Trautman, Glass Alchemy, and Northstar Glassworks. It is too soon to know if these are large enough to have an ambient impact. I have no idea if Portland is a hotspot for these types of companies or whether we will find many elsewhere. Northstar has international distribution, so they are not a small local operation.
  - They are certainly smaller and will not be subject to the NSPS due to size (which also helps illuminate the fact that the 45 ton/yr cut-off does exclude smaller art kilns).
- Special Purpose ADD call
  - There is a call with ADDs tomorrow to talk about the color glass manufacturing in other regions.
- Equipment loans to Oregon
  - EPA is loaning ODEQ five PQ200s for an unknown duration of time. They will be picked up Thursday or Friday.
- 6S applicability – **Ex. 5 - Deliberative Process**

Ex. 5 - Deliberative Process

- Other points:
  - There is a special purpose call with ADDs tomorrow to talk about color glass manufacturing in other regions.
  - Met data – We have received met data and analysis from OR and Rob Ellemen has reviewed and he and I will talk Wednesday. Rob's initial view is that the met data perhaps complicates things and may point the railyard for lead and selenium. I will hopefully have more information tomorrow. All 4 facilities inspected are next to railroad tracks and some to railyards (they get raw materials by rail)
  - Media enquiry from Vancouver, WA about whether the Portland situation (unknown toxics sources causing ambient impacts) could be happening in Vancouver.

To: McLerran, Dennis[mclerran.dennis@epa.gov]; Pirzadeh, Michelle[Pirzadeh.Michelle@epa.gov]; Hastings, Janis[Hastings.Janis@epa.gov]; Holsman, Marianne[Holsman.Marianne@epa.gov]; Bray, Dave[Bray.Dave@epa.gov]; Narvaez, Madonna[Narvaez.Madonna@epa.gov]; Smith, Judy[Smith.Judy@epa.gov]; McClintock, Katie[McClintock.Katie@epa.gov]; Koerber, Mike[Koerber.Mike@epa.gov]; Davis, Alison[Davis.Alison@epa.gov]; Terry, Sara[Terry.Sara@epa.gov]; Davis, Matthew[Davis.Matthew@epa.gov]; Downey, Scott[Downey.Scott@epa.gov]; Moon, Wally[Moon.Wally@epa.gov]; Bremer, Kristen[Bremer.Kristen@epa.gov]; Fairchild, Susan[Fairchild.Susan@epa.gov]; Koprowski, Paul[Koprowski.Paul@epa.gov]
From: Barber, Anthony
Sent: Wed 2/24/2016 12:53:34 AM
Subject: FW: DEQ announces Bullseye Glass' additional commitments to suspend metals use

I may have missed someone with this distribution list, so please forward as appropriate.

Anthony L. Barber, PE
Director
Oregon Operations Office
US EPA Region 10
805 SW Broadway, Suite 500
Portland, OR 97205

503-326-6890 (phone)
503-326-3399 (fax)
barber.anthony@epa.gov

From: DEQ Online Subscriptions [mailto:ordeq@public.govdelivery.com]
Sent: Tuesday, February 23, 2016 4:08 PM
To: Barber, Anthony <Barber.Anthony@epa.gov>
Subject: DEQ announces Bullseye Glass' additional commitments to suspend metals use

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http://www.oregon.gov/newsroom/Pages/NewsDetail.aspx?newsid=1013

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To: Koprowski, Paul[Koprowski.Paul@epa.gov]; Downey, Scott[Downey.Scott@epa.gov]; Narvaez, Madonna[Narvaez.Madonna@epa.gov]; McClintock, Katie[McClintock.Katie@epa.gov]; Franklin, Richard[Franklin.Richard@epa.gov]; Wroble, Julie[Wroble.Julie@epa.gov]; Holsman, Marianne[Holsman.Marianne@epa.gov]; Hastings, Janis[Hastings.Janis@epa.gov]; Bray, Dave[Bray.Dave@epa.gov]; Moon, Wally[Moon.Wally@epa.gov]; Koerber, Mike[Koerber.Mike@epa.gov]; Davis, Alison[Davis.Alison@epa.gov]; Barber, Anthony[Barber.Anthony@epa.gov]; Terry, Sara[Terry.Sara@epa.gov]; Davis, Matthew[Davis.Matthew@epa.gov]
Cc: Schuster, Cindy[Schuster.Cindy@epa.gov]; Philip, Jeff[Philip.Jeff@epa.gov]; Skadowski, Suzanne[Skadowski.Suzanne@epa.gov]; MacIntyre, Mark[Macintyre.Mark@epa.gov]
From: Smith, Judy
Sent: Fri 2/19/2016 2:48:44 AM
Subject: PDX Air Toxics News Clips 2/16-18

Here is a selection of news clips from the last 72-hours. I expect a lot of additional news coverage in the next 24-hours. I will send daily clips as long as there is interest. Judy

Officials: Don't eat home-grown produce near Bullseye

EPA now involved in the investigation

KOIN news staff 2/18/2016

http://koin.com/2016/02/18/officials-dont-eat-home-grown-produce-near-bullseye/

Sen. Ron Wyden: EPA weighing tighter controls on glass makers after Portland air pollution case

Oregonian Fedor Zarkhin 2/18/2016

http://www.oregonlive.com/environment/index.ssf/2016/02/senator_ron_wyden_epa_weighing.html

Why Portland Heavy Metals Pollution Went Undetected For So Long

OPB Cassandra Profita 2/18/2016

http://www.opb.org/news/article/why-portland-heavy-metals-pollution-went-undetected-for-so-long/

Arsenic, cadmium present in north Portland Air

The Skanner – Lisa Loving 2/18/2016

http://www.theskanner.com/news/northwest/23562-arsenic-cadmium-present-in-north-portland-air

Q&A: What We Know About Portland's Toxic Air Emissions

OPB Cassandra Profita 2/17/2016

http://ijpr.org/post/qa-what-we-know-about-portlands-toxic-air-emissions#stream/0

New maps show heavy metal hot spots in two more Portland neighborhoods

Oregonian – Rob Davis 2/17/2016

http://www.oregonlive.com/environment/index.ssf/2016/02/new_maps_show_heavy_metal_hot.html

Second air pollution meeting set in North Portland

Portland Tribune – Jim Redden 2/17/2016

http://www.pamplinmedia.com/pt/9-news/293746-171185-second-air-pollution-meeting-set-in-north-portland

Group protests SE Portland glass company over toxics

KGW 2/16/2016

http://www.kgw.com/news/health/protest-planned-urging-portland-glass-company-to-cease-operations/44790750

Neighbors: Close Bullseye until toxic emissions stop

KOIN Tim Becker 2/16/2016

http://koin.com/2016/02/16/neighbors-to-bullseye-close-until-no-more-chromium/

Bullseye Glass owner: DEQ finding hit 'like a ton of bricks'
KPTV Fox News – 2/16/2016

http://www.kptv.com/story/31228326/bullseye-glass-owner-deq-finding-hit-like-a-ton-of-bricks

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Judy Smith, EPA

Public Affairs Specialist

503-326-6994 desk

503-545-2540 cell

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To: Holsman, Marianne[Holsman.Marianne@epa.gov]; Hastings, Janis[Hastings.Janis@epa.gov]; Koprowski, Paul[Koprowski.Paul@epa.gov]; Narvaez, Madonna[Narvaez.Madonna@epa.gov]; Smith, Judy[Smith.Judy@epa.gov]; McClintock, Katie[McClintock.Katie@epa.gov]; Koerber, Mike[Koerber.Mike@epa.gov]; Davis, Alison[Davis.Alison@epa.gov]; Barber, Anthony[Barber.Anthony@epa.gov]; Terry, Sara[Terry.Sara@epa.gov]; Davis, Matthew[Davis.Matthew@epa.gov]
From: Bray, Dave
Sent: Thur 2/18/2016 6:06:56 PM
Subject: RE: First draft of response to Oregon Congressionals letter
Final Draft Portland Air Toxics Congressional Response 2 18 2016.docx

Hi all,

Attached is the latest version of the Congressionals letter. It includes the new sections requested by Dennis and hopefully, addresses all of the comments and suggestions.

Please let me know any comments, edits, etc. ASAP. And if there is anyone else who should review it, please forward it to them.

Thanks very much for all of your help on this.

Dave

David C. Bray
Special Assistant to the Director
Office of Air, Waste and Toxics
EPA, Region 10
Seattle, WA 98101
Tel (206) 553-4253
Fax (206) 553-0110

-----Original Message-----
From: Bray, Dave
Sent: Wednesday, February 17, 2016 5:19 PM
To: Holsman, Marianne <Holsman.Marianne@epa.gov>; Hastings, Janis <Hastings.Janis@epa.gov>; Koprowski, Paul <Koprowski.Paul@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; Smith, Judy <Smith.Judy@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Koerber, Mike <Koerber.Mike@epa.gov>; Davis, Alison <Davis.Alison@epa.gov>; Barber, Anthony <Barber.Anthony@epa.gov>; Terry, Sara <Terry.Sara@epa.gov>; Davis, Matthew <Davis.Matthew@epa.gov>
Subject: First draft of response to Oregon Congressionals letter

Hi all,

Sending this to the folks on the daily updates list. If anyone else should be reviewing this draft, please forward it to them.

Attached is the first draft of the letter responding to the Oregon Congressionals letter. It includes a response drafted by Region 10 for the first of the three specific requests and responses drafted by HQ for the second and third specific requests. It still needs some formatting and work on the salutation and closing which will be done by our Congressional staff so folks should focus on the substantive draft responses.

Thanks in advance for your review and comments.

Dave

From: Holsman, Marianne
Sent: Tuesday, February 16, 2016 4:12 PM
Required: Holsman, Marianne; Bray, Dave; Hastings, Janis; Koprowski, Paul; Narvaez, Madonna; Smith, Judy; McClintock, Katie; Koerber, Mike; Davis, Alison; Barber, Anthony; Terry, Sara; Davis, Matthew
Subject: Daily Updates on Portland Air Toxics
When: Wednesday, February 17, 2016 8:30 AM-9:00 AM.
Where: 1-866-299-3188, code: 2065531237#

Hi Folks:

Thought at least a morning update each day would help everyone know what is happening given how dynamic things are right now. May want to do an end of day wrap as well.

If you can't make the updates, please send me and Jan an email and we'll report for you.

The idea is we each report on what we know and are working on currently. Simple!

Thanks!

To: Bray, Dave[Bray.Dave@epa.gov]; Holsman, Marianne[Holsman.Marianne@epa.gov]; Hastings, Janis[Hastings.Janis@epa.gov]; Koprowski, Paul[Koprowski.Paul@epa.gov]; Narvaez, Madonna[Narvaez.Madonna@epa.gov]; Smith, Judy[Smith.Judy@epa.gov]; Koerber, Mike[Koerber.Mike@epa.gov]; Davis, Alison[Davis.Alison@epa.gov]; Barber, Anthony[Barber.Anthony@epa.gov]; Terry, Sara[Terry.Sara@epa.gov]; Davis, Matthew[Davis.Matthew@epa.gov]
From: McClintock, Katie
Sent: Thur 2/18/2016 4:53:25 AM
Subject: RE: First draft of response to Oregon Congressionals letter
Draft Portland Air Toxics Congressional Response - km edits.docx

Great letter draft addressing so many tough questions. I am attaching my edits and comments on the letter. As an engineer, these letters aren't my forte, so feel free to ignore my comments, but I can't help but point out where I think word changes could improve the accuracy of the information presented.

Katie

-----Original Message-----
From: Bray, Dave
Sent: Wednesday, February 17, 2016 5:19 PM
To: Holsman, Marianne <Holsman.Marianne@epa.gov>; Hastings, Janis <Hastings.Janis@epa.gov>; Koprowski, Paul <Koprowski.Paul@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; Smith, Judy <Smith.Judy@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Koerber, Mike <Koerber.Mike@epa.gov>; Davis, Alison <Davis.Alison@epa.gov>; Barber, Anthony <Barber.Anthony@epa.gov>; Terry, Sara <Terry.Sara@epa.gov>; Davis, Matthew <Davis.Matthew@epa.gov>
Subject: First draft of response to Oregon Congressionals letter

Hi all,

Sending this to the folks on the daily updates list. If anyone else should be reviewing this draft, please forward it to them.

Attached is the first draft of the letter responding to the Oregon Congressionals letter. It includes a response drafted by Region 10 for the first of the three specific requests and responses drafted by HQ for the second and third specific requests. It still needs some formatting and work on the salutation and closing which will be done by our Congressional staff so folks should focus on the substantive draft responses.

Thanks in advance for your review and comments.

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From: Holsman, Marianne
Sent: Tuesday, February 16, 2016 4:12 PM
Required: Holsman, Marianne; Bray, Dave; Hastings, Janis; Koprowski, Paul; Narvaez, Madonna; Smith, Judy; McClintock, Katie; Koerber, Mike; Davis, Alison; Barber, Anthony; Terry, Sara; Davis, Matthew
Subject: Daily Updates on Portland Air Toxics
When: Wednesday, February 17, 2016 8:30 AM-9:00 AM.
Where: 1-866-299-3188, code: 2065531237#

Hi Folks:

Thought at least a morning update each day would help everyone know what is happening given how dynamic things are right now. May want to do an end of day wrap as well.

If you can’t make the updates, please send me and Jan an email and we’ll report for you.

The idea is we each report on what we know and are working on currently. Simple!

Thanks!

To: Holsman, Marianne[Holsman.Marianne@epa.gov]; Hastings, Janis[Hastings.Janis@epa.gov]; Koprowski, Paul[Koprowski.Paul@epa.gov]; Narvaez, Madonna[Narvaez.Madonna@epa.gov]; Smith, Judy[Smith.Judy@epa.gov]; McClintock, Katie[McClintock.Katie@epa.gov]; Koerber, Mike[Koerber.Mike@epa.gov]; Davis, Alison[Davis.Alison@epa.gov]; Barber, Anthony[Barber.Anthony@epa.gov]; Terry, Sara[Terry.Sara@epa.gov]; Davis, Matthew[Davis.Matthew@epa.gov]
From: Bray, Dave
Sent: Thur 2/18/2016 1:18:49 AM
Subject: First draft of response to Oregon Congressionals letter
Draft Portland Air Toxics Congressional Response.docx

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When: Wednesday, February 17, 2016 8:30 AM-9:00 AM.
Where: Ex. 6 - Personal Privacy code: Ex. 6 - Personal Privacy

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From: Koerber, Mike
Sent: Wed 2/17/2016 2:16:10 PM
Subject: RE: Daily Updates on Portland Air Toxics
Company Names.docx

FYI - Here is the draft list of art glass facilities. We sent this to OAR last evening.

-----Original Appointment-----
From: Holsman, Marianne
Sent: Tuesday, February 16, 2016 7:36 PM
To: Bray, Dave; Hastings, Janis; Koprowski, Paul; Narvaez, Madonna; Smith, Judy; McClintock, Katie; Koerber, Mike; Davis, Alison; Barber, Anthony; Terry, Sara; Davis, Matthew
Subject: Daily Updates on Portland Air Toxics
When: Occurs every day effective 2/17/2016 from 8:30 AM to 9:00 AM (UTC-08:00) Pacific Time (US & Canada).
Where: Ex. 6 - Personal Privacy code: Ex. 6 - Personal Privacy

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Inventory of Art Glass Plants in U.S.

	Company Name	Street Address	City	State		TRI?	HAPs from Glass Manufacturing, pounds annually									
							As	Cd	Cr	Pb	Mn	Ni	Co	Se	Ba	Zn
1	Franklin glass	222 East Sycamore St	Columbus	OH												
2	Pacific Art Glass	125 West 157th St	Gardena	CA												
3	Blenko Glass	9 Bill Blenko Dr.	Milton	WV												
4	Steuben	One Museum Way	Corning	NY												
5	Youghiogheny Glass	300 S 1st Street	Connellsville	PA												
6	Uroboros Glass	2139 N. Kerby Ave. SE	Portland	OR		YES										
7	Spectrum Glass	21415 87th Avenue SE	Woodinville	WA		YES									87	90.5
8	Kokomo Glass	1310 S. Market St.	Kokomo	IN												
9	Wissmach Glass	420 Stephen St.	Paden City	WV		YES										
10	Armstrong Glass	55 Chastain Road NW	Kennesaw	GA												
11	Bullseye glass	3722 SE 21st Ave	Portland	OR		YES										
12	System 96	24105 Snohomish-Woodinville Road	Woodinville	WA		YES										
13	Northstar Glassworks	8228 SE 26th Place	Portland	OR												

Note: List prepared by OAQPS in collaboration with Region 10. This list represents art glass manufacturers making their products using raw mineral products. We have eliminated known fabricators (making a glass product from glass), and remelters (remelting glass from cullet, sheets, marbles, or rods). If a company's website was ambiguous as to how they made their glass, we left them in the list for further review. We may be able to eliminate 2 or 3 more facilities if we find they are only fabricators or remelters.

Six facilities reported emissions to TRI. One of these (Fenton Glass) has closed and is not on the list. Four reported that they were 'zero emitters'.

One facility (Spectrum in Woodinville WA) reported emissions of Barium and Zinc, neither of which are regulated under Part 63 subpart SSSSSS (the Area Source NESHAP, which regulates Arsenic, Cadmium, Chromium, Lead, Manganese, and Nickel from glass manufacturing furnaces that are continuous furnaces)

To: Wroble, Julie[Wroble.Julie@epa.gov]; Franklin, Richard[Franklin.Richard@epa.gov]; Barber, Anthony[Barber.Anthony@epa.gov]; Koprowski, Paul[Koprowski.Paul@epa.gov]; Moon, Wally[Moon.Wally@epa.gov]; Terada, Calvin[Terada.Calvin@epa.gov]; Skadowski, Suzanne[Skadowski.Suzanne@epa.gov]; Downey, Scott[Downey.Scott@epa.gov]; McClintock, Katie[McClintock.Katie@epa.gov]; Field, Chris[Field.Chris@epa.gov]; Fleming, Sheila[fleming.sheila@epa.gov]; Hall, Chris[Hall.Christopher@epa.gov]
Cc: Heister, Dan[Heister.Dan@epa.gov]; Smith, Judy[Smith.Judy@epa.gov]
From: Stifelman, Marc
Sent: Fri 2/5/2016 4:42:24 PM
Subject: RE: Portland metals in the news 2/4/16

There seem to be room for improvement in their As emission permit:

2.0 SPECIFIC PERFORMANCE AND EMISSION STANDARDS

2.1. Inorganic Arsenic Usage The permittee must ensure that arsenic emissions from each furnace do not exceed: existing (constructed prior to 8/411986) furnace do not exceed 2. 7 tons per year

a. 2. 7 tons per year for furnaces constructed prior to

8114/1986 (existing furnaces)

b. 0.44. tons per year for furnaces constructed or modified after 8/1411986 (new furnaces)

c. The permittee must operate and maintain each furnace in a manner consistent with good air pollution control practice to minimize emissions at all times.

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-- Thomas Paine, 1776
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Marc Stifelman, Toxicologist
U.S. Environmental Protection Agency, Region 10
Office of Environmental Assessment, Risk Evaluation Unit
1200 Sixth Avenue, Suite 900
Mail Stop: OEA-140
Seattle, Washington 98101-3140
Tele 206/553-6979
stifelman.marc@epa.gov

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To: Franklin, Richard <Franklin.Richard@epa.gov>; Barber, Anthony <Barber.Anthony@epa.gov>; Koprowski, Paul <Koprowski.Paul@epa.gov>; Moon, Wally <Moon.Wally@epa.gov>; Terada, Calvin <Terada.Calvin@epa.gov>; Skadowski, Suzanne <Skadowski.Suzanne@epa.gov>; Downey, Scott <Downey.Scott@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Field, Chris <Field.Chris@epa.gov>; Fleming, Sheila <fleming.sheila@epa.gov>; Stifelman, Marc <Stifelman.Marc@epa.gov>; Hall, Chris <Hall.Christopher@epa.gov>
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Mike did pass on a list of articles about the site below.

Richard Franklin

Federal On-Scene Coordinator

U.S. EPA Region 10

Oregon Operations Office

805 SW Broadway, Suite 500

Portland, OR 97205

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Cell: (503) 475-4178

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Sent: Thursday, February 04, 2016 11:50 AM
To: Franklin, Richard <Franklin.Richard@epa.gov>
Subject: FW: Portland metals in the news 2/4/16

News Stories

From: DEQ Communications
Sent: Thursday, February 04, 2016 10:59 AM
To: DEQintheNews <deqinthenews@deq.state.or.us>; *DEQ - Staff Statewide <DEQSSW@deq.state.or.us>; *DEQ - Communications Team <CommunicationsTeam@deq.state.or.us>
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Cc: Heister, Dan[Heister.Dan@epa.gov]; Smith, Judy[Smith.Judy@epa.gov]
From: Stifelman, Marc
Sent: Thur 2/4/2016 10:22:41 PM
Subject: RE: Portland metals in the news 2/4/16

http://www.bullseyeglass.com/news-releases.html

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Cc: Heister, Dan[Heister.Dan@epa.gov]; Smith, Judy[Smith.Judy@epa.gov]
From: Stifelman, Marc
Sent: Thur 2/4/2016 9:38:25 PM
Subject: RE: Portland metals in the news 2/4/16

It may be OK to assume all airborne arsenic is inorganic. I've only seen speciated arsenic used in analyses of seafood and other dietary items. I'm not experienced with air monitoring. Usually, we only differentiate between inorganic & organic arsenic.

~~~~~~

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Cc: Heister, Dan[Heister.Dan@epa.gov]; Smith, Judy[Smith.Judy@epa.gov]
From: Wroble, Julie
Sent: Thur 2/4/2016 9:27:46 PM
Subject: RE: Portland metals in the news 2/4/16

If we could advise on types of contaminants, I think we should, speciated chromium, lead chromate, and speciated arsenic are at the top of my list.

Julie

From: Franklin, Richard
Sent: Thursday, February 04, 2016 12:47 PM
To: Barber, Anthony <Barber.Anthony@epa.gov>; Koprowski, Paul <Koprowski.Paul@epa.gov>; Moon, Wally <Moon.Wally@epa.gov>; Terada, Calvin <Terada.Calvin@epa.gov>; Skadowski, Suzanne <Skadowski.Suzanne@epa.gov>; Downey, Scott <Downey.Scott@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Field, Chris <Field.Chris@epa.gov>; Fleming, Sheila <fleming.sheila@epa.gov>
Cc: Heister, Dan <Heister.Dan@epa.gov>; Smith, Judy <Smith.Judy@epa.gov>; Wroble, Julie <Wroble.Julie@epa.gov>
Subject: FW: Portland metals in the news 2/4/16

Hi All,

In following up with a recent call with Scott and Katie Tony Barber and Paul Koprowski, I checked in today with Mike Zollitsch, Team Leader for the ODEQ Spill Program, and he said they were fully aware of the issue, and that they are not treating it as an emergency response. Further, their consensus is to let ODEQ Air Program, ODEQ Risk Assessors, Oregon Health, and Multnomah County Health continue on with their active investigation and assessment and programmatic authorities first before getting involved.

Mike did pass on a list of articles about the site below.

Richard Franklin

Federal On-Scene Coordinator

U.S. EPA Region 10

Oregon Operations Office

805 SW Broadway, Suite 500

Portland, OR 97205

Office: (503) 326-2917

Cell: (503) 475-4178

From: ZOLLITSCH Michael [mailto:ZOLLITSCH.Michael@deq.state.or.us]
Sent: Thursday, February 04, 2016 11:50 AM
To: Franklin, Richard <Franklin.Richard@epa.gov>
Subject: FW: Portland metals in the news 2/4/16

News Stories

From: DEQ Communications
Sent: Thursday, February 04, 2016 10:59 AM
To: DEQintheNews <deqinthenews@deq.state.or.us>; *DEQ - Staff Statewide <DEQSSW@deq.state.or.us>; *DEQ - Communications Team <CommunicationsTeam@deq.state.or.us>
Subject: Portland metals in the news 2/4/16

DEQ, Oregon Health Authority, Multnomah County Health Department

Portland metals in the news

Thursday, Feb. 4, 2016

This is a special edition of DEQ in the News to capture news about preliminary air quality monitoring data showing high levels of cadmium and arsenic in the air near Southeast 22nd Ave. and Powell Boulevard in Portland.

DEQ, OHA investigate metals pollutants in SE Portland air

DEQ, OHA news release, *2/3/16*

Metals emissions in Portland

DEQ webpage, 2/4/16

State Finds Alarmingly High Arsenic, Cadmium Levels Near Two SE Portland Schools

Portland Mercury, 2/3/16

Blogtown.pdx – reader response to Portland Mercury article

Portland Mercury, 2/3/16

Portland Clean Air **– Bullseye Glass Action Alert**

Facebook, 2/3/16

Health Officials Find Heavy Metals In Southeast Portland Air

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Repost:

Sun times Network

Airborne heavy metals detected in inner Southeast Portland neighborhood

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High levels of cadmium, arsenic detected in SE Portland

KGW-TV, 2/4/16

Story includes Portland Public Schools letter to Cleveland High School and Winterhaven School Families.

DEQ investigating 'potential health risks' of high levels of arsenic, cadmium in SE Portland

KPTV, Fox12, 2/3/16

Read more: http://www.kptv.com/story/31133740/deq-investigating-potential-health-risks-of-high-levels-of-arsenic-cadmium-in-se-portland#ixzz3zDyEiD2g

Authorities investigating potential health risks of exposure to air pollutants found in SE Portland

The Oregonian, *2/3/16*

To: Barber, Anthony[Barber.Anthony@epa.gov]; Koprowski, Paul[Koprowski.Paul@epa.gov]; Moon, Wally[Moon.Wally@epa.gov]; Terada, Calvin[Terada.Calvin@epa.gov]; Skadowski, Suzanne[Skadowski.Suzanne@epa.gov]; Downey, Scott[Downey.Scott@epa.gov]; McClintock, Katie[McClintock.Katie@epa.gov]; Field, Chris[Field.Chris@epa.gov]; Fleming, Sheila[fleming.sheila@epa.gov]
Cc: Heister, Dan[Heister.Dan@epa.gov]; Smith, Judy[Smith.Judy@epa.gov]; Wroble, Julie[Wroble.Julie@epa.gov]
From: Franklin, Richard
Sent: Thur 2/4/2016 8:47:14 PM
Subject: FW: Portland metals in the news 2/4/16

Hi All,

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Oregon Operations Office

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Portland, OR 97205

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Cell: (503) 475-4178

From: ZOLLITSCH Michael [mailto:ZOLLITSCH.Michael@deq.state.or.us]
Sent: Thursday, February 04, 2016 11:50 AM
To: Franklin, Richard <Franklin.Richard@epa.gov>
Subject: FW: Portland metals in the news 2/4/16

News Stories

From: DEQ Communications
Sent: Thursday, February 04, 2016 10:59 AM
To: DEQintheNews <deqinthenews@deq.state.or.us>; *DEQ - Staff Statewide <DEQSSW@deq.state.or.us>; *DEQ - Communications Team <CommunicationsTeam@deq.state.or.us>
Subject: Portland metals in the news 2/4/16

DEQ, Oregon Health Authority, Multnomah County Health Department

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Blogtown.pdx – reader response to Portland Mercury article

Portland Mercury, 2/3/16

Portland Clean Air – **Bullseye Glass Action Alert**

Facebook, 2/3/16

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Read more: http://www.kptv.com/story/31133740/deq-investigating-potential-health-risks-of-high-levels-of-arsenic-cadmium-in-se-portland#ixzz3zDyEiD2g

Authorities investigating potential health risks of exposure to air pollutants found in SE Portland

The Oregonian, *2/3/16*

To: Downey, Scott[Downey.Scott@epa.gov]; Barber, Anthony[Barber.Anthony@epa.gov]; McClintock, Katie[McClintock.Katie@epa.gov]; Elleman, Robert[Elleman.Robert@epa.gov]; Narvaez, Madonna[Narvaez.Madonna@epa.gov]; Wroble, Julie[Wroble.Julie@epa.gov]; Holsman, Marianne[Holsman.Marianne@epa.gov]; Hastings, Janis[Hastings.Janis@epa.gov]; Suzuki, Debra[Suzuki.Debra@epa.gov]; Dossett, Donald[Dossett.Donald@epa.gov]; Smith, Judy[Smith.Judy@epa.gov]; Skadowski, Suzanne[Skadowski.Suzanne@epa.gov]
From: Koprowski, Paul
Sent: Thur 2/4/2016 7:56:19 PM
Subject: FW: Portland metals in the news 2/4/16

Here's a compendium of news articles about the Bullseye situation FYI.

Paul

Paul Koprowski

U.S. EPA; Oregon Operations Office

805 SW Broadway, Suite 500

Portland, Oregon 97205

(503) 326-6363

From: DEQ Communications [mailto:DEQCommunications@deq.state.or.us]
Sent: Thursday, February 04, 2016 10:59 AM
To: DEQintheNews <deqinthenews@deq.state.or.us>; *DEQ - Staff Statewide <DEQSSW@deq.state.or.us>; *DEQ - Communications Team <CommunicationsTeam@deq.state.or.us>
Subject: Portland metals in the news 2/4/16

DEQ, Oregon Health Authority, Multnomah County Health Department

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Authorities investigating potential health risks of exposure to air pollutants found in SE Portland

The Oregonian, *2/3/16*

To: Wroble, Julie[Wroble.Julie@epa.gov]; McClintock, Katie[McClintock.Katie@epa.gov]
Cc: Downey, Scott[Downey.Scott@epa.gov]; Stifelman, Marc[Stifelman.Marc@epa.gov]; Barber, Anthony[Barber.Anthony@epa.gov]
From: Koprowski, Paul
Sent: Sat 3/5/2016 12:23:17 AM
Subject: RE: update from incident management team meeting

Thanks Julie. I caught the same things pretty much. I would add on the since they ID'd locations for the monitors at Uroboros we should see an SAP from Chris Moore very soon. I've contacted Anthony to see what he needs. I think we're pretty tapped out in the region so if we'll have to find some from another region or somewhere else.

I also noted they were pretty proud that the final incident action plan was approved.

I'll also note that the representatives from the city, county, forest service, Portland public schools, managers, leadership and Governor's office had not "red" items worth mentioning. Gabriela (Governor's office) talked messaging about but that's mostly what the JIC is working on. I alerted Harry Craig that the data would be coming soon.

Paul

Paul Koprowski

U.S. EPA; Oregon Operations Office

805 SW Broadway, Suite 500

Portland, Oregon 97205

(503) 326-6363

From: Wroble, Julie
Sent: Friday, March 04, 2016 3:43 PM
To: McClintock, Katie <McClintock.Katie@epa.gov>
Cc: Koprowski, Paul <Koprowski.Paul@epa.gov>; Downey, Scott <Downey.Scott@epa.gov>; Stifelman, Marc <Stifelman.Marc@epa.gov>
Subject: update from incident management team meeting

Maybe Paul has more to add:

Air Quality: Two new sites have been ID's near Uroboros, but low on equipment so not sure if work can be done. (Is this an area where EPA can help with? Paul will check for more info.

Community Engagement: 1) link has been sent out for community requests; 2)there's a draft response plan process

Environmental health/Risk assessment: Information to be released next week, Wed – DEQ's soil data for bullseye area, correlating health assessment indicating low soil levels, low risks; fact sheet about gardening saying that it's o.k to garden. Gov office asked about why earlier message said no garden, response was that based on earlier data and with an abundance of caution, that was the recommendation 3 weeks ago. More recent data has indicated gardening to be ok.

Air sampling data release date is March 14 – Farrar needs time to review and assess prior to release.

Cancer: no elevated rates of cancer found.

Epi/surveillance: preliminary results of urine testing are available. Most ND, but few positive results for cadmium in urine need to be understood and explained.

I asked when we could see the data and was directed to Aaron Borisenko at DEQ who provided it.

I'll try to look this over today before I leave.

Julie Wroble|Acting Unit Manager, Risk Evaluation Unit|Toxicologist|USEPA Region 10|1200 6th Ave., OEA-140|Seattle, WA 98101|T: 206-553-1079|e-mail: wroble.julie@epa.gov

To: Holsman, Marianne[Holsman.Marianne@epa.gov]; Hastings, Janis[Hastings.Janis@epa.gov]; Koprowski, Paul[Koprowski.Paul@epa.gov]; Narvaez, Madonna[Narvaez.Madonna@epa.gov]; Smith, Judy[Smith.Judy@epa.gov]; McClintock, Katie[McClintock.Katie@epa.gov]; Koerber, Mike[Koerber.Mike@epa.gov]; Davis, Alison[Davis.Alison@epa.gov]; Barber, Anthony[Barber.Anthony@epa.gov]; Terry, Sara[Terry.Sara@epa.gov]; Davis, Matthew[Davis.Matthew@epa.gov]; Throwe, Scott[Throwe.Scott@epa.gov]
Cc: Downey, Scott[Downey.Scott@epa.gov]; Moon, Wally[Moon.Wally@epa.gov]; Bremer, Kristen[Bremer.Kristen@epa.gov]; Fairchild, Susan[Fairchild.Susan@epa.gov]
From: Bray, Dave
Sent: Wed 2/24/2016 11:02:27 PM
Subject: RE: Daily Updates on Portland Air Toxics

Hi everyone,

Here's the agenda for Thursday's call/briefing for RA Dennis McLerran.

Topics (5 min each)

- Portland facilities: Brief updates and next steps – Katie
- Applicability of the area source NESHAP to the above facilities? – OECA/OGC/OAQPS
- Other facilities nationwide: Brief update and next steps (Janet's email) – OAQPS
- ODEQ's requests for support: Current status/needs – Paul/Wally
- Spectrum: Status and comparison with Bullseye – Katie
- Questions from Dennis

Dave

From: Holsman, Marianne
Sent: Tuesday, February 16, 2016 4:12 PM
Required: Holsman, Marianne; Bray, Dave; Hastings, Janis; Koprowski, Paul; Narvaez, Madonna; Smith, Judy; McClintock, Katie; Koerber, Mike; Davis, Alison; Barber, Anthony; Terry, Sara; Davis, Matthew
Optional: Downey, Scott; Moon, Wally; Bremer, Kristen; Fairchild, Susan
Subject: Daily Updates on Portland Air Toxics
When: Thursday, February 25, 2016 8:30 AM-9:00 AM.
Where: Ex. 6 - Personal Privacy code: Ex. 6 - Personal Privacy

Hi Folks:

Thought at least a morning update each day would help everyone know what is happening given how dynamic things are right now. May want to do an end of day wrap as well.

If you can't make the updates, please send me and Jan an email and we'll report for you.

The idea is we each report on what we know and are working on currently. Simple!

Thanks!

To: Holsman, Marianne[Holsman.Marianne@epa.gov]; Bray, Dave[Bray.Dave@epa.gov]; Koprowski, Paul[Koprowski.Paul@epa.gov]; Narvaez, Madonna[Narvaez.Madonna@epa.gov]; Smith, Judy[Smith.Judy@epa.gov]; McClintock, Katie[McClintock.Katie@epa.gov]; Koerber, Mike[Koerber.Mike@epa.gov]; Davis, Alison[Davis.Alison@epa.gov]; Barber, Anthony[Barber.Anthony@epa.gov]; Terry, Sara[Terry.Sara@epa.gov]; Davis, Matthew[Davis.Matthew@epa.gov]
Cc: Downey, Scott[Downey.Scott@epa.gov]; Moon, Wally[Moon.Wally@epa.gov]; Bremer, Kristen[Bremer.Kristen@epa.gov]; Fairchild, Susan[Fairchild.Susan@epa.gov]
From: Hastings, Janis
Sent: Mon 2/22/2016 6:52:50 PM
Subject: Planning for Thursday, 2/25, RA Update on Portland Air Toxics

Hi, everyone. We will use the call scheduled for this Thursday, 2/25, to update Dennis. I have forwarded the call-in information to him. He is generally aware of the background and issues, so we will focus on updates.

Instead of the regular daily update, below is a very rough agenda for Thursday, which I hope Dave, Katie, Madonna, and Mike can finalize.

Dave, could you please send out the final agenda for Thursday's call on Wed?

Topics (5 min each)

- Portland facilities: Brief updates and next steps – Katie
- Applicability determinations for the above facilities: Status – OAQPS?
- Other facilities nationwide: Brief update and next steps – HQ?
- ODEQ's requests for support: Current status/needs – Katie/Paul/Wally?
- Spectrum: Status and comparison with Bullseye – Katie
- Questions from Dennis

Thanks!

Jan

Janis Hastings, Acting Director

Office of Air, Waste & Toxics

U.S. Environmental Protection Agency, Region 10

1200 Sixth Ave, Ste. 900

Seattle, WA 98101

(206) 553-1582

From: Holsman, Marianne
Sent: Friday, February 19, 2016 1:09 PM
To: Bray, Dave <Bray.Dave@epa.gov>; Hastings, Janis <Hastings.Janis@epa.gov>; Koprowski, Paul <Koprowski.Paul@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; Smith, Judy <Smith.Judy@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Koerber, Mike <Koerber.Mike@epa.gov>; Davis, Alison <Davis.Alison@epa.gov>; Barber, Anthony <Barber.Anthony@epa.gov>; Terry, Sara <Terry.Sara@epa.gov>; Davis, Matthew <Davis.Matthew@epa.gov>
Cc: Downey, Scott <Downey.Scott@epa.gov>; Moon, Wally <Moon.Wally@epa.gov>; Bremer, Kristen <Bremer.Kristen@epa.gov>; Fairchild, Susan <Fairchild.Susan@epa.gov>
Subject: Re: Daily Updates on Portland Air Toxics

Hi Folks:

Sorry for all the calendar activity. I clearly need to slow down! Thanks to Katie for noting our daily calls were set for the weekends. Thankfully that doesn't seem necessary.

We'll catch up on Monday. May not be a ton to discuss then, but maybe we can make a plan for who needs to be in the conversations about what are the next steps and how we'll be communicating about them?

Have a good weekend!

From: Holsman, Marianne
Sent: Tuesday, February 16, 2016 4:12 PM
To: Holsman, Marianne; Bray, Dave; Hastings, Janis; Koprowski, Paul; Narvaez, Madonna; Smith, Judy; McClintock, Katie; Koerber, Mike; Davis, Alison; Barber, Anthony; Terry, Sara; Davis, Matthew
Cc: Downey, Scott; Moon, Wally; Bremer, Kristen; Fairchild, Susan
Subject: Daily Updates on Portland Air Toxics
When: Friday, February 19, 2016 8:30 AM-9:00 AM.
Where: (b) (6) code (b) (6)

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Thanks!

To: Bray, Dave[Bray.Dave@epa.gov]; Holsman, Marianne[Holsman.Marianne@epa.gov]; Hastings, Janis[Hastings.Janis@epa.gov]; Koprowski, Paul[Koprowski.Paul@epa.gov]; Narvaez, Madonna[Narvaez.Madonna@epa.gov]; Smith, Judy[Smith.Judy@epa.gov]; McClintock, Katie[McClintock.Katie@epa.gov]; Koerber, Mike[Koerber.Mike@epa.gov]; Davis, Alison[Davis.Alison@epa.gov]; Terry, Sara[Terry.Sara@epa.gov]; Davis, Matthew[Davis.Matthew@epa.gov]; Throwe, Scott[Throwe.Scott@epa.gov]
Cc: Downey, Scott[Downey.Scott@epa.gov]; Moon, Wally[Moon.Wally@epa.gov]; Bremer, Kristen[Bremer.Kristen@epa.gov]; Fairchild, Susan[Fairchild.Susan@epa.gov]
From: Barber, Anthony
Sent: Wed 2/24/2016 11:14:52 PM
Subject: RE: Daily Updates on Portland Air Toxics

I will unfortunately have to miss tomorrow's call as I will be conducting job interviews all day. I do have a few breaks during the day, so please let me know if I can be of assistance in follow up to the meeting or elsewise.

Anthony L. Barber, PE
Director
Oregon Operations Office
US EPA Region 10
805 SW Broadway, Suite 500
Portland, OR 97205

503-326-6890 (phone)
503-326-3399 (fax)
barber.anthony@epa.gov

-----Original Message-----
From: Bray, Dave
Sent: Wednesday, February 24, 2016 3:02 PM
To: Holsman, Marianne <Holsman.Marianne@epa.gov>; Hastings, Janis <Hastings.Janis@epa.gov>; Koprowski, Paul <Koprowski.Paul@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; Smith, Judy <Smith.Judy@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Koerber, Mike <Koerber.Mike@epa.gov>; Davis, Alison <Davis.Alison@epa.gov>; Barber, Anthony <Barber.Anthony@epa.gov>; Terry, Sara <Terry.Sara@epa.gov>; Davis, Matthew <Davis.Matthew@epa.gov>; Throwe, Scott <Throwe.Scott@epa.gov>
Cc: Downey, Scott <Downey.Scott@epa.gov>; Moon, Wally <Moon.Wally@epa.gov>; Bremer, Kristen <Bremer.Kristen@epa.gov>; Fairchild, Susan <Fairchild.Susan@epa.gov>
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Required: Holsman, Marianne; Bray, Dave; Hastings, Janis; Koprowski, Paul; Narvaez, Madonna; Smith, Judy; McClintock, Katie; Koerber, Mike; Davis, Alison; Barber, Anthony; Terry, Sara; Davis, Matthew
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Subject: Daily Updates on Portland Air Toxics
When: Thursday, February 25, 2016 8:30 AM-9:00 AM.
Where: Ex. 6 - Personal Privacy code: Ex. 6 - Personal Privacy

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To: McClintock, Katie[McClintock.Katie@epa.gov]; Froikin, Sara[Froikin.Sara@epa.gov]; Barnett, Keith[Barnett.Keith@epa.gov]
From: Throwe, Scott
Sent: Mon 2/29/2016 1:46:33 PM
Subject: RE: Enforcement Sensitive/Deliberative document/Do not release: process for sharing Subpart 6S applicability decision

I'll talk to Ed and see if he's okay with the process you suggested. If he is okay, it should only take a few days to get a letter drafted, barring other fire drills☺. But we will have to have OGC review the draft.

Scott Throwe

U.S. EPA

Office of Enforcement and Compliance Assurance

Office of Compliance

Phone: 202-564-7013

From: McClintock, Katie
Sent: Friday, February 26, 2016 5:39 PM
To: Throwe, Scott <Throwe.Scott@epa.gov>; Froikin, Sara <Froikin.Sara@epa.gov>; Barnett, Keith <Barnett.Keith@epa.gov>
Subject: RE: Enforcement Sensitive/Deliberative document/Do not release: process for sharing Subpart 6S applicability decision

Enforcement Sensitive/Deliberative document/Do not release

Scott –

Thanks for checking with Ed. I have discussed with my manager, Scott Downey and we propose the following.

Ex. 5 - Deliberative Process

Katie

From: Throwe, Scott
Sent: Friday, February 26, 2016 11:53 AM
To: McClintock, Katie <McClintock.Katie@epa.gov>; Froikin, Sara <Froikin.Sara@epa.gov>; Barnett, Keith <Barnett.Keith@epa.gov>
Subject: Enforcement Sensitive/Deliberative document/Do not release: process for sharing Subpart 6S applicability decision
Importance: High

Enforcement Sensitive/Deliberative document/Do not release

Ex. 5 - Deliberative Process

Let me know if you would like to discuss this further. Thank you.

Scott Throwe

U.S. EPA

Office of Enforcement and Compliance Assurance

Office of Compliance

Phone: 202-564-7013

To: Throwe, Scott[Throwe.Scott@epa.gov]; Froikin, Sara[Froikin.Sara@epa.gov]; Barnett, Keith[Barnett.Keith@epa.gov]
From: McClintock, Katie
Sent: Fri 2/26/2016 10:39:20 PM
Subject: RE: Enforcement Sensitive/Deliberative document/Do not release: process for sharing Subpart 6S applicability decision

Enforcement Sensitive/Deliberative document/Do not release

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U.S. EPA

Office of Enforcement and Compliance Assurance

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Phone: 202-564-7013

To: McClintock, Katie[McClintock.Katie@epa.gov]; Froikin, Sara[Froikin.Sara@epa.gov]; Barnett, Keith[Barnett.Keith@epa.gov]
From: Throwe, Scott
Sent: Fri 2/26/2016 7:53:12 PM
Subject: Enforcement Sensitive/Deliberative document/Do not release: process for sharing Subpart 6S applicability decision

Enforcement Sensitive/Deliberative document/Do not release

Ex. 5 - Deliberative Process

Let me know if you would like to discuss this further. Thank you.

Scott Throwe

U.S. EPA

Office of Enforcement and Compliance Assurance

Office of Compliance

Phone: 202-564-7013

To: Terry, Sara[Terry.Sara@epa.gov]; Koerber, Mike[Koerber.Mike@epa.gov]; McClintock, Katie[McClintock.Katie@epa.gov]; Narvaez, Madonna[Narvaez.Madonna@epa.gov]
Cc: Rimer, Kelly[Rimer.Kelly@epa.gov]; Barnett, Keith[Barnett.Keith@epa.gov]
From: Fairchild, Susan
Sent: Thur 2/25/2016 3:47:18 PM
Subject: updated list of art glass manufacturers
Known Art Glass Manufacturers in US updated 2 25 2016.xlsx

I've updated this list based on Katie's inspection of the Northstar facility, which identified other similar facilities making colored glass using a borosilicate recipe.

Susan Fairchild

Senior Environmental Scientist

(919) 541-5167

USPS Address:

OAQPS/SPPD/MMG

Mail Code D 243-04

Research Triangle Park, NC 27711

To: Terry, Sara[Terry.Sara@epa.gov]; Koerber, Mike[Koerber.Mike@epa.gov]; Hastings, Janis[Hastings.Janis@epa.gov]; Fairchild, Susan[Fairchild.Susan@epa.gov]; Barnett, Keith[Barnett.Keith@epa.gov]
Cc: South, Peter[South.Peter@epa.gov]
From: McClintock, Katie
Sent: Wed 2/24/2016 3:37:06 PM
Subject: RE: Portland Air Toxics

Ex. 5 - Deliberative Process

Lastly, as my daily update yesterday stated, we found 4 smaller companies melting metals in Portland. This could expand the "list" we made previously, but they are about 43 times smaller than Bullseye. They definitely have metals emissions though.

Katie

From: Terry, Sara
Sent: Wednesday, February 24, 2016 7:26 AM
To: Koerber, Mike <Koerber.Mike@epa.gov>; Hastings, Janis <Hastings.Janis@epa.gov>; Fairchild, Susan <Fairchild.Susan@epa.gov>; Barnett, Keith <Barnett.Keith@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>
Cc: South, Peter <South.Peter@epa.gov>
Subject: RE: Portland Air Toxics

Ex. 5 - Deliberative Process

Sara

From: Terry, Sara
Sent: Wednesday, February 24, 2016 10:25 AM
To: Koerber, Mike <Koerber.Mike@epa.gov>; Hastings, Janis <Hastings.Janis@epa.gov>; Fairchild, Susan <Fairchild.Susan@epa.gov>; Barnett, Keith <Barnett.Keith@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>
Cc: South, Peter <South.Peter@epa.gov>
Subject: RE: Portland Air Toxics
Importance: High

Hi all,

Here is my quick cut/paste etc. from existing materials. I'm not sure who else needs to review this, but I'm sure y'all can forward as needed. I'm not sure of the timing to get this reviewed and out the door. Mike, can you advise?

Thanks,

Sara

From: Koerber, Mike
Sent: Wednesday, February 24, 2016 8:45 AM
To: Terry, Sara <Terry.Sara@epa.gov>; Bremer, Kristen <Bremer.Kristen@epa.gov>; Davis, Alison <Davis.Alison@epa.gov>
Cc: Page, Steve <Page.Steve@epa.gov>; South, Peter <South.Peter@epa.gov>
Subject: Fwd: Portland Air Toxics

Sara - Can you take a stab at a draft? Let me know. Thanks.

Mike

Sent from my iPhone

Begin forwarded message:

From: "McCabe, Janet" <McCabe.Janet@epa.gov>
Date: February 23, 2016 at 7:28:10 PM MST
To: "McLerran, Dennis" <mclerran.dennis@epa.gov>, "Koerber, Mike" <Koerber.Mike@epa.gov>, "Hastings, Janis" <Hastings.Janis@epa.gov>, "Page, Steve" <Page.Steve@epa.gov>
Subject: RE: Portland Air Toxics

Hey there---

Dennis and I just talked. In addition to my hearing tomorrow, where I expect Senator Merkely to ask what we are doing to help Oregon with this, I also sat in on the call the Administrator had with Gov Brown this afternoon, and Mike K put some work into an outline of activities related to this. So lots going on. Here's what Dennis and I thought made sense going forward.

The Governor made it clear that she would like EPA to take some of the pressure off Oregon by identifying other similar facilities around the country and saying what we are doing with respect to this issue nationally. She also asked for specific help for OR, including technical assistance on how facilities can control these toxics, how to do stack testing, etc., and she also said she is looking for financial assistance to help with their AQ monitoring. The Administrator is definitely looking for us to do something to raise this issue up so it is not just an Oregon focused issue. So I suggest we do the following:

Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process

Let me know if you think this is workable. Mike, I know you are in Phoenix for the next two days, but hopefully there's someone at OAQPS who can work on this tomorrow (if Debbie can help, please let me know). Dennis said R10 could provide text on their situation to slot into the memo. We should strive to have a good draft of this by the end of the day tomorrow so we can finalize on Thursday.

Lastly, copied below is the outline Mike sent me earlier today:

Here is an draft overview of Headquarters' activities. Comments from others in OAQPS are welcome.

Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process

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Sent: Tuesday, February 23, 2016 9:02 PM
To: Hastings, Janis <Hastings.Janis@epa.gov>
Cc: McCabe, Janet <McCabe.Janet@epa.gov>; Koerber, Mike <Koerber.Mike@epa.gov>; Pirzadeh, Michelle <Pirzadeh.Michelle@epa.gov>; Holsman, Marianne <Holsman.Marianne@epa.gov>; Kowalski, Ed <Kowalski.Edward@epa.gov>
Subject: Portland Air Toxics

Jan:

Could you please send a paragraph summarizing all of the activities we are conducting to

support Oregon on the Portland Air toxics issue? Janet McCabe is testifying before a Senate committee tomorrow and Mike Koerber is working on materials for an Air Directors call later in the week that this can be used for. Perhaps you can build off the summaries Katie McClintock has been providing. Please get this off to Janet and Mike as early as possible on Wednesday. Thanks!

Dennis

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Sent: Wed 2/24/2016 3:26:24 PM
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Pirzadeh, Michelle <Pirzadeh.Michelle@epa.gov>; Holsman, Marianne <Holsman.Marianne@epa.gov>; Kowalski, Ed <Kowalski.Edward@epa.gov>
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Dennis

Sent from my EPA iPhone

To: McClintock, Katie[McClintock.Katie@epa.gov]; Averback, Jonathan[Averback.Jonathan@epa.gov]; Throwe, Scott[Throwe.Scott@epa.gov]
Cc: Narvaez, Madonna[Narvaez.Madonna@epa.gov]; Yellin, Patrick[Yellin.Patrick@epa.gov]; Barnett, Keith[Barnett.Keith@epa.gov]; Rodman, Sonja[Rodman.Sonja@epa.gov]; Matthews, Julie[Matthews.Juliane@epa.gov]
From: Fairchild, Susan
Sent: Tue 2/23/2016 1:13:50 PM
Subject: RE: Region 10 glass facility issue

To clarify:

Ex. 5 - Deliberative Process

I will look into the docket for the economics analysis that was done for this rulemaking.

Ex. 5 - Deliberative Process

Susan Fairchild

Senior Environmental Scientist

(919) 541-5167

USPS Address:

OAQPS/SPPD/MMG

Mail Code D 243-04

Research Triangle Park, NC 27711

From: McClintock, Katie
Sent: Tuesday, February 23, 2016 12:54 AM

To: Averback, Jonathan <Averback.Jonathan@epa.gov>; Throwe, Scott <Throwe.Scott@epa.gov>
Cc: Narvaez, Madonna <Narvaez.Madonna@epa.gov>; Fairchild, Susan <Fairchild.Susan@epa.gov>; Yellin, Patrick <Yellin.Patrick@epa.gov>; Barnett, Keith <Barnett.Keith@epa.gov>; Rodman, Sonja <Rodman.Sonja@epa.gov>; Matthews, Julie <Matthews.Juliane@epa.gov>
Subject: RE: Region 10 glass facility issue

Jon –

Thank you for taking the time to walk through your thought process. That is very helpful for me. I am not sure the next steps on this, but I went ahead and noted a few answers to your questions below.

Ex. 5 - Deliberative Process

Katie

Attorney-client communication/deliberative process – do not release

From: Averback, Jonathan
Sent: Monday, February 22, 2016 3:16 PM
To: Throwe, Scott <Throwe.Scott@epa.gov>
Cc: Narvaez, Madonna <Narvaez.Madonna@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Fairchild, Susan <Fairchild.Susan@epa.gov>; Yellin, Patrick <Yellin.Patrick@epa.gov>; Barnett, Keith <Barnett.Keith@epa.gov>; Rodman, Sonja <Rodman.Sonja@epa.gov>; Matthews, Julie <Matthews.Juliane@epa.gov>
Subject: RE: Region 10 glass facility issue

Attorney Client communication / deliberative process – do not release

Thanks to all for pulling me in. I've looked at the final FR notice, the RTC, the log of communications, and the background document on the industry (Thanks Susan). Having

Ex. 5 - Attorney Client

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Jon Averback - Sr Attorney - EPA/OGC/ARLO - 202-564-1064

From: Throwe, Scott
Sent: Thursday, February 18, 2016 3:30 PM

To: Averback, Jonathan <Averback.Jonathan@epa.gov>
Cc: Narvaez, Madonna <Narvaez.Madonna@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Fairchild, Susan <Fairchild.Susan@epa.gov>; Yellin, Patrick <Yellin.Patrick@epa.gov>
Subject: Region 10 glass facility issue
Importance: High

Jon:

As you probably know, we are dealing with an art glass facility in Region 10 which is releasing emissions of arsenic and cadmium in close proximity to a school. Ex. 5 - Attorney Client

Ex. 5 - Attorney Client

Here is some of the key language in Subpart 6S

(a) This subpart applies to each existing or new affected glass melting furnace that is located at a glass manufacturing facility and satisfies the requirements specified in paragraphs (a)(1) through (3) of this section.

(1) The furnace is a continuous furnace, as defined in §63.11459.

Continuous furnace means a glass manufacturing furnace that operates continuously except during periods of maintenance, malfunction, control device installation, reconstruction, or rebuilding.

Scott Throwe

U.S. EPA

Office of Enforcement and Compliance Assurance

Office of Compliance

Phone: 202-564-7013

To: Downey, Scott[Downey.Scott@epa.gov]; Leefers, Kristin[Leefers.Kristin@epa.gov]; Bray, Dave[Bray.Dave@epa.gov]; Narvaez, Madonna[Narvaez.Madonna@epa.gov]; Fairchild, Susan[Fairchild.Susan@epa.gov]; Holsman, Marianne[Holsman.Marianne@epa.gov]; Hastings, Janis[Hastings.Janis@epa.gov]; Froikin, Sara[Froikin.Sara@epa.gov]; Matthews, Julie[Matthews.Juliane@epa.gov]; Franklin, Richard[Franklin.Richard@epa.gov]; Kowalski, Ed[Kowalski.Edward@epa.gov]; Wroble, Julie[Wroble.Julie@epa.gov]; Hall, Chris[Hall.Christopher@epa.gov]; Moon, Wally[Moon.Wally@epa.gov]; Fried, Gregory[Fried.Gregory@epa.gov]; McLerran, Dennis[mclerran.dennis@epa.gov]; Pirzadeh, Michelle[Pirzadeh.Michelle@epa.gov]; Smith, Judy[Smith.Judy@epa.gov]; Koprowski, Paul[Koprowski.Paul@epa.gov]; Hedgpeth, Zach[Hedgpeth.Zach@epa.gov]; Fleming, Sheila[fleming.sheila@epa.gov]; Field, Chris[Field.Chris@epa.gov]; Martenson, Eric[Martenson.Eric@epa.gov]; Ingemansen, Dean[Ingemansen.Dean@epa.gov]; Terada, Calvin[Terada.Calvin@epa.gov]; Barnett, Keith[Barnett.Keith@epa.gov]; Kaetzel, Rhonda[Kaetzel.Rhonda@epa.gov]; Wendel, Arthur[Wendel.Arthur@epa.gov]; Koerber, Mike[Koerber.Mike@epa.gov]; Tonel, Monica[Tonel.Monica@epa.gov]
From: McClintock, Katie
Sent: Tue 2/23/2016 7:11:12 AM
Subject: Color Glass Daily Update 2-22-16
Daily Update 2-22-16.docx

Ex. 6 - Personal Privacy

Daily Update 2-22-16
Enforcement Confidential

- Bullseye Meeting: (sorry this part is long, but we had a good discussion, there are other important updates below)
    - We had a very productive meeting with only technical people. It was just Dan, the owner of bullseye, Eric, the CEO, and their consultant John. On our side it was George Davis and David Monro from DEQ and John Keenan and me from EPA.
    - Upcoming chromium usage – We did not hear a specific date at the meeting but based on a call from Bullseye's attorney afterward, it seems they will not be using chrome III this week, but will start next week.
    - Reformulation of batch – arsenic and chromium. Bullseye will not use arsenic again and it is also planning to replace all hexavalent chromium in the batch with green chrome oxide (all trivalent). They said they spent considerable energy when they switched to oxyfuel troubleshooting glass chemistry changes and they feel they will be able to do that again. It will take time and energy but they are committed. They expect almost all recipes will be able to be made with chrome oxide. In the future, with controlled furnaces, if they have problems with some recipes, they may want the option to use hexavalent chrome as a raw material, but not in the meantime.
    - The science of chrome oxidation – We had a detailed conversation about their claims that the chrome III would not oxidize to chrome VI in the furnace. I think our engineers were all somewhat convinced that the firing conditions in the furnace would reduce the probability that chrome III is converted to chrome VI (none of us were convinced the probability was 0). However, since we don't know how much chrome leaves the batch and we don't know how much would oxidize in an oxidizing environment, the fact that it is less isn't helpful. We can't quantify that in ambient or stack emissions. Furthermore, Bullseye doesn't monitor their batch such that there is an easy parameter to track. They claim it is just a matter of making good glass. They know they can't make good green glass (it turns clear) if the furnace is not creating a reducing atmosphere. Ultimately I can't say what will happen when they turn on the furnaces. We can do some modeling, wait and see what the ambient monitors pick up, or order them to source test.
    - Source testing: They are open to testing but only seem interested in testing controlled furnaces. It is unclear if it is because they feel this is necessary in the end and it is cheaper to just do then, but I suspect it may have to do with liability too. They never expressed interested in testing for chrome VI. They did mention that they only profited 250k last year and the incidental expenses this year will run up quickly to much more than that. Certainly a stack test in the range of 10-20k (not to mention the cost of controls) all eats away at their profit.
    - Baghouses on hand: They told us they have 2 metal baghouses sitting around that they bought a while ago as a project. They have now ordered bags. We found out with low stack flows, there stack exhaust is about 375 degrees. They are submitting a construction application to OR immediately and hope to install one baghouse on a furnace to use cadmium in. They will troubleshoot the effect of pressure on their glass chemistry and use that knowledge to help ensure their larger designed baghouse will meet their needs. This could accelerate their ability to use cadmium but it is unclear the control efficiency they will get.
    - Designed baghouses: They have signed the contract for their baghouse. The current

plan is it will control the 5 furnaces that most often make cadmium and chromium glass. They acknowledged we haven't ruled out issues with other metals but didn't explain how that factors in.

- What have they been up to: They have turned off one furnace but the remaining are making less glass and mostly clears and blues. They found is isn't much cheaper to keep them empty and hot than melt glass, so they are doing what they can and keeping people employed (though employees hours have been cut back).
- Formal agreement – We didn't talk about next steps with agreement but Bullseye is going to submit their construction application and write up these other proposals. They will send in the proposal when DEQ asks for it. This is starting to look like a pretty good outline for an MAO. Dave Monro with DEQ thought so as well and will try to get one moving soon. It is possible we could see a finished MAO before they start Chrome III potentially (though that is very optimistic).

- Chromium and Hexavalent Chromium around Bullseye and Portland
  - The October monitoring data around Bullseye never showed less than 20 ng/m^3 of total chromium. It raises questions about background concentrations. Based on the NATTS monitor in Portland (NE), the annual averages are between 0.8 and 1.3 ng/m^3 with non-detects for chromium VI for most years (the few that registered were between 0.01 to 0.03 ng/m3). This indicates something different is happening around Bullseye.
  - I heard that OR got preliminary results from their chrome and hex chrome monitors today. I am hesitant to share info because the results I heard anecdotally are very incomplete.

Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process

- Soil sampling –
  - Marc Stifelman correspondence with the New Day School (about 0.5 miles as the crow flies from Bullseye). They had no metals over background in their soil except lead (2 ppm above 79 ppm background and significantly below benchmark of 400 ppm). Marc helped communicate the meaning of this good news.
- Air sampling –
  - OR has requested additional air monitors that can do low volume for collecting TSP Cr6+. Chris Hall confirmed that we have 3 similar monitors (not exactly what OR asked for) that could be retrofitted to accept the Cr+6 assembly. It is unknown whether OR will want the monitors we have. He also sent OR's request to Lew Weinstock at OAQPS in case they have some spare lo-vol samplers.
- Applicability of 6S.

- Jon Averback of OGC finished his review of the record today. Ex. 5 - Attorney Client
- Ex. 5 - Attorney Client

- Oregon Legislative hearing –
  - There is a hearing Tuesday on Oregon's lack of toxics program. Everyone at Oregon is hopeful this it he first step toward them having a program like WA or CA. This is a wonderful effort with broad environmental implications.
- Information requests – All companies have been responsive in the last day and are moving forward in providing the records in the time periods I want. I will keep everyone posted on whether we need 114s.

To: Averback, Jonathan[Averback.Jonathan@epa.gov]; Throwe, Scott[Throwe.Scott@epa.gov]
Cc: Narvaez, Madonna[Narvaez.Madonna@epa.gov]; Fairchild, Susan[Fairchild.Susan@epa.gov]; Yellin, Patrick[Yellin.Patrick@epa.gov]; Barnett, Keith[Barnett.Keith@epa.gov]; Rodman, Sonja[Rodman.Sonja@epa.gov]; Matthews, Julie[Matthews.Juliane@epa.gov]
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Sent: Tue 2/23/2016 5:54:04 AM
Subject: RE: Region 10 glass facility issue

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From: McClintock, Katie
Sent: Mon 2/22/2016 5:04:55 AM
Subject: Color Glass Weekend Update 2-21-16
Daily Update 2-21-16.docx

Special heads up to Ed Kowalski that you might get a call from Nina requesting 114s from EPA.

Ex. 6 - Personal Privacy

Weekend updates 2/20-2/21
Enforcement Confidential

- Oregon Meeting with Bullseye
  - I talked with Dave Monro Saturday and after the main meeting ended they had a more constructive meeting with fewer attorneys posturing. They were able to get a little more information.
  - Source Testing – DEQ told Bullseye they could compel them to test. Bullseye explained that they aren't resistant to testing in general, just resistant to testing being a prerequisite for melting chrome III.
  - When will they restart meting Chrome III? Dave said they did not say specifically but he thinks they will wait until Friday.
  - Problem: DEQ would like them to not start up until they feel confident there ARE NOT hazardous emissions of chrome VI when they melt glass with chrome III. However, their authorities to compel them to not operate are a different standard – confident that there ARE hazardous emissions of chrome VI.
    - My guess is when Friday comes DEQ will not be squarely in either camp.
    - Dave says they may order them to test if they restart to put on record the next steps.
- Next meeting with Bullseye on Monday
  - John Keenan and I (Katie McClintock), both engineers, will be attending the meeting with Bullseye in person on Monday afternoon. We are hopeful for a constructive technical dialogue.
  - Bullseye did not response fully to my records request deadline last Wednesday. I am going to discuss with DEQ our efforts to push for records and how that balances with source testing and control design. Our main need is metals usages for the past 6 months.
- Uroboros update
  - Dave said that the owner was Ex. 6 - Personal Privacy and selling his company before this happened. Now he realizes he'll have to go into to debt to sell and may not bother. DEQ is meeting with Uroboros on Monday morning and with the Regional Solutions Center contacts to try to talk about options for help.
  - Uroboros has been diligently replying to my requests for information (better than Spectrum and Bullseye).
- DEQ Deadlines from government to identify metals universe:
  - 2/29 – A complete list of all permitted facilities that emit any heavy metals in OR (not limited to glass facilities).
  - 3/31 – A complete list of all unpermitted facilities that emit any heavy metals in OR (also not limited to glass).
  - They want EPA to issue 114s to many glass sources and potentially others as part of this effort. They want to use the 114s to prove whether sources have or don't have emissions. We discussed calling companies to understand operations (for glass asking "do you manufacture glass from raw materials?) but Nina Deconcini is uncomfortable without a written response. She is supposed to be reaching out to "my management" regarding this. I assume this call will go to Ed Kowalski.

  - There is clearly a glass focus as well, but given the fact that OR was blind sighted by this, they want to answer the questions "what else do we not know about?"
  - I have been providing technical support for this work as much as possible and enlisting help from RTP for targeting and area source rules.
  - This may be resource intensive to write and review these responses. Some calls ahead will allow us to write simpler 114s that will speed up the response time and the review. We will need to enlist other compliance staff in this effort.
  - The 114 drafting will dovetail with some region 10 and national source identification as well but seems to be much more comprehensive than warranted elsewhere because of their lack of toxics program.
  - John and I may try to visit the glass facility Northstar in Portland on Tuesday morning. This is one of the larger "small guys" that is worth seeing. It will be interesting to see what they do and it might inform 114s to other small glass plants in OR or elsewhere.
- Spectrum Information Request in Inspection:
  - They are dragging their feet a bit. I am scheduled to talk to them tomorrow and will push them to meet a deadline this week. If not, I think we should send a 114.
- Hydrogen flouride – (or more accurately hydrofluoric acid) http://m.portlandmercury.com/BlogtownPDX/archives/2016/02/20/portland-glass-makers-fluorine-use-deserves-scrutiny-experts-say
  - This is used in etching glass. The Mercury is calling attention to this. I didn't see any glass etching operations at any of the facilities, but it is certainly possible they do it. I only saw tin and titanium based coatings. My gut says that this isn't a huge issue for ambient emissions (or localized otherwise OSHA would have noticed given the toxicity), but we will ask Bullseye tomorrow.

To: Downey, Scott[Downey.Scott@epa.gov]; Leefers, Kristin[Leefers.Kristin@epa.gov]; Bray, Dave[Bray.Dave@epa.gov]; Narvaez, Madonna[Narvaez.Madonna@epa.gov]; Fairchild, Susan[Fairchild.Susan@epa.gov]; Holsman, Marianne[Holsman.Marianne@epa.gov]; Hastings, Janis[Hastings.Janis@epa.gov]; Froikin, Sara[Froikin.Sara@epa.gov]; Matthews, Julie[Matthews.Juliane@epa.gov]; Franklin, Richard[Franklin.Richard@epa.gov]; Kowalski, Ed[Kowalski.Edward@epa.gov]; Wroble, Julie[Wroble.Julie@epa.gov]; Hall, Chris[Hall.Christopher@epa.gov]; Moon, Wally[Moon.Wally@epa.gov]; Fried, Gregory[Fried.Gregory@epa.gov]; McLerran, Dennis[mclerran.dennis@epa.gov]; Pirzadeh, Michelle[Pirzadeh.Michelle@epa.gov]; Smith, Judy[Smith.Judy@epa.gov]; Koprowski, Paul[Koprowski.Paul@epa.gov]; Hedgpeth, Zach[Hedgpeth.Zach@epa.gov]; Fleming, Sheila[fleming.sheila@epa.gov]; Field, Chris[Field.Chris@epa.gov]; Martenson, Eric[Martenson.Eric@epa.gov]; Ingemansen, Dean[Ingemansen.Dean@epa.gov]; Terada, Calvin[Terada.Calvin@epa.gov]; Barnett, Keith[Barnett.Keith@epa.gov]; Kaetzel, Rhonda[Kaetzel.Rhonda@epa.gov]; Wendel, Arthur[Wendel.Arthur@epa.gov]; Koerber, Mike[Koerber.Mike@epa.gov]
From: McClintock, Katie
Sent: Sat 2/20/2016 5:36:16 AM
Subject: Color Glass Daily Update 2-19
Daily Update 2-19-16.docx

Since the onedrive isn't available on phones, I am going to keep emailing these. If you want to opt out, please let me know.

This one is a long one since there was a lot of news today, especially about the Bullseye Meeting.

I apologize in advance for any typos as I'm a bit on the tired side. Have a great weekend everyone (or I hope you had a good weekend if you read this Monday).

Ex. 6 - Personal Privacy

Daily Update 2/19/16
Enforcement Confidential

- Update from Congressional meeting 2/18 –
    - Meeting had 4 forest service people, 3 EPA (Dennis McLerran, Judy Smith, Tony Barber), 3 congress people and many staffers.
    - Talk mostly was about the forest service study
    - Dennis was asked about the regulatory loophole and why batch processes were not covered. Strongly paraphrasing, but it sounds like Dennis said we were looking into the rule and applicability.
    - There was one todo out of the meeting which was getting them more information on the annual grants for toxics studies.
    - I put press articles sent in emails from Judy and Marianne on the press page.
    - Formal response letters were finalized today and are on the sharedrive.
- Meeting with Bullseye:
    - Participants: DEQ (Dick Pederson, David Monro, George Davis, Sarah Armitage), Bullseye (Owners Dan and Lani, Jim Jones, bridgewater consultant), Perkins Coie (Jeff Hunter and a few others). Governers office (gabriella and another). EPA (Katie McClintock, Madonna Narvaez, Steffan Johnson and Stephanie Doolan). A glass chemist called in late as well.
    - The meeting started out cooperative with both parties moving forward. After some productive conversation it got hung up on a few key issue: restarting using chrome (III) and stack testing.
    - What was agreed upon:
        - Bullseye is designing pollution control equipment even if it is not ordered or required by law. Looking for a fast implementation as soon as 16 weeks.
        - Bullseye is not going to use arsenic again. They are reformulating to remove it from their recipe (it is used in refining, not coloring).
        - Bullseye is not proposing to restart cadmium or chromium (VI) at this point (but was unwilling to state they would not restart until controls were installed).
        - Bullseye had a technical explanation for why using chrome (III) would not result in chrome (VI) emissions. It related to the reducing atmosphere in their glass and combustion area. Bullseye invited DEQ and EPA to participate in a thorough technical conversation to understand why bullseye feels there is no risk with using chrome III. DEQ is not convinced currently of no risk and it is the basis for their concerns (staff at EPA have similar concerns). Meeting is set for Monday afternoon.
    - Issues that could not be resolved:
        - Bullseye said they planned to start melting glasses with chrome (III) on Wednesday. Said they would "fight" deq on this. DEQ asked them to give them until Friday. They did not agree (but didn't disagree either). Definitely by Friday the tone was that they would restart unless DEQ intervened to keep them from starting up. They asked DEQ to help message the restart to make it clear to the public that everyone was safe. DEQ said they didn't have the information for that currently.
        - One of DEQ's terms decided in caucus was an expedited source test and they asked that Bullseye not resume operation until this test was done. Bullseye not

only refused to wait for source test results to restart but refused to make any commitment to do source testing.

- Other outstanding issues:
  - Bullseye didn't discuss specifics on whether all furnaces using the key metals would be controlled, but they committed to some equipment and begged DEQ to come up with a threshold for them to design to. They are concerned background concentrations are high enough that they will have to clean ambient air to meet OR's benchmarks.
  - Bullseye and EPA are both very interested in the outcome of the ambient monitoring data that is on now and will watch carefully. If Bullseye starts, with or without DEQs approval, this ambient monitoring data might give some sense of whether chrome VI is being emitted. Of course that data won't help message the restart.
  - Bullseye asked why we were all picking on them and not their competitors or container glass manufacturers making green glass. I mistakenly answered a question about container glass and brought up a plant in Seattle that is using chromium. I just found the plant yesterday and am investigating as well, but it was (admittedly) not a helpful addition to the meeting.
  - They asked for EPA and DEQ's evidence for why melting chrome III was an issue. DEQ answered that they have to be able to say using it with certainty that it is not an issue and there is not information on which to do that (no speciated ambient monitoring, no stack tests here or at similar facilities with speciated results).
- Messaging:
  - There was a lot of conversation about messaging at the end. The decision was that Bullseye will write DEQ a letter with their commitments (it will not include that they plan to restart chrome III on Wednesday or Friday). DEQ will then issue a press release stating what they have gotten the company to agree to do. There wasn't talk of what is going to happen when they start remelting chrome III if DEQ isn't on board. Questions about this meeting in the meantime would be answered with the idea that it was a "constructive" meeting and DEQ is waiting for the letter.
  - There was also a plea from bullseye to help clear up the mixed messages. One article will quote OHA saying the kale is safe to eat and the next says "officials say don't eat your kale." DEQ acknowledged this but said it obviously couldn't control headlines.
- A few other facts of use:
  - They said essentially 90% of their production capacity is taken out if they can't use chrome (III), chrome (VI), arsenic, and cadmium. They said after Friday they can't economically operate anymore. They have already shut down 1 furnace and have stored up as much of the glasses they can make as is reasonable.
  - The Governor's office natural resources advisor Gabriella was great in my view. She really pushed the company to answer some of the tough questions while also being collaborative and not adversarial. In my view, the interaction between her, DEQ, and DOJ worked well.

    - Monday meeting – Bullseye asked if EPA would be participating and I said we'd discuss with DEQ. I think it would be great to participate to understand better the issues that will arise here and elsewhere and help where we can. I am waiting to hear back from DEQ. Meeting is Monday afternoon so not a lot of time to decide, especially if attending in person, which would probably be idea for this kind of in depth technical meeting.
- Monitoring information:
    - DEQ confirmed today that both of the ambient monitors at the Fred Meyer parking lot and the day care are capable of doing hex chrome speciation.
    - DEQ did in fact decide to use EPA's XRF sampling system. EPA gave it to them yesterday.
- Other Color glass plants:
    - Briefed management/staff in other regions with color glass plants today. Explained the issue and sent our draft 11 for them to review.
    - There is little urgency on the part of other regions, so if simultaneous investigations are key for us, we might need to apply more pressure.
- Ruling out other sources near Bullseye:
    - We had a conversation with OR on this in preparation for our mtg with Bullseye
    - Oregon says they didn't do a comprehensive search for other sources but are confident Bullseye is the major source of emissions registered at the Fred Meyer monitor because:
        - Both cadmium hot spots were right near or over the only two color glass plants. Arsenic around Bulleseye but not at Uroboros where no arsenic. Hot spots fit with their profiles.
        - There are no other significant sources of cadmium in the area.
        - There is a plater nearby using cadmium and another using chromium but both are very well controlled and have very low emissions.
        - Cadmium is not a common compound in air and they have been puzzled by its presence in Portland for years and finally this study found two clear larger users of cadmium.
        - The month they monitored had very stagnant conditions so the ambient concentrations would hang around and not move quickly with the wind and therefore the lack of correlation of ambient data with operating days is not meaningful.
- Other updates:
    - CNN was in Portland today filming the soil sampling.
    - 6S Applicability – I briefed the staff OECA attorney on this. No word from OGC yet. Will follow up Monday.
- Julie Wroble from EPA is looking into health information:
    - Looking at background urban concentration levels of chromium based on studies, atsdr and ambient sampling conducted by epa.
    - Currently looking at an ambient benchmark for Cr VI of about 0.012 ng/m^3. As a reminder the total chrome number outside Bullseye was 71.5 ng/m^3.
    - Reviewing our air toxics in schools study at Tubman.
    - Looking at potential issues from other metals like lead and nickel which aren't currently being discussed much.
- Topics for more follow up:

  - Forest Service mentioned that there was a soil cleanup underway at Fred Meyer. Wally Moon is looking into this.
  - DEQ has said they will post ambient data on the website. Find out when this will be done and what frequency. Madonna?
  - Understand meteorological data for the month of October and how that might have affected registered ambient concentrations. Rob Elleman is working on this.
  - Oregon asked if the modeling screen that Puget Sound and other WA agencies used could be used by them to calculate a projected impact based on metals usage at bullseye. I asked Steve Van Slyke.
- Hexavalent Chromium information that may be of interest:
  - Stef Johnson provided a lot of technical information on the stack testing for this, which is very complicated and expensive. The test involves a sampling fluid that can vaporize at temperatures over 600F and glass furnace stacks will be substantially above that. It will make sampling more difficult (but not impossible).
  - We also learned that R7 found that hex chrome has a half-life in the air of about 24-48 hours and only travels about 0.5 miles (though clearly meteorological and geographical information would effect this).
  - Stephanie Doolan of R7 who is an expert on hex chrome in ambient monitoring also sent a bunch of technical information which I have put on the onedrive in the technical folder. The final product of their study was recently removed from the website and she is tracking it down. I will add it when she finds it.

To: Downey, Scott[Downey.Scott@epa.gov]; Bray, Dave[Bray.Dave@epa.gov]; Narvaez, Madonna[Narvaez.Madonna@epa.gov]; Fairchild, Susan[Fairchild.Susan@epa.gov]; Holsman, Marianne[Holsman.Marianne@epa.gov]; Hastings, Janis[Hastings.Janis@epa.gov]; Froikin, Sara[Froikin.Sara@epa.gov]; Matthews, Julie[Matthews.Juliane@epa.gov]; Franklin, Richard[Franklin.Richard@epa.gov]; Kowalski, Ed[Kowalski.Edward@epa.gov]; Wroble, Julie[Wroble.Julie@epa.gov]; Hall, Chris[Hall.Christopher@epa.gov]; Moon, Wally[Moon.Wally@epa.gov]; Fried, Gregory[Fried.Gregory@epa.gov]; McLerran, Dennis[mclerran.dennis@epa.gov]; Smith, Judy[Smith.Judy@epa.gov]; Koprowski, Paul[Koprowski.Paul@epa.gov]; Hedgpeth, Zach[Hedgpeth.Zach@epa.gov]; Fleming, Sheila[fleming.sheila@epa.gov]; Field, Chris[Field.Chris@epa.gov]; Martenson, Eric[Martenson.Eric@epa.gov]; Ingemansen, Dean[Ingemansen.Dean@epa.gov]; Terada, Calvin[Terada.Calvin@epa.gov]; Barnett, Keith[Barnett.Keith@epa.gov]; Kaetzel, Rhonda[Kaetzel.Rhonda@epa.gov]; Wendel, Arthur[Wendel.Arthur@epa.gov]; Koerber, Mike[Koerber.Mike@epa.gov]
From: McClintock, Katie
Sent: Fri 2/19/2016 5:37:17 AM
Subject: Daily update for Color Glass
Daily Update 2-18-16.docx

Note: this is the last daily update I will send in email since I think most people have found their way to the onedrive now. If you have any problems checking it, let me know. I will continue to write and post one each evening in the daily updates folder.

Ex. 6 - Personal Privacy

Daily Update 2-18-2016
Enforcement Confidential

- Lots of press after Sen Wyden's press conference. Judy Smith compiled news stories and I saved her email (with links) on the share in the Press folder.
- Review of Bullseye submittals – Concerning lack of symmetry between records of glass production and ambient concentrations.
    - Ambient monitoring showed high chromium emissions on 10/6 and 10/24. Notably they were melting chrome containing glass on 10/6 but did not melt any glass on 10/24 (Saturday). Similarly, one of the two cadmium peak days was also a Saturday, but I do not have batch records or a confirmation of whether they were producing glass. There are many other days whether they make chromium containing glasses in similar quantities as 10/6 but the monitors did not register high chromium emissions.
- Part 63 6S Applicability discussion
    - Ex. 5 - Attorney Client
    - Ex. 5 - Attorney Client
    - Ex. 5 - Attorney Client
    - Ex. 5 - Attorney Client
- Bullseye negotiations Friday (based on conversations between Ed Kowalski and Paul Garrahan, and Katie McClintock and George Davis)
    - EPA has been invited
    - Pre-meeting in morning
    - Meeting with company and lawyers in the afternoon
    - Expect a lot of conversation on chromium, which they say is in 80% of their products.
    - OR will be asking that they continue to not use chromium while they negotiate the specifics of an MAO. It is my understanding that they are not ordering it currently.
- Puget Sound – based on conversation between Katie McClintock and Steve Van Slyke
    - Steve does not believe ambient air monitoring is an appropriate next step. Would not directly object to our installation of an ambient monitor.
    - He recommends we gather total usage data of chromium and cadmium for a year from Spectrum and start modeling. First model all emitted and see how much less would need to be to be below a level of concern.
        - I reached back out to Spectrum and asked for this data by tomorrow.
- Some distances in case you are interested – (as the crow flies)
    - 0.31 miles between Bullseye and Cleveland High School
    - 0.15 miles between Uroboros and Harriet Tubman Middle School
    - 0.69 miles between Spectrum and Woodinville High School, 0.6 miles from Kokanee Elementary, 0.39 miles from a private (preschool-12th grade) school
- Container Glass:
    - Ardagh (formerly Saint-Gobain) in Seattle is reporting emissions of 910 pounds of chromium compounds in 2014. They are subject to 6S and have tested in compliance

(without add on controls). I am placing information on the share drive. The closest metal monitoring in the area was Beacon Hill reasonable distance from the facility. The study (on share drive) says "hexavalent chromium is an air toxic of concern in our area, but was not addressed in this project due to the large uncertainty in the reliability of existing monitoring and analysis methods." They are using and reporting lead emissions.

- Owens-Brockway in Portland is not reporting use of chromium which either means they are under the reporting threshold or they are not using it at all. They make primarily beer bottles (amber color, usually from sulfur) and Ardagh is making primarily wine bottles (green, chromium is one of main green colors). They are using and reporting lead emissions.

To: McClintock, Katie[McClintock.Katie@epa.gov]; Downey, Scott[Downey.Scott@epa.gov]; Leefers, Kristin[Leefers.Kristin@epa.gov]; Bray, Dave[Bray.Dave@epa.gov]; Narvaez, Madonna[Narvaez.Madonna@epa.gov]; Fairchild, Susan[Fairchild.Susan@epa.gov]; Holsman, Marianne[Holsman.Marianne@epa.gov]; Hastings, Janis[Hastings.Janis@epa.gov]; Froikin, Sara[Froikin.Sara@epa.gov]; Matthews, Julie[Matthews.Juliane@epa.gov]; Franklin, Richard[Franklin.Richard@epa.gov]; Kowalski, Ed[Kowalski.Edward@epa.gov]; Wroble, Julie[Wroble.Julie@epa.gov]; Hall, Chris[Hall.Christopher@epa.gov]; Moon, Wally[Moon.Wally@epa.gov]; Fried, Gregory[Fried.Gregory@epa.gov]; McLerran, Dennis[mclerran.dennis@epa.gov]; Pirzadeh, Michelle[Pirzadeh.Michelle@epa.gov]; Smith, Judy[Smith.Judy@epa.gov]; Koprowski, Paul[Koprowski.Paul@epa.gov]; Hedgpeth, Zach[Hedgpeth.Zach@epa.gov]; Fleming, Sheila[fleming.sheila@epa.gov]; Field, Chris[Field.Chris@epa.gov]; Martenson, Eric[Martenson.Eric@epa.gov]; Ingemansen, Dean[Ingemansen.Dean@epa.gov]; Terada, Calvin[Terada.Calvin@epa.gov]; Barnett, Keith[Barnett.Keith@epa.gov]; Kaetzel, Rhonda[Kaetzel.Rhonda@epa.gov]; Wendel, Arthur[Wendel.Arthur@epa.gov]
From: Koerber, Mike
Sent: Thur 2/18/2016 1:40:31 PM
Subject: RE: Daily update - mostly quick summary about Spectrum Glass
NATTS - Cadmium and Arsenic.docx

FYI – here is information on cadmium and arsenic concentrations from the NATTS network.

Katie – you may wish to add this to the Sharepoint site

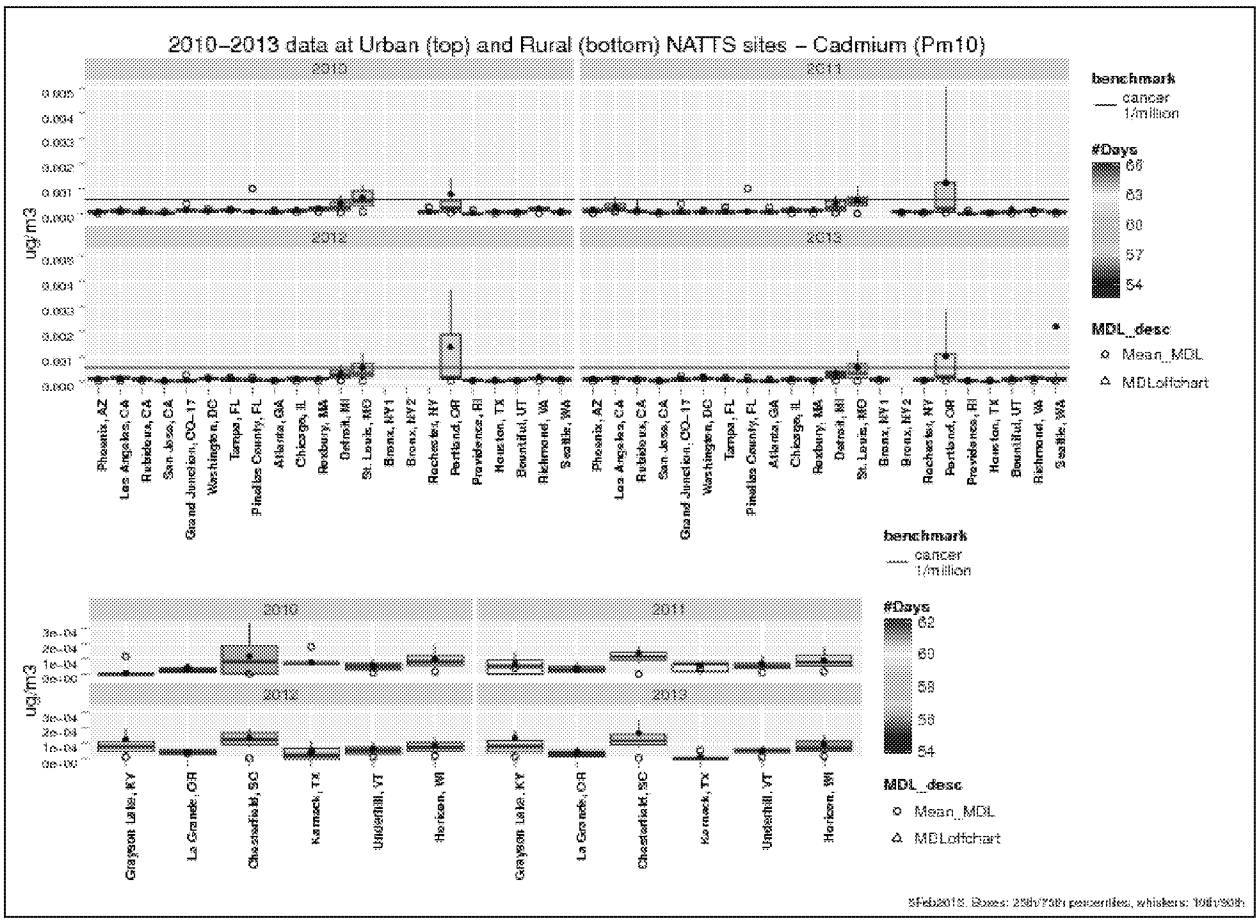
From: McClintock, Katie
Sent: Thursday, February 18, 2016 12:52 AM
To: Downey, Scott <Downey.Scott@epa.gov>; Leefers, Kristin <Leefers.Kristin@epa.gov>; Bray, Dave <Bray.Dave@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; Fairchild, Susan <Fairchild.Susan@epa.gov>; Holsman, Marianne <Holsman.Marianne@epa.gov>; Hastings, Janis <Hastings.Janis@epa.gov>; Froikin, Sara <Froikin.Sara@epa.gov>; Matthews, Julie <Matthews.Juliane@epa.gov>; Franklin, Richard <Franklin.Richard@epa.gov>; Kowalski, Ed <Kowalski.Edward@epa.gov>; Wroble, Julie <Wroble.Julie@epa.gov>; Hall, Chris <Hall.Christopher@epa.gov>; Moon, Wally <Moon.Wally@epa.gov>; Fried, Gregory <Fried.Gregory@epa.gov>; McLerran, Dennis <mclerran.dennis@epa.gov>; Pirzadeh, Michelle <Pirzadeh.Michelle@epa.gov>; Smith, Judy <Smith.Judy@epa.gov>; Koprowski, Paul <Koprowski.Paul@epa.gov>; Hedgpeth, Zach <Hedgpeth.Zach@epa.gov>; Fleming, Sheila <fleming.sheila@epa.gov>; Field, Chris <Field.Chris@epa.gov>; Martenson, Eric <Martenson.Eric@epa.gov>; Ingemansen, Dean <Ingemansen.Dean@epa.gov>; Terada, Calvin <Terada.Calvin@epa.gov>; Barnett, Keith <Barnett.Keith@epa.gov>; Kaetzel, Rhonda <Kaetzel.Rhonda@epa.gov>; Wendel, Arthur <Wendel.Arthur@epa.gov>; Koerber, Mike <Koerber.Mike@epa.gov>
Subject: Daily update - mostly quick summary about Spectrum Glass

Here is the update. It is mostly a quick summary of the inspection at Spectrum. Even quicker summary – they are huge and there is a large potential for emissions from this

source, even with their existing controls.

Ex. 6 - Personal Privacy

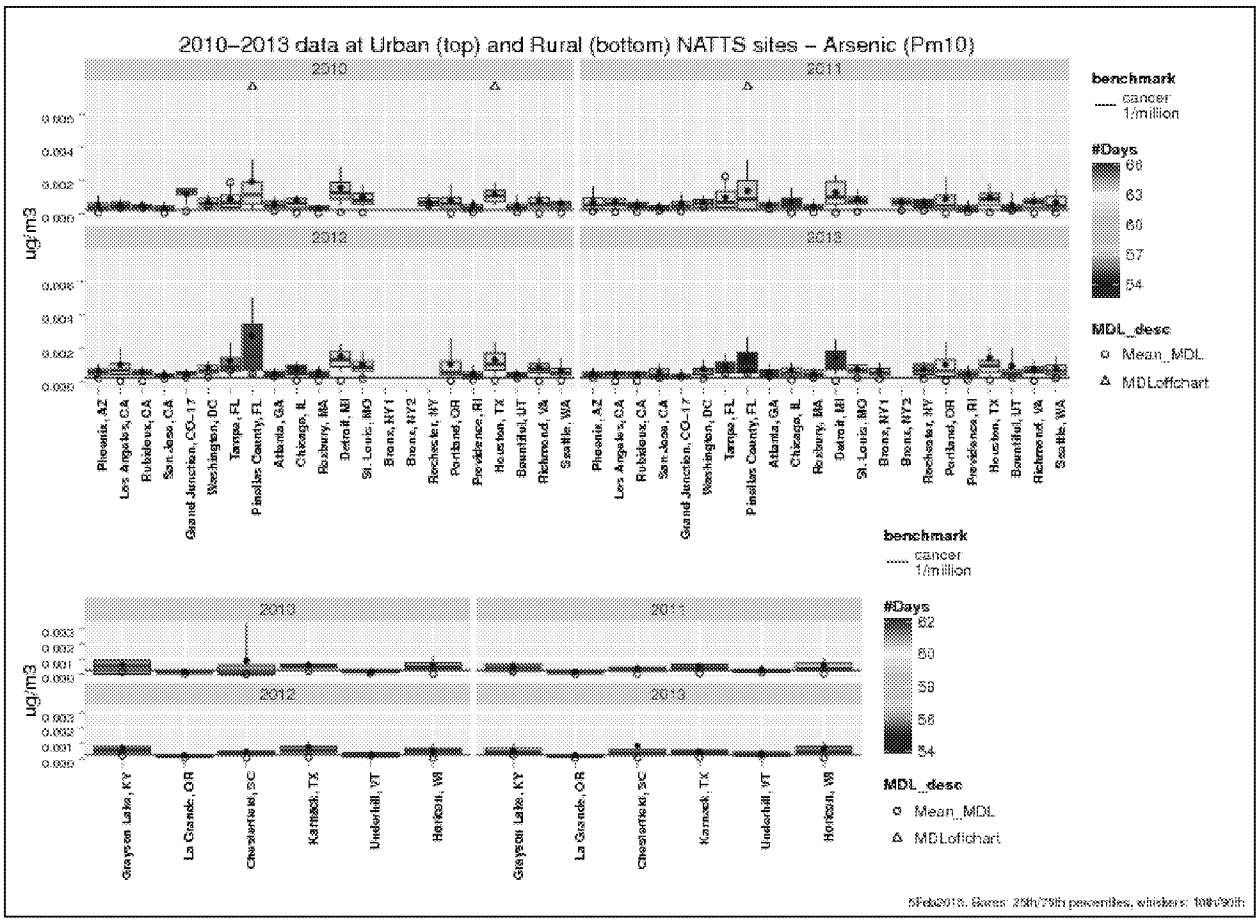
Cadmium and Arsenic Concentrations from National Air Toxics Trends Sites (NATTS)



The above charts show the distribution of cadmium concentrations for all 27 NATTS sites in micrograms/m3, for the years 2010, 2011, 2012 and 2013. Urban NATTS sites are shown above, and rural NATTS sites are below. The Portland Oregon shows significantly higher concentrations for all 4 years.

Annual Statistics of the Measured Concentrations for the Portland Site are shown below

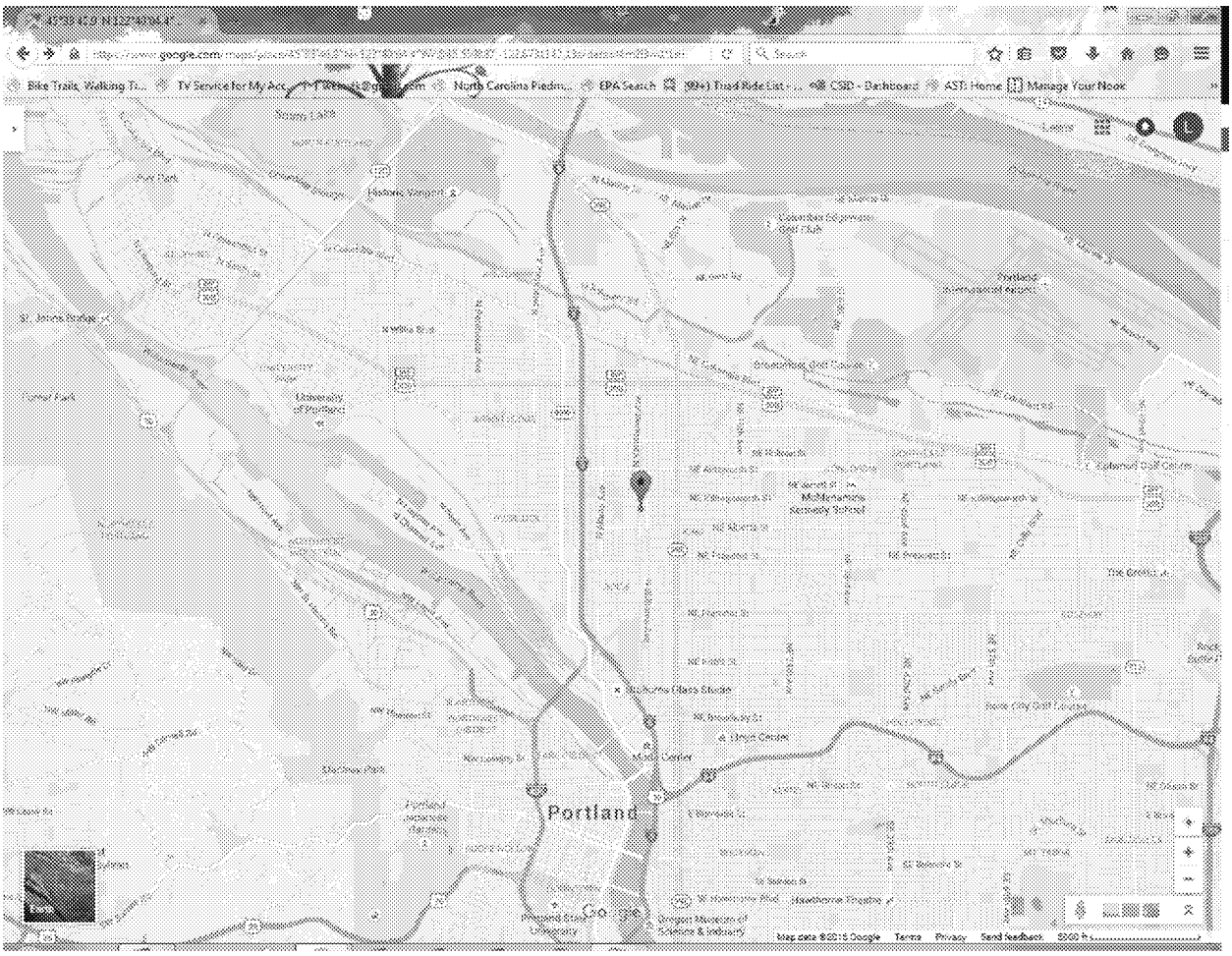
SITE	YEAR	AQS_PARAMETER_NAME	Annual Maximum (ug/m3)	Annual Average (ug/m3)
410510246	2013	Cadmium Pm10 Lc	0.009345	0.000972
410510246	2012	Cadmium Pm10 Lc	0.0166	0.001358
410510246	2011	Cadmium Pm10 Lc	0.009024	0.001217
410510246	2010	Cadmium Pm10 Lc	0.00979	0.000766



The above charts show the distribution of arsenic concentrations for all 27 NATTS sites in micrograms/m3, for the years 2010, 2011, 2012 and 2013. Urban NATTS sites are shown above, and rural NATTS sites are below. Portland is among several urban sites with elevated concentrations.

AMA_SITE_CODE	YEAR	AQS_PARAMETER_NAME	Annual Maximum (ug/m3)	Annual Average (ug/m3)
410510246	2013	Arsenic Pm10 Lc	0.0062	0.001031
410510246	2012	Arsenic Pm10 Lc	0.00387	0.001001
410510246	2011	Arsenic Pm10 Lc	0.005684	0.000935
410510246	2010	Arsenic Pm10 Lc	0.002446	0.000781

Chromium VI is excluded from this analysis because a substantial quantity of data are measured below the method detection limit (62-80%) at the Portland site.



Location of Portland NATTS Site (see marker due north of Uroboros Glass)

To: Downey, Scott[Downey.Scott@epa.gov]; Leefers, Kristin[Leefers.Kristin@epa.gov]; Bray, Dave[Bray.Dave@epa.gov]; Narvaez, Madonna[Narvaez.Madonna@epa.gov]; Fairchild, Susan[Fairchild.Susan@epa.gov]; Holsman, Marianne[Holsman.Marianne@epa.gov]; Hastings, Janis[Hastings.Janis@epa.gov]; Froikin, Sara[Froikin.Sara@epa.gov]; Matthews, Julie[Matthews.Juliane@epa.gov]; Franklin, Richard[Franklin.Richard@epa.gov]; Kowalski, Ed[Kowalski.Edward@epa.gov]; Wroble, Julie[Wroble.Julie@epa.gov]; Hall, Chris[Hall.Christopher@epa.gov]; Moon, Wally[Moon.Wally@epa.gov]; Fried, Gregory[Fried.Gregory@epa.gov]; McLerran, Dennis[mclerran.dennis@epa.gov]; Pirzadeh, Michelle[Pirzadeh.Michelle@epa.gov]; Smith, Judy[Smith.Judy@epa.gov]; Koprowski, Paul[Koprowski.Paul@epa.gov]; Hedgpeth, Zach[Hedgpeth.Zach@epa.gov]; Fleming, Sheila[fleming.sheila@epa.gov]; Field, Chris[Field.Chris@epa.gov]; Martenson, Eric[Martenson.Eric@epa.gov]; Ingemansen, Dean[Ingemansen.Dean@epa.gov]; Terada, Calvin[Terada.Calvin@epa.gov]; Barnett, Keith[Barnett.Keith@epa.gov]; Kaetzel, Rhonda[Kaetzel.Rhonda@epa.gov]; Wendel, Arthur[Wendel.Arthur@epa.gov]; Koerber, Mike[Koerber.Mike@epa.gov]
From: McClintock, Katie
Sent: Thur 2/18/2016 5:51:49 AM
Subject: Daily update - mostly quick summary about Spectrum Glass
Daily Update 2-17-16.docx

Here is the update. It is mostly a quick summary of the inspection at Spectrum. Even quicker summary – they are huge and there is a large potential for emissions from this source, even with their existing controls.

Ex. 6 - Personal Privacy

Daily update for Color glass 2/17/16
Enforcement Confidential

- Public Meeting at Tubman Thursday evening
- Meeting with OR legislature Thursday afternoon
    - Draft letter response is circulating for review.
- Spectrum Inspection
    - The Spectrum folder on the share drive will have a brief inspection writeup hopefully by end of tomorrow at the latest (full report coming later). Here are the essential details:
    - Bottom line – They are so much bigger than Bullseye, that even with some controls, they have the potential for higher emissions. In one day, Spectrum melts in 2 small furnaces what Bullseye does in all of their furnaces and three times what Uroboros does.
    - Spectrum has 6 "small furnaces", two large furnaces (3 times size of small) and one very large furnace (6 times the size of small furnaces)
    - There is a high school nearby but residences are further.
    - They are using cadmium and chromium (hexavalent and trivalent), but not arsenic except as a minor impurity in a raw material (very small amounts).
    - Cadmium emissions may be lower per melt than Bullseye because they use a premade crushed cadmium glass to add color. However some is still emitted (as evidenced by baghouse collection).
    - Quantity of emissions will be based on which glasses are melted in the controlled and uncontrolled furnaces. We have requested all of these records.
    - They have already hired a consulting firm to evaluate their controls (after bullseye news broke).
- Facility Specific –
    - Bullseye –
        - News reports there are protests outside – demands for them to shut down
        - Submitted the first part of the information I requested – sent from their law firm (Perkin Coie)
    - Uroboros – Response is nearly ready but requests written assurances of our CBI policy – we will be following up.
- Baghouse dust handling
    - Will ask follow up questions with bullseye and Uroboros and have asked questions at Spectrum. Specifically looking at if the baghouse dust is hazardous waste, any analytical data on waste and how/where they dispose of it.
- Soil sampling
    - ODEQ no longer is planning to use EPA's soil sampling system. They will be using their own system and take the lead. EPA will not have any field presence in the sampling.
    - EPA and ATSDR are gathering health screening levels for soil to evaluate the soil results (can preliminarily compare to the medias reports about early testing results taken privately).
- Air monitoring – The air monitoring plan is on the onedrive.

To: Strum, Madeleine[Strum.Madeleine@epa.gov]; Benedict, Kristen[Benedict.Kristen@epa.gov]; McClintock, Katie[McClintock.Katie@epa.gov]; Barnett, Keith[Barnett.Keith@epa.gov]; Fairchild, Susan[Fairchild.Susan@epa.gov]; Throwe, Scott[Throwe.Scott@epa.gov]; Weinstock, Lewis[Weinstock.Lewis@epa.gov]; Wayland, Richard[Wayland.Richard@epa.gov]; Sasser, Erika[Sasser.Erika@epa.gov]; Rimer, Kelly[Rimer.Kelly@epa.gov]; Froikin, Sara[Froikin.Sara@epa.gov]
Cc: Lamason, Bill[Lamason.Bill@epa.gov]
From: Pope, Anne
Sent: Wed 2/17/2016 1:06:19 PM
Subject: RE: art glass facilities and inventory for one facility

Madeleine,

I still think it would be good to pull 2005 NATA data to see what the 2005 NATA risk results were for the 2 facilities.

Fenton still has a permit. So the facility could go back into production since the permit is not voided. The ECHO database says the facility is temporarily closed. If another company buys the facility, the permit could be conveyed to the new owner. For RTR, SPPD includes facilities that have permits because they can go back into production at any time. The Fenton permit is NESHAP for arsenic from glass manuf.

The Spectrum facility has a permit that includes NSPS for glass manufacturing.

Thanks

Anne

From: Strum, Madeleine
Sent: Wednesday, February 17, 2016 7:41 AM
To: Pope, Anne <Pope.Anne@epa.gov>; Benedict, Kristen <Benedict.Kristen@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Barnett, Keith <Barnett.Keith@epa.gov>; Fairchild, Susan <Fairchild.Susan@epa.gov>; Throwe, Scott <Throwe.Scott@epa.gov>; Weinstock, Lewis <Weinstock.Lewis@epa.gov>; Wayland, Richard <Wayland.Richard@epa.gov>; Sasser, Erika <Sasser.Erika@epa.gov>; Rimer, Kelly <Rimer.Kelly@epa.gov>; Froikin, Sara <Froikin.Sara@epa.gov>

Cc: Lamason, Bill <Lamason.Bill@epa.gov>
Subject: RE: art glass facilities and inventory for one facility

Anne,

Neither of these facilities are in the 2011 NATA. Fenton closed and Spectrum no longer emits HAPs.

I pulled Spectrum's inventory (from 2014 TRI) – they report Barium and Zinc. They haven't reported since 2002.

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Sent: Wednesday, February 17, 2016 7:20 AM
To: Benedict, Kristen <Benedict.Kristen@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Barnett, Keith <Barnett.Keith@epa.gov>; Fairchild, Susan <Fairchild.Susan@epa.gov>; Throwe, Scott <Throwe.Scott@epa.gov>; Strum, Madeleine <Strum.Madeleine@epa.gov>; Weinstock, Lewis <Weinstock.Lewis@epa.gov>; Wayland, Richard <Wayland.Richard@epa.gov>; Sasser, Erika <Sasser.Erika@epa.gov>; Rimer, Kelly <Rimer.Kelly@epa.gov>; Froikin, Sara <Froikin.Sara@epa.gov>
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•□□□□□□□□ SPECTRUM GLASS CO INC, WA, NEIWAT$13495, Manganese Compounds,

0.007 tpy

•□□□□□□□□ THE FENTON ART GLASS CO, WV, NEIWVT$2742, Lead Compounds, 0.479 tpy

The source of data is 2005 TRI.

Thanks

Anne

From: Benedict, Kristen
Sent: Tuesday, February 16, 2016 2:51 PM
To: McClintock, Katie <McClintock.Katie@epa.gov>; Barnett, Keith <Barnett.Keith@epa.gov>; Fairchild, Susan <Fairchild.Susan@epa.gov>; Throwe, Scott <Throwe.Scott@epa.gov>; Pope, Anne <Pope.Anne@epa.gov>; Strum, Madeleine <Strum.Madeleine@epa.gov>; Weinstock, Lewis <Weinstock.Lewis@epa.gov>; Wayland, Richard <Wayland.Richard@epa.gov>; Sasser, Erika <Sasser.Erika@epa.gov>; Rimer, Kelly <Rimer.Kelly@epa.gov>; Froikin, Sara <Froikin.Sara@epa.gov>
Cc: Benedict, Kristen <Benedict.Kristen@epa.gov>
Subject: FW: art glass facilities and inventory for one facility
Importance: High

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Concerning the two facilities in EIS, one closed and the state doesn't report the emissions for the other. One facility has 2014 TRI emissions which is included in "SPECTRUM" tab.

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Sent: Tuesday, February 16, 2016 2:01 PM
To: Benedict, Kristen
Subject: art glass facilities and inventory for one facility
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Madeleine Strum
U.S. Environmental Protection Agency
Office of Air Quality Planning and Standards/Air Quality Assessment Division/EIAG
919 541 2383 (voice)
919 541 0684 (fax

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Cc: Lamason, Bill[Lamason.Bill@epa.gov]
From: Strum, Madeleine
Sent: Wed 2/17/2016 12:41:27 PM
Subject: RE: art glass facilities and inventory for one facility

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Cc: Lamason, Bill[Lamason.Bill@epa.gov]
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Cc: Benedict, Kristen[Benedict.Kristen@epa.gov]
From: Benedict, Kristen
Sent: Tue 2/16/2016 7:50:47 PM
Subject: FW: art glass facilities and inventory for one facility
Copy of Art Glass Manufacturers in US 2015aap_mls.xlsx

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See the attachment from Madeleine. She included an EIS id field to build off the lists Susan and Anne sent around this morning. Madeleine specifically highlighted, in blue, the facilities mentioned by Region 10 in the call today.

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Fac Number	Company Name
1	Fenton Glass
2	Franklin glass
3	Pacific Glass
4	Blenko Gass
5	Steuben
6	Youghiogheny Glass
7	Ureboros Glass
8	Spectrum Glass
9	Spectrum Glass
10	Kokomo Glass
11	Missmach Glass
12	Armstrong Glass
13	Bullseye glass
14	System 96
15	Northstar Glassworks
16	CiM
	Tiffany
	Kitras Glass
	Murano Glass

top 7 melt glass from raw material. International or national dist

Street Address	City	State	Zip	Phone
700 Elizabeth St	Williamstown	WV	26187	304-375-6122
222 East Sycamore St	Columbus	OH	43206	614-221-2972
125 West 157th St	Gardena	CA	90248	310-780-4047
9 Bill Blenko Dr.	Milton	WV	25541	304-743-9081
One Museum Way	Corning	NY	14830	607-937-5371
300 S 1st Street	Connellsville	PA	15425	724-628-3000
2139 N. Kerby Ave. SE	Portland	OR	97227	503-284-4900
21415 87th Avenue SE	Woodinville	WA	98072	425-483-6699
955 W. Terra Lane	O'Fallon	MO	63366	636-614-0067
1310 S. Market St.	Kokomo	IN	46902	765-457-8136
420 Stephen St.	Paden City	WV	26159	304-337-2253
55 Chastain Road NW	Kennesaw	GA	30144	770-919-9924
3722 SE 21st Ave	Portland	OR	97202	503-232-8887
24105 Snohomish-Woodinvile Road	Woodinville	WA	98072	425-483-6699
8228 SE 26th Place	Portland	OR	97202	866-684-6986
	Seattle	WA		
CLOSED				
530 Dickson Dr	Fergus		N1M2W7	
Venice Italy				

EMISSIONS INFO AVAIL?	SOURCE(S)	Region	COUNTY_NAME	STATE_COUNTY_FIPS
		3	Wood County	54107
		5	Franklin County	39049
		9	Los Angeles County	06037
		3	Cabell County	54011
		2	Steuben County	36101
		3	Fayette County	42051
		10	Multnomah County	41051
		10	Snohomish	53033
		7	St. Charles County	29183
		5	Howard County	18067
		3	Wetzel County	54103
		4	Cobb County	13067
		10	Multnomah County	41051
		10	Snohomish	53033
		10	Multnomah County	41051
		10	King County	53033

FACILITY_REGISTRY_IDENTIFIER	AFS Facility ID	Reg categories	CEDRI ID	EIS ID
110000344832	5410700015	63N		6214311
				not in eis
				not in eis
110020047199				not in eis
110004566112				not in eis
110000487768				not in eis
				6296811
				not in eis
				not in eis
110007334214				not in eis
				not in eis
110000487107				not in eis
110020498978	5306114107	60CC		not in eis
				not in eis

TRI ID	EGGRT ID	FACILITY_CATEGORY
26187THFNT700EL		
97227RBRSG2139N probably share same TRI id as Systems facility in Snohomish county		
97202BLLSY37225		
98072SPCTR24305	1010836	

Facility Category Description	Facility Operating Status	Closed Year
Area	Temporarily closed	2012

Area	Operating

Parent Company	Parent Dun and Bradstreet
THE FENTON ART GLASS CO	004319935

PAUL WISSMACH GLASS CO INC

BULLSEYE GLASS CO 076396332

eis id	eis id	eis gas plant OPERATING STATUS	TRI_FACILITY_ID	FACILITY_NAME	STREET_ADDRESS	CITY	COUNTY	ST	ZIP	TRIBE
6296811	6296811	OP	98072SPCTR24305	SPECTRUM GLASS CO	24105 SNOHOMISH-WOODINVILLE RD	WOODINVILLE	SNOHOMISH	WA	980720646	

units are in LBS

LATITUDE	LONGITUDE	PRIMARY_NAICS	NAICS_2	NAICS_3	NAICS_4	NAICS_5	NAICS_6	is TRI facility in 2011 NATA inventory?	is TRI facility reported to NEI by 2014 SLT as a gas plant?	1,1,2,2-TETRACHLOROETHANE
47.7782	-122.14921	327211						no	no	

1,1,2,2-Tetrachloroethane2011EPA_HAP-Aug	1,2,4-TRIMETHYLBENZENE	1,3-Butadiene2011EPA_HAP-Aug	1,3-ButadieneSLT	1,4-DichlorobenzeneSLT	2,4-ToluenediisocyanateSLT	4,4'-MethylenedianilineSLT	4,4'-Methylenediphenyl DiisocyanateSLT	Acetaldehyde2011EPA_HAP-Aug	AcetaldehydeSLT	Acrolein2011EPA_HAP-Aug

AcroleinSLT	AMMONIA	ANTIMONY COMPOUNDS	Antimony 2011EPA_TRI	Antimony SLT	Arsenic2011EPA_HAP-Aug	ArsenicSLT	Arsenic EIS SLT 2014	BARIUM	BARIUM COMPOUNDS	Benzene2011EPA_HAP-Aug
									87.168	

BenzeneSLT	Benzo[g,h,i,]Perylene (PAH_880E5)SLT	Benzyl ChlorideSLT	Beryllium 2011EPA_HAP-Aug	BeryliumSLT	Bis(2-Ethylhexyl)PhthalateSLT	Cadmium 2011EPA_HAP-Aug	CadmiumSLT	cadmium EIS SLT 2014	Carbon TetrachlorideSLT	Carbonyl SulfideSLT

CERTAIN GLYCOL ETHERS	Glycol EthersSLT	CHLORINE	ChlorineSLT	ChlorobenzeneSLT	ChloroformSLT	CHROMIUM	CHROMIUM COMPOUNDS(EXCEPT CHROMITE ORE MINED IN THE TRANSVAAL RE	Chromic Acid (VI)SLT	Chromium (VI)2011EPA_HAP-Aug	Chromium (VI)SLT

COBALT	COBALT COMPOUNDS	Cobalt2011EPA_HAP-Aug	Cobalt2011EPA_TRI	CobaltSLT	COPPER	COPPER COMPOUNDS	CumeneSLT	CyanideSLT	DiethanolamineSLT	Diethyl SulfateSLT

DIISOCYANATES	ETHYLBENZENE	ETHYLENE	Ethyl BenzeneSLT	FORMALDEHYDE	Formaldehyde2011 EPA_HAP-Aug	Formaldehyde2011EPA_TRI	Formaldehyde SLT	HYDROCHLORIC ACID (1995 AND AFTER	Hydrochloric Acid2011 EPA_TRI	Hydrochloric AcidSLT

HYDROGEN FLUORIDE	Hydrogen Fluoride2011EPA_TRI	Hydrogen FluorideSLT	LEAD	LEAD COMPOUNDS	total lead	Lead2011EPA_HAP-Aug	Lead2011EPA_TRI	LeadSLT	MANGANESE COMPOUNDS	Manganese2011EPA_HAP-Aug
				0	0					

Manganese2011EPA_TRI	ManganeseSLT	MERCURY	MERCURY COMPOUNDS	Mercury 2011EPA_HAP-Aug	Mercury 2011EPA_TRI	Mercury SLT	METHANOL	Methanol 2011EPA_HAP-Aug	Methanol 2011EPA_TRI	Methanol SLT

METHYL ISOBUTYL KETONE	Naphthalene2011EPA_HAP-Aug	NaphthaleneSLT	N-BUTYL ALCOHOL	NICKEL	NICKEL COMPOUNDS	Nickel2011EPA_HAP-Aug	NickelSLT	NITRATE COMPOUNDS	NITRIC ACID	N-METHYL-2-PYRROLIDONE

SELENIUM	SELENIUM COMPOUNDS	Selenium 2011EPA_HAP-Aug	SeleniumSLT	SILVER	STYRENE	Styrene2011EPA_TRI	StyreneSLT	SULFURIC ACID (1994 AND AFTER	TOLUENE	Toluene2011EPA_HAP-Aug

ToluneneSLT	XYLENE (MIXED ISOMERS)	m-XyleneSLT	Xylenes (mixed Isomers)2011EPA_HAP-Aug	Xylenes (mixed Isomers)2011EPA_TRI	Xylenes (mixed Isomers)SLT	ZINC COMPOUNDS
						90.538

comments

per http://www3.epa.gov/ttn/atw/area/facilities.html, this facility is part of subpart SSSSSS and is expected to have to pu

Acrylic AcidSLT	AnilineSLT	Ethyl AcrylateSLT	Ethylene DibromideSLT	Ethylene Dichloride SLT	Ethylene OxideSLT	Fluorene (PAH_880E5)SLT	Hexane2011EPA_HAP-Aug	HexaneSLT	IsophoroneSLT	Methyl ChloroformSLT

ıt on ACPD

Methyl Isobutyl KetoneSLT	Methylene Chloride2011EPA_HAP-Aug	Methylene ChlorideSLT	PAH, total (PAH_880E5)SLT	p-DioxaneSLT	PhosphorusSLT	Propylene OxideSLT	Tetrachloroethylene2011EPA_HAP-Aug	TriethylamineSLT	Vinyl AcetateSLT	Vinyl ChlorideSLT

Grand Total eis gas plant OPERATING STATUS

OP - but we have no reported emissions from SLT in 2011 or 2014

To: Barnett, Keith[Barnett.Keith@epa.gov]; Benedict, Kristen[Benedict.Kristen@epa.gov]; Fairchild, Susan[Fairchild.Susan@epa.gov]; Throwe, Scott[Throwe.Scott@epa.gov]; Pope, Anne[Pope.Anne@epa.gov]; Strum, Madeleine[Strum.Madeleine@epa.gov]; Weinstock, Lewis[Weinstock.Lewis@epa.gov]; Wayland, Richard[Wayland.Richard@epa.gov]; Sasser, Erika[Sasser.Erika@epa.gov]; Rimer, Kelly[Rimer.Kelly@epa.gov]; Froikin, Sara[Froikin.Sara@epa.gov]
From: McClintock, Katie
Sent: Tue 2/16/2016 5:32:00 PM
Subject: Big Color Glass Manufacturers

The Big Players in the Color Glass Industry:

- Bullseye Glass Company – Portland, OR

- Uroboros Glass – Portland, OR

- Spectrum Glass Company – Woodinville, WA

  - System 96 – Woodinville, WA (collab btwn spectrum and uroboros)

- Kokomo Opalescent Glass – Kokomo, IN

- The Paul Wissmach Glass Company – Paden City, WV

- Youghiogheny Opalescent Glass company – Connellsville, PA

- Armstrong Glass – Kennesaw, GA

Other information:

- The concern here is ambient impacts at sustained high levels. As a result, the facility surroundings are important both in terms of residences but also schools where a larger population is spending many hours a day near the facilities.

  - Bullseye, Kokomo, Youghiogheny, Armstrong – All in neighborhoods with very close houses. Bullseye is very close to schools. Haven't investigated others.

  - Uroboros and Spectrum are a little farther from houses, but both are within a quarter mile of a school.

  - Wissmach seems to be about a half mile from anything.

Katie McClintock

Air Enforcement Officer

EPA Region 10

1200 Sixth Avenue, Suite 900, OCE-101

Seattle, WA 98101

Phone: 206-553-2143

Fax: 206-553-4743

Mcclintock.katie@epa.gov

To: Fairchild, Susan[Fairchild.Susan@epa.gov]; McClintock, Katie[McClintock.Katie@epa.gov]
Cc: Throwe, Scott[Throwe.Scott@epa.gov]; Barnett, Keith[Barnett.Keith@epa.gov]
From: Narvaez, Madonna
Sent: Thur 2/11/2016 9:34:00 PM
Subject: RE: Request for MSDS Copies

I have another call today, and then I will be off until Tuesday, too. You can reach me at my cell phone at Ex. 6 - Personal Privacy Katie should be on, because she could probably describe better how their furnaces operate. Do they have a separate furnace for each color, and that operates continuously until maintenance? Etc Thanks!

-----Original Message-----
From: Fairchild, Susan
Sent: Thursday, February 11, 2016 1:17 PM
To: Narvaez, Madonna <Narvaez.Madonna@epa.gov>
Cc: Throwe, Scott <Throwe.Scott@epa.gov>; Barnett, Keith <Barnett.Keith@epa.gov>
Subject: RE: Request for MSDS Copies
Importance: High

Madonna,

I think we need to involve Scott Throwe in OECA regarding an applicability determination. I'm having to leave for the van pool at this point, so feel free to get me on my personal phone : Ex. 6 - Personal Privacy if you need me tonight, tomorrow or this weekend

Scott,
This is an issue that is evolving in Oregon where high hits of cadmium and arsenic were found when conducting air monitoring around a school

Ex. 5 - Deliberative Process

If you'd like to discuss this further I can be reached at the number above until Tuesday

Susan Fairchild
Senior Environmental Scientist
(919) 541-5167

USPS Address:
OAQPS/SPPD/MMG
Mail Code D 243-04
Research Triangle Park, NC 27711

-----Original Message-----
From: Narvaez, Madonna
Sent: Thursday, February 11, 2016 1:07 PM
To: Fairchild, Susan <Fairchild.Susan@epa.gov>
Subject: RE: Request for MSDS Copies
Importance: High

Susan, Katie has probably already called you, but I have a question from the inspection download she sent. What is the meaning of "continuous" for 6S? Below is what they actually do.

Ex. 5 - Deliberative Process

-----Original Message-----
From: Fairchild, Susan
Sent: Thursday, February 11, 2016 5:17 AM
To: Narvaez, Madonna <Narvaez.Madonna@epa.gov>
Subject: RE: Request for MSDS Copies

Madonna,

IN GENERAL, the refractories that led to the highest emissions had more than 50% chromium content.

However, some furnaces having high chromium refractories had low chromium emissions, due to a number of factors including furnace design, glass 'recipe', raw mineral content of the melt, and refractory design by manufacturer.

I'm attaching an article that explains in depth how the refractory degradation process happens.

We regulated based on emissions, not on refractory, due to these issues which would have needed a research project or two to really begin to understand fully.

Susan Fairchild
Senior Environmental Scientist
(919) 541-5167

USPS Address:
OAQPS/SPPD/MMG
Mail Code D 243-04
Research Triangle Park, NC 27711

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

From: Narvaez, Madonna
Sent: Wednesday, February 10, 2016 3:55 PM
To: Fairchild, Susan <Fairchild.Susan@epa.gov>
Subject: FW: Request for MSDS Copies

Susan, do you know of any data or information about how much chromium in the refractory could lead to high chromium emissions? Thanks!

-----Original Message-----
From: Bray, Dave
Sent: Wednesday, February 10, 2016 12:16 PM
To: Wroble, Julie <Wroble.Julie@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Koprowski, Paul <Koprowski.Paul@epa.gov>; Hedgpeth, Zach <Hedgpeth.Zach@epa.gov>
Subject: RE: Request for MSDS Copies

The MSDS sheets don't say that there is no chromium, only that any chromium, if there, would be 1% or less of the total by weight.

When Katie says that high temperature glass furnaces use a refractory with chromium, she didn't say how much chromium was in these type of refractories.

Sounds like some more research is needed here.

Dave

From: Wroble, Julie
Sent: Wednesday, February 10, 2016 12:03 PM
To: Bray, Dave; Narvaez, Madonna; McClintock, Katie; Koprowski, Paul; Hedgpeth, Zach
Subject: RE: Request for MSDS Copies

But see below where Bullseye says they don't have chromium in their refractory. If it's not coming from that, is it coming from something else?

-----Original Message-----
From: Bray, Dave
Sent: Wednesday, February 10, 2016 11:55 AM
To: Wroble, Julie <Wroble.Julie@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Koprowski, Paul <Koprowski.Paul@epa.gov>; Hedgpeth, Zach <Hedgpeth.Zach@epa.gov>
Subject: RE: Request for MSDS Copies

The chromium comes from the refractory material used to line the furnaces. It's not a raw material used in the formulation of the art glass.

Lead is used in the manufacturing of the glass so lead chromate could be a compound that is emitted.

Dave

From: Wroble, Julie
Sent: Wednesday, February 10, 2016 11:41 AM
To: Narvaez, Madonna; McClintock, Katie; Koprowski, Paul; Bray, Dave; Hedgpeth, Zach
Subject: RE: Request for MSDS Copies

Then where is the chromium coming from?
Levels were pretty high. Are there other potential sources in the area?

From: Narvaez, Madonna
Sent: Wednesday, February 10, 2016 11:40 AM
To: McClintock, Katie <McClintock.Katie@epa.gov>; Wroble, Julie <Wroble.Julie@epa.gov>; Koprowski, Paul <Koprowski.Paul@epa.gov>; Bray, Dave <Bray.Dave@epa.gov>
Subject: FW: Request for MSDS Copies
Importance: High

So maybe we don't need to look at lead chromate?

From: GRUNOW Greg [mailto:GRUNOW.Greg@deq.state.or.us]
Sent: Wednesday, February 10, 2016 11:01 AM
To: Narvaez, Madonna <Narvaez.Madonna@epa.gov<mailto:Narvaez.Madonna@epa.gov>>
Subject: FW: Request for MSDS Copies

Hi Madonna,

Bullseye got back to me on their refractory materials and it appears they do not contain chromium.

Greg Grunow
Natural Resource Specialist
ODEQ Northwest Region
503-229-5690
grunow.greg@deq.state.or.us<mailto:grunow.greg@deq.state.or.us>

From: Eric Durrin [mailto:ericdurrin@bullseyeglass.com]
Sent: Tuesday, February 09, 2016 5:55 PM
To: GRUNOW Greg
Cc: Max Miller
Subject: RE: Request for MSDS Copies

Hello,

I checked with our maintenance department. We currently use two materials for our tank liners: Monofrax CS-3, and VC40-Chamotte. Chromium is not shown on the material specification documents for these building materials.

Regards,

Eric Durrin | Bullseye Glass Co. | 503-232-8887x103

To: Koerber, Mike[Koerber.Mike@epa.gov]; Hastings, Janis[Hastings.Janis@epa.gov]; Fairchild, Susan[Fairchild.Susan@epa.gov]; Barnett, Keith[Barnett.Keith@epa.gov]; McClintock, Katie[McClintock.Katie@epa.gov]
Cc: South, Peter[South.Peter@epa.gov]
From: Terry, Sara
Sent: Wed 2/24/2016 3:24:55 PM
Subject: RE: Portland Air Toxics
McCabe memo to RAs 02 24 16.docx

Hi all,

Here is my quick cut/paste etc. from existing materials. I'm not sure who else needs to review this, but I'm sure y'all can forward as needed. I'm not sure of the timing to get this reviewed and out the door. Mike, can you advise?

Thanks,

Sara

From: Koerber, Mike
Sent: Wednesday, February 24, 2016 8:45 AM
To: Terry, Sara <Terry.Sara@epa.gov>; Bremer, Kristen <Bremer.Kristen@epa.gov>; Davis, Alison <Davis.Alison@epa.gov>
Cc: Page, Steve <Page.Steve@epa.gov>; South, Peter <South.Peter@epa.gov>
Subject: Fwd: Portland Air Toxics

Sara - Can you take a stab at a draft? Let me know. Thanks.

Mike

Sent from my iPhone

Begin forwarded message:

From: "McCabe, Janet" <McCabe.Janet@epa.gov>
Date: February 23, 2016 at 7:28:10 PM MST
To: "McLerran, Dennis" <mclerran.dennis@epa.gov>, "Koerber, Mike" <Koerber.Mike@epa.gov>, "Hastings, Janis" <Hastings.Janis@epa.gov>, "Page, Steve" <Page.Steve@epa.gov>
Subject: RE: Portland Air Toxics

Hey there---

Dennis and I just talked. In addition to my hearing tomorrow, where I expect Senator Merkely to ask what we are doing to help Oregon with this, I also sat in on the call the Administrator had with Gov Brown this afternoon, and Mike K put some work into an outline of activities related to this. So lots going on. Here's what Dennis and I thought made sense going forward.

The Governor made it clear that she would like EPA to take some of the pressure off Oregon by identifying other similar facilities around the country and saying what we are doing with respect to this issue nationally. She also asked for specific help for OR, including technical assistance on how facilities can control these toxics, how to do stack testing, etc., and she also said she is looking for financial assistance to help with their AQ monitoring. The Administrator is definitely looking for us to do something to raise this issue up so it is not just an Oregon focused issue. So I suggest we do the following:

Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process

Let me know if you think this is workable. Mike, I know you are in Phoenix for the next two days, but hopefully there's someone at OAQPS who can work on this tomorrow (if Debbie can help, please let me know). Dennis said R10 could provide text on their situation to slot into the memo. We should strive to have a good draft of this by the end of the day tomorrow so we can finalize on Thursday.

Lastly, copied below is the outline Mike sent me earlier today:

Here is an draft overview of Headquarters' activities. Comments from others in OAQPS are welcome.

Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process

-----Original Message-----
From: McLerran, Dennis
Sent: Tuesday, February 23, 2016 9:02 PM
To: Hastings, Janis <Hastings.Janis@epa.gov>
Cc: McCabe, Janet <McCabe.Janet@epa.gov>; Koerber, Mike <Koerber.Mike@epa.gov>; Pirzadeh, Michelle <Pirzadeh.Michelle@epa.gov>; Holsman, Marianne <Holsman.Marianne@epa.gov>; Kowalski, Ed <Kowalski.Edward@epa.gov>
Subject: Portland Air Toxics

Jan:

Could you please send a paragraph summarizing all of the activities we are conducting to support Oregon on the Portland Air toxics issue? Janet McCabe is testifying before a Senate committee tomorrow and Mike Koerber is working on materials for an Air Directors call later in the week that this can be used for. Perhaps you can build off the summaries Katie McClintock has been providing. Please get this off to Janet and Mike as early as possible on Wednesday. Thanks!

Dennis

Sent from my EPA iPhone

From: Throwe, Scott
Location: DCRoomARS7140/DC-Ariel-Rios-OECA-OC; call in number: Ex. 6 - Personal Privacy Ex. 6 - Personal Privacy code: Ex. 6 - Personal Privacy
Importance: Normal
Subject: Enforcement Sensitive/Deliberative: Region 10 art glass facilities
Start Date/Time: Wed 3/9/2016 8:00:00 PM
End Date/Time: Wed 3/9/2016 9:00:00 PM

Changed the date to try to discuss these issues sooner so we can respond to ODEQ

To discuss Subpart 6S applicability

call in number: Ex. 6 - Personal Privacy code: Ex. 6 - Personal Privacy

To: McClintock, Katie[McClintock.Katie@epa.gov]
Cc: Pope, Anne[Pope.Anne@epa.gov]; Strum, Madeleine[Strum.Madeleine@epa.gov]; Benedict, Kristen[Benedict.Kristen@epa.gov]; Fairchild, Susan[Fairchild.Susan@epa.gov]
From: PALERMO Jaclyn
Sent: Fri 2/19/2016 10:12:28 PM
Subject: RE: identifying other sources in OR

Hello everyone. I was wondering what information you have on ceramic glazing and glass blowing concerning metals. If you have any research or reports, I would greatly appreciate it. Additionally, I would like to hear about the level of detail you are going to for your nationwide identification efforts. I greatly appreciate your assistance in identifying the appropriate facilities.

Thanks again,

Jaclyn

Jaclyn

From: McClintock, Katie [mailto:McClintock.Katie@epa.gov]
Sent: Wednesday, February 17, 2016 8:26 AM
To: PALERMO Jaclyn
Cc: Pope, Anne; Strum, Madeleine; Benedict, Kristen; Fairchild, Susan
Subject: identifying other sources in OR

Jacyln is trying to identify more sources in OR. They are under Governor direction to find anyone similar and I think her search is going to go beyond what we are doing nationally. Is there any assistance you guys (or others in your office) can provide. So far we have identified a handful of smaller guys that Jacyln has a list of. I'm going on out inspection (Spectrum) so please coordinate with her in my absence. Thanks.

Katie McClintock

Air Enforcement Officer

EPA Region 10

1200 Sixth Avenue, Suite 900, OCE-101

Seattle, WA 98101

Phone: 206-553-2143

Fax: 206-553-4743

Mcclintock.katie@epa.gov

To: PALERMO Jaclyn[PALERMO.Jaclyn@deq.state.or.us]
Cc: Pope, Anne[Pope.Anne@epa.gov]; Strum, Madeleine[Strum.Madeleine@epa.gov]; Benedict, Kristen[Benedict.Kristen@epa.gov]; Fairchild, Susan[Fairchild.Susan@epa.gov]
From: McClintock, Katie
Sent: Wed 2/17/2016 4:25:33 PM
Subject: identifying other sources in OR

Jacyln is trying to identify more sources in OR. They are under Governor direction to find anyone similar and I think her search is going to go beyond what we are doing nationally. Is there any assistance you guys (or others in your office) can provide. So far we have identified a handful of smaller guys that Jacyln has a list of. I'm going on out inspection (Spectrum) so please coordinate with her in my absence. Thanks.

Katie McClintock

Air Enforcement Officer

EPA Region 10

1200 Sixth Avenue, Suite 900, OCE-101

Seattle, WA 98101

Phone: 206-553-2143

Fax: 206-553-4743

Mcclintock.katie@epa.gov

From: Narvaez, Madonna
Location: R10Sea-ConfLineMM- Ex. 6 - Personal Privacy ; conference code Ex. 6 - Personal Privacy R10Sea-Room-15C-AWT/R10-Rooms-Restricted
Importance: Normal
Subject: Discuss applicability of 40 CFR 63 Subpart 6S to Bullseye Glass, Portland Oregon
Start Date/Time: Thur 2/18/2016 5:00:00 PM
End Date/Time: Thur 2/18/2016 6:00:00 PM

We would like to discuss "continuous" as defined by Subpart 6S, compared to actual operations at the facility. Scott,
This is an issue that is evolving in Oregon where high hits of cadmium and arsenic were found when conducting air monitoring around a school.

Ex. 5 - Deliberative Process

Thanks!

From: McClintock, Katie
Location: R10Sea-Room-12Maple/R10-Rooms-Service-Center
Importance: Normal
Subject: hold for bullseye conversation if necessary
Start Date/Time: Mon 2/8/2016 10:00:00 PM
End Date/Time: Mon 2/8/2016 11:00:00 PM

Ex. 6 - Personal Privacy code: Ex. 6 - Personal Privacy

I'll be in Portland but everyone looks free and it seems worth getting something on the calendar to continue the discussion.

From: Narvaez, Madonna
Location: R10Sea-Room-15Birch/R10-Rooms-Service-Center
Importance: Normal
Subject: Heads up on PDX metals issue: Bullseye Glass; Ex. 6 - Personal Privacy code: Ex. 6 - Personal Privacy
Start Date/Time: Fri 2/5/2016 9:00:00 PM
End Date/Time: Fri 2/5/2016 10:00:00 PM

To: McClintock, Katie[McClintock.Katie@epa.gov]
Cc: Hastings, Janis[Hastings.Janis@epa.gov]; Bray, Dave[Bray.Dave@epa.gov]
From: Koerber, Mike
Sent: Sat 3/5/2016 6:45:38 PM
Subject: Re: Portland glass facilities

Thanks, Katie. Yes, anything you have to share on #1 and 3 would be great. I am expecting an update from my folks early next week. So, it would be good to combine our information with what you have learned.

Mike

Sent from my iPhone

On Mar 5, 2016, at 1:21 AM, McClintock, Katie <McClintock.Katie@epa.gov> wrote:

Mike,

Thanks for sending this my way. Do you need any updates from me on items one and three in the bottom email? I will put a Puget Sound update in my daily update today, but can try to sum up the work on #1. I have been working hard when I can on that one.

From: Koerber, Mike
Sent: Friday, March 04, 2016 10:12 AM
To: Hastings, Janis <Hastings.Janis@epa.gov>; Bray, Dave <Bray.Dave@epa.gov>
Cc: McClintock, Katie <McClintock.Katie@epa.gov>
Subject: FW: Portland glass facilities

As a followup to today's call, here is the summary of the call with USFS.

Mike

From: Shelow, David
Sent: Friday, March 04, 2016 12:29 PM
To: Wayland, Richard <Wayland.Richard@epa.gov>; Fox, Tyler <Fox.Tyler@epa.gov>;

Benedict, Kristen <Benedict.Kristen@epa.gov>; Weinstock, Lewis <Weinstock.Lewis@epa.gov>; Koerber, Mike <Koerber.Mike@epa.gov>
Cc: Watkins, Tim <Watkins.Tim@epa.gov>; Johnson, Steffan <johnson.steffan@epa.gov>; Hemby, James <Hemby.James@epa.gov>; Landis, Matthew <Landis.Matthew@epa.gov>
Subject: RE: Portland glass facilities

Here are the notes from our call with the researcher Geoff Donovan.

Dave and Matt.

David M. Shelow
National Air Toxics Ambient Monitoring Program Manager
U.S. Environmental Protection Agency
Office of Air Quality Planning and Standards
Ambient Air Monitoring Group C304-06
Research Triangle Park, NC 27711
Phone: 919-541-3776
Fax:: 919-541-1903
Email: shelow.david@epa.gov

From: Wayland, Richard
Sent: Wednesday, March 02, 2016 3:14 PM
To: Fox, Tyler <Fox.Tyler@epa.gov>; Benedict, Kristen <Benedict.Kristen@epa.gov>; Weinstock, Lewis <Weinstock.Lewis@epa.gov>
Cc: Watkins, Tim <Watkins.Tim@epa.gov>; Shelow, David <Shelow.David@epa.gov>; Johnson, Steffan <johnson.steffan@epa.gov>; Hemby, James <Hemby.James@epa.gov>
Subject: FW: Portland glass facilities

Hi folks,

In the attached memo, Janet outlines several actions being undertaken by EPA in response to the Portland Bullseye Glass air toxics issue. Specifically, there are 3 things that we (AQAD) are responsible for tracking.

1. Improving our characterization of emissions from art glass manufacturing facilities

2. Asses the viability of the original USFS study (Moss monitoring) as a screening methodology for air toxics

3. Review screening modeling by Puget Sound

Mike Koerber has asked for a short paragraph on each of these 3 activities by early next week. On the Moss monitoring, I have not heard from the USFS scientist and an cc:ing Tim Watkins to see if the fellow has contacted him yet. On the other two, can you guys help me pull a paragraph together to get back to Mike? Maybe try for a draft by Friday and we can finalize it next week.

Thanks

Chet

Richard A. "Chet" Wayland | Director | Air Quality Assessment Division - Mail Code C304-02 | Office of Air Quality Planning & Standards | U.S. Environmental Protection Agency | Research Triangle Park, NC 27711 | Desk: 919-541-4603 | Cell: 919-606-0548 | Fax: 919-541-4511 |

To: Koerber, Mike[Koerber.Mike@epa.gov]; Hastings, Janis[Hastings.Janis@epa.gov]; Bray, Dave[Bray.Dave@epa.gov]
From: McClintock, Katie
Sent: Sat 3/5/2016 6:21:09 AM
Subject: RE: Portland glass facilities

Mike,

Thanks for sending this my way. Do you need any updates from me on items one and three in the bottom email? I will put a Puget Sound update in my daily update today, but can try to sum up the work on #1. I have been working hard when I can on that one.

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Sent: Friday, March 04, 2016 10:12 AM
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Cc: McClintock, Katie <McClintock.Katie@epa.gov>
Subject: FW: Portland glass facilities

As a followup to today's call, here is the summary of the call with USFS.

Mike

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Sent: Friday, March 04, 2016 12:29 PM
To: Wayland, Richard <Wayland.Richard@epa.gov>; Fox, Tyler <Fox.Tyler@epa.gov>; Benedict, Kristen <Benedict.Kristen@epa.gov>; Weinstock, Lewis <Weinstock.Lewis@epa.gov>; Koerber, Mike <Koerber.Mike@epa.gov>
Cc: Watkins, Tim <Watkins.Tim@epa.gov>; Johnson, Steffan <johnson.steffan@epa.gov>; Hemby, James <Hemby.James@epa.gov>; Landis, Matthew <Landis.Matthew@epa.gov>
Subject: RE: Portland glass facilities

Here are the notes from our call with the researcher Geoff Donovan.

Dave and Matt.

David M. Shelow
National Air Toxics Ambient Monitoring Program Manager
U.S. Environmental Protection Agency
Office of Air Quality Planning and Standards
Ambient Air Monitoring Group C304-06
Research Triangle Park, NC 27711
Phone: 919-541-3776
Fax:: 919-541-1903
Email: shelow.david@epa.gov

From: Wayland, Richard
Sent: Wednesday, March 02, 2016 3:14 PM
To: Fox, Tyler <Fox.Tyler@epa.gov>; Benedict, Kristen <Benedict.Kristen@epa.gov>; Weinstock, Lewis <Weinstock.Lewis@epa.gov>
Cc: Watkins, Tim <Watkins.Tim@epa.gov>; Shelow, David <Shelow.David@epa.gov>; Johnson, Steffan <johnson.steffan@epa.gov>; Hemby, James <Hemby.James@epa.gov>
Subject: FW: Portland glass facilities

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In the attached memo, Janet outlines several actions being undertaken by EPA in response to the Portland Bullseye Glass air toxics issue. Specifically, there are 3 things that we (AQAD) are responsible for tracking.

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Mike Koerber has asked for a short paragraph on each of these 3 activities by early next week.

On the Moss monitoring, I have not heard from the USFS scientist and an cc:ing Tim Watkins to see if the fellow has contacted him yet. On the other two, can you guys help me pull a paragraph together to get back to Mike? Maybe try for a draft by Friday and we can finalize it next week.

Thanks

Chet

Richard A. "Chet" Wayland | Director | Air Quality Assessment Division - Mail Code C304-02 | Office of Air Quality Planning & Standards | U.S. Environmental Protection Agency | Research Triangle Park, NC 27711 | Desk: 919-541-4603 | Cell: 919-606-0548 | Fax: 919-541-4511 |

To: Bray, Dave[Bray.Dave@epa.gov]
From: McClintock, Katie
Sent: Thur 3/3/2016 10:47:41 PM
Subject: RE: Contacts for Air Toxics - Portland moss study

Okay, I read further and see that it didn't happen. I think we could set up a meeting, but based on my conversation with the associate director for research for the PNW research station today it looks like their focus this next month is on finishing that report before they take on new projects (which I agree is a great plan). I am not sure yet what issues we would work with Dale on yet.

Katie

From: Bray, Dave
Sent: Thursday, March 03, 2016 1:18 PM
To: McClintock, Katie <McClintock.Katie@epa.gov>
Subject: FW: Contacts for Air Toxics - Portland moss study

Hi Katie,

Here's the person who was meeting with the Water folks today. Not Geoffrey Donovan but Dale Blahna.

Dave

From: Schary, Claire
Sent: Thursday, March 03, 2016 1:10 PM
To: Bray, Dave <Bray.Dave@epa.gov>; Blahna, Dale -FS <dblahna@fs.fed.us>
Subject: Contacts for Air Toxics - Portland moss study

Dave – The USFS person I was offering to introduce to you, Dale Blahna, had to leave before you were going to be off your conference call today at 1 pm. However, I said I would do an e-mail introduction so you had each other's email addresses, and perhaps when he's downtown

again (he works in the USFS PNW Research Station in Fremont), he could come in for a friendly discussion and Q&A session for both of you. Dale wants to make sure you know he's a sociologist (his job title is "Research Social Scientist") and that while he wouldn't be able to answer some of the technical questions you told me you had (e.g., the different absorption rates for moss for different pollutants) there is a report coming out in a month or so that will have a lot of that information. His email address is dblahna@fs.fed.us and his phone number is 206-732-7833.

Dale – Dave Bray is our Senior Air Policy Advisor & Scientist in our region's Office of Air, Waste & Toxics, and could answer your questions about EPA's interest in this type of research and also put you in touch with whomever you need to talk to about coordinating future research along these lines. His email is bray.dave@epa.gov and his phone number is 206-553-4253.

I'm happy to help set up an in-person meeting, if that would be helpful, since Dale and I have been working together these past few years on a local Urban Waters project involving market incentives for farmers and private forest landowners to improve water quality in the Middle Green River watershed.

-- Claire

Claire Schary

Water Quality Trading Coordinator

Watershed Unit / Office of Water & Watersheds

schary.claire@epa.gov / (206) 553-8514

USEPA Region 10

1200 Sixth Ave, Suite 900 (OWW-192)

Seattle, WA 98101

To: Bray, Dave[Bray.Dave@epa.gov]
From: McClintock, Katie
Sent: Thur 3/3/2016 9:04:57 PM
Subject: RE: Color Glass Daily Update 3-2-16

Geoffrey Donovan? No, I am not there today, sorry. I just chatted with Borys Tkacz, who may be his boss. It was a conversation heavily revolving around communications and their need to focus on finishing their study. Hope you can say hi to him for me. I am on my team call (which I kind of lead), but if he'd like to talk to me, call me at 206-553-2143.

Katie

From: Bray, Dave
Sent: Thursday, March 03, 2016 1:01 PM
To: McClintock, Katie <McClintock.Katie@epa.gov>
Subject: FW: Color Glass Daily Update 3-2-16

Hi Katie,

The Forest Service scientist who was responsible for the Portland moss study is here in the office today meeting with the Water folks. Claire Schary is going to bring him by my cubicle shortly (if he has time). Are you here in the office and available to meet with him if he drops by?

Dave

From: Koprowski, Paul
Sent: Thursday, March 03, 2016 12:42 PM
To: McClintock, Katie <McClintock.Katie@epa.gov>; Averback, Jonathan <Averback.Jonathan@epa.gov>; Barber, Anthony <Barber.Anthony@epa.gov>; Barnett, Keith <Barnett.Keith@epa.gov>; Bray, Dave <Bray.Dave@epa.gov>; Bremer, Kristen <Bremer.Kristen@epa.gov>; Cunningham, Roylene <Cunningham.Roylene@epa.gov>; Dalrymple, Anne <Dalrymple.Anne@epa.gov>; Davis, Alison <Davis.Alison@epa.gov>; Davis, Matthew <Davis.Matthew@epa.gov>; Doster, Brian <Doster.Brian@epa.gov>; Downey, Scott <Downey.Scott@epa.gov>; Fairchild, Susan <Fairchild.Susan@epa.gov>; Field, Chris

<Field.Chris@epa.gov>; Fleming, Sheila <fleming.sheila@epa.gov>; Franklin, Richard <Franklin.Richard@epa.gov>; Fried, Gregory <Fried.Gregory@epa.gov>; Froikin, Sara <Froikin.Sara@epa.gov>; Hall, Chris <Hall.Christopher@epa.gov>; Hastings, Janis <Hastings.Janis@epa.gov>; Hedgpeth, Zach <Hedgpeth.Zach@epa.gov>; Holsman, Marianne <Holsman.Marianne@epa.gov>; Ingemansen, Dean <Ingemansen.Dean@epa.gov>; Johnson, Steffan <johnson.steffan@epa.gov>; Kaetzel, Rhonda <Kaetzel.Rhonda@epa.gov>; Keenan, John <keenan.john@epa.gov>; Koerber, Mike <Koerber.Mike@epa.gov>; Kowalski, Ed <Kowalski.Edward@epa.gov>; Leefers, Kristin <Leefers.Kristin@epa.gov>; Lynch, Kira <lynch.kira@epa.gov>; Martenson, Eric <Martenson.Eric@epa.gov>; Matthews, Julie <Matthews.Juliane@epa.gov>; McLerran, Dennis <mclerran.dennis@epa.gov>; Mitchell, Ken <Mitchell.Ken@epa.gov>; Moon, Wally <Moon.Wally@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; Owens, Katharine <Owens.Katharine@epa.gov>; Page, Lee <Page.Lee@epa.gov>; Palma, Ted <Palma.Ted@epa.gov>; Pirzadeh, Michelle <Pirzadeh.Michelle@epa.gov>; Rimer, Kelly <Rimer.Kelly@epa.gov>; Rodman, Sonja <Rodman.Sonja@epa.gov>; Smith, Judy <Smith.Judy@epa.gov>; Stern, Allyn <Stern.Allyn@epa.gov>; Stewart, Michael <Stewart.Michael@epa.gov>; Stifelman, Marc <Stifelman.Marc@epa.gov>; Taylor, Kevin <Taylor.Kevin@epa.gov>; Terada, Calvin <Terada.Calvin@epa.gov>; Terry, Sara <Terry.Sara@epa.gov>; Thrift, Mike <thrift.mike@epa.gov>; Throwe, Scott <Throwe.Scott@epa.gov>; Tonel, Monica <Tonel.Monica@epa.gov>; Wendel, Arthur <Wendel.Arthur@epa.gov>; Williamson, Ann <Williamson.Ann@epa.gov>; Wroble, Julie <Wroble.Julie@epa.gov>; Yellin, Patrick <Yellin.Patrick@epa.gov>
Subject: RE: Color Glass Daily Update 3-2-16

Katie,

Just to confirm – there is no SAP for Uroboros yet but Chris Moore at DEQ is developing one and will share it with us as soon as it's complete. He has committed to sharing others as they are developed.

Paul

Paul Koprowski

U.S. EPA; Oregon Operations Office

805 SW Broadway, Suite 500

Portland, Oregon 97205

(503) 326-6363

From: McClintock, Katie
Sent: Wednesday, March 02, 2016 10:47 PM
To: Averback, Jonathan <Averback.Jonathan@epa.gov>; Barber, Anthony <Barber.Anthony@epa.gov>; Barnett, Keith <Barnett.Keith@epa.gov>; Bray, Dave <Bray.Dave@epa.gov>; Bremer, Kristen <Bremer.Kristen@epa.gov>; Cunningham, Roylene <Cunningham.Roylene@epa.gov>; Dalrymple, Anne <Dalrymple.Anne@epa.gov>; Davis, Alison <Davis.Alison@epa.gov>; Davis, Matthew <Davis.Matthew@epa.gov>; Doster, Brian <Doster.Brian@epa.gov>; Downey, Scott <Downey.Scott@epa.gov>; Fairchild, Susan <Fairchild.Susan@epa.gov>; Field, Chris <Field.Chris@epa.gov>; Fleming, Sheila <fleming.sheila@epa.gov>; Franklin, Richard <Franklin.Richard@epa.gov>; Fried, Gregory <Fried.Gregory@epa.gov>; Froikin, Sara <Froikin.Sara@epa.gov>; Hall, Chris <Hall.Christopher@epa.gov>; Hastings, Janis <Hastings.Janis@epa.gov>; Hedgpeth, Zach <Hedgpeth.Zach@epa.gov>; Holsman, Marianne <Holsman.Marianne@epa.gov>; Ingemansen, Dean <Ingemansen.Dean@epa.gov>; Johnson, Steffan <johnson.steffan@epa.gov>; Kaetzel, Rhonda <Kaetzel.Rhonda@epa.gov>; Keenan, John <keenan.john@epa.gov>; Koerber, Mike <Koerber.Mike@epa.gov>; Koprowski, Paul <Koprowski.Paul@epa.gov>; Kowalski, Ed <Kowalski.Edward@epa.gov>; Leefers, Kristin <Leefers.Kristin@epa.gov>; Lynch, Kira <lynch.kira@epa.gov>; Martenson, Eric <Martenson.Eric@epa.gov>; Matthews, Julie <Matthews.Juliane@epa.gov>; McLerran, Dennis <mclerran.dennis@epa.gov>; Mitchell, Ken <Mitchell.Ken@epa.gov>; Moon, Wally <Moon.Wally@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; Owens, Katharine <Owens.Katharine@epa.gov>; Page, Lee <Page.Lee@epa.gov>; Palma, Ted <Palma.Ted@epa.gov>; Pirzadeh, Michelle <Pirzadeh.Michelle@epa.gov>; Rimer, Kelly <Rimer.Kelly@epa.gov>; Rodman, Sonja <Rodman.Sonja@epa.gov>; Smith, Judy <Smith.Judy@epa.gov>; Stern, Allyn <Stern.Allyn@epa.gov>; Stewart, Michael <Stewart.Michael@epa.gov>; Stifelman, Marc <Stifelman.Marc@epa.gov>; Taylor, Kevin <Taylor.Kevin@epa.gov>; Terada, Calvin <Terada.Calvin@epa.gov>; Terry, Sara <Terry.Sara@epa.gov>; Thrift, Mike <thrift.mike@epa.gov>; Throwe, Scott <Throwe.Scott@epa.gov>; Tonel, Monica <Tonel.Monica@epa.gov>; Wendel, Arthur <Wendel.Arthur@epa.gov>; Williamson, Ann <Williamson.Ann@epa.gov>; Wroble, Julie <Wroble.Julie@epa.gov>; Yellin, Patrick <Yellin.Patrick@epa.gov>
Subject: Color Glass Daily Update 3-2-16

Here is today's daily update

(b) (6)

Katie McClintock

Air Enforcement Officer

EPA Region 10

1200 Sixth Avenue, Suite 900, OCE-101

Seattle, WA 98101

Phone: 206-553-2143

Fax: 206-553-4743

Mcclintock.katie@epa.gov

To: Holsman, Marianne[Holsman.Marianne@epa.gov]; Bray, Dave[Bray.Dave@epa.gov]
From: McClintock, Katie
Sent: Tue 3/1/2016 11:12:53 PM
Subject: FW: MEDIA INQUIRY: Oregonian re Bullseye Glass -- Deadline Today!

From: Keenan, John
Sent: Tuesday, March 01, 2016 3:12 PM
To: McClintock, Katie <McClintock.Katie@epa.gov>
Subject: RE: MEDIA INQUIRY: Oregonian re Bullseye Glass -- Deadline Today!

Not sure I've got the context of "this requirement" – but if you mean "Title V" then you could add;

For facilities that hold Title V permits, EPA requires that the State conduct a full compliance evaluation every 2 years and evaluate the facility's compliance with the applicable requirements of the permit. States often conduct additional compliance monitoring for Title V permitted sources. Companies in Oregon that have Title V permits are also required to certify semi-annually whether their compliance was continuous or intermittent.

John E. Keenan

U.S. EPA

Region 10 (OCE-101)

1200 Sixth Avenue - Ste 900

Seattle, WA 98101

206-553-1817

206-553-1762 (fax)

From: McClintock, Katie
Sent: Tuesday, March 01, 2016 2:24 PM

To: Keenan, John <keenan.john@epa.gov>
Subject: FW: MEDIA INQUIRY: Oregonian re Bullseye Glass -- Deadline Today!

Do you have a sentence handy on this requirement or should we stay silent?

From: Bray, Dave
Sent: Tuesday, March 01, 2016 1:29 PM
To: McClintock, Katie <McClintock.Katie@epa.gov>; Holsman, Marianne <Holsman.Marianne@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; Skadowski, Suzanne <Skadowski.Suzanne@epa.gov>; Smith, Judy <Smith.Judy@epa.gov>; Philip, Jeff <Philip.Jeff@epa.gov>
Cc: Koprowski, Paul <Koprowski.Paul@epa.gov>; Hastings, Janis <Hastings.Janis@epa.gov>
Subject: RE: MEDIA INQUIRY: Oregonian re Bullseye Glass -- Deadline Today!

Hi Katie,

Those are great edits.

Ex. 5 - Deliberative Process

Dave

From: McClintock, Katie
Sent: Tuesday, March 01, 2016 1:23 PM
To: Bray, Dave <Bray.Dave@epa.gov>; Holsman, Marianne <Holsman.Marianne@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; Skadowski, Suzanne <Skadowski.Suzanne@epa.gov>; Smith, Judy <Smith.Judy@epa.gov>; Philip, Jeff <Philip.Jeff@epa.gov>

Cc: Koprowski, Paul <Koprowski.Paul@epa.gov>; Hastings, Janis <Hastings.Janis@epa.gov>
Subject: RE: MEDIA INQUIRY: Oregonian re Bullseye Glass -- Deadline Today!

Ex. 5 - Deliberative Process

From: Bray, Dave
Sent: Tuesday, March 01, 2016 1:17 PM
To: Holsman, Marianne <Holsman.Marianne@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; Skadowski, Suzanne <Skadowski.Suzanne@epa.gov>; Smith, Judy <Smith.Judy@epa.gov>; Philip, Jeff <Philip.Jeff@epa.gov>
Cc: Koprowski, Paul <Koprowski.Paul@epa.gov>; Hastings, Janis <Hastings.Janis@epa.gov>
Subject: RE: MEDIA INQUIRY: Oregonian re Bullseye Glass -- Deadline Today!

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Ex. 5 - Deliberative Process

From: Holsman, Marianne
Sent: Tuesday, March 01, 2016 11:46 AM

To: McClintock, Katie <McClintock.Katie@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; Skadowski, Suzanne <Skadowski.Suzanne@epa.gov>; Smith, Judy <Smith.Judy@epa.gov>; Philip, Jeff <Philip.Jeff@epa.gov>
Cc: Koprowski, Paul <Koprowski.Paul@epa.gov>; Hastings, Janis <Hastings.Janis@epa.gov>; Bray, Dave <Bray.Dave@epa.gov>
Subject: RE: MEDIA INQUIRY: Oregonian re Bullseye Glass -- Deadline Today!

Thanks very much, Katie.

Dave, could you craft a couple of plain language paragraphs that we can circulate?

Marianne

Follow us!

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Sent: Tuesday, March 01, 2016 11:42 AM
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Subject: RE: MEDIA INQUIRY: Oregonian re Bullseye Glass -- Deadline Today!

I'm paring down the list a bit.

Yes if they are subject to 6S they will need a title v permit

Ex. 5 - Deliberative Process

Katie

From: Narvaez, Madonna
Sent: Tuesday, March 01, 2016 11:34 AM
To: Skadowski, Suzanne <Skadowski.Suzanne@epa.gov>; Holsman, Marianne <Holsman.Marianne@epa.gov>; Smith, Judy <Smith.Judy@epa.gov>; Philip, Jeff <Philip.Jeff@epa.gov>
Cc: Koprowski, Paul <Koprowski.Paul@epa.gov>; Downey, Scott <Downey.Scott@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Franklin, Richard <Franklin.Richard@epa.gov>; Wroble, Julie <Wroble.Julie@epa.gov>; Holsman, Marianne <Holsman.Marianne@epa.gov>; Hastings, Janis <Hastings.Janis@epa.gov>; Bray, Dave <Bray.Dave@epa.gov>; Moon, Wally <Moon.Wally@epa.gov>; Koerber, Mike <Koerber.Mike@epa.gov>; Davis, Alison <Davis.Alison@epa.gov>; Barber, Anthony <Barber.Anthony@epa.gov>; Terry, Sara <Terry.Sara@epa.gov>; Davis, Matthew <Davis.Matthew@epa.gov>; Dossett, Donald <Dossett.Donald@epa.gov>
Subject: RE: MEDIA INQUIRY: Oregonian re Bullseye Glass -- Deadline Today!
Importance: High

I'm replying to all because I don't know who will be answering this. I was asking because I was just getting familiar with the Area Source Glass Rule, 40 CFR Part 63 Subpart SSSSSS. I

Ex. 5 - Deliberative Process

From: Skadowski, Suzanne
Sent: Tuesday, March 01, 2016 11:22 AM
To: Holsman, Marianne <Holsman.Marianne@epa.gov>; Smith, Judy <Smith.Judy@epa.gov>; Philip, Jeff <Philip.Jeff@epa.gov>
Cc: Koprowski, Paul <Koprowski.Paul@epa.gov>; Downey, Scott <Downey.Scott@epa.gov>;

Narvaez, Madonna <Narvaez.Madonna@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Franklin, Richard <Franklin.Richard@epa.gov>; Wroble, Julie <Wroble.Julie@epa.gov>; Holsman, Marianne <Holsman.Marianne@epa.gov>; Hastings, Janis <Hastings.Janis@epa.gov>; Bray, Dave <Bray.Dave@epa.gov>; Moon, Wally <Moon.Wally@epa.gov>; Koerber, Mike <Koerber.Mike@epa.gov>; Davis, Alison <Davis.Alison@epa.gov>; Barber, Anthony <Barber.Anthony@epa.gov>; Terry, Sara <Terry.Sara@epa.gov>; Davis, Matthew <Davis.Matthew@epa.gov>
Subject: MEDIA INQUIRY: Oregonian re Bullseye Glass -- Deadline Today!
Importance: High

Judy's tied up till later this afternoon. Let me know if you need me to respond.

From: Rob Davis [mailto:RDavis@oregonian.com]
Sent: Tuesday, March 01, 2016 11:18 AM
To: Smith, Judy <Smith.Judy@epa.gov>; Skadowski, Suzanne <Skadowski.Suzanne@epa.gov>
Subject: FW: Bullseye Glass
Importance: High

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I'm writing on deadline today about this. Does EPA believe that Bullseye Glass should've been operating under a Title V permit? The company reports producing far more than 50 tons of glass per year. (Please see attached screenshot of DEQ's ACDP showing the company "melts" 2000+ tons of glass a year.)

One potential hiccup here, raised in subsequent emails in the chain, is that the company says it does not operate a continuous furnace.

If the company was operating under a Title V permit, can you tell me what additional level of scrutiny or regulation would've been given to its air emissions?

I'm making the same inquiry of DEQ as well but would like to hear from EPA given that you all raised the issue in the email correspondence below, which I obtained through a public records request.

Thanks in advance for a swift response. I'm at my desk if it's easier, 503.294.7657.

Cheers,

Rob

ROB DAVIS

Reporter

The Oregonian

503.294.7657

@robwdavis

From: "Narvaez, Madonna" <Narvaez.Madonna@epa.gov>
Date: Thursday, February 4, 2016 at 9:48 AM
To: "monro.david@deq.state.or.us" <monro.david@deq.state.or.us>
Cc: "armitage.sarah@deq.state.or.us" <armitage.sarah@deq.state.or.us>
Subject: Bullseye Glass

Good morning, Dave. Can you tell me who the permit writer/inspector is for Bullseye Glass? I am trying to find out how many tons per year of glass they produce. If it is at least 50, they should have a Title V permit, and I can only find an ACDP for them, thanks!

==========

Madonna Narvaez

Regional Air Toxics Coordinator

USEPA, Region 10

1200 Sixth Avenue, Ste 900

MC: AWT-150

phone: 206-553-2117

fax: 206-553-0110

narvaez.madonna@epa.gov

Follow @EPAnorthwest on Twitter!https://twitter.com/EPAnorthwest

To: Bray, Dave[Bray.Dave@epa.gov]; Holsman, Marianne[Holsman.Marianne@epa.gov]; Narvaez, Madonna[Narvaez.Madonna@epa.gov]; Skadowski, Suzanne[Skadowski.Suzanne@epa.gov]; Smith, Judy[Smith.Judy@epa.gov]; Philip, Jeff[Philip.Jeff@epa.gov]
Cc: Koprowski, Paul[Koprowski.Paul@epa.gov]; Hastings, Janis[Hastings.Janis@epa.gov]
From: McClintock, Katie
Sent: Tue 3/1/2016 9:23:04 PM
Subject: RE: MEDIA INQUIRY: Oregonian re Bullseye Glass -- Deadline Today!

Ex. 5 - Deliberative Process

From: Bray, Dave
Sent: Tuesday, March 01, 2016 1:17 PM
To: Holsman, Marianne <Holsman.Marianne@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; Skadowski, Suzanne <Skadowski.Suzanne@epa.gov>; Smith, Judy <Smith.Judy@epa.gov>; Philip, Jeff <Philip.Jeff@epa.gov>
Cc: Koprowski, Paul <Koprowski.Paul@epa.gov>; Hastings, Janis <Hastings.Janis@epa.gov>
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To: McClintock, Katie <McClintock.Katie@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; Skadowski, Suzanne <Skadowski.Suzanne@epa.gov>; Smith, Judy <Smith.Judy@epa.gov>; Philip, Jeff <Philip.Jeff@epa.gov>
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Follow us!

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Katie

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To: Smith, Judy <Smith.Judy@epa.gov>; Skadowski, Suzanne <Skadowski.Suzanne@epa.gov>
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Rob

ROB DAVIS

Reporter

The Oregonian

503.294.7657

@robwdavis

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Date: Thursday, February 4, 2016 at 9:48 AM
To: "monro.david@deq.state.or.us" <monro.david@deq.state.or.us>
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Madonna Narvaez

Regional Air Toxics Coordinator

USEPA, Region 10

1200 Sixth Avenue, Ste 900

MC: AWT-150

phone: 206-553-2117

fax: 206-553-0110

narvaez.madonna@epa.gov

Follow @EPAnorthwest on Twitter!https://twitter.com/EPAnorthwest

To: Narvaez, Madonna[Narvaez.Madonna@epa.gov]; Holsman, Marianne[Holsman.Marianne@epa.gov]
Cc: Bray, Dave[Bray.Dave@epa.gov]
From: McClintock, Katie
Sent: Tue 3/1/2016 7:56:13 PM
Subject: RE: MEDIA INQUIRY: Oregonian re Bullseye Glass -- Deadline Today!

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Sent: Tuesday, March 01, 2016 11:48 AM
To: Holsman, Marianne <Holsman.Marianne@epa.gov>
Cc: Bray, Dave <Bray.Dave@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>
Subject: RE: MEDIA INQUIRY: Oregonian re Bullseye Glass -- Deadline Today!

This is an area source rule, so you don't have to be a major source for HAPs. You have to meet the production requirement, and be using any of the metals that are subject to the rule.

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Ex. 5 - Deliberative Process

Katie

From: Narvaez, Madonna

Sent: Tuesday, March 01, 2016 11:34 AM
To: Skadowski, Suzanne <Skadowski.Suzanne@epa.gov>; Holsman, Marianne <Holsman.Marianne@epa.gov>; Smith, Judy <Smith.Judy@epa.gov>; Philip, Jeff <Philip.Jeff@epa.gov>
Cc: Koprowski, Paul <Koprowski.Paul@epa.gov>; Downey, Scott <Downey.Scott@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Franklin, Richard <Franklin.Richard@epa.gov>; Wroble, Julie <Wroble.Julie@epa.gov>; Holsman, Marianne <Holsman.Marianne@epa.gov>; Hastings, Janis <Hastings.Janis@epa.gov>; Bray, Dave <Bray.Dave@epa.gov>; Moon, Wally <Moon.Wally@epa.gov>; Koerber, Mike <Koerber.Mike@epa.gov>; Davis, Alison <Davis.Alison@epa.gov>; Barber, Anthony <Barber.Anthony@epa.gov>; Terry, Sara <Terry.Sara@epa.gov>; Davis, Matthew <Davis.Matthew@epa.gov>; Dossett, Donald <Dossett.Donald@epa.gov>
Subject: RE: MEDIA INQUIRY: Oregonian re Bullseye Glass -- Deadline Today!
Importance: High

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Cc: Koprowski, Paul <Koprowski.Paul@epa.gov>; Downey, Scott <Downey.Scott@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Franklin, Richard <Franklin.Richard@epa.gov>; Wroble, Julie <Wroble.Julie@epa.gov>; Holsman, Marianne <Holsman.Marianne@epa.gov>; Hastings, Janis <Hastings.Janis@epa.gov>; Bray, Dave <Bray.Dave@epa.gov>; Moon, Wally <Moon.Wally@epa.gov>; Koerber, Mike <Koerber.Mike@epa.gov>; Davis, Alison <Davis.Alison@epa.gov>; Barber, Anthony <Barber.Anthony@epa.gov>; Terry, Sara <Terry.Sara@epa.gov>; Davis, Matthew <Davis.Matthew@epa.gov>
Subject: MEDIA INQUIRY: Oregonian re Bullseye Glass -- Deadline Today!
Importance: High

Judy's tied up till later this afternoon. Let me know if you need me to respond.

From: Rob Davis [mailto:RDavis@oregonian.com]
Sent: Tuesday, March 01, 2016 11:18 AM
To: Smith, Judy <Smith.Judy@epa.gov>; Skadowski, Suzanne <Skadowski.Suzanne@epa.gov>

Subject: FW: Bullseye Glass
Importance: High

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I'm making the same inquiry of DEQ as well but would like to hear from EPA given that you all raised the issue in the email correspondence below, which I obtained through a public records request.

Thanks in advance for a swift response. I'm at my desk if it's easier, 503.294.7657.

Cheers,

Rob

ROB DAVIS

Reporter

The Oregonian

503.294.7657

@robwdavis

From: "Narvaez, Madonna" <Narvaez.Madonna@epa.gov>
Date: Thursday, February 4, 2016 at 9:48 AM
To: "monro.david@deq.state.or.us" <monro.david@deq.state.or.us>
Cc: "armitage.sarah@deq.state.or.us" <armitage.sarah@deq.state.or.us>
Subject: Bullseye Glass

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Madonna Narvaez

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USEPA, Region 10

1200 Sixth Avenue, Ste 900

MC: AWT-150

phone: 206-553-2117

fax: 206-553-0110

narvaez.madonna@epa.gov

Follow @EPAnorthwest on Twitter!https://twitter.com/EPAnorthwest

To: McClintock, Katie[McClintock.Katie@epa.gov]; Narvaez, Madonna[Narvaez.Madonna@epa.gov]; Skadowski, Suzanne[Skadowski.Suzanne@epa.gov]; Smith, Judy[Smith.Judy@epa.gov]; Philip, Jeff[Philip.Jeff@epa.gov]
Cc: Koprowski, Paul[Koprowski.Paul@epa.gov]; Hastings, Janis[Hastings.Janis@epa.gov]; Bray, Dave[Bray.Dave@epa.gov]
From: Holsman, Marianne
Sent: Tue 3/1/2016 7:46:23 PM
Subject: RE: MEDIA INQUIRY: Oregonian re Bullseye Glass -- Deadline Today!

Thanks very much, Katie.

Dave, could you craft a couple of plain language paragraphs that we can circulate?

Marianne

Follow us!

From: McClintock, Katie
Sent: Tuesday, March 01, 2016 11:42 AM
To: Narvaez, Madonna <Narvaez.Madonna@epa.gov>; Skadowski, Suzanne <Skadowski.Suzanne@epa.gov>; Holsman, Marianne <Holsman.Marianne@epa.gov>; Smith, Judy <Smith.Judy@epa.gov>; Philip, Jeff <Philip.Jeff@epa.gov>
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I'm paring down the list a bit.

Yes if they are subject to 6S they will need a title v permit

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The Oregonian

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From: McClintock, Katie
Sent: Tue 3/1/2016 7:42:19 PM
Subject: RE: MEDIA INQUIRY: Oregonian re Bullseye Glass -- Deadline Today!

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To: McClintock, Katie[McClintock.Katie@epa.gov]
Cc: Narvaez, Madonna[Narvaez.Madonna@epa.gov]; Bray, Dave[Bray.Dave@epa.gov]
From: Hastings, Janis
Sent: Fri 2/26/2016 11:06:56 PM
Subject: FW: OAR Lead Region News & Updates 2-26-16
Desk Statement -- glass manufacturing facilities v2.docx

The attached desk statement from HQ was sent to the Air DDs. Judy also received it through the PADs.

You might want to include it on our shared site.

Thanks!

Jan

Desk Statement regarding certain glass manufacturing facilities

High levels of air toxics were monitored in the air near two art glass manufacturing facilities in Portland, Oregon. The EPA has been working closely with Oregon officials to further understand the emissions and the risk to the public, if any and to work to reduce any risk to the public. As a precaution, the EPA has also requested its Regional Offices to gather information to better understand similar art glass manufacturing plants across the country – e.g., locations, air emissions, pollution controls, business operations, etc. Our current information indicates that there are fewer than 20 art glass manufacturing plants nationwide with significant emissions levels. Further understanding of these facilities will inform what actions we take to ensure compliance with existing regulations as well as to review and, if necessary, revise the current federal emission standards to ensure these plants operate in an environmentally safe manner.

To: Holsman, Marianne[Holsman.Marianne@epa.gov]; Narvaez, Madonna[Narvaez.Madonna@epa.gov]; McClintock, Katie[McClintock.Katie@epa.gov]; Smith, Judy[Smith.Judy@epa.gov]
Cc: Downey, Scott[Downey.Scott@epa.gov]; Bray, Dave[Bray.Dave@epa.gov]; Kowalski, Ed[Kowalski.Edward@epa.gov]; Leefers, Kristin[Leefers.Kristin@epa.gov]
From: Hastings, Janis
Sent: Fri 2/26/2016 10:57:01 PM
Subject: preparing for future press inquiries on Spectrum (color glass)

Hi, everyone. I talked with Judy Smith this afternoon about developing talking points and a desk statement on Spectrum (and other WA facilities) for when we get press inquiries. She says she can write the first draft, pulling from information in Katie's updates, and then running the draft by Katie, Madonna, Marianne, and Dave before sharing with a broader group.

I recommend we start with something quick and basic, so that we are ready, and then fill in additional information as time allows. Marianne, if you have other thoughts or direction, please let us know.

We should note that the local air agency, Puget Sound Clean Air, is the permitting agency, and we will want to provide their contact information.

Thanks, Judy!

Jan

To: McClintock, Katie[McClintock.Katie@epa.gov]; Bray, Dave[Bray.Dave@epa.gov]
Cc: Banister, Beverly[Banister.Beverly@epa.gov]; Russo, Todd[Russo.Todd@epa.gov]; Taylor, Kevin[Taylor.Kevin@epa.gov]; Spagg, Beverly[Spagg.Beverly@epa.gov]; Dubose, Dick[DuBose.Dick@epa.gov]; Page, Lee[Page.Lee@epa.gov]; Mitchell, Ken[Mitchell.Ken@epa.gov]
From: Mitchell, Ken
Sent: Fri 2/26/2016 7:34:35 PM
Subject: Art Glass -- clarifying question

Yes....thank you. One other question...this was somewhat opaque to me during our discussion yesterday. In short, it sounds like to me that, very broadly speaking:

There are facilities that MAKE colored glass for use by others (e.g., Bullseye). It's these folks that MAKE colored glass that are the focus of our current investigation (i.e., these are the facilities on the list of facilities in Janet's memo from last night).

There are facilities that USE colored glass to make products (like stained glass windows, glassware, etc.). We are NOT currently focusing on the many facilities that buy colored glass and then USE it to make a product, even if they have to do some kind of heating or melting of that colored glass to make their product.

Is that correct?

Kenneth L. Mitchell, Ph.D. | Special Assistant to the Director |
Air, Pesticides, and Toxics Management Division
U.S. Environmental Protection Agency | 61 Forsyth Street, SW | Atlanta, GA 30303
Voice: 404-562-9065 | Fax: 404-562-9066 | Email: mitchell.ken@epa.gov
Healthier Families, Cleaner Communities, A Stronger America
NOTICE: This communication may contain privileged or other confidential information. If you are not the intended recipient, or believe that you have received this communication in error, please do not print, copy, retransmit, disseminate, or otherwise use the information. Also, please indicate to the sender that you have received this communication in error, and delete the copy you received.

-----Original Message-----
From: Bray, Dave
Sent: Friday, February 26, 2016 2:24 PM
To: Mitchell, Ken <Mitchell.Ken@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>
Cc: Banister, Beverly <Banister.Beverly@epa.gov>; Russo, Todd <Russo.Todd@epa.gov>; Taylor, Kevin <Taylor.Kevin@epa.gov>; Spagg, Beverly <Spagg.Beverly@epa.gov>
Subject: RE: McCarthy-Brown Follow-Up

Hi Ken,

Yes, Mark's note mischaracterizes two different things:

First, it is not glass "blowing" but rather glass manufacturing where colored glass is being made by adding raw metals into glass furnaces. We have no information that glass blowing or other glass melting operations are potential air toxics sources.

Second, the only area where there is current monitoring data that shows increased levels of air toxics near glass manufacturing operations is in Portland, OR. Yes, we suspect that there may be increased levels near other colored glass manufacturing facilities, but we don't currently have any information showing such.

Hope this helps.

Dave

From: Mitchell, Ken
Sent: Friday, February 26, 2016 11:02 AM
To: McClintock, Katie; Bray, Dave
Cc: Banister, Beverly; Russo, Todd; Taylor, Kevin; Spagg, Beverly; Mitchell, Ken
Subject: FW: McCarthy-Brown Follow-Up

Katie and Dave….In case you had not seen this (email below and attachment).

Also, Mark Rupp says in his note below to the RAs that "…the attached memo from Janet to ADDs notes several communities – ones that fall into your regions – where increased levels of air toxics are being seen related to glass blowing operations." (Emphasis added)

I'm not aware that we have any evidence that is the case. Can you please confirm that this should actually say "where increased levels of air toxics may be an issue"? Thanks.

Kenneth L. Mitchell, Ph.D. | Special Assistant to the Director | Air, Pesticides, and Toxics Management Division U.S. Environmental Protection Agency | 61 Forsyth Street, SW | Atlanta, GA 30303
Voice: 404-562-9065 | Fax: 404-562-9066 | Email:
mitchell.ken@epa.gov<mailto:mitchell.ken@epa.gov>
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Begin forwarded message:
From: "Rupp, Mark" <Rupp.Mark@epa.gov<mailto:Rupp.Mark@epa.gov>>
Date: February 26, 2016 at 12:34:38 PM CST
To: "McTeerToney, Heather"
<McTeerToney.Heather@epa.gov<mailto:McTeerToney.Heather@epa.gov>>, "Heard, Anne"
<Heard.Anne@epa.gov<mailto:Heard.Anne@epa.gov>>, "Kaplan, Robert"
<kaplan.robert@epa.gov<mailto:kaplan.robert@epa.gov>>, "Newton, Cheryl"
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Cc: "McLerran, Dennis" <mclerran.dennis@epa.gov<mailto:mclerran.dennis@epa.gov>>, "Pirzadeh, Michelle" <Pirzadeh.Michelle@epa.gov<mailto:Pirzadeh.Michelle@epa.gov>>, AO-ORO
<AOORO@epa.gov<mailto:AOORO@epa.gov>>
Subject: FW: McCarthy-Brown Follow-Up
RAs/DRAs from 2, 3, 4, 5 and 9. (And cc'ing 10.) Please find, attached, a letter that we just sent to the Governor of Oregon, in response to a matter the Governor raised with the Administrator during our Western Governors breakfast (and on which the two had a follow-up call on Wednesday).

I'm alerting you because the attached memo from Janet to ADDs notes several communities – ones that fall into your regions – where increased levels of air toxics are being seen related to glass blowing operations.

There is no intention of making any news of this – but know your PADs will get a statement that OAR is developing in the event questions come up.

Mark

From: Rupp, Mark
Sent: Friday, February 26, 2016 1:24 PM
Subject: McCarthy-Brown Follow-Up

Hey, Jan. Happy Friday!

Thanks for your help in setting up the earlier call with Administrator McCarthy and Governor Brown. Please find, attached, a letter in follow-up if you can get it to the Governor.

And to the rest of the Oregon crew, please don't hesitate reaching out to Dennis McLerran (cc'd) or me!

Thanks,
Mark

Mark W. Rupp
Deputy Associate Administrator for Intergovernmental Relations Office of Congressional and Intergovernmental Relations U.S. Environmental Protection Agency
1200 Pennsylvania Avenue, NW
Washington, DC 20460
(202) 564-6074 (O)
(202) 596-0950 (C)

To: Bray, Dave[Bray.Dave@epa.gov]
From: McClintock, Katie
Sent: Wed 2/24/2016 8:27:54 PM
Subject: RE: Planning for Thursday, 2/25, RA Update on Portland Air Toxics

I think that looks good. I think the area source neshap should include scott throwe if possible since he has talked to his management from oeca. I don't think he is on the invite list. I can give his update too but prob better from him. I'll talk about ambient monitoring (or lack there of) on spectrum

-----Original Message-----
From: Bray, Dave
Sent: Wednesday, February 24, 2016 12:23 PM
To: McClintock, Katie <McClintock.Katie@epa.gov>
Subject: FW: Planning for Thursday, 2/25, RA Update on Portland Air Toxics

Hi Katie,

Any thoughts on the possible agenda for tomorrow.

Here's what I'm currently thinking:

Topics (5 min each)

- Portland facilities: Brief updates and next steps – Katie
- Applicability of the area source NESHAP to the above facilities? – OECA/OGC/OAQPS
- Other facilities nationwide: Brief update and next steps (Janet's email) – OAQPS
- ODEQ's requests for support: Current status/needs – Paul/Wally
- Spectrum: Status and comparison with Bullseye – Katie
- Questions from Dennis

If you agree, I'll send this to Mike, Paul, and Madonna to see if they are OK with it.

Dave

From: Hastings, Janis
Sent: Monday, February 22, 2016 10:52 AM
To: Holsman, Marianne; Bray, Dave; Koprowski, Paul; Narvaez, Madonna; Smith, Judy; McClintock, Katie; Koerber, Mike; Davis, Alison; Barber, Anthony; Terry, Sara; Davis, Matthew
Cc: Downey, Scott; Moon, Wally; Bremer, Kristen; Fairchild, Susan
Subject: Planning for Thursday, 2/25, RA Update on Portland Air Toxics

Hi, everyone. We will use the call scheduled for this Thursday, 2/25, to update Dennis. I have forwarded the call-in information to him. He is generally aware of the background and issues, so we will focus on updates.

Instead of the regular daily update, below is a very rough agenda for Thursday, which I hope Dave, Katie, Madonna, and Mike can finalize.
Dave, could you please send out the final agenda for Thursday's call on Wed?

Topics (5 min each)

- Portland facilities: Brief updates and next steps – Katie
- Applicability determinations for the above facilities: Status – OAQPS?
- Other facilities nationwide: Brief update and next steps – HQ?
- ODEQ's requests for support: Current status/needs – Katie/Paul/Wally?
- Spectrum: Status and comparison with Bullseye – Katie
- Questions from Dennis

Thanks!

Jan

Janis Hastings, Acting Director
Office of Air, Waste & Toxics
U.S. Environmental Protection Agency, Region 10
1200 Sixth Ave, Ste. 900
Seattle, WA 98101
(206) 553-1582

From: Holsman, Marianne
Sent: Friday, February 19, 2016 1:09 PM
To: Bray, Dave <Bray.Dave@epa.gov>; Hastings, Janis <Hastings.Janis@epa.gov>; Koprowski, Paul <Koprowski.Paul@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; Smith, Judy <Smith.Judy@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Koerber, Mike <Koerber.Mike@epa.gov>; Davis, Alison <Davis.Alison@epa.gov>; Barber, Anthony <Barber.Anthony@epa.gov>; Terry, Sara <Terry.Sara@epa.gov>; Davis, Matthew <Davis.Matthew@epa.gov>
Cc: Downey, Scott <Downey.Scott@epa.gov>; Moon, Wally <Moon.Wally@epa.gov>; Bremer, Kristen <Bremer.Kristen@epa.gov>; Fairchild, Susan <Fairchild.Susan@epa.gov>
Subject: Re: Daily Updates on Portland Air Toxics

Hi Folks:

Sorry for all the calendar activity. I clearly need to slow down! Thanks to Katie for noting our daily calls were set for the weekends. Thankfully that doesn't seem necessary.

We'll catch up on Monday. May not be a ton to discuss then, but maybe we can make a plan for who needs to be in the conversations about what are the next steps and how we'll be communicating about them?

Have a good weekend!

From: Holsman, Marianne
Sent: Tuesday, February 16, 2016 4:12 PM
To: Holsman, Marianne; Bray, Dave; Hastings, Janis; Koprowski, Paul; Narvaez, Madonna; Smith, Judy; McClintock, Katie; Koerber, Mike; Davis, Alison; Barber, Anthony; Terry, Sara; Davis, Matthew
Cc: Downey, Scott; Moon, Wally; Bremer, Kristen; Fairchild, Susan
Subject: Daily Updates on Portland Air Toxics
When: Friday, February 19, 2016 8:30 AM-9:00 AM.
Where: 1-866-299-3188, code: 2065531237#

Hi Folks:

Thought at least a morning update each day would help everyone know what is happening given how dynamic things are right now. May want to do an end of day wrap as well.

If you can't make the updates, please send me and Jan an email and we'll report for you.

The idea is we each report on what we know and are working on currently. Simple!

Thanks!

To: Bray, Dave[Bray.Dave@epa.gov]
From: McClintock, Katie
Sent: Wed 2/24/2016 8:25:26 PM
Subject: RE: Revised ADD Note and Gov Cover letter

Ex. 6 - Personal Privacy

-----Original Message-----
From: Bray, Dave
Sent: Wednesday, February 24, 2016 12:25 PM
To: McClintock, Katie <McClintock.Katie@epa.gov>
Subject: RE: Revised ADD Note and Gov Cover letter

Can you talk?

Are you in the office or working remotely?

Dave

From: McClintock, Katie
Sent: Wednesday, February 24, 2016 11:31 AM
To: Bray, Dave
Subject: RE: Revised ADD Note and Gov Cover letter

Ex. 5 - Deliberative Process

-----Original Message-----
From: Bray, Dave
Sent: Wednesday, February 24, 2016 11:27 AM
To: McClintock, Katie <McClintock.Katie@epa.gov>
Subject: RE: Revised ADD Note and Gov Cover letter

No problem.

What do you think of Sara's revised paragraphs?

Dave

From: McClintock, Katie
Sent: Wednesday, February 24, 2016 11:23 AM

To: Bray, Dave
Subject: RE: Revised ADD Note and Gov Cover letter

Ex. 6 - Personal Privacy

-----Original Message-----
From: Bray, Dave
Sent: Wednesday, February 24, 2016 10:48 AM
To: McClintock, Katie <McClintock.Katie@epa.gov>
Subject: RE: Revised ADD Note and Gov Cover letter

Hi Katie,

So are you consolidating all of the Region 10 comments/edits?

I can send you what I have done so far if that's the case.

Dave

From: McClintock, Katie
Sent: Wednesday, February 24, 2016 10:01 AM
To: Terry, Sara; Koerber, Mike; Hastings, Janis; Fairchild, Susan; Noonan, Jenny; Bray, Dave; Narvaez, Madonna
Subject: RE: Revised ADD Note and Gov Cover letter

Ex. 5 - Deliberative Process

From: Terry, Sara
Sent: Wednesday, February 24, 2016 9:18 AM
To: Koerber, Mike <Koerber.Mike@epa.gov>; Hastings, Janis <Hastings.Janis@epa.gov>; Fairchild, Susan <Fairchild.Susan@epa.gov>; Noonan, Jenny <Noonan.Jenny@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Bray, Dave <Bray.Dave@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>
Subject: Revised ADD Note and Gov Cover letter

Attached are revised versions of these documents that incorporate many of the suggested changes. Please let me know ASAP if there is any heartburn with these so we can get to Janet.

Thanks for your rapid attention to this task.

Sara

To: Bray, Dave[Bray.Dave@epa.gov]
From: McClintock, Katie
Sent: Wed 2/24/2016 7:31:20 PM
Subject: RE: Revised ADD Note and Gov Cover letter

Ex. 5 - Deliberative Process

-----Original Message-----
From: Bray, Dave
Sent: Wednesday, February 24, 2016 11:27 AM
To: McClintock, Katie <McClintock.Katie@epa.gov>
Subject: RE: Revised ADD Note and Gov Cover letter

No problem.

What do you think of Sara's revised paragraphs?

Dave

From: McClintock, Katie
Sent: Wednesday, February 24, 2016 11:23 AM
To: Bray, Dave
Subject: RE: Revised ADD Note and Gov Cover letter

Ex. 6 - Personal Privacy

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From: Bray, Dave
Sent: Wednesday, February 24, 2016 10:48 AM
To: McClintock, Katie <McClintock.Katie@epa.gov>
Subject: RE: Revised ADD Note and Gov Cover letter

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I can send you what I have done so far if that's the case.

Dave

From: McClintock, Katie
Sent: Wednesday, February 24, 2016 10:01 AM
To: Terry, Sara; Koerber, Mike; Hastings, Janis; Fairchild, Susan; Noonan, Jenny; Bray, Dave; Narvaez, Madonna
Subject: RE: Revised ADD Note and Gov Cover letter

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Sent: Wednesday, February 24, 2016 9:18 AM
To: Koerber, Mike <Koerber.Mike@epa.gov>; Hastings, Janis <Hastings.Janis@epa.gov>; Fairchild, Susan <Fairchild.Susan@epa.gov>; Noonan, Jenny <Noonan.Jenny@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Bray, Dave <Bray.Dave@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>
Subject: Revised ADD Note and Gov Cover letter

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Thanks for your rapid attention to this task.

Sara

To: Bray, Dave[Bray.Dave@epa.gov]; McClintock, Katie[McClintock.Katie@epa.gov]; Koerber, Mike[Koerber.Mike@epa.gov]; Hastings, Janis[Hastings.Janis@epa.gov]; Fairchild, Susan[Fairchild.Susan@epa.gov]; Noonan, Jenny[Noonan.Jenny@epa.gov]; Narvaez, Madonna[Narvaez.Madonna@epa.gov]
From: Terry, Sara
Sent: Wed 2/24/2016 7:15:11 PM
Subject: RE: Revised ADD Note and Gov Cover letter

This is covered later in the note:

- The Office of Enforcement and Compliance Assistance (OECA), the Office of General Counsel (OGC) and OAQPS are jointly investigating the applicability of Part 63 SSSSSS to these and similar facilities nationally.

-----Original Message-----
From: Bray, Dave
Sent: Wednesday, February 24, 2016 2:14 PM
To: Terry, Sara <Terry.Sara@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Koerber, Mike <Koerber.Mike@epa.gov>; Hastings, Janis <Hastings.Janis@epa.gov>; Fairchild, Susan <Fairchild.Susan@epa.gov>; Noonan, Jenny <Noonan.Jenny@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>
Subject: RE: Revised ADD Note and Gov Cover letter

Hi Sara,

Ex. 5 - Deliberative Process

Dave

From: Terry, Sara
Sent: Wednesday, February 24, 2016 11:05 AM
To: Bray, Dave; McClintock, Katie; Koerber, Mike; Hastings, Janis; Fairchild, Susan; Noonan, Jenny; Narvaez, Madonna
Subject: RE: Revised ADD Note and Gov Cover letter

Here are my drafts of the two paragraphs of concer:

Ex. 5 - Deliberative Process

-----Original Message-----
From: Bray, Dave
Sent: Wednesday, February 24, 2016 1:33 PM
To: McClintock, Katie <McClintock.Katie@epa.gov>; Terry, Sara <Terry.Sara@epa.gov>; Koerber, Mike <Koerber.Mike@epa.gov>; Hastings, Janis <Hastings.Janis@epa.gov>; Fairchild, Susan <Fairchild.Susan@epa.gov>; Noonan, Jenny <Noonan.Jenny@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>
Subject: RE: Revised ADD Note and Gov Cover letter

Thanks Katie.

I caught that one too and was working to revise that sentence along with the sentence talking about the metals that are temporarily not being used.

Dave

From: McClintock, Katie
Sent: Wednesday, February 24, 2016 10:01 AM
To: Terry, Sara; Koerber, Mike; Hastings, Janis; Fairchild, Susan; Noonan, Jenny; Bray, Dave; Narvaez, Madonna
Subject: RE: Revised ADD Note and Gov Cover letter

Ex. 5 - Deliberative Process

From: Terry, Sara
Sent: Wednesday, February 24, 2016 9:18 AM
To: Koerber, Mike <Koerber.Mike@epa.gov>; Hastings, Janis <Hastings.Janis@epa.gov>; Fairchild, Susan <Fairchild.Susan@epa.gov>; Noonan, Jenny <Noonan.Jenny@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Bray, Dave <Bray.Dave@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>
Subject: Revised ADD Note and Gov Cover letter

Attached are revised versions of these documents that incorporate many of the suggested changes. Please let me know ASAP if there is any heartburn with these so we can get to Janet.

Thanks for your rapid attention to this task.

Sara

To: Bray, Dave[Bray.Dave@epa.gov]; McClintock, Katie[McClintock.Katie@epa.gov]; Koerber, Mike[Koerber.Mike@epa.gov]; Hastings, Janis[Hastings.Janis@epa.gov]; Fairchild, Susan[Fairchild.Susan@epa.gov]; Noonan, Jenny[Noonan.Jenny@epa.gov]; Narvaez, Madonna[Narvaez.Madonna@epa.gov]
From: Terry, Sara
Sent: Wed 2/24/2016 7:05:42 PM
Subject: RE: Revised ADD Note and Gov Cover letter

Here are my drafts of the two paragraphs of concer:

Ex. 5 - Deliberative Process

-----Original Message-----
From: Bray, Dave
Sent: Wednesday, February 24, 2016 1:33 PM
To: McClintock, Katie <McClintock.Katie@epa.gov>; Terry, Sara <Terry.Sara@epa.gov>; Koerber, Mike <Koerber.Mike@epa.gov>; Hastings, Janis <Hastings.Janis@epa.gov>; Fairchild, Susan <Fairchild.Susan@epa.gov>; Noonan, Jenny <Noonan.Jenny@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>
Subject: RE: Revised ADD Note and Gov Cover letter

Thanks Katie.

I caught that one too and was working to revise that sentence along with the sentence talking about the metals that are temporarily not being used.

Dave

From: McClintock, Katie
Sent: Wednesday, February 24, 2016 10:01 AM
To: Terry, Sara; Koerber, Mike; Hastings, Janis; Fairchild, Susan; Noonan, Jenny; Bray, Dave; Narvaez, Madonna
Subject: RE: Revised ADD Note and Gov Cover letter

Ex. 5 - Deliberative Process

From: Terry, Sara
Sent: Wednesday, February 24, 2016 9:18 AM

To: Koerber, Mike <Koerber.Mike@epa.gov>; Hastings, Janis <Hastings.Janis@epa.gov>; Fairchild, Susan <Fairchild.Susan@epa.gov>; Noonan, Jenny <Noonan.Jenny@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Bray, Dave <Bray.Dave@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>
Subject: Revised ADD Note and Gov Cover letter

Attached are revised versions of these documents that incorporate many of the suggested changes. Please let me know ASAP if there is any heartburn with these so we can get to Janet.

Thanks for your rapid attention to this task.

Sara

To: McClintock, Katie[McClintock.Katie@epa.gov]; Koerber, Mike[Koerber.Mike@epa.gov]; Hastings, Janis[Hastings.Janis@epa.gov]; Fairchild, Susan[Fairchild.Susan@epa.gov]; Noonan, Jenny[Noonan.Jenny@epa.gov]; Bray, Dave[Bray.Dave@epa.gov]; Narvaez, Madonna[Narvaez.Madonna@epa.gov]
From: Terry, Sara
Sent: Wed 2/24/2016 7:04:09 PM
Subject: RE: Revised ADD Note and Gov Cover letter

I can use the language from the Wyden response:

Ex. 5 - Deliberative Process

From: McClintock, Katie
Sent: Wednesday, February 24, 2016 1:01 PM
To: Terry, Sara <Terry.Sara@epa.gov>; Koerber, Mike <Koerber.Mike@epa.gov>; Hastings, Janis <Hastings.Janis@epa.gov>; Fairchild, Susan <Fairchild.Susan@epa.gov>; Noonan, Jenny <Noonan.Jenny@epa.gov>; Bray, Dave <Bray.Dave@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>
Subject: RE: Revised ADD Note and Gov Cover letter

Ex. 5 - Deliberative Process

From: Terry, Sara
Sent: Wednesday, February 24, 2016 9:18 AM
To: Koerber, Mike <Koerber.Mike@epa.gov>; Hastings, Janis <Hastings.Janis@epa.gov>;

Fairchild, Susan <Fairchild.Susan@epa.gov>; Noonan, Jenny <Noonan.Jenny@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Bray, Dave <Bray.Dave@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>
Subject: Revised ADD Note and Gov Cover letter

Attached are revised versions of these documents that incorporate many of the suggested changes. Please let me know ASAP if there is any heartburn with these so we can get to Janet.

Thanks for your rapid attention to this task.

Sara

To: Koerber, Mike[Koerber.Mike@epa.gov]; Hastings, Janis[Hastings.Janis@epa.gov]; Fairchild, Susan[Fairchild.Susan@epa.gov]; Noonan, Jenny[Noonan.Jenny@epa.gov]; McClintock, Katie[McClintock.Katie@epa.gov]; Bray, Dave[Bray.Dave@epa.gov]; Narvaez, Madonna[Narvaez.Madonna@epa.gov]
From: Terry, Sara
Sent: Wed 2/24/2016 5:17:37 PM
Subject: Revised ADD Note and Gov Cover letter
Governor Brown Letter 02 24 16 v2.docx
McCabe memo to RAs 02 24 16 v2.docx

Attached are revised versions of these documents that incorporate many of the suggested changes. Please let me know ASAP if there is any heartburn with these so we can get to Janet.

Thanks for your rapid attention to this task.

Sara

To: Hastings, Janis[Hastings.Janis@epa.gov]; Bray, Dave[Bray.Dave@epa.gov]
From: McClintock, Katie
Sent: Wed 2/24/2016 4:50:28 PM
Subject: does this look good for the 9am call?

- Air studies: USFS moss study to find hot spots, state air monitoring, results
- Types of sources, location of sources (near daycares/schools)
- Public response
- Discuss source of emissions in glass process (aka metals added for coloring the glass)
- Discuss current knowledge of health concerns presented by arsenic, cadmium, and chromium
- Reaction of the sources (voluntary suspension of use of arsenic, cadmium, chromium)
- inspections (Bullseye, Uroboros, Spectrum, Northstar)
- Internal agency responses/ongoing work
  - Understanding universe
  - Understanding emissions
  - Understanding controls
  - Looking at applicability of 6S

Katie McClintock

Air Enforcement Officer

EPA Region 10

1200 Sixth Avenue, Suite 900, OCE-101

Seattle, WA 98101

Phone: 206-553-2143

Fax: 206-553-4743

Mcclintock.katie@epa.gov

To: McClintock, Katie[McClintock.Katie@epa.gov]; Narvaez, Madonna[Narvaez.Madonna@epa.gov]; Koprowski, Paul[Koprowski.Paul@epa.gov]; Wroble, Julie[Wroble.Julie@epa.gov]; Hall, Chris[Hall.Christopher@epa.gov]; Moon, Wally[Moon.Wally@epa.gov]
Cc: Bray, Dave[Bray.Dave@epa.gov]; Holsman, Marianne[Holsman.Marianne@epa.gov]
From: Hastings, Janis
Sent: Wed 2/24/2016 4:18:33 AM
Subject: ASAP - your input: EPA activities to support Oregon on Portland air toxics
EPA assistance to Oregon.docx

Hi, R10 team: We've been asked to compile as early as possible on Wed (2/23) a paragraph summarizing all of the activities we are conducting to support Oregon on the Portland Air toxics issue. Do you have any additions, corrections? Feel free to just send a few sentences if I've left something out, or if you have more specific information. HQ will fill in the HQ-focused parts. Thanks to Madonna, we were able to put something together quickly.

Jan

To: Bray, Dave[Bray.Dave@epa.gov]; Hastings, Janis[Hastings.Janis@epa.gov]; Downey, Scott[Downey.Scott@epa.gov]; McClintock, Katie[McClintock.Katie@epa.gov]; Koprowski, Paul[Koprowski.Paul@epa.gov]; Holsman, Marianne[Holsman.Marianne@epa.gov]
From: Smith, Judy
Sent: Tue 2/23/2016 7:37:15 PM
Subject: MEDIA INQUIRY: Air quality questions - Vancouver Columbian

Hi – Here is a new reporter inquiry from Portland's next door neighbor to the north. I highlighted six questions in the reporters e-mail. (#1 and #6 aren't really questions, but I highlighted them anyway.) I think #4 and #5 we could redirect to WA ECY. Who will be able to help construct answers to the other questions. The reporter didn't tell me if he was working on a deadline. I'll find out when I relay the information on which questions he should direct to ECY. Is there an AQ contact at ECY he should ask for, or should I send him to their public affairs office? Thanks, Judy

From: Dameon Pesanti [mailto:Dameon.Pesanti@columbian.com]
Sent: Tuesday, February 23, 2016 11:18 AM
To: Smith, Judy <Smith.Judy@epa.gov>
Subject: Air quality questions

Hi Judy,

I just got your message, thanks for getting back to me and making some time to connect. My first thought was to contact DOE, so thanks for validating my hunches.

If I can take you up on your offer, I would like to compare the two states. This article is really going to be an answer to the question: "That's happening in Portland, what's going on here in Vancouver?" I've included a couple questions, but, please, just stop me if any are better suited for Ecology. Nonetheless, here it goes:

Can you explain to me how the EPA works with the state to monitor and enforce air quality standards within Vancouver?

I read on wweek.com that the source company of all the pollution is too small to be in violation of any state laws, even though they're emitting quite a bit of stuff. The paragraphs I'm looking at are:

"Under its state permit, the company is legally allowed to emit 10 tons of any given air pollutant a year, or 25 tons for any combination of two or more toxics spewing from their stacks. Those weights, expressed in tons, apply not to the physical raw material involved, but to the amount of aerosol emissions—the weight of the smoke, or smog, or plume.

According to an April 2011 DEQ "Discharge Permit Review Report," Bullseye used 6,000 pounds of hazardous raw materials in 2009, which would have made it impossible for its emissions to even approach 10 tons. The company's totally in the clear as far government limiting its activities—children across the road notwithstanding."

So my questions are, how do Washington state's laws compare to limiting emissions compared to Oregon?

How does the state monitor small scale polluters compared to big ones?

Who are the main polluters in The Vancouver area?

Is there any thing else I should know or be clear on that I haven't asked about already?

Thanks for you time,

Dameon Pesanti

Dameon Pesanti

Staff writer at The Columbian

(360) 735-4541

@dameonoemad

To: McClintock, Katie[McClintock.Katie@epa.gov]; Holsman, Marianne[Holsman.Marianne@epa.gov]; Bray, Dave[Bray.Dave@epa.gov]
From: Koerber, Mike
Sent: Thur 2/18/2016 9:40:00 PM
Subject: RE: Final Draft Portland Air Toxics Congressional Response 2 18 2016.docx

Ex. 5 - Deliberative Process

From: McClintock, Katie
Sent: Thursday, February 18, 2016 4:38 PM
To: Koerber, Mike <Koerber.Mike@epa.gov>; Holsman, Marianne <Holsman.Marianne@epa.gov>; Bray, Dave <Bray.Dave@epa.gov>
Subject: RE: Final Draft Portland Air Toxics Congressional Response 2 18 2016.docx

Ex. 5 - Deliberative Process

From: Koerber, Mike
Sent: Thursday, February 18, 2016 1:01 PM
To: Holsman, Marianne <Holsman.Marianne@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Bray, Dave <Bray.Dave@epa.gov>
Subject: RE: Final Draft Portland Air Toxics Congressional Response 2 18 2016.docx

Ex. 5 - Deliberative Process

From: McLerran, Dennis
Sent: Thursday, February 18, 2016 3:52 PM

To: McCabe, Janet <McCabe.Janet@epa.gov>
Cc: Bray, Dave <Bray.Dave@epa.gov>; Hastings, Janis <Hastings.Janis@epa.gov>; Distefano, Nichole <DiStefano.Nichole@epa.gov>; Niebling, William <Niebling.William@epa.gov>; Wayland, Richard <Wayland.Richard@epa.gov>; Koerber, Mike <Koerber.Mike@epa.gov>; Jordan, Deborah <Jordan.Deborah@epa.gov>; Stewart, Lori <Stewart.Lori@epa.gov>
Subject: Re: Final Draft Portland Air Toxics Congressional Response 2 18 2016.docx

Excellent edits. I concur.

Dennis

Sent from my EPA iPhone

On Feb 18, 2016, at 12:45 PM, McCabe, Janet <McCabe.Janet@epa.gov> wrote:

I made quite a few edits to this letter—if you don't like 'em, I won't be offended.

<Final Draft Portland Air Toxics Congressional Response 2 18 2016.docx>

To: Koerber, Mike[Koerber.Mike@epa.gov]; Holsman, Marianne[Holsman.Marianne@epa.gov]; Bray, Dave[Bray.Dave@epa.gov]
From: McClintock, Katie
Sent: Thur 2/18/2016 9:37:39 PM
Subject: RE: Final Draft Portland Air Toxics Congressional Response 2 18 2016.docx

Ex. 5 - Deliberative Process

From: Koerber, Mike
Sent: Thursday, February 18, 2016 1:01 PM
To: Holsman, Marianne <Holsman.Marianne@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Bray, Dave <Bray.Dave@epa.gov>
Subject: RE: Final Draft Portland Air Toxics Congressional Response 2 18 2016.docx

Ex. 5 - Deliberative Process

From: McLerran, Dennis
Sent: Thursday, February 18, 2016 3:52 PM
To: McCabe, Janet <McCabe.Janet@epa.gov>
Cc: Bray, Dave <Bray.Dave@epa.gov>; Hastings, Janis <Hastings.Janis@epa.gov>; Distefano, Nichole <DiStefano.Nichole@epa.gov>; Niebling, William <Niebling.William@epa.gov>; Wayland, Richard <Wayland.Richard@epa.gov>; Koerber, Mike <Koerber.Mike@epa.gov>; Jordan, Deborah <Jordan.Deborah@epa.gov>; Stewart, Lori <Stewart.Lori@epa.gov>
Subject: Re: Final Draft Portland Air Toxics Congressional Response 2 18 2016.docx

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Dennis

Sent from my EPA iPhone

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I made quite a few edits to this letter—if you don't like 'em, I won't be offended.

<Final Draft Portland Air Toxics Congressional Response 2 18 2016.docx>

To: McClintock, Katie[McClintock.Katie@epa.gov]; Downey, Scott[Downey.Scott@epa.gov]; Leefers, Kristin[Leefers.Kristin@epa.gov]; Bray, Dave[Bray.Dave@epa.gov]; Narvaez, Madonna[Narvaez.Madonna@epa.gov]; Fairchild, Susan[Fairchild.Susan@epa.gov]; Holsman, Marianne[Holsman.Marianne@epa.gov]; Hastings, Janis[Hastings.Janis@epa.gov]; Froikin, Sara[Froikin.Sara@epa.gov]; Matthews, Julie[Matthews.Juliane@epa.gov]; Franklin, Richard[Franklin.Richard@epa.gov]; Kowalski, Ed[Kowalski.Edward@epa.gov]; Wroble, Julie[Wroble.Julie@epa.gov]; Hall, Chris[Hall.Christopher@epa.gov]; Fried, Gregory[Fried.Gregory@epa.gov]; Smith, Judy[Smith.Judy@epa.gov]; Koprowski, Paul[Koprowski.Paul@epa.gov]; Hedgpeth, Zach[Hedgpeth.Zach@epa.gov]; Fleming, Sheila[fleming.sheila@epa.gov]; McLerran, Dennis[mclerran.dennis@epa.gov]
Cc: Field, Chris[Field.Chris@epa.gov]; Terada, Calvin[Terada.Calvin@epa.gov]; Ingemansen, Dean[Ingemansen.Dean@epa.gov]
From: Moon, Wally
Sent: Wed 2/17/2016 3:41:43 PM
Subject: RE: Daily update

Good morning,

Just wanted to keep everyone in the loop. ODEQ's Cleanup Program (Bruce Gilles State Cleanup Program Manager and Keith Johnson, NW Region Cleanup Program Manager) and I have been in communication since this issue first arose. We made a general offer of our assistance to their ER and cleanup program.

Yesterday I received a call from Keith Johnson. Keith was looking for XRF soil sampling support in the way of equipment. ODEQ has been sampling surficial soil around the Bullseye facility and will be expanding their program to include the area around Uroboros in north Portland. Keith confirmed that ODEQ's Unified Command had approved this request.

We have offered our 1 XRF from our Portland Office and the services of Richard Franklin, OSC, and one of our science and technical assistance contractors (START). Richard will transfer the XRF (hopefully today), and offer technical assistance with their sampling plan.

Switching gears. Sheila Fleming has identified me to be the point of contact for ECL for this matter. As always, the Emergency Management Program is standing by if needed.

If you have any questions or concerns, please don't hesitate to ask.

Wally

Wally Moon | Manager

U.S. Environmental Protection Agency | Region 10

Office of Environmental Cleanup – Emergency Management Program

Emergency Preparedness and Prevention Unit

p: 206.553.6323 | c: 206.419.2682 | moon.wally@epa.gov

From: McClintock, Katie
Sent: Tuesday, February 16, 2016 10:23 PM
To: Downey, Scott <Downey.Scott@epa.gov>; Leefers, Kristin <Leefers.Kristin@epa.gov>; Bray, Dave <Bray.Dave@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; Fairchild, Susan <Fairchild.Susan@epa.gov>; Holsman, Marianne <Holsman.Marianne@epa.gov>; Hastings, Janis <Hastings.Janis@epa.gov>; Froikin, Sara <Froikin.Sara@epa.gov>; Matthews, Julie <Matthews.Juliane@epa.gov>; Franklin, Richard <Franklin.Richard@epa.gov>; Kowalski, Ed <Kowalski.Edward@epa.gov>; Wroble, Julie <Wroble.Julie@epa.gov>; Hall, Chris <Hall.Christopher@epa.gov>; Moon, Wally <Moon.Wally@epa.gov>; Fried, Gregory <Fried.Gregory@epa.gov>; Smith, Judy <Smith.Judy@epa.gov>; Koprowski, Paul <Koprowski.Paul@epa.gov>; Hedgpeth, Zach <Hedgpeth.Zach@epa.gov>; Fleming, Sheila <fleming.sheila@epa.gov>; McLerran, Dennis <mclerran.dennis@epa.gov>
Subject: Daily update

It is also on the onedrive: Ex. 6 - Personal Privacy

Ex. 6 - Personal Privacy

Katie McClintock

Air Enforcement Officer

EPA Region 10

1200 Sixth Avenue, Suite 900, OCE-101

Seattle, WA 98101

Phone: 206-553-2143

Fax: 206-553-4743

Mcclintock.katie@epa.gov

To: Downey, Scott[Downey.Scott@epa.gov]; Leefers, Kristin[Leefers.Kristin@epa.gov]; Bray, Dave[Bray.Dave@epa.gov]; Narvaez, Madonna[Narvaez.Madonna@epa.gov]; Fairchild, Susan[Fairchild.Susan@epa.gov]; Holsman, Marianne[Holsman.Marianne@epa.gov]; Hastings, Janis[Hastings.Janis@epa.gov]; Froikin, Sara[Froikin.Sara@epa.gov]; Matthews, Julie[Matthews.Juliane@epa.gov]; Franklin, Richard[Franklin.Richard@epa.gov]; Kowalski, Ed[Kowalski.Edward@epa.gov]; Wroble, Julie[Wroble.Julie@epa.gov]; Hall, Chris[Hall.Christopher@epa.gov]; Moon, Wally[Moon.Wally@epa.gov]; Fried, Gregory[Fried.Gregory@epa.gov]; Smith, Judy[Smith.Judy@epa.gov]; Koprowski, Paul[Koprowski.Paul@epa.gov]; Hedgpeth, Zach[Hedgpeth.Zach@epa.gov]; Fleming, Sheila[fleming.sheila@epa.gov]; McLerran, Dennis[mclerran.dennis@epa.gov]
From: McClintock, Katie
Sent: Wed 2/17/2016 6:23:26 AM
Subject: Daily update
Daily Update 2-16-16.docx

It is also on the onedrive: Ex. 6 - Personal Privacy

Ex. 6 - Personal Privacy

Katie McClintock

Air Enforcement Officer

EPA Region 10

1200 Sixth Avenue, Suite 900, OCE-101

Seattle, WA 98101

Phone: 206-553-2143

Fax: 206-553-4743

Mcclintock.katie@epa.gov

Color Glass - Daily Update 2-15-16

Enforcement Confidential

- Update from Dennis McLerran
  - Conversations over the weekend with Dick Pederson, Cynthia Giles, Janet McCabe and Gina McCarthy. They discussed EPA and DEQ roles.
  - DEQ is quickly moving toward enforceable orders and has talked about memorializing the company's commitments to not use chromium, cadmium and arsenic.
  - DEQ's attorney will be reaching out to Ed to discuss legal authority.
  - Consensus was for EPA to continue to support the good work DEQ is undertaking while focusing the larger national questions of other sources and potentially rule writing.
  - In looking at other sources, we want to engage the states/locals as well for quick action like OR has done here.
- Public Meeting Thursday at Harriet Tubman School (next to Uroboros)
  - Rhonda Kaetzel from ATSDR will attend
  - OR has asked Madonna Narvaez and Tony Barber to participate. Madonna has prepared a one-pager for OR if EPA does not attend.
- Response to congressman Wyden
  - Original letter is on the onedrive in Press Folder
  - EPA is working with OAQPS on letter response and response to follow up questions and preparation for requested meeting.
  - Meeting currently set for Saturday with Congress people in Salem
    - EPA will be attending
    - Rhonda Kaetzel from ATSDR will attend
    - Forest Service will also attend
- Facility Specifics:
  - Both –
    - OR will be negotiating Mutual Agreement and Orders. They are hoping to have these done quickly (week or two). Unsure if they will cover control installation or just cessation of use of metals for now.
    - ODEQ requested technical support on solutions here including testing and controls (how to get these guys back into operation while protecting human health). Asked us to connect with George Davis on these issues.
  - Bullseye –
    - Confirmed that Bullseye has agreed to stop using trivalent chromium.
    - Bullseye has requested a meeting Friday with ODEQ to discuss chromium use. David Monro from ODEQ requested technical support for this conversation – I put him in contact with the experts from RTP. He is also interested in discussing chromic acid.
  - Uroboros – Submitted sample records to EPA and corresponded with Katie McClintock today about the sufficiency of the records and the remaining responses. They are working quickly on a complete response (despite their limited resources).
  - Spectrum –
    - Inspection tomorrow – PSCAA, EPA and ATSDR
    - Will discuss monitors with PSCAA afterwards. Whether the plant is well controlled or not, the ambient monitoring data would be useful to demonstrate

best case or support future action.

- Other glass companies:
  - OAQPS, OECA and Region 10 worked together and have a working list of companies in color/art glass. We found 7 large companies we are sure of and 4 potential plants. List is on onedrive. The initiative is more difficult because many of these aren't on our usual screening systems (TRI, etc)
  - Investigate whether we can look at moss around Spectrum for historical emissions levels.
  - Currently discussing EPA next steps with these other plants. HQ is setting up a conference call with relevant regions and will share draft 114 with them.
- Other Metals Sources
  - Forest service released arsenic hot spots and shows other places without glass plants. Should look into this.
  - Can we use other moss studies to get a better picture of Portland or Seattle areas?
  - ODEQ still very interested in us investigating other sources of chromium and other metals. Katie McClintock working with ODEQ's Jaclyn Palermo.
- Complaint Response
  - Tony Barber has volunteered to be the point of contact for responding to citizen emails. He will follow get support from Judy Smith in tracking and responding to these emails.

Ex. 5 - Deliberative Process

- New Documents on the share:
  - Contact list for involved people and their roles
  - Kate Brown correspondence with DEQ
  - Wyden letters
  - Glass Company target list and maps
  - Information on OR Air Toxics Program and the benchmarks
  - Cadmium map from forest service – includes locations of close schools and Uroboros and Bullseye
- Looking for updates on:
  - Soil sampling – Plan was to complete by end of the week.
  - Air monitoring in DEQ – sampling plan and plans for results (I think report said 4 weeks from now).
- Contact list for people involved:
  - Region 10:
    - Marianne Holsman – Press
    - Ed Kowalski – Director, Office of Compliance and Enforcement
    - Jan Hastings – Director, Office of Air Waste and Toxics
    - Tony Barber – Oregon Operations Office Director
    - Dave Bray – Advisor to Director of Office of Air Waste and Toxics
    - Katie McClintock – Enforcement Officer, main contact
    - Zach Hedgpeth – Inspector and technical consultant

        - Madonna Narvaez – Regional air toxics coordinator
        - Chris Hall - monitoring
        - Julie Matthews – Attorney lead
        - Kris Leefers – Assigned attorney
        - Scott Downey – Enforcement Manager
        - Judy Smith – Press contact in Oregon Operations Office
    - OECA
        - Scott Throwe – OC, looking at 6S applicability
        - Greg Fried – Stationary source air enforcement manager
        - Sara Froikin – Attorney assigned to this project
        - Kathryn Caballero – Attorney in OECA with 303 experience
    - RTP
        - Keith Barnett – group leader for rule writing
        - Susan Fairchild – Writer of glass manufacturing rules
        - Kristen Benedict – acting group leader for NEI and TRI
        - Anne Pope – modeling
        - Madeleine Strum – emissions inventory group
        - Lewis Weinstock – group leader of ambient air monitoring – helping with study around bullseye
        - Kelly Rimer – group leader for air toxics
        - Ted Paler – colead on nata
        - Mike Kerber – Point person beneath Janet McCabe
    - OR
        - David Monro – Manager of permits/enforcement
        - Jaclyn Palermo – Staff working on identifying other sources
        - Greg Grunow – Permit writer for Bullseye and Uroboros
        - George Davis – Senior engineer consulting on resolution for both sources
        - Nina DeConcini – NW Regional Office Director
        - Sarah Armitage – Toxics contact
        - Dick Pederson – ODEQ Director

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From: McClintock, Katie
Sent: Tue 2/16/2016 4:16:14 AM
Subject: Daily Updates for Color Glass
Daily update 2-13-16.docx
Daily Update 2-15-16.docx

I am attaching the daily updates for the weekend, but you can also find them below. In future I plan to not email but I want to make sure this works for everyone first. I am not sending this directly to Michelle, Dennis, Janet or Cynthia, but they all have access to the folder.

Ex. 6 - Personal Privacy

Color Glass – Daily update 2/13/16

Enforcement Confidential

New info based on:

- Katie McClintock talked to Dave Monro 11:00 am 2-13
- New press articles
- Conversation with Greg Fried in OECA Air Enforcement Division 12:00 pm 2-12
- New Research

1. Bullseye Glass
    a. Met with ODEQ and Oregon DOJ (Paul Garrahan) on Friday.
    b. They agreed to stop using hex chromium but not trivalent chromium. Each year, they estimate they used 2000 lbs of hexavalent chromium and additional trivalent chromium.
    c. State said that did not alleviate all of their concerns because trivalent can be converted to hexavalent at the temperatures in their furnace (according to Oregon live article the state doesn't think they can compel them)
    d. Bullseye has a lot of attorneys involved but still wants to do right thing – owners were in tears Friday.
2. Uroboros
    a. Was only using hex chromium (no trivalent). Agreed to stop using. Between cadmium and chromium, it is 2/3 of product. Indicated they will likely shut down.
    b. Less sophisticated, but this company still is large on the world stage (along with companies below).
    c. OR looking into small business funding including low interest grants and technical support, assuming they qualify.
3. Oregon next steps
    a. DEQ and OHA are setting up an incident command center. I think the plan is to have some coordination with EPA on this. Dave Monro, who has been running point will be able to focus on solutions.
    b. Looking to enter into Mutual Agreement and Orders (MAOs) with both Bullseye and Uroboros. They cannot compel them to sign the agreement, but if signed, is an enforceable order with stips and deadlines. Dave thinks both are willing to enter this. They are not interested in us coming in with 303 or 114 at this point.
    c. Oregon has not asked for verification that Bullseye or Uroboros have stopped using arsenic, cadmium, and chromium but asked me to reach out to their permit engineers about how to do this.
    d. Any order would likely include allowing operation for short periods with these chemicals so they can conduct a stack test. Since each melt is 24 hours, it would mean 24 hours of potential emissions.
    e. Oregon asked for any support on testing/controls from OAQPS. Asked us to connect them to George Davis and Greg Grunow (permit engineers)
4. Spectrum
    a. Inspecting on Wednesday 2/16 with Puget Sound's permit writer and inspector. Zach Hedgpeth, Katie Owens, and Katie McClintock from EPA will be going.

   b. Spectrum also has a partnership with Uroboros called System 96 which is listed as being in Woodinville and sells many products under that company name worldwide. We will need to inspect this source as well if not at the same location as Spectrum. The co-ownership may be complicated and will likely need company records.
   c. Puget sound will consider monitoring afterwards.
   d. We will either go with a list of questions like Bullseye and Uroboros or a formal information request if it is decided that is better on Tuesday.

5. Other color glass – with the help from HQ (Sara Froikin) I think we have identified the 8 major color glass companies (In addition to Spectrum, System 96, Bullseye and Uroboros)
   a. Kokomo (Indiana), Wissmach (West Virginia), Youghiogheny (Pennsylvania) and Armstrong (Georgia). My memory is the Bullseye and Uroboros mentioned a competitor in Ohio but I don't see another large company, but we will keep looking.
   b. This weekend I will prepare a 114 based on the questions we asked and the records we asked for at Uroboros and Bullseye. Will aim to get it approved and sent out from HQ as soon as possible. Hopefully mid-late the week of the 15th.
   c. HQ will organize a conference calls with the main regions: Regions 3, 4, 5, 10. We have worked with glass contacts on the larger manufacturers so we have a technical base to work from.
6. Other metals/chromium
   a. Oregon asked for support in tracking down these issues elsewhere, especially regarding chromium.
   b. Larger glass plants – They were told the large manufacturer Owens-Brockway in Portland uses chromium (common green colorant and Owens makes beer bottles, so make sense).
   c. Other operations. Dave talked about tracking suppliers and we discussed using 114s to get information about who is using hexavalent chromium. I will start looking into this with HQ help as well.
7. Press
   a. OBP piece yesterday - https://soundcloud.com/opb-state-of-wonder/latest-on-bullseye-uroboros-emissions
   b. Chromium article today - http://www.oregonlive.com/environment/index.ssf/2016/02/bullseye_uroboros_chromium_hea.html
   c. Our desk statement went out.
8. Monitoring
   a. I told Dave we were sending monitors but he wasn't aware of it. They welcome the support. Without speciated chromium hard for them to require them to stop using trivalent.
9. Other
   a. I am using a one-drive account to organize all the files and post these daily updates based on any new information. My hope would be we could reduce email and I will always keep the share up to date (and press and others can as well) so that all information is accessible. I've invited a wide swatch of people but please let me know if I should invite others. If this format doesn't work, also let me know.

Color Glass – Daily update 2/13/16

Enforcement Confidential

Next Steps:

Katie – Write 114 for color glass manufacturers

Katie/Zach/Madonna – Connect technical folks in HQ with Greg and George

Katie and HQ – Research chromium distributers and try to prepare a 114 for Region 10 immediately.

Color Glass - Daily Update 2-15-16

Enforcement Confidential

- Email From Uroboros 2-15-16
    - Eric Lovell, president of Uroboros emailed in the afternoon of 2/15. His email was sent to Katie McClintock and David Monro (DEQ). A copy is on the share drive.
    - He states that he is accumulating the information EPA asked for on their inspection.
    - He asked for information to substantiate our belief that Uroboros is emitting chromium, cadmium or other metal vapors. He assumed we were relying on tests in order to direct them to suspend use of the chemicals. He asked for the studies and specific information about those studies.
    - He said that there is no evidence they emit any hexavalent chromium, but they have suspended the use.
    - Between chromium and cadmium, it is 2/3 of their production.
    - He started laying off people of 2/15.
    - Final statement: "If the goal is to shut us down without ever determining if we actually emitted or not, feel free not to reply. If you want to participate in a solution for the situation, provide me the data and reports you must have access to so I can study and learn from them, in the hopes of finding a solution quicker."
    - We need to coordinate with Oregon and determine what kind of answer is appropriate.
    - Note: There isn't a lot of data that I can find about emissions from color glass furnaces, even other regulatory organizations like the EU don't seem to focus on color glass. We may find more in our search and as we inspect others, but most of our current response is based on monitored ambient conditions outside Bullseye Glass.
- Email from Bullseye 2-13-16
    - Bullseye was supposed to send some records by late Friday but contacted my Saturday to say the meetings with DEQ on Friday about chromium had slowed this down.
    - I reprioritized our data request and asked that he send us the high material by COB Wednesday and the remaining information two weeks later. He confirmed that he would send me some information Wednesday (did not explicitly say it will be all that I requested).
- Other larger color glass companies
    - Discovered that all but one of the other glass companies are located in residential areas or within ¼ mile of a school or both.
    - Recommending to HQ that we contact the other 4 companies not in Region 10 immediately.
    - Drafted a 114 to send to these other manufacturers, but we may conduct phone calls or inspections to get information quicker.
    - Also recommended ambient monitor installation (especially in light of the fact that glasses containing chromium and cadmium are such a large fraction of total production).
- Region 10 has a smaller glass color manufacturer in Fremont. Will try to inspect soon to see the magnitude of their operations. If this size of plant presents a problem, the universe will be much larger. May be worth monitoring here as well.
- Seeking assistance from OAQPS for a hexavalent chromium expert. I did a cursory search for information on the conversion of trivalent chromium to hexavalent chromium and found little information, all of which was talking about smelting and coating. The research confirmed that

the use of trivalent chromium alone can still produce hexavalent chromium, but found little data on the conversion rate under various circumstances. We need to develop or find an expert who can read more literature and help interpret the data we find in stack tests and ambient monitoring.

To: Narvaez, Madonna[Narvaez.Madonna@epa.gov]; McClintock, Katie[McClintock.Katie@epa.gov]; Hedgpeth, Zach[Hedgpeth.Zach@epa.gov]; Bray, Dave[Bray.Dave@epa.gov]; Hall, Chris[Hall.Christopher@epa.gov]; Downey, Scott[Downey.Scott@epa.gov]
Cc: McLerran, Dennis[mclerran.dennis@epa.gov]; Holsman, Marianne[Holsman.Marianne@epa.gov]; Pirzadeh, Michelle[Pirzadeh.Michelle@epa.gov]; Kowalski, Ed[Kowalski.Edward@epa.gov]
From: Hastings, Janis
Sent: Fri 2/12/2016 10:47:49 PM
Subject: following up on next steps with Spectrum

Hi, everyone. I talked with Steve Van Slyke and Carole Cenci at Puget Sound Clean Air today. They are aware of the issues in Portland and contaminants of concern. Before setting up monitors, they want to do the inspection to confirm what materials are being added to the process there and how much, and consider what might be the impacts offsite. They need this information to design an effective monitoring study. I talked this over with Zach and Katie, and it sounds reasonable. This makes the inspection the immediate priority with a specific monitoring strategy that could follow quickly.

On Wed we will know the key contaminants we are concerned about and whether the process is significantly different from the other facilities. If it's similar, then we will be concerned about similar impacts. (Carole says Spectrum doesn't use arsenic.)

Jan

From: Andrew Green [mailto:AndrewG@pscleanair.org]
Sent: Friday, February 12, 2016 11:22 AM
To: Hastings, Janis <Hastings.Janis@epa.gov>; Hunt, Jeff <Hunt.Jeff@epa.gov>
Cc: Carole Cenci <CaroleC@pscleanair.org>; Steve Van Slyke <SteveV@pscleanair.org>
Subject: Spectrum

Hi Jan; thank you for the message and I hope all is well with you.

Carole Cenci or Steve Van Slyke will call you back, likely later today.

(It's true that monitoring would fall into the Kathy Strange/Andrew Green corner of our organization, but we also know we're operating in a larger context run by the Carole

Cenci/Steve Van Slyke corner of our organization and they're probably better positioned to give you the fuller context. At this point all Kathy and I know is that Carole has scheduled a meeting with us in about a week...)

A.

To: Koprowski, Paul[Koprowski.Paul@epa.gov]; Bray, Dave[Bray.Dave@epa.gov]; McClintock, Katie[McClintock.Katie@epa.gov]; Hastings, Janis[Hastings.Janis@epa.gov]; Hall, Chris[Hall.Christopher@epa.gov]; Elleman, Robert[Elleman.Robert@epa.gov]; Hedgpeth, Zach[Hedgpeth.Zach@epa.gov]; Wroble, Julie[Wroble.Julie@epa.gov]
From: Narvaez, Madonna
Sent: Fri 2/12/2016 7:03:02 PM
Subject: Re: Monitoring and analysis plan for metals assessment around Bullseye Glass

Paul, is Chris working on the monitoring equipment request? I can contact Dave Shelow in OAQPS to see if they have an Xact sampler we can borrow.

Madonna Narvaez

Sr. Air Toxics Advisor

USEPA, R10

1200 Sixth Ave., Ste 900

MC: AWT-107

206.553.2117 - phone
206.553.0110 - fax

From: Koprowski, Paul
Sent: Friday, February 12, 2016 8:36 AM
To: Bray, Dave; McClintock, Katie; Hastings, Janis; Hall, Chris; Elleman, Robert; Hedgpeth, Zach; Narvaez, Madonna; Wroble, Julie
Subject: FW: Monitoring and analysis plan for metals assessment around Bullseye Glass

Anthony Barnack delivered with some bullets and a monitoring plan. I also asked him to tell us if he has any needs and he provided a list at the end of this message.

Paul

Paul Koprowski

U.S. EPA; Oregon Operations Office

805 SW Broadway, Suite 500

Portland, Oregon 97205

(503) 326-6363

From: BARNACK Anthony [mailto:BARNACK.Anthony@deq.state.or.us]
Sent: Thursday, February 11, 2016 4:57 PM
To: Koprowski, Paul <Koprowski.Paul@epa.gov>
Subject: Monitoring and analysis plan for metals assessment around Bullseye Glass

Paul,

I have attached the draft plan.

The summary is:

PM10 metals- 6am to 6pm every day for two weeks at:

- Day Care, Powell Park (Fred Meyer parking lot), Winterhaven Elementary, and NW of Bullseye.

PM10 metals 6am to 6pm every day for two weeks near N. Portland Glass manufacturer. We are still working on this location.

Immediate analysis of filters after one or two weeks. Then further either go to 24 hour samples every third day, 24 hour samples every 6th day, or discontinue some of the sites.

Hexavalent Chrome – 6 am Every day for two weeks

- Day Care, Powell Park

E-Sampler continuous sampler Nephelometer at the Daycare

Met – Two met stations near bullseye. One met station near N. Portland Glass manufacturer, one met station near PCC.

Our needs are:

We need about 4 PM10 plus HI volume samplers

We need about 200 Hi Volume Quartz filters. The shipment is delayed due to a quality control issue.

EPA may want to bring back the XACT sampler if they are interested.

Temporary cyclone fencing.

To: Bray, Dave[Bray.Dave@epa.gov]; McClintock, Katie[McClintock.Katie@epa.gov]; Hastings, Janis[Hastings.Janis@epa.gov]; Hall, Chris[Hall.Christopher@epa.gov]; Elleman, Robert[Elleman.Robert@epa.gov]; Hedgpeth, Zach[Hedgpeth.Zach@epa.gov]; Narvaez, Madonna[Narvaez.Madonna@epa.gov]; Wroble, Julie[Wroble.Julie@epa.gov]
From: Koprowski, Paul
Sent: Fri 2/12/2016 4:36:50 PM
Subject: FW: Monitoring and analysis plan for metals assessment around Bullseye Glass
Monitoring and analysis plan for metals assessment around Bullseye Glass.docx

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Temporary cyclone fencing.

Monitoring and analysis plan for metals assessment around Bullseye Glass.

Introduction

Method

Sampling locations

Sampling will be done in four directions emanating from Bullseye Glass. The Samplers will be place near areas where children play. Children are especially susceptible to air toxics because they run around more causing them to breathe more air and they are still growing and developing.

The three sites near children's play areas are near the Powell Park field across from Cleveland High School, near Winterhaven Elementary School, and at the Daycare just south of the Fred Meyers Head Quarters building. A fourth site will be set up to the northwest of Bullseye to capture the pollutants going over the business district. Wind data collected in October showed most of the elevated days occurred when the wind was blowing from the SE to the NW. This site will capture those samples.

A proposed sampling map for metals monitoring near Bullseye Glass.

Start dates –

Site Timing
Daycare started on Feb 9th running 6am to 6pm samples.
Fred Meyer parking lot or next door at Powell Park. Awaiting power drop - This will start 2/17.
Winterhaven is waiting on power from the City or Portland Parks 2/17.
Site to the North can start on Feb 12th.
Met sites all ready operational at Reed College and next to Bullseye.

Sampling methods

PM10 Metals

DEQ is going to use two methods to collect data around Bullseye because of equipment limitations and difficulty getting power to some of the sites. DEQ has low volume (LV) BGI samplers and Low volume Air Metrics (16.7lpm) samplers which run on battery power. These will be deployed in areas where we can't get power to run the Hi Volume samplers.
The LV method uses the EPA School Air Toxics metals low volume (LV) sampler method with flow of 16.7LPM. The filter media is Teflon and the analysis is done using ICP-MS.

The HV method is EPA TO-15 which uses a Hi-Volume (HV) sampler (40 cfm) to collect samples from midnight to midnight at 40 cfm. The filter media is quartz. The analysis is done using ICP-MS. This is a NATTS TAD method.

Both methods are EPA approved methods but may result in slightly different measurements. A collocated site will help us tie these two methods together to see how well they agree. The HV method is also used at three other sites in Portland.

TSP Hexavalent Chrome

DEQ will deploy a 15lpm, flow controlled sampler (BGI sampler) with a Chrome 6+ sampler. This is a NATTS TAD method.

Continuous sampling

DEQ will also deploy a portable Met One E-Sampler (nephelometer) to track diurnal patterns. This will show when most of the particulate is occurring. This will be deployed at the daycare.

Meteorology

DEQ will also include wind speed and wind direction met stations that sit on top of roof tops. Met One 010 Wind Speed sensor, O20 Wind direction, with Campbell data logger.

Sampling Calendar.

Daycare schedule:

February						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1	2	3	4 Prep samplers	5 Set up site, set up sample, Audit sampler	6
7 Primary 2 Tentative start	8 Sample 6am to 6pm for DHS	9 Sample 6am to 6pm for DHS	10 Sample 6am to 6pm for DHS	11 Sample 6am to 6pm for DHS	12 Sample 6am to 6pm for DHS	13 Sample 24 hrs for DEQ
14 Sample 24 hrs for DEQ	15 Sample 6am to 6pm for DHS	16 Sample 6am to 6pm for DHS + field blank	17 Sample 6am to 6pm for DHS	18 Sample 6am to 6pm for DHS	19 Sample 6am to 6pm for DHS	20 Sample 24 hrs for DEQ
21 Sample 24 hrs for DEQ	22 Set up and retrieve sample	23	24 Primary 1 & 2	25 Set up and retrieve sample	26	27 Sample 24 hrs for DEQ
28 Set up and retrieve sample	29 Set up and retrieve sample	**1-Mar** Sample 24 hrs for DEQ	2 **Follow EPA 1/6 schedule going forward**	3	4	5

Winterhaven, Fred Meyer Parking lot, and NW site schedule.

February						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1	2	3	4 Prep samplers	5 Set up site, set up sample, Audit sampler	6
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From: Hedgpeth, Zach
Sent: Fri 2/12/2016 4:12:11 PM
Subject: RE: briefing paper for tomorrow
Dennis Briefing Glass-zth.docx

Just a few suggestions…

Zach Hedgpeth, PE

206-553-1217

From: McClintock, Katie
Sent: Thursday, February 11, 2016 9:00 PM
To: Bray, Dave <Bray.Dave@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; Hedgpeth, Zach <Hedgpeth.Zach@epa.gov>; Koprowski, Paul <Koprowski.Paul@epa.gov>; Downey, Scott <Downey.Scott@epa.gov>; Hastings, Janis <Hastings.Janis@epa.gov>; Kowalski, Ed <Kowalski.Edward@epa.gov>
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Katie McClintock

Air Enforcement Officer

EPA Region 10

1200 Sixth Avenue, Suite 900, OCE-101

Seattle, WA 98101

Phone: 206-553-2143

Fax: 206-553-4743

Mcclintock.katie@epa.gov

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From: Holsman, Marianne
Sent: Fri 2/12/2016 4:03:31 PM
Subject: Fw: FYI

FYI, folks. See below. Alison in OAQPS is helping get responses to a list of questions from Oregon Public Broadcasting reporter, Cassandra Profita. See note below and excerpt from a Portland Mercury story re: the use of the "baghouses" at the two facilities.

From: Davis, Alison
Sent: Friday, February 12, 2016 7:34 AM
To: Holsman, Marianne
Subject: FYI

Cassandra also sent us this last night – just passing along. You have probably already seen it.

This was reported in one of our alt weekly papers, and it would be good to get some clarification. It doesn't look like they talked with anyone at the EPA, but they are attributing some information about the effectiveness of "baghouse" pollution controls to your agency:

http://www.portlandmercury.com/BlogtownPDX/archives/2016/02/09/essential-pollution-controls-lacking-at-two-glass-plants-blamed-for-cadmium-emissions

"THE SOUTHEAST PORTLAND glass studio that state environmental regulators believe emitted two toxic carcinogens for years or decades doesn't use a crucial pollution control device on its furnaces. And it's not the only glass factory in town to omit the safety equipment

The *Mercury* has learned that neither Bullseye Glass, 3722 SE 21st, nor its cross-town competitor Uroboros Glass Studio, 2139 N Kerby, have "baghouse" pollution control devices installed on their glass melt furnaces—even as they employ the devices in other parts of their operations. A DEQ official confirmed Bullseye didn't have a device on its glass furnace. Uroboros's owner confirmed the same about his company.

The lack of the controls—which the US Environmental Protection Agency says can catch nearly 100 percent of harmful particulates—makes it easy to see why regulators now suspect both outfits have been releasing vaporized cadmium into the air surrounding their factories."

Alison Davis

Senior Advisor for Public Affairs

US EPA, Office of Air Quality Planning & Standards

Research Triangle Park, NC 27711

Desk: 919-541-7587

Mobile: 919-624-0872

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Cc: Hedgpeth, Zach[Hedgpeth.Zach@epa.gov]; Downey, Scott[Downey.Scott@epa.gov]
From: MONRO David
Sent: Fri 2/12/2016 3:10:02 PM
Subject: RE: MSDS is available at this site...

I just had another meeting scheduled for 830, can we do 9 instead?

Please excuse any brevity, grammar or spelling as this was sent with a mobile.

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Date: 02/11/2016 8:36 PM (GMT-08:00)
To: MONRO David <MONRO.David@deq.state.or.us>, KOPROWSKI Paul <Koprowski.Paul@epa.gov>, "Wroble, Julie" <Wroble.Julie@epa.gov>, GRUNOW Greg <GRUNOW.Greg@deq.state.or.us>, "Narvaez, Madonna" <Narvaez.Madonna@epa.gov>, "Bray, Dave" <Bray.Dave@epa.gov>
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Sent: Fri 2/12/2016 5:00:03 AM
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Dennis Briefing Glass.docx

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Cc: Hedgpeth, Zach[Hedgpeth.Zach@epa.gov]; Downey, Scott[Downey.Scott@epa.gov]
From: MONRO David
Sent: Fri 2/12/2016 4:42:48 AM
Subject: RE: MSDS is available at this site...

830

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Sent: Fri 2/12/2016 4:23:12 AM
Subject: RE: MSDS is available at this site...

Looks to me like these compounds (sodium dichromate and potassium dichromate) are both hex 6 compounds, so all chromium used at uroboros is chromium 6 which does not bode well for the emissions at Harriet tubman. We don't yet know the relative quantities used and Uroboros was much less sophisticated (I'm sure that was clear to you all too) and very understaffed and had serious concerns about their ability to collect records. Their owner is also going on a long planned family vacation tomorrow for two weeks. Please let me know how hard you want me to push them on producing records such as batch tickets over the last 5 months (which will give us some idea of frequency). They can also give us purchase records for the chromium compounds, but we didn't ask for that at this point. They were ask to directly send duplicates to Dave Monro (we didn't know Greg was assigned at that point). One last interesting note about uroboros is that they said they rarely melt leaded glass (twice a year was his estimate), but the gas is so corrosive he has to bypass he recuperators to avoid damaging them. I can't even imagine how bad the ambient lead levels are during those melts.

Thanks Dave and Greg for your flexibility this morning in us going out. We thought of going last minute (the idea struck me at 7am Thursday) but thought it was very beneficial to see the relative difference in sizes and sophistication of the facilities. Please let me know if there is any more inspection download you want on either source from us. We appreciate your help and are here if you need anything from us.

Katie

From: Koprowski, Paul
Sent: Thursday, February 11, 2016 1:16 PM
To: Wroble, Julie <Wroble.Julie@epa.gov>; grunow.greg@deq.state.or.us; David Monro (MONRO.David@deq.state.or.us) <MONRO.David@deq.state.or.us>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; Bray, Dave <Bray.Dave@epa.gov>
Cc: McClintock, Katie <McClintock.Katie@epa.gov>; Hedgpeth, Zach <Hedgpeth.Zach@epa.gov>
Subject: MSDS is available at this site...

https://www.sciencelab.com/page/S/CTGY/10403

This is the company where Uroboros got the products from.

Paul

Paul Koprowski

U.S. EPA; Oregon Operations Office

805 SW Broadway, Suite 500

Portland, Oregon 97205

(503) 326-6363

To: McClintock, Katie[McClintock.Katie@epa.gov]; Bray, Dave[Bray.Dave@epa.gov]; Koprowski, Paul[Koprowski.Paul@epa.gov]
From: Narvaez, Madonna
Sent: Thur 2/11/2016 10:20:59 PM
Subject: RE: anyone have a briefing paper started for the ra for the bullseye (etc) issue?

Katie, as for assistance we're giving DEQ, please add that we are shipping overnight 2 BGI monitors similar to the ones DEQ used in their screening monitoring to ODEQ.

From: McClintock, Katie
Sent: Thursday, February 11, 2016 2:07 PM
To: Bray, Dave <Bray.Dave@epa.gov>; Koprowski, Paul <Koprowski.Paul@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>
Subject: anyone have a briefing paper started for the ra for the bullseye (etc) issue?

I just started working on one since we might brief him this afternoon but didn't want to start from scratch if someone else has beat me to the punch.

Katie McClintock

Air Enforcement Officer

EPA Region 10

1200 Sixth Avenue, Suite 900, OCE-101

Seattle, WA 98101

Phone: 206-553-2143

Fax: 206-553-4743

Mcclintock.katie@epa.gov

To: McClintock, Katie[McClintock.Katie@epa.gov]; Bray, Dave[Bray.Dave@epa.gov]; Koprowski, Paul[Koprowski.Paul@epa.gov]
From: Narvaez, Madonna
Sent: Thur 2/11/2016 10:10:23 PM
Subject: RE: anyone have a briefing paper started for the ra for the bullseye (etc) issue?

No, I haven't. We could start from the desk statement, you think, Dave?

From: McClintock, Katie
Sent: Thursday, February 11, 2016 2:07 PM
To: Bray, Dave <Bray.Dave@epa.gov>; Koprowski, Paul <Koprowski.Paul@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>
Subject: anyone have a briefing paper started for the ra for the bullseye (etc) issue?

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Seattle, WA 98101

Phone: 206-553-2143

Fax: 206-553-4743

Mcclintock.katie@epa.gov

To: Bray, Dave[Bray.Dave@epa.gov]; Koprowski, Paul[Koprowski.Paul@epa.gov]; Narvaez, Madonna[Narvaez.Madonna@epa.gov]
From: McClintock, Katie
Sent: Thur 2/11/2016 10:06:40 PM
Subject: anyone have a briefing paper started for the ra for the bullseye (etc) issue?

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Phone: 206-553-2143

Fax: 206-553-4743

Mcclintock.katie@epa.gov

To: Bray, Dave[Bray.Dave@epa.gov]; Narvaez, Madonna[Narvaez.Madonna@epa.gov]; McClintock, Katie[McClintock.Katie@epa.gov]
From: Koprowski, Paul
Sent: Thur 2/11/2016 4:49:58 PM
Subject: RE: Updated desk statement - please review

I 'd say both should be in on this and sooner rather than later. DEQ will probably be interested in your findings as well and I would assume would also want to bring an enforcement case if they knew of a discrepancy.

Do you want me to bring this issue to their attention?

Paul

Paul Koprowski
U.S. EPA; Oregon Operations Office
805 SW Broadway, Suite 500
Portland, Oregon 97205
(503) 326-6363

-----Original Message-----
From: Bray, Dave
Sent: Wednesday, February 10, 2016 5:11 PM
To: Narvaez, Madonna <Narvaez.Madonna@epa.gov>; Koprowski, Paul <Koprowski.Paul@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>
Subject: RE: Updated desk statement - please review

Ask DEQ or ask our enforcement folks to determine if they are in violation of the applicable NESHAP limit for units that might have been modified in the past?

This type of determination is the bread and butter of the enforcement side of our shop.

Dave

From: Narvaez, Madonna
Sent: Wednesday, February 10, 2016 5:06 PM
To: Bray, Dave; Koprowski, Paul; McClintock, Katie
Subject: RE: Updated desk statement - please review

We should ask DEQ about that.

-----Original Message-----
From: Bray, Dave
Sent: Wednesday, February 10, 2016 4:54 PM
To: Narvaez, Madonna <Narvaez.Madonna@epa.gov>; Koprowski, Paul <Koprowski.Paul@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>
Subject: RE: Updated desk statement - please review

Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process

Dave

From: Narvaez, Madonna
Sent: Wednesday, February 10, 2016 4:41 PM
To: Bray, Dave; Koprowski, Paul; McClintock, Katie
Subject: RE: Updated desk statement - please review

Ex. 5 - Deliberative Process

-----Original Message-----
From: Bray, Dave
Sent: Wednesday, February 10, 2016 3:42 PM
To: Koprowski, Paul <Koprowski.Paul@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>
Subject: RE: Updated desk statement - please review

Hi guys,

Ex. 5 - Deliberative Process

The 2011 Review Report described the facility as follows:

Existing air contaminant sources at the facility consist of the following:
a. A Torit baghouse collects PM emissions from the silos that feed into the batch room, installed 2000. Collected material is reused in the process.
b. 14 tank furnaces (1-9 and 11-15), natural gas fired with propane back-up; cumulative operating capacity of885lb/hr and 2,700 ton/yr, 16,625 ft3/hr.
c. 2 pot furnaces (10 & 17), natural gas fired with propane back-up; cumulative operating capacity of35lb/hr and 100 ton!yr, 475 ft3/hr d. New capacity is expected from the installation of new furnaces (18-20) or expanding the existing capacity of existing equipment. Anticipated cumulative capacity is 115 lb/hr and 350 ton/yr. This equipment will also be fired on natural gas with propane back-up and combust 3,800 ft3/hr.
e. Total fuel usage is estimated at 171 million ft3 /yr.

And also notes:

In 2006, the process was changed to allow the infusion of liquid oxygen into the furnaces during the melting process in lieu of ambient air. This change in process lowered NOx emissions by roughly 40% for each retrofitted furnace. The change is made to the various furnaces during scheduled downtime (once every two years).

Dve

From: Koprowski, Paul
Sent: Wednesday, February 10, 2016 1:12 PM
To: Smith, Judy; Holsman, Marianne; Bray, Dave
Subject: RE: Updated desk statement - please review

A couple of suggestions below(highlighted.

Paul

Paul Koprowski
U.S. EPA; Oregon Operations Office
805 SW Broadway, Suite 500
Portland, Oregon 97205
(503) 326-6363

From: Smith, Judy
Sent: Wednesday, February 10, 2016 12:02 PM
To: Koprowski, Paul <Koprowski.Paul@epa.gov>; Holsman, Marianne <Holsman.Marianne@epa.gov>; Bray, Dave <Bray.Dave@epa.gov>
Subject: Updated desk statement - please review
Importance: High

In this version I significantly modified the "what is EPAs role" section. It needs vetting by the three of you. Dave - Marianne checked with Ed Kowalski regarding the inspection statement, but I speculated on the enforcement statement at the end of the sentence. - Judy

Desk Statement: SE Portland Metals Contamination

February 10, 2016

Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process

To: Bray, Dave[Bray.Dave@epa.gov]
From: McClintock, Katie
Sent: Thur 2/11/2016 3:31:49 PM
Subject: RE: EPA Bullseye Glass Inspection 2/10/16 - Brief download - Enforcement Confidential

Shoot, I hadn't seen that email. I had tried to catch all the bullseye related ones. I hadn't thought that far into it. My goal was to look at data now and figured I could sort the rest out later. Thanks for bringing that too my attention.

Katie

-----Original Message-----
From: Bray, Dave
Sent: Thursday, February 11, 2016 12:07 AM
To: McClintock, Katie <McClintock.Katie@epa.gov>
Subject: RE: EPA Bullseye Glass Inspection 2/10/16 - Brief download - Enforcement Confidential

Thanks Katie.

I doubt that you've had a chance to read my emails to you about Subpart N.

Ex. 5 - Deliberative Process

Dave

From: McClintock, Katie
Sent: Wednesday, February 10, 2016 11:47 PM
To: Narvaez, Madonna; Koprowski, Paul; Wroble, Julie; Hedgpeth, Zach; Downey, Scott; Fairchild, Susan; Smith, Judy; Elleman, Robert; Bray, Dave; Dossett, Donald; Franklin, Richard; Dagseth, Renee; Moon, Wally; McArthur, Lisa; Leefers, Kristin; Skadowski, Suzanne; Schuster, Cindy
Cc: Kowalski, Ed; Hastings, Janis
Subject: EPA Bullseye Glass Inspection 2/10/16 - Brief download - Enforcement Confidential

Note: This email is being sent to all epa contacts I have for bullseye including upper management so let's not respond a ton to this list, but I wanted you to all have access to the inspection we did late this afternoon. Paul Koprowski, can you please forward to anyone I missed? We intended it to be announced but because of technical and other glitches, it was unannounced.

Bullseye Inspection Initial (brief-ish) Summary: Enforcement Confidential
Date: 2/10/16, Time 4:00 – 6:00 pm
Inspectors: Zach Hedgpeth (EPA), Katie McClintock (EPA), Greg Grunow (DEQ)

Quick overview of facility and inspection notes:

Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process

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Katie McClintock
Air Enforcement Officer
EPA Region 10
1200 Sixth Avenue, Suite 900, OCE-101
Seattle, WA 98101
Phone: 206-553-2143
Fax: 206-553-4743
Mcclintock.katie@epa.gov

To: Narvaez, Madonna[Narvaez.Madonna@epa.gov]; Koprowski, Paul[Koprowski.Paul@epa.gov]; Wroble, Julie[Wroble.Julie@epa.gov]; Hedgpeth, Zach[Hedgpeth.Zach@epa.gov]; Downey, Scott[Downey.Scott@epa.gov]; Fairchild, Susan[Fairchild.Susan@epa.gov]; Smith, Judy[Smith.Judy@epa.gov]; Elleman, Robert[Elleman.Robert@epa.gov]; Bray, Dave[Bray.Dave@epa.gov]; Dossett, Donald[Dossett.Donald@epa.gov]; Franklin, Richard[Franklin.Richard@epa.gov]; Dagseth, Renee[Dagseth.Renee@epa.gov]; Moon, Wally[Moon.Wally@epa.gov]; McArthur, Lisa[McArthur.Lisa@epa.gov]; Leefers, Kristin[Leefers.Kristin@epa.gov]; Skadowski, Suzanne[Skadowski.Suzanne@epa.gov]; Schuster, Cindy[Schuster.Cindy@epa.gov]
Cc: Kowalski, Ed[Kowalski.Edward@epa.gov]; Hastings, Janis[Hastings.Janis@epa.gov]
From: McClintock, Katie
Sent: Thur 2/11/2016 7:47:43 AM
Subject: EPA Bullseye Glass Inspection 2/10/16 - Brief download - Enforcement Confidential

Note: This email is being sent to all epa contacts I have for bullseye including upper management so let's not respond a ton to this list, but I wanted you to all have access to the inspection we did late this afternoon. Paul Koprowski, can you please forward to anyone I missed? We intended it to be announced but because of technical and other glitches, it was unannounced.

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Date: 2/10/16, Time 4:00 – 6:00 pm

Inspectors: Zach Hedgpeth (EPA), Katie McClintock (EPA), Greg Grunow (DEQ)

Quick overview of facility and inspection notes:

Ex. 5 - Deliberative Process

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Katie McClintock

Air Enforcement Officer

EPA Region 10

1200 Sixth Avenue, Suite 900, OCE-101

Seattle, WA 98101

Phone: 206-553-2143

Fax: 206-553-4743

Mcclintock.katie@epa.gov

To: Bray, Dave[Bray.Dave@epa.gov]
From: McClintock, Katie
Sent: Thur 2/11/2016 6:56:23 AM
Subject: RE: USFS Study

Oh no, well yesterday we were at the public meeting until 11 and then I worked until 12:15 and started again at 7:30. So I think I'm doing my part. Haha. Tempting to go to sleep now, but this stuff is easier to do when I am fresh and wont' be able to do from a car tomorrow.

Sneak peek - no chromium in refractory according to bullseye (getting records). But is in raw materials if you didn't see that email.

-----Original Message-----
From: Bray, Dave
Sent: Wednesday, February 10, 2016 10:40 PM
To: McClintock, Katie <McClintock.Katie@epa.gov>
Subject: RE: USFS Study

And only 12 hours? I'm going on 16 hours now with no end in sight.

Dave

From: McClintock, Katie
Sent: Wednesday, February 10, 2016 10:28 PM
To: Bray, Dave; Narvaez, Madonna; Johnson, Steffan; Koprowski, Paul; Smith, Judy
Cc: Wroble, Julie; Hedgpeth, Zach; Weinstock, Lewis; Merrill, Raymond; Shappley, Ned
Subject: RE: USFS Study

Whoops, this is what I get when I work more than 12 hours a day ;). Yes, cadmium. I am working on a quick summary of what we learned on the inspection today too and will try to send out to the people I know are interested.

-----Original Message-----
From: Bray, Dave
Sent: Wednesday, February 10, 2016 10:27 PM
To: McClintock, Katie <McClintock.Katie@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; Johnson, Steffan <johnson.steffan@epa.gov>; Koprowski, Paul <Koprowski.Paul@epa.gov>; Smith, Judy <Smith.Judy@epa.gov>
Cc: Wroble, Julie <Wroble.Julie@epa.gov>; Hedgpeth, Zach <Hedgpeth.Zach@epa.gov>; Weinstock, Lewis <Weinstock.Lewis@epa.gov>; Merrill, Raymond <Merrill.Raymond@epa.gov>; Shappley, Ned <Shappley.Ned@epa.gov>
Subject: RE: USFS Study

Hi Katie,

Did you mean to say "cadmium" and arsenic products? I don't recall Bullseye saying anything about suspending the use of chromium.

Dave

From: McClintock, Katie
Sent: Wednesday, February 10, 2016 10:24 PM
To: Narvaez, Madonna; Johnson, Steffan; Koprowski, Paul; Smith, Judy
Cc: Wroble, Julie; Bray, Dave; Hedgpeth, Zach; Weinstock, Lewis; Merrill, Raymond; Shappley, Ned
Subject: RE: USFS Study

Ex. 5 - Deliberative Process

Katie

From: Narvaez, Madonna
Sent: Wednesday, February 10, 2016 8:36 AM
To: Johnson, Steffan <johnson.steffan@epa.gov>; Koprowski, Paul <Koprowski.Paul@epa.gov>; Smith, Judy <Smith.Judy@epa.gov>
Cc: Wroble, Julie <Wroble.Julie@epa.gov>; Bray, Dave <Bray.Dave@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Hedgpeth, Zach <Hedgpeth.Zach@epa.gov>; Weinstock, Lewis <Weinstock.Lewis@epa.gov>; Merrill, Raymond <Merrill.Raymond@epa.gov>; Shappley, Ned <Shappley.Ned@epa.gov>
Subject: RE: USFS Study

Thanks, Steff. **Ex. 5 - Deliberative Process** We/ODEQ used the Xact monitor to collect cadmium emissions during additional monitoring at the Harriet Tubman School as part of the School Air Toxics Monitoring Initiative. The detection level was too high to detect cadmium. I'll need to see what has changed since 2011.

From: Johnson, Steffan
Sent: Wednesday, February 10, 2016 4:55 AM
To: Narvaez, Madonna <Narvaez.Madonna@epa.gov<mailto:Narvaez.Madonna@epa.gov>>; Koprowski, Paul <Koprowski.Paul@epa.gov<mailto:Koprowski.Paul@epa.gov>>; Smith, Judy <Smith.Judy@epa.gov<mailto:Smith.Judy@epa.gov>>
Cc: Wroble, Julie <Wroble.Julie@epa.gov<mailto:Wroble.Julie@epa.gov>>; Bray, Dave <Bray.Dave@epa.gov<mailto:Bray.Dave@epa.gov>>; McClintock, Katie <McClintock.Katie@epa.gov<mailto:McClintock.Katie@epa.gov>>; Hedgpeth, Zach <Hedgpeth.Zach@epa.gov<mailto:Hedgpeth.Zach@epa.gov>>; Weinstock, Lewis <Weinstock.Lewis@epa.gov<mailto:Weinstock.Lewis@epa.gov>>; Merrill, Raymond <Merrill.Raymond@epa.gov<mailto:Merrill.Raymond@epa.gov>>; Shappley, Ned <Shappley.Ned@epa.gov<mailto:Shappley.Ned@epa.gov>>
Subject: RE: USFS Study

Madonna,

Thank you for reaching out to us.

First off, I need to ascertain that we are discussing stack emissions measurement, or if we are talking about ambient monitoring? I have copied Lew Weinstock who is our Ambient Air Monitoring Group Leader just in case the discussion is relevant to Reference ambient measurement methodology.

The Measurement Technology Group has a couple of different approaches for measurement of lead from stacks, as well as chromium. EPA Method 29 (multi-metals) is capable of measuring both lead and chromium, however it measures "total lead" and "total chrome" and will not provide a number for lead chromate as a species. If a hexavalent chromium number is needed from stack emissions, we turn to SW-846 0061, and this is the only technique we have to measure in-stack hex chrome emissions.

We are also aware of a technology, deployed to monitor fenceline lead emissions in the primary lead (smelters) rule, that works well for measurement of metals emissions. This is the XACT technology, manufactured by Cooper Environmental Services in, of all places, Portland, Or. http://cooperenvironmental.com/ambient-monitoring/ The measurement technology group has worked

with this group to develop and publish a guide for developing a multi-metals fence-line monitoring plan for fugitive metals emissions, known to us as OTM 31, available here:
http://www3.epa.gov/ttnemc01/prelim/otm31.pdf

So, if your need is to conduct in-stack emissions measurements, we have stack testing methodology we would recommend. If your need is for fenceline and fugitive emissions monitoring, we recommend the use of OTM 31 and Xact monitoring.

If the need is to establish an ambient network in surrounding neighborhood/area, I would hand you off to Lew and discuss ambient monitoring with his group.

With these things in mind, please consider the options I've laid out above and let us know if we can be of further assistance. We're happy to help you out wherever possible.

Stef

From: Narvaez, Madonna
Sent: Tuesday, February 09, 2016 7:17 PM
To: Koprowski, Paul <Koprowski.Paul@epa.gov<mailto:Koprowski.Paul@epa.gov>>; Smith, Judy <Smith.Judy@epa.gov<mailto:Smith.Judy@epa.gov>>
Cc: Wroble, Julie <Wroble.Julie@epa.gov<mailto:Wroble.Julie@epa.gov>>; Bray, Dave <Bray.Dave@epa.gov<mailto:Bray.Dave@epa.gov>>; Johnson, Steffan <johnson.steffan@epa.gov<mailto:johnson.steffan@epa.gov>>; McClintock, Katie <McClintock.Katie@epa.gov<mailto:McClintock.Katie@epa.gov>>; Hedgpeth, Zach <Hedgpeth.Zach@epa.gov<mailto:Hedgpeth.Zach@epa.gov>>
Subject: RE: USFS Study
Importance: High

Paul, Steffan Johnson's group in OAQPS worked on methods to speciate chromium for the wool fiberglass rule.
Stef, who could we talk to find out about methods to measure lead chromate? Thanks!

From: Koprowski, Paul
Sent: Tuesday, February 09, 2016 4:00 PM
To: Smith, Judy <Smith.Judy@epa.gov<mailto:Smith.Judy@epa.gov>>
Cc: Wroble, Julie <Wroble.Julie@epa.gov<mailto:Wroble.Julie@epa.gov>>; Narvaez, Madonna <Narvaez.Madonna@epa.gov<mailto:Narvaez.Madonna@epa.gov>>; Bray, Dave <Bray.Dave@epa.gov<mailto:Bray.Dave@epa.gov>>
Subject: USFS Study

I talked to Sarah and she said she can't share the study with us because that's up to the FS to decide. So I called the contact she gave me and left a message. Will work on getting it from them as soon as I get a call back.

Also, the monitoring was for only 1 month. It was pulled out after a month so there is no other data than that one month. They have deployed 3 monitors and are seeking our assistance on how to monitor for lead chromate. They now how to do the chrome and are evaluating the cost and the nickel will turn up in the PM samplers.

Paul

Paul Koprowski
U.S. EPA; Oregon Operations Office
805 SW Broadway, Suite 500

Portland, Oregon 97205
(503) 326-6363

To: Bray, Dave[Bray.Dave@epa.gov]; Narvaez, Madonna[Narvaez.Madonna@epa.gov]; Johnson, Steffan[johnson.steffan@epa.gov]; Koprowski, Paul[Koprowski.Paul@epa.gov]; Smith, Judy[Smith.Judy@epa.gov]
Cc: Wroble, Julie[Wroble.Julie@epa.gov]; Hedgpeth, Zach[Hedgpeth.Zach@epa.gov]; Weinstock, Lewis[Weinstock.Lewis@epa.gov]; Merrill, Raymond[Merrill.Raymond@epa.gov]; Shappley, Ned[Shappley.Ned@epa.gov]
From: McClintock, Katie
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Subject: RE: USFS Study

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Cc: Wroble, Julie <Wroble.Julie@epa.gov>; Hedgpeth, Zach <Hedgpeth.Zach@epa.gov>; Weinstock, Lewis <Weinstock.Lewis@epa.gov>; Merrill, Raymond <Merrill.Raymond@epa.gov>; Shappley, Ned <Shappley.Ned@epa.gov>
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Cc: Wroble, Julie; Bray, Dave; Hedgpeth, Zach; Weinstock, Lewis; Merrill, Raymond; Shappley, Ned
Subject: RE: USFS Study

Ex. 5 - Deliberative Process

that.

Katie

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To: Johnson, Steffan <johnson.steffan@epa.gov>; Koprowski, Paul <Koprowski.Paul@epa.gov>; Smith, Judy <Smith.Judy@epa.gov>
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Subject: RE: USFS Study

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Cc: Wroble, Julie <Wroble.Julie@epa.gov<mailto:Wroble.Julie@epa.gov>>; Bray, Dave <Bray.Dave@epa.gov<mailto:Bray.Dave@epa.gov>>; McClintock, Katie <McClintock.Katie@epa.gov<mailto:McClintock.Katie@epa.gov>>; Hedgpeth, Zach <Hedgpeth.Zach@epa.gov<mailto:Hedgpeth.Zach@epa.gov>>; Weinstock, Lewis <Weinstock.Lewis@epa.gov<mailto:Weinstock.Lewis@epa.gov>>; Merrill, Raymond <Merrill.Raymond@epa.gov<mailto:Merrill.Raymond@epa.gov>>; Shappley, Ned <Shappley.Ned@epa.gov<mailto:Shappley.Ned@epa.gov>>
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Madonna,

Thank you for reaching out to us.

First off, I need to ascertain that we are discussing stack emissions measurement, or if we are talking about ambient monitoring? I have copied Lew Weinstock who is our Ambient Air Monitoring Group Leader just in case the discussion is relevant to Reference ambient measurement methodology.

The Measurement Technology Group has a couple of different approaches for measurement of lead from stacks, as well as chromium. EPA Method 29 (multi-metals) is capable of measuring both lead and chromium, however it measures "total lead" and "total chrome" and will not provide a number for lead chromate as a species. If a hexavalent chromium number is needed from stack emissions, we turn to SW-846 0061, and this is the only technique we have to measure in-stack hex chrome emissions.

We are also aware of a technology, deployed to monitor fenceline lead emissions in the primary lead (smelters) rule, that works well for measurement of metals emissions. This is the XACT technology, manufactured by Cooper Environmental Services in, of all places, Portland, Or. http://cooperenvironmental.com/ambient-monitoring/ The measurement technology group has worked with this group to develop and publish a guide for developing a multi-metals fence-line monitoring plan for fugitive metals emissions, known to us as OTM 31, available here: http://www3.epa.gov/ttnemc01/prelim/otm31.pdf

So, if your need is to conduct in-stack emissions measurements, we have stack testing methodology we would recommend. If your need is for fenceline and fugitive emissions monitoring, we recommend the use of OTM 31 and Xact monitoring.

If the need is to establish an ambient network in surrounding neighborhood/area, I would hand you off to Lew and discuss ambient monitoring with his group.

With these things in mind, please consider the options I've laid out above and let us know if we can be of further assistance. We're happy to help you out wherever possible.

Stef

From: Narvaez, Madonna
Sent: Tuesday, February 09, 2016 7:17 PM
To: Koprowski, Paul <Koprowski.Paul@epa.gov<mailto:Koprowski.Paul@epa.gov>>; Smith, Judy <Smith.Judy@epa.gov<mailto:Smith.Judy@epa.gov>>
Cc: Wroble, Julie <Wroble.Julie@epa.gov<mailto:Wroble.Julie@epa.gov>>; Bray, Dave <Bray.Dave@epa.gov<mailto:Bray.Dave@epa.gov>>; Johnson, Steffan <johnson.steffan@epa.gov<mailto:johnson.steffan@epa.gov>>; McClintock, Katie <McClintock.Katie@epa.gov<mailto:McClintock.Katie@epa.gov>>; Hedgpeth, Zach <Hedgpeth.Zach@epa.gov<mailto:Hedgpeth.Zach@epa.gov>>
Subject: RE: USFS Study
Importance: High

Paul, Steffan Johnson's group in OAQPS worked on methods to speciate chromium for the wool fiberglass rule.
Stef, who could we talk to find out about methods to measure lead chromate? Thanks!

From: Koprowski, Paul
Sent: Tuesday, February 09, 2016 4:00 PM
To: Smith, Judy <Smith.Judy@epa.gov<mailto:Smith.Judy@epa.gov>>
Cc: Wroble, Julie <Wroble.Julie@epa.gov<mailto:Wroble.Julie@epa.gov>>; Narvaez, Madonna <Narvaez.Madonna@epa.gov<mailto:Narvaez.Madonna@epa.gov>>; Bray, Dave <Bray.Dave@epa.gov<mailto:Bray.Dave@epa.gov>>
Subject: USFS Study

I talked to Sarah and she said she can't share the study with us because that's up to the FS to decide. So I called the contact she gave me and left a message. Will work on getting it from them as soon as I get a call back.

Also, the monitoring was for only 1 month. It was pulled out after a month so there is no other data than that one month. They have deployed 3 monitors and are seeking our assistance on how to monitor for lead chromate. They now how to do the chrome and are evaluating the cost and the nickel will turn up in the PM samplers.

Paul

Paul Koprowski
U.S. EPA; Oregon Operations Office
805 SW Broadway, Suite 500
Portland, Oregon 97205
(503) 326-6363

To: Bray, Dave[Bray.Dave@epa.gov]; Koprowski, Paul[Koprowski.Paul@epa.gov]; McClintock, Katie[McClintock.Katie@epa.gov]
From: Narvaez, Madonna
Sent: Thur 2/11/2016 1:06:10 AM
Subject: RE: Updated desk statement - please review

We should ask DEQ about that.

-----Original Message-----
From: Bray, Dave
Sent: Wednesday, February 10, 2016 4:54 PM
To: Narvaez, Madonna <Narvaez.Madonna@epa.gov>; Koprowski, Paul <Koprowski.Paul@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>
Subject: RE: Updated desk statement - please review

Ex. 5 - Deliberative Process

Dave

From: Narvaez, Madonna
Sent: Wednesday, February 10, 2016 4:41 PM
To: Bray, Dave; Koprowski, Paul; McClintock, Katie
Subject: RE: Updated desk statement - please review

Ex. 5 - Deliberative Process

-----Original Message-----
From: Bray, Dave
Sent: Wednesday, February 10, 2016 3:42 PM
To: Koprowski, Paul <Koprowski.Paul@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>
Subject: RE: Updated desk statement - please review

Hi guys,

Ex. 5 - Deliberative Process

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The 2011 Review Report described the facility as follows:

Existing air contaminant sources at the facility consist of the following:
a. A Torit baghouse collects PM emissions from the silos that feed into the batch room, installed 2000. Collected material is reused in the process.
b. 14 tank furnaces (1-9 and 11-15), natural gas fired with propane back-up; cumulative operating capacity of885lb/hr and 2,700 ton/yr, 16,625 ft3/hr.
c. 2 pot furnaces (10 & 17), natural gas fired with propane back-up; cumulative operating capacity of35lb/hr and 100 ton!yr, 475 ft3/hr d. New capacity is expected from the installation of new furnaces (18-20) or expanding the existing capacity of existing equipment. Anticipated cumulative capacity is 115 lb/hr and 350 ton/yr. This equipment will also be fired on natural gas with propane back-up and combust 3,800 ft3/hr.
e. Total fuel usage is estimated at 171 million ft3 /yr.

And also notes:

In 2006, the process was changed to allow the infusion of liquid oxygen into the furnaces during the melting process in lieu of ambient air. This change in process lowered NOx emissions by roughly 40% for each retrofitted furnace. The change is made to the various furnaces during scheduled downtime (once every two years).

Dve

From: Koprowski, Paul
Sent: Wednesday, February 10, 2016 1:12 PM
To: Smith, Judy; Holsman, Marianne; Bray, Dave
Subject: RE: Updated desk statement - please review

A couple of suggestions below(highlighted.

Paul

Paul Koprowski
U.S. EPA; Oregon Operations Office
805 SW Broadway, Suite 500
Portland, Oregon 97205
(503) 326-6363

From: Smith, Judy
Sent: Wednesday, February 10, 2016 12:02 PM
To: Koprowski, Paul <Koprowski.Paul@epa.gov>; Holsman, Marianne <Holsman.Marianne@epa.gov>; Bray, Dave <Bray.Dave@epa.gov>
Subject: Updated desk statement - please review
Importance: High

In this version I significantly modified the "what is EPAs role" section. It needs vetting by the three of you. Dave - Marianne checked with Ed Kowalski regarding the inspection statement, but I speculated on the enforcement statement at the end of the sentence. - Judy

Desk Statement: SE Portland Metals Contamination

February 10, 2016

Ex. 5 - Deliberative Process

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To: Bray, Dave[Bray.Dave@epa.gov]; Koprowski, Paul[Koprowski.Paul@epa.gov]; McClintock, Katie[McClintock.Katie@epa.gov]
From: Narvaez, Madonna
Sent: Thur 2/11/2016 12:41:06 AM
Subject: RE: Updated desk statement - please review

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To: Koprowski, Paul <Koprowski.Paul@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>
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Desk Statement: SE Portland Metals Contamination

February 10, 2016

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To: Wroble, Julie[Wroble.Julie@epa.gov]; Bray, Dave[Bray.Dave@epa.gov]; Narvaez, Madonna[Narvaez.Madonna@epa.gov]; McClintock, Katie[McClintock.Katie@epa.gov]; Hedgpeth, Zach[Hedgpeth.Zach@epa.gov]
From: Koprowski, Paul
Sent: Thur 2/11/2016 12:00:19 AM
Subject: RE: Request for MSDS Copies

Yes...and they feel the same way. Dave was quite alarmed.

Paul

Paul Koprowski
U.S. EPA; Oregon Operations Office
805 SW Broadway, Suite 500
Portland, Oregon 97205
(503) 326-6363

-----Original Message-----
From: Wroble, Julie
Sent: Wednesday, February 10, 2016 3:59 PM
To: Koprowski, Paul <Koprowski.Paul@epa.gov>; Bray, Dave <Bray.Dave@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Hedgpeth, Zach <Hedgpeth.Zach@epa.gov>
Subject: RE: Request for MSDS Copies

This indicates a greater need to understand hexavalent chromium levels in air.

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From: Koprowski, Paul
Sent: Wednesday, February 10, 2016 3:58 PM
To: Bray, Dave <Bray.Dave@epa.gov>; Wroble, Julie <Wroble.Julie@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Hedgpeth, Zach <Hedgpeth.Zach@epa.gov>
Subject: RE: Request for MSDS Copies

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Subject: RE: Request for MSDS Copies

It definitely means we need to ask them what metals they are/have been using in their furnaces.

Dave

From: Wroble, Julie
Sent: Wednesday, February 10, 2016 3:25 PM
To: Bray, Dave; Narvaez, Madonna; McClintock, Katie; Koprowski, Paul; Hedgpeth, Zach
Subject: RE: Request for MSDS Copies

This may be new information. Thanks Dave!

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From: Bray, Dave
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To: Narvaez, Madonna <Narvaez.Madonna@epa.gov>; Wroble, Julie <Wroble.Julie@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Koprowski, Paul <Koprowski.Paul@epa.gov>; Hedgpeth, Zach <Hedgpeth.Zach@epa.gov>
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Dave

From: Narvaez, Madonna
Sent: Wednesday, February 10, 2016 12:51 PM
To: Bray, Dave; Wroble, Julie; McClintock, Katie; Koprowski, Paul; Hedgpeth, Zach
Subject: RE: Request for MSDS Copies

These aren't raw materials. They are liners.

-----Original Message-----
From: Bray, Dave
Sent: Wednesday, February 10, 2016 11:55 AM
To: Wroble, Julie <Wroble.Julie@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Koprowski, Paul <Koprowski.Paul@epa.gov>; Hedgpeth, Zach <Hedgpeth.Zach@epa.gov>
Subject: RE: Request for MSDS Copies

The chromium comes from the refractory material used to line the furnaces. It's not a raw material used in the formulation of the art glass.

Lead is used in the manufacturing of the glass so lead chromate could be a compound that is emitted.

Dave

From: Wroble, Julie
Sent: Wednesday, February 10, 2016 11:41 AM
To: Narvaez, Madonna; McClintock, Katie; Koprowski, Paul; Bray, Dave; Hedgpeth, Zach
Subject: RE: Request for MSDS Copies

Then where is the chromium coming from?
Levels were pretty high. Are there other potential sources in the area?

From: Narvaez, Madonna

Sent: Wednesday, February 10, 2016 11:40 AM
To: McClintock, Katie <McClintock.Katie@epa.gov>; Wroble, Julie <Wroble.Julie@epa.gov>; Koprowski, Paul <Koprowski.Paul@epa.gov>; Bray, Dave <Bray.Dave@epa.gov>
Subject: FW: Request for MSDS Copies
Importance: High

So maybe we don't need to look at lead chromate?

From: GRUNOW Greg [mailto:GRUNOW.Greg@deq.state.or.us]
Sent: Wednesday, February 10, 2016 11:01 AM
To: Narvaez, Madonna <Narvaez.Madonna@epa.gov<mailto:Narvaez.Madonna@epa.gov>>
Subject: FW: Request for MSDS Copies

Hi Madonna,

Bullseye got back to me on their refractory materials and it appears they do not contain chromium.

Greg Grunow
Natural Resource Specialist
ODEQ Northwest Region
503-229-5690
grunow.greg@deq.state.or.us<mailto:grunow.greg@deq.state.or.us>

From: Eric Durrin [mailto:ericdurrin@bullseyeglass.com]
Sent: Tuesday, February 09, 2016 5:55 PM
To: GRUNOW Greg
Cc: Max Miller
Subject: RE: Request for MSDS Copies

Hello,

I checked with our maintenance department. We currently use two materials for our tank liners: Monofrax CS-3, and VC40-Chamotte. Chromium is not shown on the material specification documents for these building materials.

Regards,

Eric Durrin | Bullseye Glass Co. | 503-232-8887x103

To: Koprowski, Paul[Koprowski.Paul@epa.gov]; Bray, Dave[Bray.Dave@epa.gov]; Narvaez, Madonna[Narvaez.Madonna@epa.gov]; McClintock, Katie[McClintock.Katie@epa.gov]; Hedgpeth, Zach[Hedgpeth.Zach@epa.gov]
From: Wroble, Julie
Sent: Wed 2/10/2016 11:59:04 PM
Subject: RE: Request for MSDS Copies

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From: Koprowski, Paul
Sent: Wednesday, February 10, 2016 3:58 PM
To: Bray, Dave <Bray.Dave@epa.gov>; Wroble, Julie <Wroble.Julie@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Hedgpeth, Zach <Hedgpeth.Zach@epa.gov>
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Regards,

Eric Durrin | Bullseye Glass Co. | 503-232-8887x103

To: Bray, Dave[Bray.Dave@epa.gov]; Narvaez, Madonna[Narvaez.Madonna@epa.gov]; McClintock, Katie[McClintock.Katie@epa.gov]; Koprowski, Paul[Koprowski.Paul@epa.gov]; Hedgpeth, Zach[Hedgpeth.Zach@epa.gov]
From: Wroble, Julie
Sent: Wed 2/10/2016 11:25:06 PM
Subject: RE: Request for MSDS Copies

This may be new information. Thanks Dave!

-----Original Message-----
From: Bray, Dave
Sent: Wednesday, February 10, 2016 3:10 PM
To: Narvaez, Madonna <Narvaez.Madonna@epa.gov>; Wroble, Julie <Wroble.Julie@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Koprowski, Paul <Koprowski.Paul@epa.gov>; Hedgpeth, Zach <Hedgpeth.Zach@epa.gov>
Subject: RE: Request for MSDS Copies

I was just reviewing their ACDP to see if the Part 61 NESHAP was specifically addressed in it and noticed that it says that Bullseye does us chromium as a coloring agent. So in addition to any chromium that might or might not be in the refractory, they are could also be using chromium in the process.

Dave

From: Narvaez, Madonna
Sent: Wednesday, February 10, 2016 12:51 PM
To: Bray, Dave; Wroble, Julie; McClintock, Katie; Koprowski, Paul; Hedgpeth, Zach
Subject: RE: Request for MSDS Copies

These aren't raw materials. They are liners.

-----Original Message-----
From: Bray, Dave
Sent: Wednesday, February 10, 2016 11:55 AM
To: Wroble, Julie <Wroble.Julie@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Koprowski, Paul <Koprowski.Paul@epa.gov>; Hedgpeth, Zach <Hedgpeth.Zach@epa.gov>
Subject: RE: Request for MSDS Copies

The chromium comes from the refractory material used to line the furnaces. It's not a raw material used in the formulation of the art glass.

Lead is used in the manufacturing of the glass so lead chromate could be a compound that is emitted.

Dave

From: Wroble, Julie
Sent: Wednesday, February 10, 2016 11:41 AM
To: Narvaez, Madonna; McClintock, Katie; Koprowski, Paul; Bray, Dave; Hedgpeth, Zach
Subject: RE: Request for MSDS Copies

Then where is the chromium coming from?
Levels were pretty high. Are there other potential sources in the area?

From: Narvaez, Madonna
Sent: Wednesday, February 10, 2016 11:40 AM
To: McClintock, Katie <McClintock.Katie@epa.gov>; Wroble, Julie <Wroble.Julie@epa.gov>; Koprowski,

Paul <Koprowski.Paul@epa.gov>; Bray, Dave <Bray.Dave@epa.gov>
Subject: FW: Request for MSDS Copies
Importance: High

So maybe we don't need to look at lead chromate?

From: GRUNOW Greg [mailto:GRUNOW.Greg@deq.state.or.us]
Sent: Wednesday, February 10, 2016 11:01 AM
To: Narvaez, Madonna <Narvaez.Madonna@epa.gov<mailto:Narvaez.Madonna@epa.gov>>
Subject: FW: Request for MSDS Copies

Hi Madonna,

Bullseye got back to me on their refractory materials and it appears they do not contain chromium.

Greg Grunow
Natural Resource Specialist
ODEQ Northwest Region
503-229-5690
grunow.greg@deq.state.or.us<mailto:grunow.greg@deq.state.or.us>

From: Eric Durrin [mailto:ericdurrin@bullseyeglass.com]
Sent: Tuesday, February 09, 2016 5:55 PM
To: GRUNOW Greg
Cc: Max Miller
Subject: RE: Request for MSDS Copies

Hello,

I checked with our maintenance department. We currently use two materials for our tank liners: Monofrax CS-3, and VC40-Chamotte. Chromium is not shown on the material specification documents for these building materials.

Regards,

Eric Durrin | Bullseye Glass Co. | 503-232-8887x103

To: Bray, Dave[Bray.Dave@epa.gov]; Wroble, Julie[Wroble.Julie@epa.gov]; McClintock, Katie[McClintock.Katie@epa.gov]; Koprowski, Paul[Koprowski.Paul@epa.gov]; Hedgpeth, Zach[Hedgpeth.Zach@epa.gov]
From: Narvaez, Madonna
Sent: Wed 2/10/2016 8:51:18 PM
Subject: RE: Request for MSDS Copies

These aren't raw materials. They are liners.

-----Original Message-----
From: Bray, Dave
Sent: Wednesday, February 10, 2016 11:55 AM
To: Wroble, Julie <Wroble.Julie@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Koprowski, Paul <Koprowski.Paul@epa.gov>; Hedgpeth, Zach <Hedgpeth.Zach@epa.gov>
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Sent: Wednesday, February 10, 2016 11:41 AM
To: Narvaez, Madonna; McClintock, Katie; Koprowski, Paul; Bray, Dave; Hedgpeth, Zach
Subject: RE: Request for MSDS Copies

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Subject: FW: Request for MSDS Copies
Importance: High

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To: GRUNOW Greg
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To: Bray, Dave[Bray.Dave@epa.gov]; Narvaez, Madonna[Narvaez.Madonna@epa.gov]; McClintock, Katie[McClintock.Katie@epa.gov]; Koprowski, Paul[Koprowski.Paul@epa.gov]; Hedgpeth, Zach[Hedgpeth.Zach@epa.gov]
From: Wroble, Julie
Sent: Wed 2/10/2016 8:03:59 PM
Subject: RE: Request for MSDS Copies

But see below where Bullseye says they don't have chromium in their refractory. If it's not coming from that, is it coming from something else?

-----Original Message-----
From: Bray, Dave
Sent: Wednesday, February 10, 2016 11:55 AM
To: Wroble, Julie <Wroble.Julie@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Koprowski, Paul <Koprowski.Paul@epa.gov>; Hedgpeth, Zach <Hedgpeth.Zach@epa.gov>
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Subject: FW: Request for MSDS Copies
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grunow.greg@deq.state.or.us<mailto:grunow.greg@deq.state.or.us>

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To: GRUNOW Greg
Cc: Max Miller
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Regards,

Eric Durrin | Bullseye Glass Co. | 503-232-8887x103

To: Narvaez, Madonna[Narvaez.Madonna@epa.gov]; McClintock, Katie[McClintock.Katie@epa.gov]; Koprowski, Paul[Koprowski.Paul@epa.gov]; Bray, Dave[Bray.Dave@epa.gov]; Hedgpeth, Zach[Hedgpeth.Zach@epa.gov]
From: Wroble, Julie
Sent: Wed 2/10/2016 7:41:13 PM
Subject: RE: Request for MSDS Copies

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From: Narvaez, Madonna
Sent: Wednesday, February 10, 2016 11:40 AM
To: McClintock, Katie <McClintock.Katie@epa.gov>; Wroble, Julie <Wroble.Julie@epa.gov>; Koprowski, Paul <Koprowski.Paul@epa.gov>; Bray, Dave <Bray.Dave@epa.gov>
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To: McClintock, Katie[McClintock.Katie@epa.gov]; Wroble, Julie[Wroble.Julie@epa.gov]; Koprowski, Paul[Koprowski.Paul@epa.gov]; Bray, Dave[Bray.Dave@epa.gov]
From: Narvaez, Madonna
Sent: Wed 2/10/2016 7:39:44 PM
Subject: FW: Request for MSDS Copies
Monofrax CS-3 Info.pdf
VC40 Info.pdf

So maybe we don't need to look at lead chromate?

From: GRUNOW Greg [mailto:GRUNOW.Greg@deq.state.or.us]
Sent: Wednesday, February 10, 2016 11:01 AM
To: Narvaez, Madonna <Narvaez.Madonna@epa.gov>
Subject: FW: Request for MSDS Copies

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Greg Grunow

Natural Resource Specialist

ODEQ Northwest Region

503-229-5690

grunow.greg@deq.state.or.us

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Regards,

Eric Durrin | Bullseye Glass Co. | 503-232-8887x103

Product Information

Monofrax® CS-3
Alumina-Zirconia-Silica (AZS)
Fused Cast Refractory

Product Description

Monofrax® CS-3 is the most versatile and widely used of the three Monofrax AZS compositions. It has the lowest ZrO_2 concentration among AZS refractories, yet it offers excellent corrosion resistance to soda lime glass melts.

Manufacturing Description

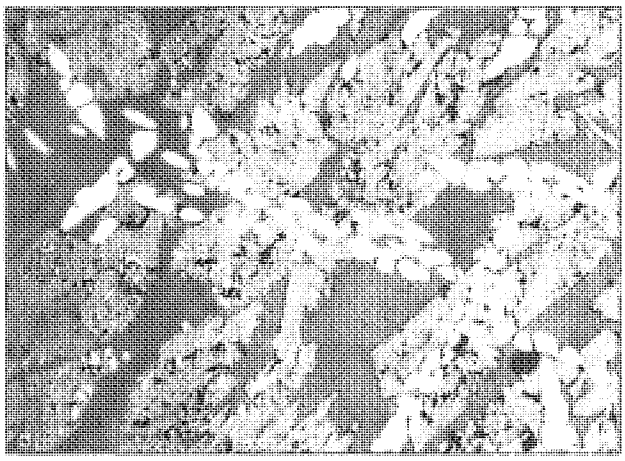
Monofrax CS-3 is melted and oxidized using a patented process in an electric arc furnace and poured into sand molds. This composition is available in many shapes and hundreds of different sizes, produced with and without casting voids. The annealing process is optimized to achieve superior surface quality and overall physical and chemical properties. Advanced, state-of-the-art grinding equipment is used to provide excellent joint quality.

Typical Chemistry

ZrO_2	34%
Al_2O_3	48%
SiO_2	15%
Na_2O	<2%
Other	<1%

Typical Applications

- Glass furnace
  - Sidewalls and pavers
  - Superstructure
  - Channels
  - Throat
- Ceramic frit furnace blocks
- Sodium silicate furnace linings
- Abrasion and wear resistant blocks.



Micrograph Description

This photomicrograph shows the alumina, zirconia and silica phases present in CS-3. The light gray alumina forms flecked with white zirconia crystallites comprise the composite crystal phase. White chains represent the zirconia dendrites distributed through this material. These crystalline phases, solidified from the melt, are fixed in a silica glassy matrix (dark gray areas).

RHI

RHI Monofrax LTD
1870 New York Avenue
Falconer, New York 14733-1797
Telephone: 716-483-7200
Fax: 716-483-7273
www.rhi-ag.com
www.monofrax.com

fact file

Parkinson - Spencer
Refractories Limited
Holmfield, Halifax,
West Yorkshire, UK.
HX3 6SX

(44) (0)1422 254472
(44) (0)1422 254473
admin@parkinson-spencer.co.uk
www.parkinson-spencer.co.uk

VC40 - CHAMOTTE / FLUX

A super-duty vacuum-cast fireclay block for glass furnace bottoms and sidewall back-up. Also suitable for glass-contact use in selected applications.

Chemical Analysis (wt %)*

SiO_2	54.0
Al_2O_3	41.0
Fe_2O_3	1.75
TiO_2	1.10
CaO	0.25
MgO	0.21
Na_2O	0.30
K_2O	0.10

Physical Properties*

Bulk Density	2199 kg m^{-3}
Cold Compressive Strength	66.4 N mm^{-2}
Apparent Porosity	18%
Refractoriness	1717°C. (Cone 33)
Reversible Thermal Expansion 20 - 1000°C	0.5%

*All values are average and subject to change without notice.

ED_000719_00016885-00001

To: Koprowski, Paul[Koprowski.Paul@epa.gov]; Bray, Dave[Bray.Dave@epa.gov]; David Monro (MONRO.David@deq.state.or.us)[MONRO.David@deq.state.or.us]; Gable, Debra[Gable.Debra@epa.gov]; Dossett, Donald[Dossett.Donald@epa.gov]; Downey, Scott[Downey.Scott@epa.gov]; Franklin, Richard[Franklin.Richard@epa.gov]; Hastings, Janis[Hastings.Janis@epa.gov]; Hedgpeth, Zach[Hedgpeth.Zach@epa.gov]; Holsman, Marianne[Holsman.Marianne@epa.gov]; Wroble, Julie[Wroble.Julie@epa.gov]; Kowalski, Ed[Kowalski.Edward@epa.gov]; Leefers, Kristin[Leefers.Kristin@epa.gov]; MacIntyre, Mark[Macintyre.Mark@epa.gov]; MACMILLAN Susan[MacMillan.Susan@deq.state.or.us]; matt.hoffman (matt.hoffman@multco.us)[matt.hoffman@multco.us]; McClintock, Katie[McClintock.Katie@epa.gov]; Narvaez, Madonna[Narvaez.Madonna@epa.gov]; Philip, Jeff[Philip.Jeff@epa.gov]; Kaetzel, Rhonda[Kaetzel.Rhonda@epa.gov]; Elleman, Robert[Elleman.Robert@epa.gov]; armitage.sarah@deq.state.or.us[armitage.sarah@deq.state.or.us]; Schuster, Cindy[Schuster.Cindy@epa.gov]; Skadowski, Suzanne[Skadowski.Suzanne@epa.gov]; Smith, Judy[Smith.Judy@epa.gov]; Todd Hudson (todd.hudson@state.or.us)[todd.hudson@state.or.us]
From: Stifelman, Marc
Sent: Wed 2/10/2016 5:30:54 PM
Subject: RE: Glass Work Group contacts

Fyi…Bullseye MSDSs are available by request:

http://www.bullseyeglass.com/forum/index/viewtopic.php?f=14&t=3864

~~~~~~

"Time makes more Converts than Reason."

-- Thomas Paine, 1776

Marc Stifelman, Toxicologist
U.S. Environmental Protection Agency, Region 10
Office of Environmental Assessment, Risk Evaluation Unit
1200 Sixth Avenue, Suite 900
Mail Stop: OEA-140
Seattle, Washington 98101-3140
Tele 206/553-6979
stifelman.marc@epa.gov
~~~~~~

From: Koprowski, Paul
Sent: Monday, February 08, 2016 3:41 PM
To: Bray, Dave <Bray.Dave@epa.gov>; David Monro (MONRO.David@deq.state.or.us) <MONRO.David@deq.state.or.us>; Gable, Debra <Gable.Debra@epa.gov>; Dossett, Donald <Dossett.Donald@epa.gov>; Downey, Scott <Downey.Scott@epa.gov>; Franklin, Richard <Franklin.Richard@epa.gov>; Hastings, Janis <Hastings.Janis@epa.gov>; Hedgpeth, Zach <Hedgpeth.Zach@epa.gov>; Holsman, Marianne <Holsman.Marianne@epa.gov>; Wroble, Julie <Wroble.Julie@epa.gov>; Koprowski, Paul <Koprowski.Paul@epa.gov>; Kowalski, Ed <Kowalski.Edward@epa.gov>; Leefers, Kristin <Leefers.Kristin@epa.gov>; MacIntyre, Mark <Macintyre.Mark@epa.gov>; MACMILLAN Susan <MacMillan.Susan@deq.state.or.us>; matt.hoffman (matt.hoffman@multco.us) <matt.hoffman@multco.us>; McClintock, Katie <McClintock.Katie@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; Philip, Jeff <Philip.Jeff@epa.gov>; Kaetzel, Rhonda <Kaetzel.Rhonda@epa.gov>; Elleman, Robert <Elleman.Robert@epa.gov>; armitage.sarah@deq.state.or.us; Schuster, Cindy <Schuster.Cindy@epa.gov>; Skadowski, Suzanne <Skadowski.Suzanne@epa.gov>; Smith, Judy <Smith.Judy@epa.gov>; Stifelman, Marc <Stifelman.Marc@epa.gov>; Todd Hudson (todd.hudson@state.or.us) <todd.hudson@state.or.us>
Subject: Glass Work Group contacts

The purpose of this message is to share the group address list in the "to" box for this message. This list was put together to streamline communications among the many parties that have a stake in working on the recently discovered air toxics issue in SE Portland.

This list has 27 parties on it so far. There are contacts for EPA, Oregon Health Authority, DEQ and Multnomah County health. I tried to be as thorough as possible but may have missed a contact so if you look at the list and see someone missing please let me know and I'll add them to the list. Also, if you don't want to be on the list let me know and I'll take you off.

This is multi-agency list so please keep that in mind when sending messages to the group.

Regards,

Paul

Paul Koprowski

U.S. EPA; Oregon Operations Office

805 SW Broadway, Suite 500

Portland, Oregon 97205

(503) 326-6363

To: Bray, Dave[Bray.Dave@epa.gov]; Koprowski, Paul[Koprowski.Paul@epa.gov]; Narvaez, Madonna[Narvaez.Madonna@epa.gov]; Downey, Scott[Downey.Scott@epa.gov]; McClintock, Katie[McClintock.Katie@epa.gov]; Hastings, Janis[Hastings.Janis@epa.gov]
Cc: Dunbar, Bill[dunbar.bill@epa.gov]; MacIntyre, Mark[Macintyre.Mark@epa.gov]; Holsman, Marianne[Holsman.Marianne@epa.gov]; Philip, Jeff[Philip.Jeff@epa.gov]; Skadowski, Suzanne[Skadowski.Suzanne@epa.gov]
From: Smith, Judy
Sent: Tue 2/9/2016 8:12:06 PM
Subject: EPA Desk Statement: SE Portland Metals Contamination 2/9

FYI - Updated

Desk Statement: SE Portland Metals Contamination

The Oregon Department of Environmental Quality found a significant "hot spot" of cadmium and arsenic during air sampling in Portland, Oregon near SE 22nd Ave. and Powell Blvd. DEQ is collecting additional air samples in the affected area, and is working collaboratively with county, state and federal health agencies (Oregon Health Authority, Multnomah County Health Department, and the Agency for Toxic Substances and Disease Registry) to assess and mitigate impacts to public health. EPA is keeping fully informed about this developing situation and is ready to support and assist ODEQ as needed. EPA and ATSDR are evaluating these findings in relation to EPA health standards.

Additional information, including a link to air sampling data and a map of the affected area, can be found at: http://www.deq.state.or.us/nwr/metalsemissions.htm. DEQ's initial findings are that the monthly average is 49 times greater than the state air toxics benchmark for cadmium and 159 times the state air toxics benchmark for arsenic.

Questions and Answers

How is EPA involved?

EPA Region 10 was briefed on the situation by ODEQ one-week prior to the February 3, 2016 press release. We remain ready to support DEQ, OHA, MCHD and ATSDR in assessing, monitoring or communicating about the situation as needed.

If so, what is our role?

EPA Region 10 is looking at our records to identify other potential sources in the affected area. We are also comparing federal regional screening levels (RSL) with the ODEQ state health benchmarks in relation to the amount of contamination found in the study. In addition to EPA, the ATSDR is working with DEQ, OHA and Multnomah County Heath to communicate the potential impact on the community from the monitored levels of contamination.

Are we determining or confirming the air pollution and/or the source?

ODEQ is keeping EPA informed of their actions to monitor the situation and exposure levels. As of Friday, February 5, they were proceeding with additional particulate monitoring at nearby schools and day care centers.

Why isn't this source regulated by EPA?

When EPA adopted the National Emission Standards for Hazardous Air Pollutants for glass manufacturing facilities in 2007, art glass facilities were not known to be a source of significant emissions. EPA is evaluating what next steps may be appropriate based on the recent discovery of cadmium and arsenic pollution in Portland, Oregon.

Do we know any more about the USFS role or study mentioned in the news media?

EPA is reviewing this study, which was a collaborative study between US Forest Service and DEQ to better understand the sources and distribution of toxic metals, including arsenic and cadmium, air pollution in Portland.

To: Smith, Judy[Smith.Judy@epa.gov]; Koprowski, Paul[Koprowski.Paul@epa.gov]; Downey, Scott[Downey.Scott@epa.gov]; McClintock, Katie[McClintock.Katie@epa.gov]; Hastings, Janis[Hastings.Janis@epa.gov]; Bray, Dave[Bray.Dave@epa.gov]; Wroble, Julie[Wroble.Julie@epa.gov]
From: Narvaez, Madonna
Sent: Tue 2/9/2016 7:57:21 PM
Subject: RE: Desk Statement: SE Portland - Metals Contamination from Bullseye Glass

Not that I know of. Sarah said that is with the USFS.

From: Smith, Judy
Sent: Tuesday, February 09, 2016 11:35 AM
To: Narvaez, Madonna <Narvaez.Madonna@epa.gov>; Koprowski, Paul <Koprowski.Paul@epa.gov>; Downey, Scott <Downey.Scott@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Hastings, Janis <Hastings.Janis@epa.gov>; Bray, Dave <Bray.Dave@epa.gov>; Wroble, Julie <Wroble.Julie@epa.gov>
Subject: RE: Desk Statement: SE Portland - Metals Contamination from Bullseye Glass

Hi Madonna – I was hoping you could tell me! So to the larger group – has anyone obtained a copy of the study yet? Thanks, Judy

From: Narvaez, Madonna
Sent: Tuesday, February 09, 2016 10:56 AM
To: Smith, Judy <Smith.Judy@epa.gov>; Koprowski, Paul <Koprowski.Paul@epa.gov>; Downey, Scott <Downey.Scott@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Hastings, Janis <Hastings.Janis@epa.gov>; Bray, Dave <Bray.Dave@epa.gov>; Wroble, Julie <Wroble.Julie@epa.gov>
Cc: Dunbar, Bill <dunbar.bill@epa.gov>; MacIntyre, Mark <Macintyre.Mark@epa.gov>; Holsman, Marianne <Holsman.Marianne@epa.gov>; Philip, Jeff <Philip.Jeff@epa.gov>; Skadowski, Suzanne <Skadowski.Suzanne@epa.gov>
Subject: RE: Desk Statement: SE Portland - Metals Contamination from Bullseye Glass
Importance: High

Judy, does someone at EPA actually have the study?

From: Smith, Judy
Sent: Tuesday, February 09, 2016 10:32 AM
To: Koprowski, Paul <Koprowski.Paul@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; Downey, Scott <Downey.Scott@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Hastings, Janis <Hastings.Janis@epa.gov>; Bray, Dave

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U.S. EPA; Oregon Operations Office

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Portland, Oregon 97205

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Subject: FW: Desk Statement: SE Portland - Metals Contamination from Bullseye Glass

Nichole, do you see any changes needed before I send this to Blumenauer's staff?

Cindy Colgate Schuster

Congressional Liaison

International Coordinator

U.S. EPA Region 10

Seattle, WA

206-553-1815

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Sent: Tuesday, February 09, 2016 7:05 AM
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Desk Statement: SE Portland - Metals Contamination from Bullseye Glass

Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process

To: Smith, Judy[Smith.Judy@epa.gov]; Koprowski, Paul[Koprowski.Paul@epa.gov]; Downey, Scott[Downey.Scott@epa.gov]; McClintock, Katie[McClintock.Katie@epa.gov]; Hastings, Janis[Hastings.Janis@epa.gov]; Bray, Dave[Bray.Dave@epa.gov]; Wroble, Julie[Wroble.Julie@epa.gov]
Cc: Dunbar, Bill[dunbar.bill@epa.gov]; MacIntyre, Mark[Macintyre.Mark@epa.gov]; Holsman, Marianne[Holsman.Marianne@epa.gov]; Philip, Jeff[Philip.Jeff@epa.gov]; Skadowski, Suzanne[Skadowski.Suzanne@epa.gov]
From: Narvaez, Madonna
Sent: Tue 2/9/2016 6:56:09 PM
Subject: RE: Desk Statement: SE Portland - Metals Contamination from Bullseye Glass

Judy, does someone at EPA actually have the study?

From: Smith, Judy
Sent: Tuesday, February 09, 2016 10:32 AM
To: Koprowski, Paul <Koprowski.Paul@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; Downey, Scott <Downey.Scott@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Hastings, Janis <Hastings.Janis@epa.gov>; Bray, Dave <Bray.Dave@epa.gov>
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Desk Statement: SE Portland Metals Contamination

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From Matt and Pat:

Ex. 5 - Deliberative Process

Patricia Haman

Office of Congressional Affairs

U.S. EPA

202-564-2806

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Cc: Haman, Patricia <Haman.Patricia@epa.gov>; Davis, Matthew <Davis.Matthew@epa.gov>; Niebling, William <Niebling.William@epa.gov>; Schuster, Cindy <Schuster.Cindy@epa.gov>
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Nichole Distefano

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Office of Congressional and Intergovernmental Relations

Environmental Protection Agency

(202) 564-5200

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Environmental Protection Agency

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From: Downey, Scott
Sent: Mon 2/8/2016 10:19:50 PM
Subject: Re: hold for bullseye conversation if necessary

correct call in number is Ex. 6 - Personal Privacy

~~~~~~~~~~~~~~~~~~~~

Scott Downey, Manager

Air and RCRA Compliance Unit

EPA Region 10, OCE-127

1200 6th Ave Suite 900

Seattle, WA 98101

(206) 553-0682

From: McClintock, Katie
Sent: Friday, February 5, 2016 11:44 AM
To: McClintock, Katie; Bray, Dave; Narvaez, Madonna; Elleman, Robert; Koprowski, Paul; Downey, Scott; Dossett, Donald; Islam, Mahbubul; Hedgpeth, Zach; Wroble, Julie; Franklin, Richard; Dagseth, Renee; Moon, Wally
Subject: hold for bullseye conversation if necessary
When: Monday, February 8, 2016 2:00 PM-3:00 PM.
Where: R10Sea-Room-12Maple/R10-Rooms-Service-Center

Ex. 6 - Personal Privacy code: Ex. 6 - Personal Privacy

I'll be in Portland but everyone looks free and it seems worth getting something on the calendar to continue the discussion.
~~~~~~~~~~~~~~~~~~~~

To: Franklin, Richard[Franklin.Richard@epa.gov]; Bray, Dave[Bray.Dave@epa.gov]; Narvaez, Madonna[Narvaez.Madonna@epa.gov]; Elleman, Robert[Elleman.Robert@epa.gov]; Koprowski, Paul[Koprowski.Paul@epa.gov]; Downey, Scott[Downey.Scott@epa.gov]; Dossett, Donald[Dossett.Donald@epa.gov]; Hedgpeth, Zach[Hedgpeth.Zach@epa.gov]; Wroble, Julie[Wroble.Julie@epa.gov]; Dagseth, Renee[Dagseth.Renee@epa.gov]; Leefers, Kristin[Leefers.Kristin@epa.gov]; Fairchild, Susan[Fairchild.Susan@epa.gov]
From: McClintock, Katie
Sent: Sat 2/6/2016 5:47:39 PM
Subject: RE: Bullseye Call today - action items

Quick update:

I talked to Sarah Armitage late Friday. We discussed the potential for major chromium concerns and talked about getting speciated metals results. She said the monitors they used didn't pull particularly large samples and her (not expert in this subject) memory was that they needed bigger samples for speciation. She is going to look into it right away and will check into lead chromate speciated nickel as well.

In other news, I read that the soil samples came back positive for arsenic and cadmium (and other metals) but the air samples inside came back negative. http://www.portlandmercury.com http://www.portlandmercury.com/BlogtownPDX/archives/2016/02/04/soil-near-bullseye-glass-contains-arsenic-and-cadmiumand-other-things-officials-told-parents-thursday

I was also reviewing the northrose lawn data from 2014 which was included with other data and shows over the benchmark for cadmium and arsenic (though much lower, 1.3 instead of 31.7 for arsenic as compared to the fred meyer parking lot). There are two glass plants up there including glass alchemy and we might need to look into that. There seem to be several shops manufacturing glass including Trautman, Northstar and Glass Alchemy. There are probably others as well, but that is as far as I have gotten. I don't know the relative size of the other 3 compared to bullseye, but I think bullseye is quite a bit larger. We should try to get our hands on all the rest of the sampling data besides the fred meyer parking lot. I think there is at least north rose lawn 2015 data. I forgot to ask Sarah about this when we talked.

I also heard there will be another public meeting on Tuesday at the high school. Someone should consider whether EPA presence would or would not be helpful there. Zach and I will be in the area and of course Richard Franklin and Paul Koprowski are down there too.

Katie

From: McClintock, Katie
Sent: Friday, February 05, 2016 2:00 PM
To: Bray, Dave <Bray.Dave@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; Elleman, Robert <Elleman.Robert@epa.gov>; Koprowski, Paul <Koprowski.Paul@epa.gov>; Downey, Scott <Downey.Scott@epa.gov>; Dossett, Donald <Dossett.Donald@epa.gov>; Hedgpeth, Zach <Hedgpeth.Zach@epa.gov>; Wroble, Julie <Wroble.Julie@epa.gov>; Franklin, Richard <Franklin.Richard@epa.gov>; Dagseth, Renee <Dagseth.Renee@epa.gov>; Leefers, Kristin <Leefers.Kristin@epa.gov>; Fairchild, Susan <Fairchild.Susan@epa.gov>
Cc: Islam, Mahbubul <Islam.Mahbubul@epa.gov>
Subject: Bullseye Call today - action items

Based on the call today, here are our action items:

1. Madonna will ask OR (maybe work with Paul Koprowski) if they did the work and what samples they ran.
    a. Did they run speciated metals?
    b. If not, did they save the filter and can they run lead chromate and hex chromium, speciated nickle
2. Include oaqps press on communications - Jan cortelyou
3. Madonna will ask greg grunow about metals used data per metal - should be reporting into tri
4. Susan Fairchild - will look through cbi about data on bullseye
5. Julie W. is sending epa rsls alongside deq benchmarks
6. Potential Inspection - look for how to test and look for dust at rail unloading. Find out if a chromium refractory.
7. Richard - Will keep us informed of OR emergency response actions regarding soil.
8. Spectrum -
    a. Katie will look into source and talk to permit writer.
    b. Do we want to monitor are samples around them. Need to discuss with management.

To: Leefers, Kristin[Leefers.Kristin@epa.gov]; Bray, Dave[Bray.Dave@epa.gov]; Narvaez, Madonna[Narvaez.Madonna@epa.gov]
From: McClintock, Katie
Sent: Fri 2/5/2016 10:21:14 PM
Subject: data from or
DEQ monitoring results.xlsx
acdp for bullseye.pdf
Portland Powell and Twenty Second ave metals monitoring (2).xlsx

Katie McClintock

Air Enforcement Officer

EPA Region 10

1200 Sixth Avenue, Suite 900, OCE-101

Seattle, WA 98101

Phone: 206-553-2143

Fax: 206-553-4743

Mcclintock.katie@epa.gov

Comments about this work sheet:

a.

b.

c.

d.

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In October 2015, DEQ and Reed College performed air toxics metals monitoring in the Fred Meyers HQ parking lot near S
The samples were collected on 47mm Teflon filters, at 16.7 LPM, through a PM10 preseperator. The samples were collec
The filters were sent to Desert Research Institute for ICP-MS analysis.
The results are show in the following spreadsheets:
"Metals Conc PPT and PNR" are the metals concentrations for Oct 2015 for PPT and Oct 2014 for Portland N. Roselawn (P
"colors" is a table and a link to what metals are used for colors for glass manufacturing
"QC" are the primary and duplicate samples, and the field blanks
analysis flags are the flags definitions provided by DRI
"Concentration Filter data" is the spreadsheet where I divided the filter mass by the sample volume for PPT
Volumes are the filter volume and date information from DEQ
"ICPMS data" are the filter mass and uncertainty data from DRI

Anthony Barnack
503-229-5713
barnack.anthony@deq.state.or.us

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Here are the Cadmium Result from the Fred Meyer parking lot across from Bullseye. The sites name is "Portland - Powe

prim

prim

Summary of PPT data without the uncertainties

Portland N. Roselawn (PNR) Metals data from Octover 2014 (for comparison). The 2015 data is not out yet.

PNR

Difference between PPT and PNR

ambient benchmark concentrations

ell & Twenty Second" or PPT

sample date	Beryllium (ng/m3)	Beryllium (ng/m3) uncertainty	Emerald Green Chromium (ng/m3)	Chromium (ng/m3) uncertainty	Purple & A "decoloring" agent Manganese (ng/m3)	Manganese (ng/m3) uncertainty	Blue-Violet Cobalt (ng/m3)
10/6/15	0.062	0.0061	406.7	34.4	50.5	1.33	2.3
10/7/15	0.012	0.0012	20.2	1.7	35.3	0.93	0.3
10/9/15	0.018	0.0018	24.4	2.1	13.1	0.35	0.9
10/10/15	0.007	0.0007	24.9	2.1	4.0	0.11	0.3
10/12/15	0.015	0.0015	25.5	2.2	14.2	0.37	0.9
10/14/15	0.008	0.0008	19.0	1.6	18.3	0.48	0.1
10/15/15	0.030	0.0029	17.4	1.5	44.2	1.17	0.4
10/17/15	0.012	0.0012	21.0	1.8	8.2	0.22	0.2
10/18/15	0.008	0.0008	20.1	1.7	8.0	0.21	0.4
10/20/15	0.008	0.0008	21.4	1.8	13.1	0.35	0.3
10/21/15	0.020	0.0020	22.8	1.9	24.2	0.64	1.1
10/23/15	0.013	0.0013	23.3	2.0	27.7	0.73	0.3
10/24/15	0.029	0.0028	439.5	37.1	23.5	0.62	0.8
10/26/15	0.010	0.0010	48.0	4.1	7.2	0.19	3.5
10/27/15	0.019	0.0019	24.4	2.1	21.1	0.56	0.8
10/29/15	0.009	0.0009	37.7	3.2	6.0	0.16	2.8
10/30/15	0.007	0.0007	38.5	3.3	3.4	0.09	0.4
11/2/15	0.007	0.0007	52.6	4.4	13.3	0.35	0.7
average	**0.016**	**0.002**	**69.119**	**5.841**	**18.469**	**0.487**	**0.909**
Maximum	**0.062**	**0.006**	**439.507**	**37.142**	**50.502**	**1.332**	**3.477**

sample date	Chromium (ng/m3)	Cobalt (ng/m3)	Arsenic (ng/m3)	Selenium (ng/m3)	Cadmium (ng/m3)	Lead (ng/m3)	Nickel (ng/m3)
10/6/15	406.7	2.3	75.0	9.8	13.0	66.9	17.0
10/7/15	20.2	0.3	3.0	4.1	2.2	5.9	3.4
10/9/15	24.4	0.9	8.8	45.6	13.8	7.6	8.3
10/10/15	24.9	0.3	20.3	3.0	195.4	5.4	2.3
10/12/15	25.5	0.9	20.1	13.2	8.6	32.5	8.0
10/14/15	19.0	0.1	1.1	0.0	1.6	2.2	1.4
10/15/15	17.4	0.4	1.1	0.0	2.7	6.3	3.5
10/17/15	21.0	0.2	7.7	0.8	1.5	10.1	2.9
10/18/15	20.1	0.4	6.7	8.3	4.4	7.6	7.4
10/20/15	21.4	0.3	14.8	12.3	6.5	16.7	2.9
10/21/15	22.8	1.1	101.1	13.0	11.6	60.7	6.8
10/23/15	23.3	0.3	3.0	0.0	0.8	5.2	4.3
10/24/15	439.5	0.8	3.5	2.7	1.1	8.1	7.1
10/26/15	48.0	3.5	60.4	271.1	132.9	67.3	1.9
10/27/15	24.4	0.8	15.9	15.6	10.8	10.2	9.2
10/29/15	37.7	2.8	93.2	220.0	56.9	248.3	4.6

10/30/15	38.5	0.4	97.3	136.5	41.7	124.4	1.4
11/2/15	52.6	0.7	38.3	41.4	24.3	87.6	5.0
Average	**71.5**	**0.9**	**31.7**	**44.3**	**29.4**	**42.9**	**5.4**

	Chromium (ng/m3(LC))	Cobalt (ng/m3(LC))	Arsenic (ng/m3(LC))	Selenium (ng/m3(LC))	Cadmium (ng/m3(LC))	Lead (ng/m3(LC))	Nickel (ng/m3(LC))
10/2/2014	1.86	0.215	2.59	2.1	1.95	7.92	2.94
10/8/2014	1.06	0.131	0.622	0.165	0.066	2.47	2.4
10/14/2014	0.347	0.076	1.3	0.894	1.18	2.89	0.321
10/20/2014	0.568	0.053	1.32	2.39	2.78	4.69	0.735
10/26/2014	0.261	0.025	0.721	1.83	2.49	1.14	0.857
Average	**0.8192**	**0.1**	**1.3**	**1.5**	**1.7**	**3.8**	**1.45**

PPT-PNR	**70.7**	**0.8**	**30.4**	**42.8**	**27.7**	**39.1**	**4.0**

	Chromium (ng/m3(LC))	Cobalt (ng/m3(LC))	Arsenic (ng/m3(LC))	Selenium (ng/m3(LC))	Cadmium (ng/m3(LC))	Lead (ng/m3(LC))	Nickel (ng/m3(LC))
		100	0.2		0.6	150	2

Cobalt (ng/m3) uncertainty	Violet Nickel (ng/m3)	Nickel (ng/m3) uncertainty	Arsenic (ng/m3)	Arsenic (ng/m3) uncertainty	Reds Selenium (ng/m3)	Selenium (ng/m3) uncertainty	Yellow Cadmium (ng/m3)	Cadmium (ng/m3) uncertainty	Yellow Lead (ng/m3)
0.0846	17.0	0.2680	75.0	3.7634	9.8	0.6484	13.0	0.0692	66.9
0.0115	3.4	0.0541	3.0	0.1511	4.1	0.3371	2.2	0.0119	5.9
0.0323	8.3	0.1315	8.8	0.4432	45.6	2.6106	13.8	0.0736	7.6
0.0102	2.3	0.0365	20.3	1.0176	3.0	0.2761	195.4	1.0413	5.4
0.0333	8.0	0.1267	20.1	1.0087	13.2	0.8369	8.6	0.0457	32.5
0.0040	1.4	0.0220	1.1	0.0577	0.0	0.0791	1.6	0.0085	2.2
0.0158	3.5	0.0555	1.1	0.0576	0.0	0.0710	2.7	0.0144	6.3
0.0085	2.9	0.0461	7.7	0.3848	0.8	0.1551	1.5	0.0079	10.1
0.0136	7.4	0.1166	6.7	0.3387	8.3	0.5670	4.4	0.0238	7.6
0.0126	2.9	0.0455	14.8	0.7439	12.3	0.7843	6.5	0.0347	16.7
0.0405	6.8	0.1074	101.1	5.0736	13.0	0.8230	11.6	0.0621	60.7
0.0099	4.3	0.0678	3.0	0.1527	0.0	0.1033	0.8	0.0042	5.2
0.0302	7.1	0.1120	3.5	0.1775	2.7	0.2620	1.1	0.0059	8.1
0.1302	1.9	0.0306	60.4	3.0297	271.1	14.9439	132.9	0.7080	67.3
0.0286	9.2	0.1449	15.9	0.7998	15.6	0.9696	10.8	0.0574	10.2
0.1047	4.6	0.0726	93.2	4.6749	220.0	12.1456	56.9	0.3029	248.3
0.0150	1.4	0.0226	97.3	4.8796	136.5	7.5815	41.7	0.2221	124.4
0.0255	5.0	0.0787	38.3	1.9210	41.4	2.3789	24.3	0.1298	87.6
0.034	**5.556**	**0.088**	**31.205**	**1.566**	**42.718**	**2.446**	**28.367**	**0.151**	**42.484**
0.130	**16.990**	**0.268**	**101.117**	**5.074**	**271.121**	**14.944**	**195.425**	**1.041**	**248.297**

Manganese (ng/m3)	Beryllium (ng/m3)
50.5	0.062
35.3	0.012
13.1	0.018
4.0	0.007
14.2	0.015
18.3	0.008
44.2	0.030
8.2	0.012
8.0	0.008
13.1	0.008
24.2	0.020
27.7	0.013
23.5	0.029
7.2	0.010
21.1	0.019
6.0	0.009

3.4	0.007
13.3	0.007
18.6	**0.016**

Manganese (ng/m3(LC))	Beryllium (ng/m3(LC))
49.2	0.002
31.7	0.002
1.99	0.0007
1.92	0.0004
1.02	0.0006
17.2	**0.0011**

1.5	**0.015**

Manganese (ng/m3(LC))	Beryllium (ng/m3(LC))
90	0.4

Lead (ng/m3) uncertainty
0.7344
0.0644
0.0830
0.0594
0.3566
0.0247
0.0687
0.1114
0.0830
0.1835
0.6664
0.0566
0.0895
0.7388
0.1122
2.7267
1.3659
0.9616
0.467
2.727

Metals	Color
Antimony Oxides	White
Cadmium Sulfide	Yellow
Carbon Oxides	Amber Brown
Chromic Oxide	Emerald Green
Cobalt Oxide	Blue-Violet
Copper Compounds	Blue, Green, Red
Gold Chloride	Red
Iron Oxide	Greens and Browns
Lead Compounds	Yellow
Manganese Dioxide	Purple
Manganese Dioxide	A "decoloring" agent
Nickel Oxide	Violet
Selenium Oxide	Reds
Sodium Nitrate	A "decoloring" agent
Sulfur	Yellow-Amber
Tin Compounds	White
Uranium Oxide	Fluorescent Yellow, Green

http://geology.com/articles/color-in-glass.shtml

	TID		ELPF	Volume	Beryllium (µg/filter)	**Beryllium (ng/m3)**	Beryllium (µg/filter) uncertainty	**Beryllium (ng/m3) uncertainty**	Chromium (µg/filter)
prim	F52211	720	12-Oct-2015	24.04	0.000360	**0.015**	0.000036	**0.0015**	0.612148
Dup	F52212	685	12-Oct-2015	24.04	0.000407	**0.017**	0.000040	**0.0017**	0.625653
% diff						**-13%**		**-13%**	
prim	F52213	720	2-Nov-2015	24.04	0.000162	**0.007**	0.000016	**0.0007**	1.263408
Dup	F52225	685	2-Nov-2015	Max Load	0.000247	**Max Load**	0.000024	**Max Load**	0.469061
% diff						**#VALUE!**		**#VALUE!**	
Field Blank	F52216	685		FB	0.000149	**FB**	0.000015	**FB**	0.422585

Chromium (ng/m3)	Chromium (µg/filter) uncertainty	**Chromium (ng/m3) uncertainty**	Maanese (µg/filter)	**Manganese (ng/m3)**	Maanese (µg/filter) uncertainty	**Manganese (ng/m3) uncertainty**	Cobalt (µg/filter)	**Cobalt (ng/m3)**	Cobalt (µg/filter) uncertainty
25.5	0.051732	**2.2**	0.341501	**14.2**	0.009011	**0.37**	0.021369	**0.9**	0.000800
26.0	0.052873	**2.2**	0.372180	**15.5**	0.009822	**0.41**	0.023136	**1.0**	0.000867
-2%		**-2%**		**-9%**		**-9%**		**-8%**	
52.6	0.106768	**4.4**	0.319138	**13.3**	0.008420	**0.35**	0.016366	**0.7**	0.000613
Max Load	0.039639	**Max Load**	1.264638	**Max Load**	0.033370	**Max Load**	0.030611	**Max Load**	0.001146
#VALUE!		**#VALUE!**		**#VALUE!**		**#VALUE!**		**#VALUE!**	
FB	0.035712	**FB**	0.000000	**FB**	0.000064	**FB**	0.000028	**FB**	0.000002

Cobalt (ng/m3) uncertainty	Nickel (µg/filter)	Nickel (ng/m3)	Nickel (µg/filter) uncertainty	Nickel (ng/m3) uncertainty	Arsenic (µg/filter)	Arsenic (ng/m3)	Arsenic (µg/filter) uncertainty	Arsenic (ng/m3) uncertainty	Selenium (µg/filter)
0.0333	0.193043	**8.0**	0.003045	**0.1267**	0.483273	**20.1**	0.024248	**1.0087**	0.317805
0.0360	0.192664	**8.0**	0.003039	**0.1264**	0.514504	**21.4**	0.025816	**1.0739**	0.344154
-8%		**0%**		**0%**		**-6%**		**-6%**	
0.0255	0.119905	**5.0**	0.001892	**0.0787**	0.920397	**38.3**	0.046181	**1.9210**	0.995504
Max Load	0.742832	**Max Load**	0.011718	**Max Load**	0.008116	**Max Load**	0.000408	**Max Load**	0.000000
#VALUE!		**#VALUE!**		**#VALUE!**		**#VALUE!**		**#VALUE!**	
FB	0.000000	**FB**	0.000010	**FB**	0.000000	**FB**	0.000094	**FB**	0.000000

Selenium (ng/m3)	Selenium (µg/filter) uncertainty	**Selenium (ng/m3) uncertainty**	Cadmium (µg/filter)	**Cadmium (ng/m3)**	Cadmium (µg/filter) uncertainty	**Cadmium (ng/m3) uncertainty**	Lead (µg/filter)	**Lead (ng/m3)**	Lead (µg/filter) uncertainty
13.2	0.020119	**0.8369**	0.206074	**8.6**	0.001100	**0.0457**	0.780619	**32.5**	0.008573
14.3	0.021560	**0.8968**	0.220369	**9.2**	0.001175	**0.0489**	0.826969	**34.4**	0.009082
-8%		**-7%**		**-7%**		**-7%**		**-6%**	
41.4	0.057188	**2.3789**	0.585271	**24.3**	0.003120	**0.1298**	2.105037	**87.6**	0.023117
Max Load	0.001874	**Max Load**	0.001458	**Max Load**	0.000012	**Max Load**	0.000000	**Max Load**	0.000053
#VALUE!		**#VALUE!**		**#VALUE!**		**#VALUE!**		**#VALUE!**	
FB	0.002348	**FB**	0.000859	**FB**	0.000005	**FB**	0.000000	**FB**	0.000059

Lead
(ng/m3)
uncertain
ty

0.3566

0.3778

-6%

0.9616

Max Load

#VALUE!

FB

Table 3

Validation Flag	Sub Flag	Description
b		Blank.
	b1	Field/-dynamic blank.
	b2	Laboratory blank.
	b3	Distilled-deionized water blank.
	b4	Method blank.
	b5	Extract/-solution blank.
	b6	Transport blank.
c		Analysis result reprocessed or recalculated.
	c1	XRF spectrum reprocessed using manually adjusted background.
	c2	XRF spectrum reprocessed using interactive deconvolution
d		Sample dropped.
f		Filter damaged or ripped.
	f1	Filter damaged, outside of analysis area.
	f2	Filter damaged, within analysis area.
	f3	Filter wrinkled.
	f4	Filter stuck to PetriSlide.
	f5	Teflon membrane separated from support ring.
	f6	Pinholes in filter.
g		Filter deposit damaged.
	g1	Deposit scratched or scraped, causing a thin line in the deposit.
	g2	Deposit smudged, causing a large area of deposit to be displaced.
	g3	Filter deposit side down in PetriSlide.
	g4	Part of deposit appears to have fallen off; particles on inside of PetriSlide.
	g5	Ungloved finger touched filter.
	g6	Gloved finger touched filter.
h		Filter holder assembly problem.
	h1	Deposit not centered.
	h2	Sampled on wrong side of filter.
	h4	Filter support grid upside down- deposit has widely spaced stripes or grid pattern.
	h5	Two filters in PetriSlide- analyzed separately.
i		Inhomogeneous sample deposit.
	i1	Evidence of impaction - deposit heavier in center of filter.
	i2	Random areas of darker or lighter deposit on filter.
	i3	Light colored deposit with dark specks.
	i4	Non-uniform deposit near edge - possible air leak.
m		Analysis results affected by matrix effect.
	m1	Organic/elemental carbon split undetermined due to an apparent color change of non-carbon particles during analysis; all measured carbon reported as organic.
	m2	Non-white (red) carbon punch after carbon analysis, indicative of mineral particles in deposit.
	m3	A non-typical, but valid, laser response was observed during TOR analysis. This phenomena may result in increased uncertainty of the organic/elemental carbon split. Total carbon measurements are likely unaffected.
	m4	FID drift quality control failure
	m5	Non-white (grey) carbon punch after carbon analysis.
n		Foreign substance on sample.
	n1	Insects on deposit, removed before analysis.
	n2	Insects on deposit, not all removed.
	n3	Metallic particles observed on deposit.
	n4	Many particles on deposit much larger than cut point of inlet.
	n5	Fibers or fuzz on filter.
	n6	Oily-looking droplets on filter.
	n7	Shiny substance on filter.
	n8	Particles on back of filter.
	n9	Discoloration on deposit.
q		Standard.
	q1	Quality control standard.
	q2	Externally prepared quality control standard.
	q3	Second type of externally prepared quality control standard.
	q4	Calibration standard.
r		Replicate analysis.
	r1	First replicate analysis on the same analyzer.
	r2	Second replicate analysis on the same analyzer.
	r3	Third replicate analysis on the same analyzer.
	r4	Sample re-analysis.
	r5	Replicate on different analyzer.
	r6	Sample re-extraction and re-analysis.
	r7	Sample re-analyzed with same result, original value used.
s		Suspect analysis result.
v		Invalid (void) analysis result.
	v1	Quality control standard check exceeded ± 10% of specified concentration range.
	v2	Replicate analysis failed acceptable limit specified in SOP.
	v3	Potential contamination.
	v4	Concentration out of expected range.
	v5	Instrument hardware error
	v6	Operator error
	v7	Instrument software error
w		Wet Sample.
	w1	Deposit spotted from water drops.
y		Data normalized
	y1	XRF data normalized to a sulfate/sulfur ratio of three
	y2	Each species reported as a percentage of the measured species sum

	TID	ELPF		Volume	Beryllium (µg/filter)	**Beryllium (ng/m3)**
	F52226	685	6-Oct-2015	24.04	0.001490	**0.062**
	F52220	720	7-Oct-2015	24.04	0.000295	**0.012**
	F52221	685	9-Oct-2015	24.04	0.000434	**0.018**
	F52231	720	10-Oct-2015	24.04	0.000176	**0.007**
prim	F52211	720	12-Oct-2015	24.04	0.000360	**0.015**
Dup	F52212	685	12-Oct-2015	24.04	0.000407	**0.017**
	F52230	685	14-Oct-2015	24.04	0.000197	**0.008**
	F52232	720	15-Oct-2015	24.04	0.000718	**0.030**
	F52224	685	17-Oct-2015	24.04	0.000290	**0.012**
	F52217	720	18-Oct-2015	24.04	0.000186	**0.008**
	F52228	685	20-Oct-2015	24.04	0.000204	**0.008**
	F52215	720	21-Oct-2015	24.04	0.000479	**0.020**
	F52229	685	23-Oct-2015	24.04	0.000310	**0.013**
	F52222	720	24-Oct-2015	24.04	0.000694	**0.029**
	F52218	685	26-Oct-2015	24.04	0.000239	**0.010**
	F52214	720	27-Oct-2015	24.04	0.000457	**0.019**
	F52219	685	29-Oct-2015	24.04	0.000215	**0.009**
	F52227	720	30-Oct-2015	24.04	0.000163	**0.007**
prim	F52213	720	2-Nov-2015	24.04	0.000162	**0.007**
Dup	F52225	685	2-Nov-2015	**Inst. Malf**	0.000247	**Inst. Malf**
	average					**0.016**
	Maximum					**0.062**
	F52216	685		FB	0.000149	**FB**

TID	Teflon filter ID
ELPF	ICP Analysis flag
BEPC	Beryllium concentration (µg/filter)
BEPU	Beryllium concentration (µg/filter) uncertainty
CRPC	Chromium concentration (µg/filter)
CRPU	Chromium concentration (µg/filter) uncertainty
MNPC	Manganese concentration (µg/filter)
MNPU	Manganese concentration (µg/filter) uncertainty
COPC	Cobalt concentration (µg/filter)
COPU	Cobalt concentration (µg/filter) uncertainty
NIPC	Nickel concentration (µg/filter)
NIPU	Nickel concentration (µg/filter) uncertainty
ASPC	Arsenic concentration (µg/filter)
ASPU	Arsenic concentration (µg/filter) uncertainty
SEPC	Selenium concentration (µg/filter)
SEPU	Selenium concentration (µg/filter) uncertainty
CDPC	Cadmium concentration (µg/filter)
CDPU	Cadmium concentration (µg/filter) uncertainty

PBPC	Lead concentration (µg/filter)
PBPU	Lead concentration (µg/filter) uncertainty
COMMENT	

Beryllium (µg/filter) uncertainty	**Beryllium (ng/m3) uncertainty**	Chromium (µg/filter)	**Chromium (ng/m3)**	Chromium (µg/filter) uncertainty	**Chromium (ng/m3) uncertainty**	Maanese (µg/filter)	**Manganese (ng/m3)**	Maanese (µg/filter) uncertainty
0.000147	**0.0061**	9.777139	**406.7**	0.826240	**34.4**	1.214065	**50.5**	0.032031
0.000029	**0.0012**	0.485409	**20.2**	0.041021	**1.7**	0.848040	**35.3**	0.022373
0.000043	**0.0018**	0.587165	**24.4**	0.049620	**2.1**	0.316061	**13.1**	0.008341
0.000017	**0.0007**	0.598764	**24.9**	0.050602	**2.1**	0.097215	**4.0**	0.002566
0.000036	**0.0015**	0.612148	**25.5**	0.051732	**2.2**	0.341501	**14.2**	0.009011
0.000040	**0.0017**	0.625653	**26.0**	0.052873	**2.2**	0.372180	**15.5**	0.009822
0.000019	**0.0008**	0.456096	**19.0**	0.038544	**1.6**	0.439205	**18.3**	0.011589
0.000071	**0.0029**	0.418755	**17.4**	0.035388	**1.5**	1.062385	**44.2**	0.028032
0.000029	**0.0012**	0.504036	**21.0**	0.042595	**1.8**	0.197484	**8.2**	0.005212
0.000018	**0.0008**	0.482091	**20.1**	0.040741	**1.7**	0.193051	**8.0**	0.005093
0.000020	**0.0008**	0.513931	**21.4**	0.043431	**1.8**	0.315963	**13.1**	0.008336
0.000047	**0.0020**	0.548455	**22.8**	0.046349	**1.9**	0.582408	**24.2**	0.015366
0.000031	**0.0013**	0.561294	**23.3**	0.047433	**2.0**	0.665881	**27.7**	0.017571
0.000068	**0.0028**	10.565750	**439.5**	0.892885	**37.1**	0.564558	**23.5**	0.014895
0.000024	**0.0010**	1.153036	**48.0**	0.097440	**4.1**	0.173329	**7.2**	0.004573
0.000045	**0.0019**	0.585933	**24.4**	0.049516	**2.1**	0.508412	**21.1**	0.013414
0.000021	**0.0009**	0.905609	**37.7**	0.076531	**3.2**	0.144379	**6.0**	0.003810
0.000016	**0.0007**	0.926290	**38.5**	0.078280	**3.3**	0.080552	**3.4**	0.002126
0.000016	**0.0007**	1.263408	**52.6**	0.106768	**4.4**	0.319138	**13.3**	0.008420
0.000024	**Inst. Malf**	0.469061	**Inst. Malf**	0.039639	**Inst. Malf**	1.264638	**Inst. Malf**	0.033370
	0.002		**69.119**		**5.841**		**18.469**	
	0.006		**439.507**		**37.142**		**50.502**	
0.000015	**FB**	0.422585	**FB**	0.035712	**FB**	0.000000	**FB**	0.000064

(µg/filter)	52211	52211	720
	52212	52212	685
	52213	52213	720
	52214	52214	720
	52215	52215	720
	52217	52217	720
	52218	52218	685
	52219	52219	685
	52220	52220	720
	52221	52221	685
	52222	52222	720
	52224	52224	685
	52225	52225	685
	52226	52226	685
	52227	52227	720
	52228	52228	685

52229	52229	685
52230	52230	685
52231	52231	720
52232	52232	720

Manganese (ng/m3) uncertainty	Cobalt (µg/filter)	**Cobalt (ng/m3)**	Cobalt (µg/filter) uncertainty	**Cobalt (ng/m3) uncertainty**	Nickel (µg/filter)	**Nickel (ng/m3)**	Nickel (µg/filter) uncertainty	**Nickel (ng/m3) uncertainty**
1.33	0.054318	**2.3**	0.002034	**0.0846**	0.408443	**17.0**	0.006443	**0.2680**
0.93	0.007399	**0.3**	0.000277	**0.0115**	0.082391	**3.4**	0.001300	**0.0541**
0.35	0.020704	**0.9**	0.000775	**0.0323**	0.200401	**8.3**	0.003162	**0.1315**
0.11	0.006547	**0.3**	0.000245	**0.0102**	0.055534	**2.3**	0.000876	**0.0365**
0.37	0.021369	**0.9**	0.000800	**0.0333**	0.193043	**8.0**	0.003045	**0.1267**
0.41	0.023136	**1.0**	0.000867	**0.0360**	0.192664	**8.0**	0.003039	**0.1264**
0.48	0.002557	**0.1**	0.000096	**0.0040**	0.033508	**1.4**	0.000529	**0.0220**
1.17	0.010155	**0.4**	0.000380	**0.0158**	0.084535	**3.5**	0.001334	**0.0555**
0.22	0.005426	**0.2**	0.000203	**0.0085**	0.070249	**2.9**	0.001108	**0.0461**
0.21	0.008747	**0.4**	0.000328	**0.0136**	0.177632	**7.4**	0.002802	**0.1166**
0.35	0.008065	**0.3**	0.000302	**0.0126**	0.069397	**2.9**	0.001095	**0.0455**
0.64	0.025995	**1.1**	0.000974	**0.0405**	0.163602	**6.8**	0.002581	**0.1074**
0.73	0.006332	**0.3**	0.000237	**0.0099**	0.103368	**4.3**	0.001631	**0.0678**
0.62	0.019358	**0.8**	0.000725	**0.0302**	0.170744	**7.1**	0.002694	**0.1120**
0.19	0.083590	**3.5**	0.003131	**0.1302**	0.046621	**1.9**	0.000736	**0.0306**
0.56	0.018330	**0.8**	0.000687	**0.0286**	0.220851	**9.2**	0.003484	**0.1449**
0.16	0.067175	**2.8**	0.002516	**0.1047**	0.110607	**4.6**	0.001745	**0.0726**
0.09	0.009627	**0.4**	0.000361	**0.0150**	0.034380	**1.4**	0.000543	**0.0226**
0.35	0.016366	**0.7**	0.000613	**0.0255**	0.119905	**5.0**	0.001892	**0.0787**
Inst. Malf	0.030611	**Inst. Malf**	0.001146	**Inst. Malf**	0.742832	**Inst. Malf**	0.011718	**Inst. Malf**
0.487		**0.909**		**0.034**		**5.556**		**0.088**
1.332		**3.477**		**0.130**		**16.990**		**0.268**
FB	0.000028	**FB**	0.000002	**FB**	0.000000	**FB**	0.000010	**FB**

Arsenic (µg/filter)	**Arsenic (ng/m3)**	Arsenic (µg/filter) uncertainty	**Arsenic (ng/m3) uncertainty**	Selenium (µg/filter)	**Selenium (ng/m3)**	Selenium (µg/filter) uncertainty	**Selenium (ng/m3) uncertainty**	Cadmium (µg/filter)
1.803122	**75.0**	0.090472	**3.7634**	0.234985	**9.8**	0.015588	**0.6484**	0.312144
0.072391	**3.0**	0.003632	**0.1511**	0.098170	**4.1**	0.008105	**0.3371**	0.053429
0.212310	**8.8**	0.010654	**0.4432**	1.097347	**45.6**	0.062759	**2.6106**	0.332168
0.487534	**20.3**	0.024464	**1.0176**	0.071354	**3.0**	0.006638	**0.2761**	4.698015
0.483273	**20.1**	0.024248	**1.0087**	0.317805	**13.2**	0.020119	**0.8369**	0.206074
0.514504	**21.4**	0.025816	**1.0739**	0.344154	**14.3**	0.021560	**0.8968**	0.220369
0.027602	**1.1**	0.001388	**0.0577**	0.000000	**0.0**	0.001901	**0.0791**	0.038373
0.027530	**1.1**	0.001384	**0.0576**	0.000000	**0.0**	0.001706	**0.0710**	0.064711
0.184350	**7.7**	0.009250	**0.3848**	0.018158	**0.8**	0.003728	**0.1551**	0.035416
0.162261	**6.7**	0.008142	**0.3387**	0.199185	**8.3**	0.013630	**0.5670**	0.106763
0.356410	**14.8**	0.017884	**0.7439**	0.294675	**12.3**	0.018853	**0.7843**	0.156271
2.430858	**101.1**	0.121969	**5.0736**	0.311687	**13.0**	0.019784	**0.8230**	0.279898
0.073123	**3.0**	0.003670	**0.1527**	0.000000	**0.0**	0.002483	**0.1033**	0.018624
0.085017	**3.5**	0.004267	**0.1775**	0.065133	**2.7**	0.006298	**0.2620**	0.026580
1.451589	**60.4**	0.072834	**3.0297**	6.517750	**271.1**	0.359250	**14.9439**	3.195142
0.383167	**15.9**	0.019227	**0.7998**	0.376118	**15.6**	0.023308	**0.9696**	0.258913
2.239859	**93.2**	0.112385	**4.6749**	5.287937	**220.0**	0.291981	**12.1456**	1.366799
2.337929	**97.3**	0.117307	**4.8796**	3.282050	**136.5**	0.182260	**7.5815**	1.001881
0.920397	**38.3**	0.046181	**1.9210**	0.995504	**41.4**	0.057188	**2.3789**	0.585271
0.008116	**Inst. Malf**	0.000408	**Inst. Malf**	0.000000	**Inst. Malf**	0.001874	**Inst. Malf**	0.001458
	31.205		**1.566**		**42.718**		**2.446**	
	101.117		**5.074**		**271.121**		**14.944**	
0.000000	**FB**	0.000094	**FB**	0.000000	**FB**	0.002348	**FB**	0.000859

Cadmium (ng/m3)	Cadmium (µg/filter) uncertainty	**Cadmium (ng/m3) uncertainty**	Lead (µg/filter)	**Lead (ng/m3)**	Lead (µg/filter) uncertainty	**Lead (ng/m3) uncertainty**
13.0	0.001663	**0.0692**	1.607603	**66.9**	0.017655	**0.7344**
2.2	0.000286	**0.0119**	0.140977	**5.9**	0.001548	**0.0644**
13.8	0.001770	**0.0736**	0.181630	**7.6**	0.001995	**0.0830**
195.4	0.025033	**1.0413**	0.130060	**5.4**	0.001428	**0.0594**
8.6	0.001100	**0.0457**	0.780619	**32.5**	0.008573	**0.3566**
9.2	0.001175	**0.0489**	0.826969	**34.4**	0.009082	**0.3778**
1.6	0.000205	**0.0085**	0.054054	**2.2**	0.000594	**0.0247**
2.7	0.000346	**0.0144**	0.150379	**6.3**	0.001651	**0.0687**
1.5	0.000189	**0.0079**	0.243870	**10.1**	0.002678	**0.1114**
4.4	0.000572	**0.0238**	0.181687	**7.6**	0.001995	**0.0830**
6.5	0.000835	**0.0347**	0.401609	**16.7**	0.004410	**0.1835**
11.6	0.001494	**0.0621**	1.458829	**60.7**	0.016021	**0.6664**
0.8	0.000100	**0.0042**	0.123936	**5.2**	0.001361	**0.0566**
1.1	0.000143	**0.0059**	0.195872	**8.1**	0.002151	**0.0895**
132.9	0.017021	**0.7080**	1.617265	**67.3**	0.017760	**0.7388**
10.8	0.001381	**0.0574**	0.245589	**10.2**	0.002697	**0.1122**
56.9	0.007283	**0.3029**	5.969062	**248.3**	0.065551	**2.7267**
41.7	0.005338	**0.2221**	2.990152	**124.4**	0.032837	**1.3659**
24.3	0.003120	**0.1298**	2.105037	**87.6**	0.023117	**0.9616**
Inst. Malf	0.000012	**Inst. Malf**	0.000000	**Inst. Malf**	0.000053	**Inst. Malf**
28.367		**0.151**		**42.484**		**0.467**
195.425		**1.041**		**248.297**		**2.727**
FB	0.000005	**FB**	0.000000	**FB**	0.000059	**FB**

Sample Number	Equipment S/N	Set up Date	& Time	Sample Date	& Time	Total Run Time	Flow Rate (lpm)	Volume (M^3)	Retrieval Date	& Time	Sample Type	Valid/ Void	Operator Initials
52211	720	11-Oct-2015	18:28	12-Oct-2015	0:01	1440	16.7	24.04	13-Oct-2015	10:22	Both	valid	JB/MK
52212	685	11-Oct-2015	18:22	12-Oct-2015	0:01	1440	16.7	24.04	13-Oct-2015	10:17	P2	valid	JB/MK
52213	720	31-Oct-2015	16:43	2-Nov-2015	0:01	1440	16.7	24.04	3-Nov-2015	13:23	Both	valid	JB/MK
52214	720	25-Jan-1900	11:26	27-Oct-2015	0:01	1440	16.7	24.04	28-Oct-2015	18:03	P2	valid	JB/MK
52215	720	19-Oct-2015	16:55	21-Oct-2015	0:01	1440	16.7	24.04	22-Oct-2015	11:23	P2	valid	JB/MK
52216	685	16-Oct-2015		NA	NA	NA	NA	NA	16-Oct-2015		P1	valid	JB/MK/CBM
52217	720	16-Oct-2015	14:41	18-Oct-2015	0:01	1440	16.7	24.04	19-Oct-2015	16:53	P2	valid	JB/MK
52218	685	25-Oct-2015	11:23	26-Oct-2015	0:01	1440	16.7	24.04	28-Oct-2015	17:58	P1	valid	JB/MK
52219	685	28-Oct-2015	18:01	29-Oct-2015	0:01	1440	16.7	24.04	31-Oct-2015	16:35	P1	valid	JB/MK
52220	720	5-Oct-2015	14:18	7-Oct-2015	0:01	1440	16.7	24.04	8-Oct-2015	12:35	P2	valid	JB/MK
52221	685	8-Oct-2015	12:37	9-Oct-2015	0:01	1440	16.7	24.04	11-Oct-2015	18:19	P1	valid	JB/MK
52222	720	22-Oct-2015	11:28	24-Oct-2015	0:01	1440	16.7	24.04	25-Oct-2015	11:25	P2	valid	JB/MK
52224	685	16-Oct-2015	14:39	17-Oct-2015	0:01	1440	16.7	24.04	19-Oct-2015	16:49	P1	valid	JB/MK/CBM
52225	685	31-Oct-2015	16:38	2-Nov-2015	0:01	------	16.7	Max Load	2-Nov-2015	13:20	Both	void	JB/MK
52226	685	5-Oct-2015	14:15	6-Oct-2015	0:01	1440	16.7	24.04	8-Oct-2015	12:31	P1	valid	JB/MK
52227	720	28-Oct-2015	18:05	30-Oct-2015	0:01	1440	16.7	24.04	31-Oct-2015	16:41	P2	valid	JB/MK
52228	685	19-Oct-2015	16:51	20-Oct-2015	0:01	1440	16.7	24.04	22-Oct-2015	11:21	P1	valid	JB/MK
52229	685	22-Oct-2015	11:24	23-Oct-2015	0:01	1440	16.7	24.04	25-Oct-2015	11:20	P1	valid	JB/MK
52230	685	13-Oct-2015	10:19	14-Oct-2015	0:01	1440	16.7	24.04	16-Oct-2015	14:13	P1	valid	JB/MK
52231	720	8-Oct-2015	12:47	10-Oct-2015	0:01	1440	16.7	24.04	11-Oct-2015	18:25	P2	valid	JB/MK
52232	720	13-Oct-2015	10:24	15-Oct-2015	0:01	1440	16.7	24.04	16-Oct-2015	14:35	P2	valid	JB/MK

24.048

Field Blank

TID	ELPF	BEPC	BEPU
		ug/filter Ug/m3	
F52211		0.000360	0.000036
F52212		0.000407	0.000040
F52213		0.000162	0.000016
F52214		0.000457	0.000045
F52215		0.000479	0.000047
F52216		0.000149	0.000015
F52217		0.000186	0.000018
F52218		0.000239	0.000024
F52219		0.000215	0.000021
F52220		0.000295	0.000029
F52221		0.000434	0.000043
F52222		0.000694	0.000068
F52224		0.000290	0.000029
F52225		0.000247	0.000024
F52226		0.001490	0.000147
F52227		0.000163	0.000016
F52228		0.000204	0.000020
F52229		0.000310	0.000031
F52230		0.000197	0.000019
F52231		0.000176	0.000017
F52232		0.000718	0.000071

micrograms per filter

TID	Teflon filter ID
ELPF	ICP Analysis flag
BEPC	Beryllium Filter mass (µg/filter)
BEPU	Beryllium Filter mass (µg/filter) uncertainty
CRPC	Chromium Filter mass (µg/filter)
CRPU	Chromium Filter mass (µg/filter) uncertainty
MNPC	Manganese Filter mass (µg/filter)
MNPU	Manganese Filter mass (µg/filter) uncertainty
COPC	Cobalt Filter mass (µg/filter)
COPU	Cobalt Filter mass (µg/filter) uncertainty
NIPC	Nickel Filter mass (µg/filter)
NIPU	Nickel Filter mass (µg/filter) uncertainty
ASPC	Arsenic Filter mass (µg/filter)
ASPU	Arsenic Filter mass (µg/filter) uncertainty
SEPC	Selenium Filter mass (µg/filter)
SEPU	Selenium Filter mass (µg/filter) uncertainty
CDPC	Cadmium Filter mass (µg/filter)
CDPU	Cadmium Filter mass (µg/filter) uncertainty
PBPC	Lead Filter mass (µg/filter)
PBPU	Lead Filter mass (µg/filter) uncertainty
COMMENT	

CRPC	CRPU	MNPC	MNPU	COPC	COPU
0.612148	0.051732	0.341501	0.009011	0.021369	0.000800
0.625653	0.052873	0.372180	0.009822	0.023136	0.000867
1.263408	0.106768	0.319138	0.008420	0.016366	0.000613
0.585933	0.049516	0.508412	0.013414	0.018330	0.000687
0.548455	0.046349	0.582408	0.015366	0.025995	0.000974
0.422585	0.035712	0.000000	0.000064	0.000028	0.000002
0.482091	0.040741	0.193051	0.005093	0.008747	0.000328
1.153036	0.097440	0.173329	0.004573	0.083590	0.003131
0.905609	0.076531	0.144379	0.003810	0.067175	0.002516
0.485409	0.041021	0.848040	0.022373	0.007399	0.000277
0.587165	0.049620	0.316061	0.008341	0.020704	0.000775
10.565750	0.892885	0.564558	0.014895	0.019358	0.000725
0.504036	0.042595	0.197484	0.005212	0.005426	0.000203
0.469061	0.039639	1.264638	0.033370	0.030611	0.001146
9.777139	0.826240	1.214065	0.032031	0.054318	0.002034
0.926290	0.078280	0.080552	0.002126	0.009627	0.000361
0.513931	0.043431	0.315963	0.008336	0.008065	0.000302
0.561294	0.047433	0.665881	0.017571	0.006332	0.000237
0.456096	0.038544	0.439205	0.011589	0.002557	0.000096
0.598764	0.050602	0.097215	0.002566	0.006547	0.000245
0.418755	0.035388	1.062385	0.028032	0.010155	0.000380

NIPC	NIPU	ASPC	ASPU	SEPC
0.193043	0.003045	0.483273	0.024248	0.317805
0.192664	0.003039	0.514504	0.025816	0.344154
0.119905	0.001892	0.920397	0.046181	0.995504
0.220851	0.003484	0.383167	0.019227	0.376118
0.163602	0.002581	2.430858	0.121969	0.311687
0.000000	0.000010	0.000000	0.000094	0.000000
0.177632	0.002802	0.162261	0.008142	0.199185
0.046621	0.000736	1.451589	0.072834	6.517750
0.110607	0.001745	2.239859	0.112385	5.287937
0.082391	0.001300	0.072391	0.003632	0.098170
0.200401	0.003162	0.212310	0.010654	1.097347
0.170744	0.002694	0.085017	0.004267	0.065133
0.070249	0.001108	0.184350	0.009250	0.018158
0.742832	0.011718	0.008116	0.000408	0.000000
0.408443	0.006443	1.803122	0.090472	0.234985
0.034380	0.000543	2.337929	0.117307	3.282050
0.069397	0.001095	0.356410	0.017884	0.294675
0.103368	0.001631	0.073123	0.003670	0.000000
0.033508	0.000529	0.027602	0.001388	0.000000
0.055534	0.000876	0.487534	0.024464	0.071354
0.084535	0.001334	0.027530	0.001384	0.000000

SEPU	CDPC	CDPU	PBPC	PBPU	COMMENT
0.020119	0.206074	0.001100	0.780619	0.008573	
0.021560	0.220369	0.001175	0.826969	0.009082	
0.057188	0.585271	0.003120	2.105037	0.023117	
0.023308	0.258913	0.001381	0.245589	0.002697	
0.019784	0.279898	0.001494	1.458829	0.016021	
0.002348	0.000859	0.000005	0.000000	0.000059	
0.013630	0.106763	0.000572	0.181687	0.001995	
0.359250	3.195142	0.017021	1.617265	0.017760	
0.291981	1.366799	0.007283	5.969062	0.065551	
0.008105	0.053429	0.000286	0.140977	0.001548	
0.062759	0.332168	0.001770	0.181630	0.001995	
0.006298	0.026580	0.000143	0.195872	0.002151	
0.003728	0.035416	0.000189	0.243870	0.002678	
0.001874	0.001458	0.000012	0.000000	0.000053	
0.015588	0.312144	0.001663	1.607603	0.017655	
0.182260	1.001881	0.005338	2.990152	0.032837	
0.018853	0.156271	0.000835	0.401609	0.004410	
0.002483	0.018624	0.000100	0.123936	0.001361	
0.001901	0.038373	0.000205	0.054054	0.000594	
0.006638	4.698015	0.025033	0.130060	0.001428	
0.001706	0.064711	0.000346	0.150379	0.001651	

Standard AIR CONTAMINANT DISCHARGE PERMIT REVIEW REPORT

Department of Environmental Quality
Northwest Region

Source Information:

SIC	3211
NAICS	327211

Source Categories (Table 1 Part, code)	B, 83
Public Notice Category	II

Compliance and Emissions Monitoring Requirements:

FCE	
Compliance schedule	
Unassigned emissions	
Emission credits	
Special Conditions	

Source test [date(s)]	
COMS	
CEMS	
Ambient monitoring	

Reporting Requirements

Annual report (due date)	15 Feb
Quarterly report (due dates)	

Monthly report (due dates)	
Excess emissions report	
Other (specify)	

Air Programs

Synthetic Minor (SM)	
SM -80	
NSPS (list subparts)	
NESHAP (list subparts)	61, N
Part 68 Risk Management	
CFC	

NSR	
PSD	
RACT	
TACT	x
Other (specify)	

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PERMITTING

PERMITTING ACTION

1. The permit is for an existing Air Contaminant Discharge Permit (ACDP) which was issued on 8/6/04 and was originally scheduled to expire on 6/1/09. It is a Standard permit, as the permittee has chosen to retain the facility's baseline emission rates.

2. The renewal application was submitted on 3/18/09. In April 2009, Bullseye Glass requested from EPA a determination of whether the facility is subject to 40 CFR 61, Subpart N, National Emission Standards for Inorganic Arsenic Emissions from Glass Manufacturing. EPA's determination, as contained in a letter dated 7/27/2010, was that the Subpart is applicable to the Bulleye facility.

OTHER PERMITS

3. No other permits have been issued or are required by the Department of Environmental Quality for this source.

ATTAINMENT STATUS

4. The source is located in a maintenance area for CO and Ozone. NO_X and VOC are precursors to Ozone. The facility is an insignificant source of CO, NO_X and VOC. The area is in attainment for all other criteria pollutants.

SOURCE DESCRIPTION

OVERVIEW

5. The permittee manufactures flat, stained glass. The process includes mixing sand, soda lime, and crushed glass with dry coloring agents, moistening the mixture with water, melting the mixture in a tank furnace, and forming glass sheets. The sheets are cut to specified sizes. The facility was built in1974.

6. In 2006, the process was changed to allow the infusion of liquid oxygen into the furnaces during the melting process in lieu of ambient air. This change in process lowered NO_X emissions by roughly 40% for each retrofitted furnace. The change is made to the various furnaces during scheduled downtime (once every two years).

PROCESS AND CONTROL DEVICES

7. Existing air contaminant sources at the facility consist of the following:

   a. A Torit baghouse collects PM emissions from the silos that feed into the batch room, installed 2000. Collected material is reused in the process.
   b. 14 tank furnaces (1-9 and 11-15), natural gas fired with propane back-up; cumulative operating capacity of 885 lb/hr and 2,700 ton/yr, 16,625 ft^3/hr.
   c. 2 pot furnaces (10 & 17), natural gas fired with propane back-up; cumulative operating capacity of 35 lb/hr and 100 ton/yr, 475 ft^3/hr
   d. New capacity is expected from the installation of new furnaces (18-20) or expanding the existing capacity of existing equipment. Anticipated cumulative capacity is 115 lb/hr and 350 ton/yr. This equipment will also be fired on natural gas with propane back-up and combust 3,800 ft^3/hr.
   e. Total fuel usage is estimated at 171 million ft^3/yr.

COMPLIANCE

8. The facility was inspected on 9/14/05 and found to be out of compliance with the permit requirement to monitor the use of arsenic trioxide. The company responded to a Warning Letter by instituting procedures to monitor the use of arsenic trioxide monthly. No further action was deemed necessary. The facility was inspected on 8/16/10 and found to be in compliance with permit conditions.

9. During the prior permit period one complaint regarding the issuance of black smoke was recorded for this facility. A site visit on 9/13/07 revealed that the black smoke observed most likely came from a train. Train tracks run one block northwest of the plant. Emission exhaust points at the plant were observed during two batch processes; one for clear glass and one for red glass. No visible emissions were noted.

EMISSIONS

10. Proposed PSEL information:

Pollutant	Baseline Emission Rate (tons/yr)	Netting Basis		Plant Site Emission Limits (PSEL)		
		Previous (tons/yr)	Proposed (tons/yr)	Previous PSEL (tons/yr)	Proposed PSEL (tons/yr)	PSEL Increase (tons/yr)
PM_{10}	0	1	0	14	14	0
SO_2	0	1	0	39	39	0
NO_x	6	6	6	45	45	0

a. The proposed PSELs for all pollutants except NO_X are equal to the Generic PSEL in accordance with OAR 340-216-0064(4)(b) and the netting basis is zero in accordance with OAR 340-222-0040(2). This change is a correction to the previous permit/review report. The facility's PTE for PM_{10} and SO_2 are less than the Generic PSEL, thus the netting basis is zero.
b. The PSEL for PM has been removed from the permit. Emissions from natural gas combustion and emissions from dry materials handling treated by a baghouse are PM_{10}.
c. The PSEL for NO_X is equal to the netting basis plus the generic PSEL.
d. For the 2009 production of 2,144 tons of glass melted, emissions of 1.8 tons PM, 1.7 tons PM_{10}, 2.7 tons SO_2, and 17.9 tons NO_X were reported.
e. The PSEL is a federally enforceable limit on the potential to emit.

SIGNIFICANT EMISSION RATE ANALYSIS

11. For each pollutant, the proposed Plant Site Emission Limit is less than the Netting Basis plus the significant emission rate, thus no further air quality analysis is required.

MAJOR SOURCE APPLICABILITY

CRITERIA POLLUTANTS

12. A major source is a facility that has the potential to emit 100 tons/yr or more per year of any criteria pollutant. This facility is not a major source of criteria pollutant emissions.

HAZARDOUS AIR POLLUTANTS

13. A major source is a facility that has the potential to emit 10 tons/yr or more of any single HAP or 25 tons/yr or more of combined HAPs. This facility uses approximately 6,000 pounds of dry materials per year that contain HAP substances. Materials used at the facility may include arsenic trioxide, cadmium, selenium, chromium, and lead as coloring agents or to produce trade-mark characteristics in the glass. After the dry products are mixed, water is added to moisten a batch prior to firing. No data on the potential emissions through the furnace stack from these hydrated mixtures is available. Assuming that all of the material was released as PM, the facility would not have the potential to emit single or combined HAP at or above the major source threshold.

ADDITIONAL REQUIREMENTS

NSPS APPLICABILITY

14. 40 CFR Part 60, Subpart CC, New Source Performance Standards for Glass Manufacturing Plants, is not applicable to the source because the facility was constructed in 1974, prior to the June 15, 1979 subpart promulgation date.

NESHAPS/MACT APPLICABILITY

15. 40 CFR 63, Subpart SSSSSS, NESHAP for Glass Manufacturing Area Sources, is not applicable to this facility because the regulation applies only to continuous furnaces. Bullseye operates only periodic furnaces.

16. 40 CFR Part 61, Subpart N, National Emission Standards for Inorganic Arsenic Emissions from Glass Manufacturing, applies to a facility of any size existing prior to August 4, 1986. The limit for an uncontrolled source is 2.7 tons of arsenic emissions per year, based on mass balance. Bullseye reported the use of 825 pounds of arsenic in calendar year 2009.

RACT APPLICABILITY

17. The facility is located in the Portland AQMA, but it is not one of the listed source categories in OAR 340-232-0010, thus the RACT rules do not apply

TACT APPLICABILITY

18. The source is meeting the states TACT/Highest and Best Rules by collecting dry material fugitives in a baghouse and using water to moisten the mixture prior to firing.

PUBLIC NOTICE

19. Pursuant to OAR 340-216-0066(4)(a)(A), issuance of Standard Air Contaminant Discharge Permits require public notice in accordance with OAR 340-209-0030(3)(b), which requires that the Department provide notice of the proposed permit action and a minimum of 35 days for interested persons to submit written comments. **The public notice was mailed on April 15, 2011 and the comment period ended at 5 p.m., May 20, 2011. No comments were received during the comment period.**

ka:ggg
5/24/11

STANDARD
AIR CONTAMINANT DISCHARGE PERMIT

Department of Environmental Quality
Northwest Region
2020 SW 4th Avenue, #400
Portland, Oregon 97201
(503) 229-5554

This permit is being issued in accordance with the provisions of ORS 468A.040 and based on the land use compatibility findings included in the permit record.

ISSUED TO:

Bullseye Glass Co.
3722 SE 21st Avenue
Portland, OR 97202

INFORMATION RELIED UPON:

Application No.: 023633
Date Received: 03/18/09
Additional information received through 07/27/10

PLANT SITE LOCATION:

3722 SE 21st Avenue
Portland, OR 97202

LAND USE COMPATIBILITY FINDING:

Approving Authority: City of Portland
Approval Date: 03/11/97

ISSUED BY THE DEPARTMENT OF ENVIRONMENTAL QUALITY

Keith Johnson, Northwest Region Air Quality Manager — Dated 5/24/2011

Source(s) Permitted to Discharge Air Contaminants (OAR 340-216-0020):

Table 1 Code	Source Description	SIC / NAICS
Part B, 83	Problem for which an air quality concern is identified (stained flat glass manufacture)	3211 / 327211
C, 3	Source electing to maintain Baseline Emission Rate	n/a

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1.0 GENERAL EMISSION STANDARDS AND LIMITS

1.1. Visible Emissions

The permittee must ensure that emissions from any air contaminant source does not equal or exceed 20% opacity for a period aggregating more than 30 seconds in any one hour.

1.2. Particulate Matter Emissions

The permittee must ensure that particulate matter emissions from any air contaminant source other than fugitive emission sources does not exceed 0.1 grains per standard cubic foot

1.3. Fugitive Emissions

The permittee must take reasonable precautions to prevent fugitive dust emissions by:

a. Operating all air contaminant-generating processes so that fugitive type dust associated with the operation will be adequately controlled at all times.

b. Storing collected materials from air pollution control equipment in a covered container or other method equally effective in preventing the material from becoming airborne during storage and transfer.

1.4. Particulate Matter Fallout

The permittee must not cause or permit the emission of any particulate matter larger than 250 microns in size at sufficient duration or quantity, as to create an observable deposition upon the real property of another person. The Department will verify that the deposition exists and will notify the permittee that the deposition must be controlled.

1.5. Nuisance and Odors

The permittee must not cause or allow air contaminants from any source to cause a nuisance. Nuisance conditions will be verified by Department personnel.

2.0 SPECIFIC PERFORMANCE AND EMISSION STANDARDS

2.1. Inorganic Arsenic Usage

The permittee must ensure that arsenic emissions from each furnace do not exceed: existing (constructed prior to 8/4/1986) furnace do not exceed 2.7 tons per year

a. 2.7 tons per year for furnaces constructed prior to 8/14/1986 (existing furnaces)

b. 0.44. tons per year for furnaces constructed or modified after 8/14/1986 (new furnaces)

c. The permittee must operate and maintain each furnace in a manner consistent with good air pollution control practice to minimize emissions at all times.

d. Semi-annually, perform the calculations required in 40 CFR 61.164(c) to estimate uncontrolled plant-wide arsenic emissions.

e. Record the occurrence and duration of all startups, shutdowns, and malfunctions of each furnace.

3.0 PLANT SITE EMISSION LIMITS

3.1. Plant Site Emission Limits (PSEL)

Plant site emissions must not exceed the following:

Pollutant	Limit	Units
PM_{10}	14	tons per year
SO_2	39	tons per year
NO_X	39	tons per year

3.2. Annual Period

The annual plant site emissions limits apply to any 12-consecutive calendar month period.

4.0 COMPLIANCE DEMONSTRATION

4.1. PSEL Compliance Monitoring

Compliance with the PSEL is determined for each 12-consecutive calendar month period based on the following calculation for each pollutant:

$$E = \Sigma(EF \times P)/2000 \text{ lbs}$$

where,

E = pollutant emissions (ton/yr);
EF = pollutant emission factor (Condition 4.2);
P = process production (glass melted)

4.2. Emission Factors

The permittee must use the default emission factors provided in here for calculating pollutant emissions, unless alternative emission factors are approved by the Department. The permittee may request or the Department may require using alternative emission factors provided they are based on actual test data or other documentation (e.g., AP-42 compilation of emission factors) that has been reviewed and approved by the Department.

1.9 lb PM_{10}/ton glass melted
3.0 lb SO_2/ton glass melted
11.9 lb NO_X/ton glass melted for oxygen-fed furnaces
19.8 lb NO_X/ton glass melted for unconverted furnaces

5.0 RECORDKEEPING REQUIREMENTS

5.1. Operation and Maintenance

The permittee must maintain the following records related to the operation and maintenance of the plant and associated air contaminant control devices:

a. Tons of glass melted, monthly;

b. Types and quantities of glass containing arsenic, annually;

c. Emissions calculations required in Condition 4.1, monthly;

d. Semi-annual emissions calculation required in Condition 2.1, annually

5.2. Excess Emissions

The permittee must maintain records of excess emissions as defined in OAR 340-214-0300 through 340-214-0340 (recorded on occurrence). Typically, excess emissions are caused by process upsets, startups, shutdowns, or scheduled maintenance. In many cases, excess emissions are evident when visible emissions are greater than 20% opacity for 3 minutes or more in any 60-minute period. If there is an ongoing excess emission caused by an upset or breakdown, the permittee must cease operation of the equipment or facility no later than 48 hours after the beginning of the excess emissions, unless continued operation is approved by the Department in accordance with OAR 340-214-0330(4).

5.3. Complaint Log

The permittee must maintain a log of all written complaints and complaints received via telephone that specifically refer to air pollution concerns associated to the permitted facility. The log must include a record of the permittee's actions to investigate the validity of each complaint and a record of actions taken for complaint resolution.

5.4. Retention of Records

Unless otherwise specified, all records must be maintained on site for a period of two (2) years and made available to the Department upon request.

6.0 REPORTING REQUIREMENTS

6.1. Excess Emissions

The permittee must notify the Department of excess emissions events if the excess emission is of a nature that could endanger public health.

a. Such notice must be provided as soon as possible, but never more than one hour after becoming aware of the

problem. Notice must be made to the regional office identified in Condition 8.3 by e-mail, telephone, facsimile, or in person.

b. If the excess emissions occur during non-business hours, the permittee must notify the Department by calling the Oregon Emergency Response System (OERS). The current number is 1-800-452-0311.

c. The permittee must also submit follow-up reports when required by the Department.

6.2. Annual Report

For each year this permit is in effect, the permittee must submit to the Department by **February 15** two (2) copies of the following information for the previous calendar year:

a. Operating parameters:

i. Tons of glass melted;

ii. Types and quantities of glass melted that contain arsenic;

iii. Summary of annual pollutant emissions determined each month in accordance with Condition 4.1, with annual totals noted;

iv. Results of the calculations required in Condition 2.1.

b. Records of all planned and unplanned excess emissions events.

c. Summary of complaints relating to air quality received by permittee during the year.

d. List permanent changes made in plant process, production levels, and pollution control equipment which affected air contaminant emissions.

e. List major maintenance performed on pollution control equipment.

6.3. Notice of Change of Ownership or Company Name

The permittee must notify the Department in writing using a Departmental "Permit Application Form" within 60 days after the following:

a. Legal change of the name of the company as registered with the Corporations Division of the State of Oregon; or

b. Sale or exchange of the activity or facility.

6.4. Construction or Modification Notices

The permittee must notify the Department in writing using a Departmental "Notice of Construction Form," or "Permit Application Form," and obtain approval in accordance with OAR 340-210-0205 through 340-210-0250 before:

a. Constructing, installing, or establishing a new stationary source that will cause an increase in any regulated pollutant emissions;

b. Making any physical change or change in operation of an existing stationary source that will cause an increase, on an hourly basis at full production, in any regulated pollutant emissions; or

c. Constructing or modifying any air pollution control equipment.

7.0 PERMIT RENEWAL AND MODIFICATION

7.1. Permit Renewal Application

The completed application package for renewal of this permit is due on 4/1/2015. Two (2) copies of the application must be submitted to the DEQ Permit Coordinator listed in Condition 8.2

7.2. Permit Modifications

Application for a modification of this permit must be submitted not less than **60** days prior to the source modification. A special activity fee must be submitted with an application for the permit modification. The fees and two (2) copies of the application must be submitted to the Business Office of the Department.

8.0 DEQ CONTACTS / ADDRESSES

8.1. Business Office

The permittee must submit payments for invoices, applications to modify the permit, and any other payments to DEQ's Business Office:

Department of Environmental Quality
Business Office
811 SW Sixth Avenue
Portland, Oregon 97204-1390

8.2.	**Permit Coordinator**	The permittee must submit all Notices and applications that do not include payment to the Northwest Region's Permit Coordinator: Department of Environmental Quality Northwest Region 2020 SW 4th Avenue, Suite 400 Portland, OR 97201-4987 Telephone: (503) 229-5582
8.3.	**Field Office**	Unless otherwise notified, the permittee must submit all reports (annual reports, source test plans and reports, etc.) to field office noted below. Department of Environmental Quality NWR-ESO/AQ 1550 NW Eastman Pkwy, Suite 290 Gresham, OR 97030 Telephone: (503) 667-8414
8.4.	**Web Site**	Information about air quality permits and the Department's regulations may be obtained from the DEQ web page at www.deq.state.or.us

9.0 FEES

9.1.	**Annual Compliance Fee**	The Annual Fee specified in OAR 340-216-0020, Table 2, Part 2 for a Standard ACDP is due on **December 1** of each year this permit is in effect. An invoice indicating the amount, as determined by Department regulations, will be mailed prior to the above date. **Late fees in accordance with Part 4 of the table will be assessed as appropriate.**
9.2.	**Change of Ownership or Company Name Fee**	The non-technical permit modification fee specified in OAR 340-216-0020, Table 2, Part 3(a) is due with an application for changing the ownership or the name of the company.
9.3.	**Special Activity Fees**	The special activity fees specified in OAR 340-216-0020, Table 2, Part 3 (b through i) are due with an application to modify the permit.

10.0 GENERAL CONDITIONS AND DISCLAIMERS

10.1.	**Permitted Activities**	This permit allows the permittee to discharge air contaminants from processes and activities related to the air contaminant source(s) listed on the first page of this permit until this permit expires, is modified, or is revoked.
10.2.	**Other Regulations**	In addition to the specific requirements listed in this permit, the permittee must comply with all other legal requirements enforceable by the Department.
10.3.	**Conflicting Conditions**	In any instance in which there is an apparent conflict relative to conditions in this permit, the most stringent conditions apply.
10.4.	**Masking of Emissions**	The permittee must not cause or permit the installation of any device or use any means designed to mask the emissions of an air contaminant that causes or is likely to cause detriment to health, safety, or welfare of any person or otherwise violate any other regulation or requirement.
10.5.	**Department Access**	The permittee must allow the Department's representatives access to the plant site and pertinent records at all reasonable times for the purposes of performing inspections, surveys, collecting samples, obtaining data, reviewing and copying air contaminant emissions discharge records and conducting all necessary functions related to this permit in accordance with ORS 468-095.
10.6.	**Permit Availability**	The permittee must have a copy of the permit available at the facility at all times.
10.7.	**Open Burning**	The permittee may not conduct any open burning except as allowed by OAR 340 Division 264.
10.8.	**Asbestos**	The permittee must comply with the asbestos abatement requirements in OAR 340, Division 248 for all activities involving asbestos-containing materials, including, but not limit to, demolition, renovation, repair, construction, and maintenance.

10.9. Property Rights

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.

10.10. Permit Expiration

a. A source may not be operated after the expiration date of the permit, unless any of the following occur prior to the expiration date of the permit:

   i. a timely and complete application for renewal or for an Oregon Title V Operating Permit has bee submitted, or

   ii. another type of permit (ACDP or Oregon Title V Operating Permit) has been issued authorizing operation of the source.

b. For a source operating under an ACDP or Oregon Title V Operating Permit, a requirement established in an earlier ACDP remains in effect notwithstanding expiration of the ACDP, unless the provision expires by its terms or unless the provision is modified or terminated according to the procedures used to establish the requirement initially.

10.11. Permit Termination, Revocation, or Modification

The Department may modify or revoke this permit pursuant to OAR 340-216-0082 and 340-216-0084.

11.0 ABBREVIATIONS, ACRONYMS, AND DEFINITIONS

ACDP	Air Contaminant Discharge Permit
ASTM	American Society for Testing and Materials
AQMA	Air Quality Maintenance Area
calendar year	The 12-month period beginning January 1st and ending December 31st
CFR	Code of Federal Regulations
CO	carbon monoxide
DEQ	Oregon Department of Environmental Quality
dscf	dry standard cubic foot
EPA	US Environmental Protection Agency
FCAA	Federal Clean Air Act
gal	gallon(s)
gr/dscf	grains per dry standard cubic foot
HAP	Hazardous Air Pollutant as defined by OAR 340-244-0040
I&M	inspection and maintenance
lb	pound(s)
MMBtu	million British thermal units
NA	not applicable
NESHAP	National Emissions Standards for Hazardous Air Pollutants
NO_X	nitrogen oxides
NSPS	New Source Performance Standard
NSR	New Source Review
O_2	oxygen
OAR	Oregon Administrative Rules
ORS	Oregon Revised Statutes
O&M	operation and maintenance
Pb	lead
PCD	pollution control device
PM	particulate matter
PM_{10}	particulate matter less than 10 microns in size
ppm	part per million
PSD	Prevention of Significant Deterioration
PSEL	Plant Site Emission Limit
PTE	Potential to Emit
RACT	Reasonably Available Control Technology
scf	standard cubic foot
SER	Significant Emission Rate
SIC	Standard Industrial Code
SIP	State Implementation Plan
SO_2	sulfur dioxide
Special Control Area	as defined in OAR 340-204-0070
VE	visible emissions
VOC	volatile organic compound
year	A period consisting of any 12-consecutive calendar months

Summary of PPT data without the uncertainties

sample date	Chromium (ng/m3)	Cobalt (ng/m3)	Arsenic (ng/m3)	Selenium (ng/m3)
10/6/15	406.7	2.3	75.0	9.8
10/7/15	20.2	0.3	3.0	4.1
10/9/15	24.4	0.9	8.8	45.6
10/10/15	24.9	0.3	20.3	3.0
10/12/15	25.5	0.9	20.1	13.2
10/14/15	19.0	0.1	1.1	0.0
10/15/15	17.4	0.4	1.1	0.0
10/17/15	21.0	0.2	7.7	0.8
10/18/15	20.1	0.4	6.7	8.3
10/20/15	21.4	0.3	14.8	12.3
10/21/15	22.8	1.1	101.1	13.0
10/23/15	23.3	0.3	3.0	0.0
10/24/15	439.5	0.8	3.5	2.7
10/26/15	48.0	3.5	60.4	271.1
10/27/15	24.4	0.8	15.9	15.6
10/29/15	37.7	2.8	93.2	220.0
10/30/15	38.5	0.4	97.3	136.5
11/2/15	52.6	0.7	38.3	41.4
Average	**71.5**	**0.9**	**31.7**	**44.3**

ambient benchmark concentrations

		Chromium (ng/m3(LC))	Cobalt (ng/m3(LC))	Arsenic (ng/m3(LC))	Selenium (ng/m3(LC))
			100	0.2	

Portland N. Roselawn (PNR) Metals data from Octover 2014 (for comparison). The 2015 data is not out yet.

PNR		Chromium (ng/m3(LC))	Cobalt (ng/m3(LC))	Arsenic (ng/m3(LC))	Selenium (ng/m3(LC))
	10/2/2014	1.86	0.215	2.59	2.1
	10/8/2014	1.06	0.131	0.622	0.165
	10/14/2014	0.347	0.076	1.3	0.894
	10/20/2014	0.568	0.053	1.32	2.39
	10/26/2014	0.261	0.025	0.721	1.83
	Average	**0.8192**	**0.1**	**1.3**	**1.5**

Difference between PPT and PNR

PPT-PNR	70.7	0.8	30.4	42.8

Cadmium (ng/m3)	Lead (ng/m3)	Nickel (ng/m3)	Manganese (ng/m3)	Beryllium (ng/m3)
13.0	66.9	17.0	50.5	0.062
2.2	5.9	3.4	35.3	0.012
13.8	7.6	8.3	13.1	0.018
195.4	5.4	2.3	4.0	0.007
8.6	32.5	8.0	14.2	0.015
1.6	2.2	1.4	18.3	0.008
2.7	6.3	3.5	44.2	0.030
1.5	10.1	2.9	8.2	0.012
4.4	7.6	7.4	8.0	0.008
6.5	16.7	2.9	13.1	0.008
11.6	60.7	6.8	24.2	0.020
0.8	5.2	4.3	27.7	0.013
1.1	8.1	7.1	23.5	0.029
132.9	67.3	1.9	7.2	0.010
10.8	10.2	9.2	21.1	0.019
56.9	248.3	4.6	6.0	0.009
41.7	124.4	1.4	3.4	0.007
24.3	87.6	5.0	13.3	0.007
29.4	**42.9**	**5.4**	**18.6**	**0.016**

Cadmium (ng/m3(LC))	Lead (ng/m3(LC))	Nickel (ng/m3(LC))	Manganese (ng/m3(LC))	Beryllium (ng/m3(LC))
0.6	150	2	90	0.4

Cadmium (ng/m3(LC))	Lead (ng/m3(LC))	Nickel (ng/m3(LC))	Manganese (ng/m3(LC))	Beryllium (ng/m3(LC))
1.95	7.92	2.94	49.2	0.002
0.066	2.47	2.4	31.7	0.002
1.18	2.89	0.321	1.99	0.0007
2.78	4.69	0.735	1.92	0.0004
2.49	1.14	0.857	1.02	0.0006
1.7	**3.8**	**1.45**	**17.2**	**0.0011**

27.7	39.1	4.0	1.5	0.015

To: Bray, Dave[Bray.Dave@epa.gov]; Narvaez, Madonna[Narvaez.Madonna@epa.gov]; Elleman, Robert[Elleman.Robert@epa.gov]; Koprowski, Paul[Koprowski.Paul@epa.gov]; Downey, Scott[Downey.Scott@epa.gov]; Dossett, Donald[Dossett.Donald@epa.gov]; Hedgpeth, Zach[Hedgpeth.Zach@epa.gov]; Wroble, Julie[Wroble.Julie@epa.gov]; Franklin, Richard[Franklin.Richard@epa.gov]; Dagseth, Renee[Dagseth.Renee@epa.gov]; Leefers, Kristin[Leefers.Kristin@epa.gov]; Fairchild, Susan[Fairchild.Susan@epa.gov]
Cc: Islam, Mahbubul[Islam.Mahbubul@epa.gov]
From: McClintock, Katie
Sent: Fri 2/5/2016 9:59:49 PM
Subject: Bullseye Call today - action items

Based on the call today, here are our action items:

1. Madonna will ask OR (maybe work with Paul Koprowski) if they did the work and what samples they ran.
    a. Did they run speciated metals?
    b. If not, did they save the filter and can they run lead chromate and hex chromium, speciated nickle
2. Include oaqps press on communications - Jan cortelyou
3. Madonna will ask greg grunow about metals used data per metal - should be reporting into tri
4. Susan Fairchild - will look through cbi about data on bullseye
5. Julie W. is sending epa rsls alongside deq benchmarks
6. Potential Inspection - look for how to test and look for dust at rail unloading. Find out if a chromium refractory.
7. Richard - Will keep us informed of OR emergency response actions regarding soil.
8. Spectrum -
    a. Katie will look into source and talk to permit writer.
    b. Do we want to monitor are samples around them. Need to discuss with management.

To: Bray, Dave[Bray.Dave@epa.gov]; Gable, Debra[Gable.Debra@epa.gov]; Downey, Scott[Downey.Scott@epa.gov]; Franklin, Richard[Franklin.Richard@epa.gov]; Wroble, Julie[Wroble.Julie@epa.gov]; Stifelman, Marc[Stifelman.Marc@epa.gov]; McClintock, Katie[McClintock.Katie@epa.gov]; Narvaez, Madonna[Narvaez.Madonna@epa.gov]; Kaetzel, Rhonda[Kaetzel.Rhonda@epa.gov]; Elleman, Robert[Elleman.Robert@epa.gov]; Skadowski, Suzanne[Skadowski.Suzanne@epa.gov]; Suzuki, Debra[Suzuki.Debra@epa.gov]
From: Koprowski, Paul
Sent: Fri 2/5/2016 8:38:28 PM
Subject: FW: Portland metals in the news 2/5/16

More story links from PDX – FYI.

Paul

Paul Koprowski

U.S. EPA; Oregon Operations Office

805 SW Broadway, Suite 500

Portland, Oregon 97205

(503) 326-6363

From: DEQ Communications [mailto:DEQCommunications@deq.state.or.us]
Sent: Friday, February 05, 2016 12:18 PM
To: DEQintheNews <deqinthenews@deq.state.or.us>; *DEQ - Staff Statewide <DEQSSW@deq.state.or.us>; *DEQ - Communications Team <CommunicationsTeam@deq.state.or.us>
Subject: Portland metals in the news 2/5/16

DEQ, Oregon Health Authority, Multnomah County Health Department

Portland metals in the news

Friday, Feb. 5, 2016

This is a special edition of DEQ in the News to capture news about preliminary air quality monitoring data showing high levels of cadmium and arsenic in the air near Southeast 22nd Ave. and Powell Boulevard in Portland.

Oregon environmental regulators find air pollution at glass manufacturer

Register Guard via Associated Press, 2/5/16

Air at SE Portland schools to be tested after toxins detected

KGW-TV, 2/4/16

Oregon regulators suspected SE Portland polluter months before telling public

Oregonian, 2/4/16

Soil Near Bullseye Glass Contains Arsenic and Cadmium—And Other Things Officials Told Parents Thursday

The Mercury, 2/4/16

Portland Heavy Metals Emissions Linked To Glass Facility

OPB Earthfix, 2/4/16

To: Smith, Judy[Smith.Judy@epa.gov]; Koprowski, Paul[Koprowski.Paul@epa.gov]; Downey, Scott[Downey.Scott@epa.gov]; McClintock, Katie[McClintock.Katie@epa.gov]; Franklin, Richard[Franklin.Richard@epa.gov]; Wroble, Julie[Wroble.Julie@epa.gov]
Cc: Holsman, Marianne[Holsman.Marianne@epa.gov]; Schuster, Cindy[Schuster.Cindy@epa.gov]; Philip, Jeff[Philip.Jeff@epa.gov]; Skadowski, Suzanne[Skadowski.Suzanne@epa.gov]; MacIntyre, Mark[Macintyre.Mark@epa.gov]; Dossett, Donald[Dossett.Donald@epa.gov]; Hastings, Janis[Hastings.Janis@epa.gov]; Bray, Dave[Bray.Dave@epa.gov]
From: Narvaez, Madonna
Sent: Fri 2/5/2016 7:48:35 PM
Subject: RE: Bullseye Glass draft desk statement and draft responses to Congressman Blumenauer

A couple changes/questions.

1. Is DEQ sampling at the two schools? I did not see that on their website, unless it has been added this morning.

Ex. 5 - Deliberative Process

Thanks, Judy.

From: Smith, Judy
Sent: Friday, February 05, 2016 11:41 AM
To: Koprowski, Paul <Koprowski.Paul@epa.gov>; Downey, Scott <Downey.Scott@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Franklin, Richard <Franklin.Richard@epa.gov>; Wroble, Julie <Wroble.Julie@epa.gov>
Cc: Holsman, Marianne <Holsman.Marianne@epa.gov>; Schuster, Cindy <Schuster.Cindy@epa.gov>; Philip, Jeff <Philip.Jeff@epa.gov>; Skadowski, Suzanne <Skadowski.Suzanne@epa.gov>; MacIntyre, Mark <Macintyre.Mark@epa.gov>
Subject: Bullseye Glass draft desk statement and draft responses to Congressman Blumenauer

Please review this draft EPA desk statement regarding the metal emissions issue in SE Portland and let me know of any changes that are needed. Thanks, Judy

Desk Statement: SE Portland - Metals Contamination from Bullseye Glass

Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process

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Judy Smith, EPA

Public Affairs Specialist

503-326-6994 desk

503-545-2540 cell

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To: McClintock, Katie[McClintock.Katie@epa.gov]; Bray, Dave[Bray.Dave@epa.gov]; Elleman, Robert[Elleman.Robert@epa.gov]; Koprowski, Paul[Koprowski.Paul@epa.gov]; Downey, Scott[Downey.Scott@epa.gov]; Dossett, Donald[Dossett.Donald@epa.gov]; Hedgpeth, Zach[Hedgpeth.Zach@epa.gov]
Cc: Islam, Mahbubul[Islam.Mahbubul@epa.gov]; Hastings, Janis[Hastings.Janis@epa.gov]; Palma, Ted[Palma.Ted@epa.gov]; Fairchild, Susan[Fairchild.Susan@epa.gov]
From: Narvaez, Madonna
Sent: Fri 2/5/2016 7:24:08 PM
Subject: RE: Heads up on emerging issue in PDX.

Facebook announcement from Bullseye yesterday:

We just learned of a recent report from Oregon's Department of Environmental Quality (DEQ). In 2015, the DEQ performed air monitoring tests in a parking lot near Bullseye Glass. On February 1, 2016, staff from the DEQ shared some test results with Bullseye. It was newly discovered that there were higher levels of arsenic and cadmium in the parking lot than in some other areas of the city.

Additional samples were taken from different sites, but all the analysis for these other... locations is not complete yet. We have engaged an environmental consulting firm to help us evaluate the data and conduct further testing and monitoring. Based on what we learn, although we are in full compliance with our air permit, Bullseye will take additional action based on any new findings that show corrective action is warranted.

While the DEQ has not required any action on our part, we decided to take action on our own. As of yesterday we suspended the use of cadmium and arsenic.

The owners and employees of Bullseye Glass care about the environment and our neighborhood and take this matter seriously.

-----Original Appointment-----
From: McClintock, Katie
Sent: Friday, February 05, 2016 11:04 AM
To: Bray, Dave; Narvaez, Madonna; Elleman, Robert; Koprowski, Paul; Downey, Scott; Dossett, Donald; Hedgpeth, Zach
Cc: Islam, Mahbubul
Subject: Heads up on emerging issue in PDX.
When: Friday, February 05, 2016 2:30 PM-3:30 PM (UTC-08:00) Pacific Time (US & Canada).
Where: Ex. 6 - Personal Privacy code: Ex. 6 - Personal Privacy

I think it would be useful to get together the people that we can today.

To: McClintock, Katie[McClintock.Katie@epa.gov]; Bray, Dave[Bray.Dave@epa.gov]; Elleman, Robert[Elleman.Robert@epa.gov]; Koprowski, Paul[Koprowski.Paul@epa.gov]; Downey, Scott[Downey.Scott@epa.gov]; Dossett, Donald[Dossett.Donald@epa.gov]
Cc: Islam, Mahbubul[Islam.Mahbubul@epa.gov]
From: Narvaez, Madonna
Sent: Fri 2/5/2016 7:01:46 PM
Subject: RE: Heads up on emerging issue in PDX.

Ex. 5 - Deliberative Process

-----Original Message-----
From: McClintock, Katie
Sent: Friday, February 05, 2016 10:59 AM
To: Bray, Dave <Bray.Dave@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; Elleman, Robert <Elleman.Robert@epa.gov>; Koprowski, Paul <Koprowski.Paul@epa.gov>; Downey, Scott <Downey.Scott@epa.gov>; Dossett, Donald <Dossett.Donald@epa.gov>
Cc: Islam, Mahbubul <Islam.Mahbubul@epa.gov>
Subject: RE: Heads up on emerging issue in PDX.

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The biggest is Spectrum Glass, right here in Woodinville, WA!

Ex. 5 - Deliberative Process

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Sent: Friday, February 05, 2016 10:09 AM
To: Narvaez, Madonna <Narvaez.Madonna@epa.gov>; Elleman, Robert <Elleman.Robert@epa.gov>; Koprowski, Paul <Koprowski.Paul@epa.gov>; Downey, Scott <Downey.Scott@epa.gov>; Dossett, Donald <Dossett.Donald@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>
Cc: Islam, Mahbubul <Islam.Mahbubul@epa.gov>
Subject: RE: Heads up on emerging issue in PDX.

Ex. 5 - Deliberative Process

Dave

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Sent: Friday, February 5, 2016 9:57 AM
To: Bray, Dave; Elleman, Robert; Koprowski, Paul; Downey, Scott; Dossett, Donald; McClintock, Katie
Cc: Islam, Mahbubul
Subject: RE: Heads up on emerging issue in PDX.

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Cc: Islam, Mahbubul <Islam.Mahbubul@epa.gov>
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Cc: Islam, Mahbubul
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Ex. 5 - Deliberative Process

From: Elleman, Robert
Sent: Thursday, February 04, 2016 6:26 PM
To: Narvaez, Madonna <Narvaez.Madonna@epa.gov>; Koprowski, Paul <Koprowski.Paul@epa.gov>; Downey, Scott <Downey.Scott@epa.gov>; Bray, Dave <Bray.Dave@epa.gov>; Dossett, Donald <Dossett.Donald@epa.gov>
Cc: Islam, Mahbubul <Islam.Mahbubul@epa.gov>
Subject: RE: Heads up on emerging issue in PDX.

Our resourceful James Lopez-Baird in OEA pulled together a list of all the glass manufacturers in our four R10 states. See the attachment.

Ex. 5 - Deliberative Process

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James says he can put all the information on an interactive GIS web page for us so we can explore it geographically for ourselves. He estimated he would get to it tomorrow morning.

From: Narvaez, Madonna
Sent: Thursday, February 04, 2016 12:50 PM
To: Elleman, Robert <Elleman.Robert@epa.gov<mailto:Elleman.Robert@epa.gov>>; Koprowski, Paul <Koprowski.Paul@epa.gov<mailto:Koprowski.Paul@epa.gov>>; Downey, Scott <Downey.Scott@epa.gov<mailto:Downey.Scott@epa.gov>>; Bray, Dave <Bray.Dave@epa.gov<mailto:Bray.Dave@epa.gov>>; Dossett, Donald <Dossett.Donald@epa.gov<mailto:Dossett.Donald@epa.gov>>
Subject: RE: Heads up on emerging issue in PDX.

Thanks, Rob. I am having trouble finding out how much glass they produce. I think with annual sales of $19.8 M, it must be a lot.

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Sent: Thursday, February 04, 2016 11:30 AM
To: Koprowski, Paul <Koprowski.Paul@epa.gov<mailto:Koprowski.Paul@epa.gov>>; Downey, Scott <Downey.Scott@epa.gov<mailto:Downey.Scott@epa.gov>>; Narvaez, Madonna <Narvaez.Madonna@epa.gov<mailto:Narvaez.Madonna@epa.gov>>; Bray, Dave <Bray.Dave@epa.gov<mailto:Bray.Dave@epa.gov>>; Dossett, Donald <Dossett.Donald@epa.gov<mailto:Dossett.Donald@epa.gov>>
Subject: FW: Heads up on emerging issue in PDX.

Just sending you all the technical details I gathered this morning after speaking with Oregon DEQ's air emission inventory person.

· Bullseye may be the only source quite like this in Portland. There was another hot spot measured with moss on Swans Island but few details on that and less of a smoking gun.

· The NAICS for glass and glass product manufacturing is 32721. DEQ found a bunch of other companies in that category in Portland. See attachment GlassManufacturingfor Geoff.xlsx.

· The 6-digit SCC for glass manufacturing is 305014. There are a couple 8-digit SCCs that might be significant emitters similar to Bullseye.

· The person I talked to at DEQ doesn't think there would be helpful information in the NEI or in the air toxics database to help us find similar facilities in R10. He thought that searching for facilities through a NAICS database is the most promising avenue. He suggested ESRI's Business Analyst to accomplish such a task. He was interested in doing such a search for all of Oregon but ran into roadblock with software licenses.

· I may have a lead on how to access Business Analyst and do the search here in R10, but maybe you all have a better idea.

· Apparently Puget Sound Clean Air was notified of these results and may have already done a survey for their jurisdiction.

From: Hastings, Janis
Sent: Thursday, February 04, 2016 11:07 AM
To: Holsman, Marianne <Holsman.Marianne@epa.gov<mailto:Holsman.Marianne@epa.gov>>
Cc: Downey, Scott <Downey.Scott@epa.gov<mailto:Downey.Scott@epa.gov>>; Fleming, Sheila <fleming.sheila@epa.gov<mailto:fleming.sheila@epa.gov>>; Narvaez, Madonna <Narvaez.Madonna@epa.gov<mailto:Narvaez.Madonna@epa.gov>>; Bray, Dave <Bray.Dave@epa.gov<mailto:Bray.Dave@epa.gov>>; Dossett, Donald <Dossett.Donald@epa.gov<mailto:Dossett.Donald@epa.gov>>; Koprowski, Paul <Koprowski.Paul@epa.gov<mailto:Koprowski.Paul@epa.gov>>; Pirzadeh, Michelle <Pirzadeh.Michelle@epa.gov<mailto:Pirzadeh.Michelle@epa.gov>>; Elleman, Robert <Elleman.Robert@epa.gov<mailto:Elleman.Robert@epa.gov>>
Subject: Re: Heads up on emerging issue in PDX.

In the interest of time, I'm sending the summary that we have so far from Paul Koprowski. Scott Downey may have an update later today.

As a result of a collaborative study to better understand the sources and distribution of arsenic and cadmium air pollution in Portland Oregon, DEQ found a significant “hot spot” at Southeast 22nd Ave. and Powell Boulevard. ODEQ, the Oregon Health Authority, Multnomah County Health Departments and ATSDR are working collaboratively to determine the impact to public health. Additional monitors are being deployed by ODEQ and the agency is about to release maps that outline the affected area. ODEQ will be posting the data summary to their website soon.

ODEQ issued a press release on Feb. 3rd about the findings. ODEQ has been working on refining and analyzing the data since it was first discovered in October. The initial findings are that the monthly average is 49 times greater than the state air toxics benchmark for cadmium and 159 times the DEQ air toxics benchmark for arsenic. ATSDR and OEA are evaluating the findings in relation to EPA health standards. Representatives from ATSDR are in Portland to assist in communicating the impact to the community.

The source is permitted as a minor source of air toxics emissions. ODEQ has confirmed they are in compliance with the permit. Bullseye Glass produces colored flat glass for use in the arts industry. Air contaminant control equipment at the facility includes a baghouse.

The neighborhood around Bullseye Glass includes residences, the Fred Meyer Corporate offices, a daycare and Cleveland High School, a variety of business and a park with a playing field and basketball court.

From: Holsman, Marianne
Sent: Thursday, February 4, 2016 10:46 AM
To: McLerran, Dennis; Pirzadeh, Michelle; Dunbar, Bill
Cc: Hastings, Janis; Smith, Judy; Downey, Scott
Subject: Heads up on emerging issue in PDX.

OCE and AWT are working on a hot issues write up on this and we are going to draft a reactive desk statement for press calls. I understand we are talking with ODEQ today on this matter. Stand by for more information. There are several other clips on this as a result of a DEQ news release of yesterday (attached).

http://www.portlandmercury.com/BlogtownPDX/archives/2016/02/03/arsenic-cadmium-levels-near-two-se-portland-schools-are-alarmingly-high-state-finds
[http://media2.fdncms.com/portmerc/imager/u/slideshow/17515972/1454535320-screen_shot_2016-02-01_at_5.02.53_pm.png]<http://www.portlandmercury.com/BlogtownPDX/archives/2016/02/03/arsenic-cadmium-levels-near-two-se-portland-schools-are-alarmingly-high-state-finds>

State Finds Alarmingly High Arsenic, Cadmium Levels Near Two SE Portland Schools<http://www.portlandmercury.com/BlogtownPDX/archives/2016/02/03/arsenic-cadmium-levels-

near-two-se-portland-schools-are-alarmingly-high-state-finds>
www.portlandmercury.com<http://www.portlandmercury.com>
GoogleA portion of the Bullseye Glass facility in SE Portland Within days, state officials are slated to release the alarming results of a monitoring program...

State Finds Alarmingly High Arsenic, Cadmium Levels Near Two SE Portland Schools

Posted by Daniel Forbes<http://www.portlandmercury.com/portland/ArticleArchives?author=17515956> on Wed, Feb 3, 2016 at 2:06 PM

[A portion of the Bullseye Glass facility in SE Portland]

- Google

- A portion of the Bullseye Glass facility in SE Portland

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Ex. 4 - copyright

Ex. 4 - copyright

Ex. 4 - copyright

Daniel Forbes is the author of Derail this Train Wreck<http://fomitepress.com/FOMITE/Derail.html>. He lives in Portland, and can be reached at ddanforbes@aol.com<mailto:ddanforbes@aol.com>.

Marianne Holsman

Public Affairs Director

EPA Region 10

Desk: 206-553-
1237[
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Cell: 206-450-
5895[
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TioSxqB8Q2BNX5JtAIjwgAAAABJRU5ErkJggg==]

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[http://www.gthisgthat.com/wp-content/uploads/2014/03/google-plus-5-512.png]
<https://plus.google.com/+EPAgov/posts>

To: Bray, Dave[Bray.Dave@epa.gov]; Narvaez, Madonna[Narvaez.Madonna@epa.gov]; Elleman, Robert[Elleman.Robert@epa.gov]; Koprowski, Paul[Koprowski.Paul@epa.gov]; Downey, Scott[Downey.Scott@epa.gov]; Dossett, Donald[Dossett.Donald@epa.gov]
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To: Koprowski, Paul <Koprowski.Paul@epa.gov<mailto:Koprowski.Paul@epa.gov>>; Downey, Scott <Downey.Scott@epa.gov<mailto:Downey.Scott@epa.gov>>; Narvaez, Madonna <Narvaez.Madonna@epa.gov<mailto:Narvaez.Madonna@epa.gov>>; Bray, Dave <Bray.Dave@epa.gov<mailto:Bray.Dave@epa.gov>>; Dossett, Donald <Dossett.Donald@epa.gov<mailto:Dossett.Donald@epa.gov>>
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[http://media2.fdncms.com/portmerc/imager/u/slideshow/17515972/1454535320-screen_shot_2016-02-01_at_5.02.53_pm.png]<http://www.portlandmercury.com/BlogtownPDX/archives/2016/02/03/arsenic-cadmium-levels-near-two-se-portland-schools-are-alarmingly-high-state-finds>

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Posted by Daniel Forbes<http://www.portlandmercury.com/portland/ArticleArchives?author=17515956>

on Wed, Feb 3, 2016 at 2:06 PM

[A portion of the Bullseye Glass facility in SE Portland]

- Google
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Daniel Forbes is the author of Derail this Train Wreck<http://fomitepress.com/FOMITE/Derail.html>. He lives in Portland, and can be reached at ddanforbes@aol.com<mailto:ddanforbes@aol.com>.

Marianne Holsman

Public Affairs Director

EPA Region 10

Desk: 206-553-
1237[
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Cell: 206-450-
5895[
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Cc: Islam, Mahbubul[Islam.Mahbubul@epa.gov]
From: McClintock, Katie
Sent: Fri 2/5/2016 6:15:06 PM
Subject: RE: Heads up on emerging issue in PDX.

Hi all -

I think we should try to talk today because we have so much email traffic, I am looking to set something up now.

Ex. 5 - Deliberative Process

I think the universe of these types of furnaces is pretty small. Most glass shops are using premade rods/plates. We would only be looking at ones that melt from raw materials. I am trying to get a list together, but taking a bit of time with other projects.

Katie

-----Original Message-----
From: Bray, Dave
Sent: Friday, February 05, 2016 10:09 AM
To: Narvaez, Madonna <Narvaez.Madonna@epa.gov>; Elleman, Robert <Elleman.Robert@epa.gov>; Koprowski, Paul <Koprowski.Paul@epa.gov>; Downey, Scott <Downey.Scott@epa.gov>; Dossett, Donald <Dossett.Donald@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>
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Dave

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James says he can put all the information on an interactive GIS web page for us so we can explore it geographically for ourselves. He estimated he would get to it tomorrow morning.

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Marianne Holsman

Public Affairs Director

EPA Region 10

Desk: 206-553-
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Cc: Islam, Mahbubul[Islam.Mahbubul@epa.gov]
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[http://media2.fdncms.com/portmerc/imager/u/slideshow/17515972/1454535320-screen_shot_2016-02-01_at_5.02.53_pm.png]<http://www.portlandmercury.com/BlogtownPDX/archives/2016/02/03/arsenic-cadmium-levels-near-two-se-portland-schools-are-alarmingly-high-state-finds>

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Posted by Daniel Forbes<http://www.portlandmercury.com/portland/ArticleArchives?author=17515956> on Wed, Feb 3, 2016 at 2:06 PM

[A portion of the Bullseye Glass facility in SE Portland]

- Google

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Daniel Forbes is the author of Derail this Train Wreck<http://fomitepress.com/FOMITE/Derail.html>. He lives in Portland, and can be reached at ddanforbes@aol.com<mailto:ddanforbes@aol.com>.

Marianne Holsman

Public Affairs Director

EPA Region 10

Desk: 206-553-
1237[
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Cell: 206-450-
5895[
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[http://www.gthisgthat.com/wp-content/uploads/2014/03/google-plus-5-512.png]
<https://plus.google.com/+EPAgov/posts>

To: McClintock, Katie[McClintock.Katie@epa.gov]; Hedgpeth, Zach[Hedgpeth.Zach@epa.gov]; Elleman, Robert[Elleman.Robert@epa.gov]; Bray, Dave[Bray.Dave@epa.gov]; Koprowski, Paul[Koprowski.Paul@epa.gov]; Islam, Mahbubul[Islam.Mahbubul@epa.gov]; Downey, Scott[Downey.Scott@epa.gov]
From: Narvaez, Madonna
Sent: Fri 2/5/2016 5:32:21 PM
Subject: RE: Heads up on emerging issue in PDX.

Okay. And if you know whether or not they use continuous furnaces.

From: McClintock, Katie
Sent: Friday, February 05, 2016 7:16 AM
To: Hedgpeth, Zach <Hedgpeth.Zach@epa.gov>; Elleman, Robert <Elleman.Robert@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; Bray, Dave <Bray.Dave@epa.gov>; Koprowski, Paul <Koprowski.Paul@epa.gov>; Islam, Mahbubul <Islam.Mahbubul@epa.gov>; Downey, Scott <Downey.Scott@epa.gov>
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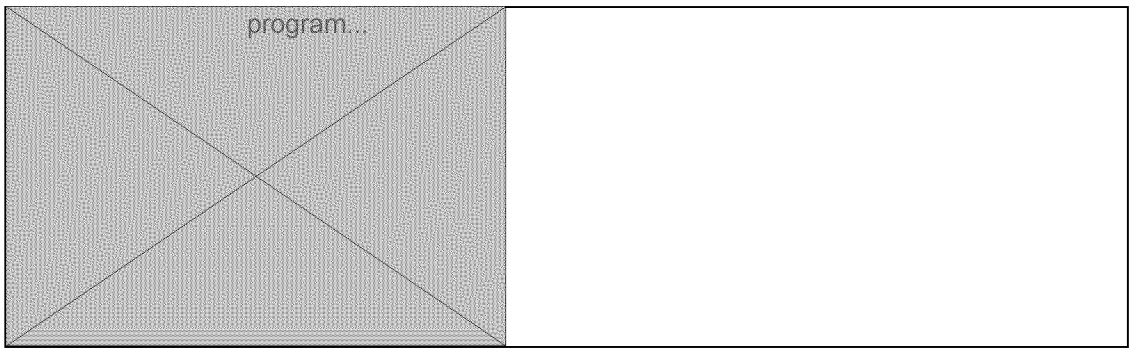

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Marianne Holsman

Public Affairs Director

EPA Region 10

Desk: 206-553-1237

Cell: 206-450-5895

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Follow us!

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Sent: Thur 3/3/2016 11:20:46 PM
Subject: RE: Contacts for Air Toxics - Portland moss study

I agree that we need them to finish up the report on the Portland moss study. That way conversations about future work can be more general (i.e., discussing use of the approach for other situations) and not specific to glass facilities.

Dave

From: McClintock, Katie
Sent: Thursday, March 03, 2016 2:48 PM
To: Bray, Dave <Bray.Dave@epa.gov>
Subject: RE: Contacts for Air Toxics - Portland moss study

Okay, I read further and see that it didn't happen. I think we could set up a meeting, but based on my conversation with the associate director for research for the PNW research station today it looks like their focus this next month is on finishing that report before they take on new projects (which I agree is a great plan). I am not sure yet what issues we would work with Dale on yet.

Katie

From: Bray, Dave
Sent: Thursday, March 03, 2016 1:18 PM
To: McClintock, Katie <McClintock.Katie@epa.gov>
Subject: FW: Contacts for Air Toxics - Portland moss study

Hi Katie,

Here's the person who was meeting with the Water folks today. Not Geoffrey Donovan but Dale Blahna.

Dave

From: Schary, Claire
Sent: Thursday, March 03, 2016 1:10 PM
To: Bray, Dave <Bray.Dave@epa.gov>; Blahna, Dale -FS <dblahna@fs.fed.us>
Subject: Contacts for Air Toxics - Portland moss study

Dave – The USFS person I was offering to introduce to you, Dale Blahna, had to leave before you were going to be off your conference call today at 1 pm. However, I said I would do an e-mail introduction so you had each other's email addresses, and perhaps when he's downtown again (he works in the USFS PNW Research Station in Fremont), he could come in for a friendly discussion and Q&A session for both of you. Dale wants to make sure you know he's a sociologist (his job title is "Research Social Scientist") and that while he wouldn't be able to answer some of the technical questions you told me you had (e.g., the different absorption rates for moss for different pollutants) there is a report coming out in a month or so that will have a lot of that information. His email address is dblahna@fs.fed.us and his phone number is 206-732-7833.

Dale – Dave Bray is our Senior Air Policy Advisor & Scientist in our region's Office of Air, Waste & Toxics, and could answer your questions about EPA's interest in this type of research and also put you in touch with whomever you need to talk to about coordinating future research along these lines. His email is bray.dave@epa.gov and his phone number is 206-553-4253.

I'm happy to help set up an in-person meeting, if that would be helpful, since Dale and I have been working together these past few years on a local Urban Waters project involving market incentives for farmers and private forest landowners to improve water quality in the Middle Green River watershed.

-- Claire

Claire Schary

Water Quality Trading Coordinator

Watershed Unit / Office of Water & Watersheds

schary.claire@epa.gov / (206) 553-8514

USEPA Region 10

1200 Sixth Ave, Suite 900 (OWW-192)

Seattle, WA 98101

To: McClintock, Katie[McClintock.Katie@epa.gov]
From: Bray, Dave
Sent: Thur 3/3/2016 9:17:41 PM
Subject: FW: Contacts for Air Toxics - Portland moss study

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Here's the person who was meeting with the Water folks today. Not Geoffrey Donovan but Dale Blahna.

Dave

From: Schary, Claire
Sent: Thursday, March 03, 2016 1:10 PM
To: Bray, Dave <Bray.Dave@epa.gov>; Blahna, Dale -FS <dblahna@fs.fed.us>
Subject: Contacts for Air Toxics - Portland moss study

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Green River watershed.

-- Claire

Claire Schary

Water Quality Trading Coordinator

Watershed Unit / Office of Water & Watersheds

schary.claire@epa.gov / (206) 553-8514

USEPA Region 10

1200 Sixth Ave, Suite 900 (OWW-192)

Seattle, WA 98101

To: McClintock, Katie[McClintock.Katie@epa.gov]
From: Bray, Dave
Sent: Thur 3/3/2016 9:09:13 PM
Subject: RE: Color Glass Daily Update 3-2-16

Hi didn't catch his name when Claire dropped by to say that he was here.

She was going to bring him by at 1:00 but hasn't showed so he may not have had time to meet today.

Dave

From: McClintock, Katie
Sent: Thursday, March 03, 2016 1:05 PM
To: Bray, Dave <Bray.Dave@epa.gov>
Subject: RE: Color Glass Daily Update 3-2-16

Geoffrey Donovan? No, I am not there today, sorry. I just chatted with Borys Tkacz, who may be his boss. It was a conversation heavily revolving around communications and their need to focus on finishing their study. Hope you can say hi to him for me. I am on my team call (which I kind of lead), but if he'd like to talk to me, call me at 206-553-2143.

Katie

From: Bray, Dave
Sent: Thursday, March 03, 2016 1:01 PM
To: McClintock, Katie <McClintock.Katie@epa.gov>
Subject: FW: Color Glass Daily Update 3-2-16

Hi Katie,

The Forest Service scientist who was responsible for the Portland moss study is here in the office today meeting with the Water folks. Claire Schary is going to bring him by my cubicle shortly (if he has time). Are you here in the office and available to meet with him if he drops by?

Dave

From: Koprowski, Paul
Sent: Thursday, March 03, 2016 12:42 PM
To: McClintock, Katie <McClintock.Katie@epa.gov>; Averback, Jonathan <Averback.Jonathan@epa.gov>; Barber, Anthony <Barber.Anthony@epa.gov>; Barnett, Keith <Barnett.Keith@epa.gov>; Bray, Dave <Bray.Dave@epa.gov>; Bremer, Kristen <Bremer.Kristen@epa.gov>; Cunningham, Roylene <Cunningham.Roylene@epa.gov>; Dalrymple, Anne <Dalrymple.Anne@epa.gov>; Davis, Alison <Davis.Alison@epa.gov>; Davis, Matthew <Davis.Matthew@epa.gov>; Doster, Brian <Doster.Brian@epa.gov>; Downey, Scott <Downey.Scott@epa.gov>; Fairchild, Susan <Fairchild.Susan@epa.gov>; Field, Chris <Field.Chris@epa.gov>; Fleming, Sheila <fleming.sheila@epa.gov>; Franklin, Richard <Franklin.Richard@epa.gov>; Fried, Gregory <Fried.Gregory@epa.gov>; Froikin, Sara <Froikin.Sara@epa.gov>; Hall, Chris <Hall.Christopher@epa.gov>; Hastings, Janis <Hastings.Janis@epa.gov>; Hedgpeth, Zach <Hedgpeth.Zach@epa.gov>; Holsman, Marianne <Holsman.Marianne@epa.gov>; Ingemansen, Dean <Ingemansen.Dean@epa.gov>; Johnson, Steffan <johnson.steffan@epa.gov>; Kaetzel, Rhonda <Kaetzel.Rhonda@epa.gov>; Keenan, John <keenan.john@epa.gov>; Koerber, Mike <Koerber.Mike@epa.gov>; Kowalski, Ed <Kowalski.Edward@epa.gov>; Leefers, Kristin <Leefers.Kristin@epa.gov>; Lynch, Kira <lynch.kira@epa.gov>; Martenson, Eric <Martenson.Eric@epa.gov>; Matthews, Julie <Matthews.Juliane@epa.gov>; McLerran, Dennis <mclerran.dennis@epa.gov>; Mitchell, Ken <Mitchell.Ken@epa.gov>; Moon, Wally <Moon.Wally@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; Owens, Katharine <Owens.Katharine@epa.gov>; Page, Lee <Page.Lee@epa.gov>; Palma, Ted <Palma.Ted@epa.gov>; Pirzadeh, Michelle <Pirzadeh.Michelle@epa.gov>; Rimer, Kelly <Rimer.Kelly@epa.gov>; Rodman, Sonja <Rodman.Sonja@epa.gov>; Smith, Judy <Smith.Judy@epa.gov>; Stern, Allyn <Stern.Allyn@epa.gov>; Stewart, Michael <Stewart.Michael@epa.gov>; Stifelman, Marc <Stifelman.Marc@epa.gov>; Taylor, Kevin <Taylor.Kevin@epa.gov>; Terada, Calvin <Terada.Calvin@epa.gov>; Terry, Sara <Terry.Sara@epa.gov>; Thrift, Mike <thrift.mike@epa.gov>; Throwe, Scott <Throwe.Scott@epa.gov>; Tonel, Monica <Tonel.Monica@epa.gov>; Wendel, Arthur <Wendel.Arthur@epa.gov>; Williamson, Ann <Williamson.Ann@epa.gov>; Wroble, Julie <Wroble.Julie@epa.gov>; Yellin, Patrick <Yellin.Patrick@epa.gov>
Subject: RE: Color Glass Daily Update 3-2-16

Katie,

Just to confirm – there is no SAP for Uroboros yet but Chris Moore at DEQ is developing one and will share it with us as soon as it's complete. He has committed to sharing others as they are developed.

Paul

Paul Koprowski

U.S. EPA; Oregon Operations Office

805 SW Broadway, Suite 500

Portland, Oregon 97205

(503) 326-6363

From: McClintock, Katie
Sent: Wednesday, March 02, 2016 10:47 PM
To: Averback, Jonathan <Averback.Jonathan@epa.gov>; Barber, Anthony <Barber.Anthony@epa.gov>; Barnett, Keith <Barnett.Keith@epa.gov>; Bray, Dave <Bray.Dave@epa.gov>; Bremer, Kristen <Bremer.Kristen@epa.gov>; Cunningham, Roylene <Cunningham.Roylene@epa.gov>; Dalrymple, Anne <Dalrymple.Anne@epa.gov>; Davis, Alison <Davis.Alison@epa.gov>; Davis, Matthew <Davis.Matthew@epa.gov>; Doster, Brian <Doster.Brian@epa.gov>; Downey, Scott <Downey.Scott@epa.gov>; Fairchild, Susan <Fairchild.Susan@epa.gov>; Field, Chris <Field.Chris@epa.gov>; Fleming, Sheila <fleming.sheila@epa.gov>; Franklin, Richard <Franklin.Richard@epa.gov>; Fried, Gregory <Fried.Gregory@epa.gov>; Froikin, Sara <Froikin.Sara@epa.gov>; Hall, Chris <Hall.Christopher@epa.gov>; Hastings, Janis <Hastings.Janis@epa.gov>; Hedgpeth, Zach <Hedgpeth.Zach@epa.gov>; Holsman, Marianne <Holsman.Marianne@epa.gov>; Ingemansen, Dean <Ingemansen.Dean@epa.gov>; Johnson, Steffan <johnson.steffan@epa.gov>; Kaetzel, Rhonda <Kaetzel.Rhonda@epa.gov>; Keenan, John <keenan.john@epa.gov>; Koerber, Mike <Koerber.Mike@epa.gov>; Koprowski, Paul <Koprowski.Paul@epa.gov>; Kowalski, Ed <Kowalski.Edward@epa.gov>; Leefers, Kristin <Leefers.Kristin@epa.gov>; Lynch, Kira <lynch.kira@epa.gov>; Martenson, Eric <Martenson.Eric@epa.gov>; Matthews, Julie <Matthews.Juliane@epa.gov>; McLerran, Dennis <mclerran.dennis@epa.gov>; Mitchell, Ken <Mitchell.Ken@epa.gov>; Moon, Wally <Moon.Wally@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; Owens, Katharine <Owens.Katharine@epa.gov>; Page, Lee

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Subject: Color Glass Daily Update 3-2-16

Here is today's daily update

Ex. 6 - Personal Privacy

Katie McClintock

Air Enforcement Officer

EPA Region 10

1200 Sixth Avenue, Suite 900, OCE-101

Seattle, WA 98101

Phone: 206-553-2143

Fax: 206-553-4743

Mcclintock.katie@epa.gov

To: McClintock, Katie[McClintock.Katie@epa.gov]
From: Bray, Dave
Sent: Thur 3/3/2016 9:01:16 PM
Subject: FW: Color Glass Daily Update 3-2-16

Hi Katie,

The Forest Service scientist who was responsible for the Portland moss study is here in the office today meeting with the Water folks. Claire Schary is going to bring him by my cubicle shortly (if he has time). Are you here in the office and available to meet with him if he drops by?

Dave

From: Koprowski, Paul
Sent: Thursday, March 03, 2016 12:42 PM
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U.S. EPA; Oregon Operations Office

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Subject: Color Glass Daily Update 3-2-16

Here is today's daily update

Ex. 6 - Personal Privacy

Katie McClintock

Air Enforcement Officer

EPA Region 10

1200 Sixth Avenue, Suite 900, OCE-101

Seattle, WA 98101

Phone: 206-553-2143

Fax: 206-553-4743

Mcclintock.katie@epa.gov

To: McClintock, Katie[McClintock.Katie@epa.gov]; Holsman, Marianne[Holsman.Marianne@epa.gov]; Narvaez, Madonna[Narvaez.Madonna@epa.gov]; Skadowski, Suzanne[Skadowski.Suzanne@epa.gov]; Smith, Judy[Smith.Judy@epa.gov]; Philip, Jeff[Philip.Jeff@epa.gov]
Cc: Koprowski, Paul[Koprowski.Paul@epa.gov]; Hastings, Janis[Hastings.Janis@epa.gov]
From: Bray, Dave
Sent: Tue 3/1/2016 9:29:02 PM
Subject: RE: MEDIA INQUIRY: Oregonian re Bullseye Glass -- Deadline Today!

Hi Katie,

Those are great edits.

Ex. 5 - Deliberative Process

Dave

From: McClintock, Katie
Sent: Tuesday, March 01, 2016 1:23 PM
To: Bray, Dave <Bray.Dave@epa.gov>; Holsman, Marianne <Holsman.Marianne@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; Skadowski, Suzanne <Skadowski.Suzanne@epa.gov>; Smith, Judy <Smith.Judy@epa.gov>; Philip, Jeff <Philip.Jeff@epa.gov>
Cc: Koprowski, Paul <Koprowski.Paul@epa.gov>; Hastings, Janis <Hastings.Janis@epa.gov>
Subject: RE: MEDIA INQUIRY: Oregonian re Bullseye Glass -- Deadline Today!

Thanks Dave – as usual that is a great description. I would make two tiny adjustments below

Ex. 5 - Deliberative Process

From: Bray, Dave
Sent: Tuesday, March 01, 2016 1:17 PM
To: Holsman, Marianne <Holsman.Marianne@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; Skadowski, Suzanne <Skadowski.Suzanne@epa.gov>; Smith, Judy <Smith.Judy@epa.gov>; Philip, Jeff <Philip.Jeff@epa.gov>
Cc: Koprowski, Paul <Koprowski.Paul@epa.gov>; Hastings, Janis <Hastings.Janis@epa.gov>
Subject: RE: MEDIA INQUIRY: Oregonian re Bullseye Glass -- Deadline Today!

How about something like this?

Ex. 5 - Deliberative Process

From: Holsman, Marianne
Sent: Tuesday, March 01, 2016 11:46 AM
To: McClintock, Katie <McClintock.Katie@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; Skadowski, Suzanne <Skadowski.Suzanne@epa.gov>; Smith, Judy <Smith.Judy@epa.gov>; Philip, Jeff <Philip.Jeff@epa.gov>
Cc: Koprowski, Paul <Koprowski.Paul@epa.gov>; Hastings, Janis <Hastings.Janis@epa.gov>; Bray, Dave <Bray.Dave@epa.gov>
Subject: RE: MEDIA INQUIRY: Oregonian re Bullseye Glass -- Deadline Today!

Thanks very much, Katie.

Dave, could you craft a couple of plain language paragraphs that we can circulate?

Marianne

Follow us!

From: McClintock, Katie
Sent: Tuesday, March 01, 2016 11:42 AM
To: Narvaez, Madonna <Narvaez.Madonna@epa.gov>; Skadowski, Suzanne <Skadowski.Suzanne@epa.gov>; Holsman, Marianne <Holsman.Marianne@epa.gov>; Smith, Judy <Smith.Judy@epa.gov>; Philip, Jeff <Philip.Jeff@epa.gov>
Cc: Koprowski, Paul <Koprowski.Paul@epa.gov>; Holsman, Marianne <Holsman.Marianne@epa.gov>; Hastings, Janis <Hastings.Janis@epa.gov>; Bray, Dave <Bray.Dave@epa.gov>
Subject: RE: MEDIA INQUIRY: Oregonian re Bullseye Glass -- Deadline Today!

I'm paring down the list a bit.

Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process

Katie

From: Narvaez, Madonna
Sent: Tuesday, March 01, 2016 11:34 AM
To: Skadowski, Suzanne <Skadowski.Suzanne@epa.gov>; Holsman, Marianne <Holsman.Marianne@epa.gov>; Smith, Judy <Smith.Judy@epa.gov>; Philip, Jeff <Philip.Jeff@epa.gov>
Cc: Koprowski, Paul <Koprowski.Paul@epa.gov>; Downey, Scott <Downey.Scott@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Franklin, Richard <Franklin.Richard@epa.gov>; Wroble, Julie <Wroble.Julie@epa.gov>; Holsman, Marianne <Holsman.Marianne@epa.gov>; Hastings, Janis <Hastings.Janis@epa.gov>; Bray, Dave <Bray.Dave@epa.gov>; Moon, Wally <Moon.Wally@epa.gov>; Koerber, Mike <Koerber.Mike@epa.gov>; Davis, Alison <Davis.Alison@epa.gov>; Barber, Anthony <Barber.Anthony@epa.gov>; Terry, Sara <Terry.Sara@epa.gov>; Davis, Matthew <Davis.Matthew@epa.gov>; Dossett, Donald <Dossett.Donald@epa.gov>
Subject: RE: MEDIA INQUIRY: Oregonian re Bullseye Glass -- Deadline Today!
Importance: High

I'm replying to all because I don't know who will be answering this. I was asking because I was just getting familiar with the Area Source Glass Rule, 40 CFR Part 63 Subpart SSSSSS. I

Ex. 5 - Deliberative Process

From: Skadowski, Suzanne
Sent: Tuesday, March 01, 2016 11:22 AM
To: Holsman, Marianne <Holsman.Marianne@epa.gov>; Smith, Judy <Smith.Judy@epa.gov>; Philip, Jeff <Philip.Jeff@epa.gov>
Cc: Koprowski, Paul <Koprowski.Paul@epa.gov>; Downey, Scott <Downey.Scott@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Franklin, Richard <Franklin.Richard@epa.gov>; Wroble, Julie <Wroble.Julie@epa.gov>; Holsman, Marianne <Holsman.Marianne@epa.gov>; Hastings, Janis <Hastings.Janis@epa.gov>; Bray, Dave <Bray.Dave@epa.gov>; Moon, Wally <Moon.Wally@epa.gov>; Koerber, Mike <Koerber.Mike@epa.gov>; Davis, Alison <Davis.Alison@epa.gov>; Barber, Anthony <Barber.Anthony@epa.gov>; Terry, Sara <Terry.Sara@epa.gov>; Davis, Matthew <Davis.Matthew@epa.gov>
Subject: MEDIA INQUIRY: Oregonian re Bullseye Glass -- Deadline Today!
Importance: High

Judy's tied up till later this afternoon. Let me know if you need me to respond.

From: Rob Davis [mailto:RDavis@oregonian.com]
Sent: Tuesday, March 01, 2016 11:18 AM
To: Smith, Judy <Smith.Judy@epa.gov>; Skadowski, Suzanne <Skadowski.Suzanne@epa.gov>
Subject: FW: Bullseye Glass
Importance: High

Hi Judy, Suzanne:

I'm writing on deadline today about this. Does EPA believe that Bullseye Glass should've been operating under a Title V permit? The company reports producing far more than 50 tons of glass per year. (Please see attached screenshot of DEQ's ACDP showing the company "melts" 2000+ tons of glass a year.)

One potential hiccup here, raised in subsequent emails in the chain, is that the company says it does not operate a continuous furnace.

If the company was operating under a Title V permit, can you tell me what additional level of scrutiny or regulation would've been given to its air emissions?

I'm making the same inquiry of DEQ as well but would like to hear from EPA given that you all raised the issue in the email correspondence below, which I obtained through a public records request.

Thanks in advance for a swift response. I'm at my desk if it's easier, 503.294.7657.

Cheers,

Rob

ROB DAVIS

Reporter

The Oregonian

503.294.7657

@robwdavis

From: "Narvaez, Madonna" <Narvaez.Madonna@epa.gov>
Date: Thursday, February 4, 2016 at 9:48 AM
To: "monro.david@deq.state.or.us" <monro.david@deq.state.or.us>
Cc: "armitage.sarah@deq.state.or.us" <armitage.sarah@deq.state.or.us>
Subject: Bullseye Glass

Good morning, Dave. Can you tell me who the permit writer/inspector is for Bullseye Glass? I am trying to find out how many tons per year of glass they produce. If it is at least 50, they should have a Title V permit, and I can only find an ACDP for them, thanks!

==========

Madonna Narvaez

Regional Air Toxics Coordinator

USEPA, Region 10

1200 Sixth Avenue, Ste 900

MC: AWT-150

phone: 206-553-2117

fax: 206-553-0110

narvaez.madonna@epa.gov

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To: Holsman, Marianne[Holsman.Marianne@epa.gov]; McClintock, Katie[McClintock.Katie@epa.gov]; Narvaez, Madonna[Narvaez.Madonna@epa.gov]; Skadowski, Suzanne[Skadowski.Suzanne@epa.gov]; Smith, Judy[Smith.Judy@epa.gov]; Philip, Jeff[Philip.Jeff@epa.gov]
Cc: Koprowski, Paul[Koprowski.Paul@epa.gov]; Hastings, Janis[Hastings.Janis@epa.gov]
From: Bray, Dave
Sent: Tue 3/1/2016 9:17:01 PM
Subject: RE: MEDIA INQUIRY: Oregonian re Bullseye Glass -- Deadline Today!

How about something like this?

Ex. 5 - Deliberative Process

From: Holsman, Marianne
Sent: Tuesday, March 01, 2016 11:46 AM
To: McClintock, Katie <McClintock.Katie@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; Skadowski, Suzanne <Skadowski.Suzanne@epa.gov>; Smith, Judy <Smith.Judy@epa.gov>; Philip, Jeff <Philip.Jeff@epa.gov>
Cc: Koprowski, Paul <Koprowski.Paul@epa.gov>; Hastings, Janis <Hastings.Janis@epa.gov>; Bray, Dave <Bray.Dave@epa.gov>
Subject: RE: MEDIA INQUIRY: Oregonian re Bullseye Glass -- Deadline Today!

Thanks very much, Katie.

Dave, could you craft a couple of plain language paragraphs that we can circulate?

Marianne

Follow us!

From: McClintock, Katie
Sent: Tuesday, March 01, 2016 11:42 AM
To: Narvaez, Madonna <Narvaez.Madonna@epa.gov>; Skadowski, Suzanne <Skadowski.Suzanne@epa.gov>; Holsman, Marianne <Holsman.Marianne@epa.gov>; Smith, Judy <Smith.Judy@epa.gov>; Philip, Jeff <Philip.Jeff@epa.gov>
Cc: Koprowski, Paul <Koprowski.Paul@epa.gov>; Holsman, Marianne <Holsman.Marianne@epa.gov>; Hastings, Janis <Hastings.Janis@epa.gov>; Bray, Dave <Bray.Dave@epa.gov>
Subject: RE: MEDIA INQUIRY: Oregonian re Bullseye Glass -- Deadline Today!

I'm paring down the list a bit.

Ex. 5 - Deliberative Process

Katie

From: Narvaez, Madonna
Sent: Tuesday, March 01, 2016 11:34 AM
To: Skadowski, Suzanne <Skadowski.Suzanne@epa.gov>; Holsman, Marianne <Holsman.Marianne@epa.gov>; Smith, Judy <Smith.Judy@epa.gov>; Philip, Jeff <Philip.Jeff@epa.gov>
Cc: Koprowski, Paul <Koprowski.Paul@epa.gov>; Downey, Scott <Downey.Scott@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Franklin, Richard <Franklin.Richard@epa.gov>; Wroble, Julie <Wroble.Julie@epa.gov>; Holsman, Marianne <Holsman.Marianne@epa.gov>; Hastings, Janis <Hastings.Janis@epa.gov>; Bray, Dave <Bray.Dave@epa.gov>; Moon, Wally <Moon.Wally@epa.gov>; Koerber, Mike <Koerber.Mike@epa.gov>; Davis, Alison <Davis.Alison@epa.gov>; Barber, Anthony <Barber.Anthony@epa.gov>; Terry, Sara <Terry.Sara@epa.gov>; Davis, Matthew <Davis.Matthew@epa.gov>; Dossett, Donald <Dossett.Donald@epa.gov>
Subject: RE: MEDIA INQUIRY: Oregonian re Bullseye Glass -- Deadline Today!
Importance: High

I'm replying to all because I don't know who will be answering this. I was asking because I was just getting familiar with the Area Source Glass Rule, 40 CFR Part 63 Subpart SSSSSS. I

Ex. 5 - Deliberative Process

From: Skadowski, Suzanne
Sent: Tuesday, March 01, 2016 11:22 AM
To: Holsman, Marianne <Holsman.Marianne@epa.gov>; Smith, Judy <Smith.Judy@epa.gov>; Philip, Jeff <Philip.Jeff@epa.gov>
Cc: Koprowski, Paul <Koprowski.Paul@epa.gov>; Downey, Scott <Downey.Scott@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Franklin, Richard <Franklin.Richard@epa.gov>; Wroble, Julie <Wroble.Julie@epa.gov>; Holsman, Marianne <Holsman.Marianne@epa.gov>; Hastings, Janis <Hastings.Janis@epa.gov>; Bray, Dave <Bray.Dave@epa.gov>; Moon, Wally <Moon.Wally@epa.gov>; Koerber, Mike <Koerber.Mike@epa.gov>; Davis, Alison <Davis.Alison@epa.gov>; Barber, Anthony <Barber.Anthony@epa.gov>; Terry, Sara <Terry.Sara@epa.gov>; Davis, Matthew <Davis.Matthew@epa.gov>
Subject: MEDIA INQUIRY: Oregonian re Bullseye Glass -- Deadline Today!
Importance: High

Judy's tied up till later this afternoon. Let me know if you need me to respond.

From: Rob Davis [mailto:RDavis@oregonian.com]
Sent: Tuesday, March 01, 2016 11:18 AM
To: Smith, Judy <Smith.Judy@epa.gov>; Skadowski, Suzanne <Skadowski.Suzanne@epa.gov>
Subject: FW: Bullseye Glass
Importance: High

Hi Judy, Suzanne:

I'm writing on deadline today about this. Does EPA believe that Bullseye Glass should've been operating under a Title V permit? The company reports producing far more than 50 tons of glass per year. (Please see attached screenshot of DEQ's ACDP showing the company "melts" 2000+ tons of glass a year.)

One potential hiccup here, raised in subsequent emails in the chain, is that the company says it does not operate a continuous furnace.

If the company was operating under a Title V permit, can you tell me what additional level of scrutiny or regulation would've been given to its air emissions?

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Thanks in advance for a swift response. I'm at my desk if it's easier, 503.294.7657.

Cheers,

Rob

ROB DAVIS

Reporter

The Oregonian

503.294.7657

@robwdavis

From: "Narvaez, Madonna" <Narvaez.Madonna@epa.gov>
Date: Thursday, February 4, 2016 at 9:48 AM
To: "monro.david@deq.state.or.us" <monro.david@deq.state.or.us>
Cc: "armitage.sarah@deq.state.or.us" <armitage.sarah@deq.state.or.us>
Subject: Bullseye Glass

Good morning, Dave. Can you tell me who the permit writer/inspector is for Bullseye Glass? I am trying to find out how many tons per year of glass they produce. If it is at least 50, they should have a Title V permit, and I can only find an ACDP for them, thanks!

==========

Madonna Narvaez

Regional Air Toxics Coordinator

USEPA, Region 10

1200 Sixth Avenue, Ste 900

MC: AWT-150

phone: 206-553-2117

fax: 206-553-0110

narvaez.madonna@epa.gov

Follow @EPAnorthwest on Twitter!https://twitter.com/EPAnorthwest

To: Mitchell, Ken[Mitchell.Ken@epa.gov]; McClintock, Katie[McClintock.Katie@epa.gov]
Cc: Banister, Beverly[Banister.Beverly@epa.gov]; Russo, Todd[Russo.Todd@epa.gov]; Taylor, Kevin[Taylor.Kevin@epa.gov]; Spagg, Beverly[Spagg.Beverly@epa.gov]; Dubose, Dick[DuBose.Dick@epa.gov]; Page, Lee[Page.Lee@epa.gov]
From: Bray, Dave
Sent: Mon 2/29/2016 5:01:48 PM
Subject: RE: Art Glass -- clarifying question

Hi Ken,

Hopefully, Katie will get a chance to confirm, but yes, we are NOT currently focusing on facilities that buy colored glass or colored frit and simply use it or melt it to make products. We are focused on glass manufacturing operations that make colored glass by adding raw metals to furnaces. These are glass manufacturing operations like those that would be subject to the arsenic NESHAP in 40 CFR Part 61, Subpart N or the area source MACT standard for glass manufacturing in 40 CFR 63, Subpart SSSSSS.

Dave

From: Mitchell, Ken
Sent: Friday, February 26, 2016 11:34 AM
To: McClintock, Katie; Bray, Dave
Cc: Banister, Beverly; Russo, Todd; Taylor, Kevin; Spagg, Beverly; Dubose, Dick; Page, Lee; Mitchell, Ken
Subject: Art Glass -- clarifying question

Yes....thank you. One other question...this was somewhat opaque to me during our discussion yesterday. In short, it sounds like to me that, very broadly speaking:

There are facilities that MAKE colored glass for use by others (e.g., Bullseye). It's these folks that MAKE colored glass that are the focus of our current investigation (i.e., these are the facilities on the list of facilities in Janet's memo from last night).

There are facilities that USE colored glass to make products (like stained glass windows, glassware, etc.). We are NOT currently focusing on the many facilities that buy colored glass and then USE it to make a product, even if they have to do some kind of heating or melting of that colored glass to make their product.

Is that correct?

Kenneth L. Mitchell, Ph.D. | Special Assistant to the Director |
Air, Pesticides, and Toxics Management Division
U.S. Environmental Protection Agency | 61 Forsyth Street, SW | Atlanta, GA 30303
Voice: 404-562-9065 | Fax: 404-562-9066 | Email: mitchell.ken@epa.gov
Healthier Families, Cleaner Communities, A Stronger America
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-----Original Message-----
From: Bray, Dave
Sent: Friday, February 26, 2016 2:24 PM
To: Mitchell, Ken <Mitchell.Ken@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>
Cc: Banister, Beverly <Banister.Beverly@epa.gov>; Russo, Todd <Russo.Todd@epa.gov>; Taylor, Kevin <Taylor.Kevin@epa.gov>; Spagg, Beverly <Spagg.Beverly@epa.gov>

Subject: RE: McCarthy-Brown Follow-Up

Hi Ken,

Yes, Mark's note mischaracterizes two different things:

First, it is not glass "blowing" but rather glass manufacturing where colored glass is being made by adding raw metals into glass furnaces. We have no information that glass blowing or other glass melting operations are potential air toxics sources.

Second, the only area where there is current monitoring data that shows increased levels of air toxics near glass manufacturing operations is in Portland, OR. Yes, we suspect that there may be increased levels near other colored glass manufacturing facilities, but we don't currently have any information showing such.

Hope this helps.

Dave

From: Mitchell, Ken
Sent: Friday, February 26, 2016 11:02 AM
To: McClintock, Katie; Bray, Dave
Cc: Banister, Beverly; Russo, Todd; Taylor, Kevin; Spagg, Beverly; Mitchell, Ken
Subject: FW: McCarthy-Brown Follow-Up

Katie and Dave….In case you had not seen this (email below and attachment).

Also, Mark Rupp says in his note below to the RAs that "…the attached memo from Janet to ADDs notes several communities – ones that fall into your regions – where increased levels of air toxics are being seen related to glass blowing operations." (Emphasis added)

I'm not aware that we have any evidence that is the case. Can you please confirm that this should actually say "where increased levels of air toxics may be an issue"? Thanks.

Kenneth L. Mitchell, Ph.D. | Special Assistant to the Director | Air, Pesticides, and Toxics Management Division U.S. Environmental Protection Agency | 61 Forsyth Street, SW | Atlanta, GA 30303
Voice: 404-562-9065 | Fax: 404-562-9066 | Email:
mitchell.ken@epa.gov<mailto:mitchell.ken@epa.gov>
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Begin forwarded message:
From: "Rupp, Mark" <Rupp.Mark@epa.gov<mailto:Rupp.Mark@epa.gov>>
Date: February 26, 2016 at 12:34:38 PM CST
To: "McTeerToney, Heather"
<McTeerToney.Heather@epa.gov<mailto:McTeerToney.Heather@epa.gov>>, "Heard, Anne"
<Heard.Anne@epa.gov<mailto:Heard.Anne@epa.gov>>, "Kaplan, Robert"
<kaplan.robert@epa.gov<mailto:kaplan.robert@epa.gov>>, "Newton, Cheryl"
<Newton.Cheryl@epa.gov<mailto:Newton.Cheryl@epa.gov>>, "Enck, Judith"

<Enck.Judith@epa.gov<mailto:Enck.Judith@epa.gov>>, "Mccabe, Catherine" <McCabe.Catherine@epa.gov<mailto:McCabe.Catherine@epa.gov>>, "Blumenfeld, Jared" <BLUMENFELD.JARED@EPA.GOV<mailto:BLUMENFELD.JARED@epa.gov>>, "Strauss, Alexis" <Strauss.Alexis@epa.gov<mailto:Strauss.Alexis@epa.gov>>, "Garvin, Shawn" <garvin.shawn@epa.gov<mailto:garvin.shawn@epa.gov>>, "Rodrigues, Cecil" <rodrigues.cecil@epa.gov<mailto:rodrigues.cecil@epa.gov>>
Cc: "McLerran, Dennis" <mclerran.dennis@epa.gov<mailto:mclerran.dennis@epa.gov>>, "Pirzadeh, Michelle" <Pirzadeh.Michelle@epa.gov<mailto:Pirzadeh.Michelle@epa.gov>>, AO-ORO <AOORO@epa.gov<mailto:AOORO@epa.gov>>
Subject: FW: McCarthy-Brown Follow-Up
RAs/DRAs from 2, 3, 4, 5 and 9. (And cc'ing 10.) Please find, attached, a letter that we just sent to the Governor of Oregon, in response to a matter the Governor raised with the Administrator during our Western Governors breakfast (and on which the two had a follow-up call on Wednesday).

I'm alerting you because the attached memo from Janet to ADDs notes several communities – ones that fall into your regions – where increased levels of air toxics are being seen related to glass blowing operations.

There is no intention of making any news of this – but know your PADs will get a statement that OAR is developing in the event questions come up.

Mark

From: Rupp, Mark
Sent: Friday, February 26, 2016 1:24 PM
Subject: McCarthy-Brown Follow-Up

Hey, Jan. Happy Friday!

Thanks for your help in setting up the earlier call with Administrator McCarthy and Governor Brown. Please find, attached, a letter in follow-up if you can get it to the Governor.

And to the rest of the Oregon crew, please don't hesitate reaching out to Dennis McLerran (cc'd) or me!

Thanks,
Mark

Mark W. Rupp
Deputy Associate Administrator for Intergovernmental Relations Office of Congressional and Intergovernmental Relations U.S. Environmental Protection Agency
1200 Pennsylvania Avenue, NW
Washington, DC 20460
(202) 564-6074 (O)
(202) 596-0950 (C)

To: Mitchell, Ken[Mitchell.Ken@epa.gov]; McClintock, Katie[McClintock.Katie@epa.gov]
Cc: Banister, Beverly[Banister.Beverly@epa.gov]; Russo, Todd[Russo.Todd@epa.gov]; Taylor, Kevin[Taylor.Kevin@epa.gov]; Spagg, Beverly[Spagg.Beverly@epa.gov]
From: Bray, Dave
Sent: Fri 2/26/2016 7:24:18 PM
Subject: RE: McCarthy-Brown Follow-Up

Hi Ken,

Yes, Mark's note mischaracterizes two different things:

First, it is not glass "blowing" but rather glass manufacturing where colored glass is being made by adding raw metals into glass furnaces. We have no information that glass blowing or other glass melting operations are potential air toxics sources.

Second, the only area where there is current monitoring data that shows increased levels of air toxics near glass manufacturing operations is in Portland, OR. Yes, we suspect that there may be increased levels near other colored glass manufacturing facilities, but we don't currently have any information showing such.

Hope this helps.

Dave

From: Mitchell, Ken
Sent: Friday, February 26, 2016 11:02 AM
To: McClintock, Katie; Bray, Dave
Cc: Banister, Beverly; Russo, Todd; Taylor, Kevin; Spagg, Beverly; Mitchell, Ken
Subject: FW: McCarthy-Brown Follow-Up

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Kenneth L. Mitchell, Ph.D. | Special Assistant to the Director |
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<Heard.Anne@epa.gov<mailto:Heard.Anne@epa.gov>>, "Kaplan, Robert"
<kaplan.robert@epa.gov<mailto:kaplan.robert@epa.gov>>, "Newton, Cheryl"
<Newton.Cheryl@epa.gov<mailto:Newton.Cheryl@epa.gov>>, "Enck, Judith"
<Enck.Judith@epa.gov<mailto:Enck.Judith@epa.gov>>, "Mccabe, Catherine"
<McCabe.Catherine@epa.gov<mailto:McCabe.Catherine@epa.gov>>, "Blumenfeld, Jared"
<BLUMENFELD.JARED@EPA.GOV<mailto:BLUMENFELD.JARED@epa.gov>>, "Strauss, Alexis"
<Strauss.Alexis@epa.gov<mailto:Strauss.Alexis@epa.gov>>, "Garvin, Shawn"
<garvin.shawn@epa.gov<mailto:garvin.shawn@epa.gov>>, "Rodrigues, Cecil"
<rodrigues.cecil@epa.gov<mailto:rodrigues.cecil@epa.gov>>
Cc: "McLerran, Dennis" <mclerran.dennis@epa.gov<mailto:mclerran.dennis@epa.gov>>, "Pirzadeh, Michelle" <Pirzadeh.Michelle@epa.gov<mailto:Pirzadeh.Michelle@epa.gov>>, AO-ORO
<AOORO@epa.gov<mailto:AOORO@epa.gov>>
Subject: FW: McCarthy-Brown Follow-Up
RAs/DRAs from 2, 3, 4, 5 and 9. (And cc'ing 10.) Please find, attached, a letter that we just sent to the Governor of Oregon, in response to a matter the Governor raised with the Administrator during our Western Governors breakfast (and on which the two had a follow-up call on Wednesday).

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Mark

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Sent: Friday, February 26, 2016 1:24 PM
Subject: McCarthy-Brown Follow-Up

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Thanks for your help in setting up the earlier call with Administrator McCarthy and Governor Brown. Please find, attached, a letter in follow-up if you can get it to the Governor.

And to the rest of the Oregon crew, please don't hesitate reaching out to Dennis McLerran (cc'd) or me!

Thanks,
Mark

Mark W. Rupp
Deputy Associate Administrator for Intergovernmental Relations
Office of Congressional and Intergovernmental Relations
U.S. Environmental Protection Agency
1200 Pennsylvania Avenue, NW
Washington, DC 20460
(202) 564-6074 (O)
(202) 596-0950 (C)

To: McClintock, Katie[McClintock.Katie@epa.gov]
From: Bray, Dave
Sent: Wed 2/24/2016 8:24:42 PM
Subject: RE: Revised ADD Note and Gov Cover letter

Can you talk?

Are you in the office or working remotely?

Dave

From: McClintock, Katie
Sent: Wednesday, February 24, 2016 11:31 AM
To: Bray, Dave
Subject: RE: Revised ADD Note and Gov Cover letter

Ex. 5 - Deliberative Process

From: Bray, Dave
Sent: Wednesday, February 24, 2016 11:27 AM
To: McClintock, Katie <McClintock.Katie@epa.gov>
Subject: RE: Revised ADD Note and Gov Cover letter

No problem.

What do you think of Sara's revised paragraphs?

Dave

From: McClintock, Katie
Sent: Wednesday, February 24, 2016 11:23 AM
To: Bray, Dave
Subject: RE: Revised ADD Note and Gov Cover letter

Thank you for doing this.

Ex. 6 - Personal Privacy

Ex. 6 - Personal Privacy

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

From: Bray, Dave
Sent: Wednesday, February 24, 2016 10:48 AM
To: McClintock, Katie <McClintock.Katie@epa.gov>
Subject: RE: Revised ADD Note and Gov Cover letter

Hi Katie,

So are you consolidating all of the Region 10 comments/edits?

I can send you what I have done so far if that's the case.

Dave

From: McClintock, Katie
Sent: Wednesday, February 24, 2016 10:01 AM
To: Terry, Sara; Koerber, Mike; Hastings, Janis; Fairchild, Susan; Noonan, Jenny; Bray, Dave; Narvaez, Madonna
Subject: RE: Revised ADD Note and Gov Cover letter

Ex. 5 - Deliberative Process

From: Terry, Sara
Sent: Wednesday, February 24, 2016 9:18 AM
To: Koerber, Mike <Koerber.Mike@epa.gov>; Hastings, Janis <Hastings.Janis@epa.gov>; Fairchild, Susan <Fairchild.Susan@epa.gov>; Noonan, Jenny <Noonan.Jenny@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Bray, Dave <Bray.Dave@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>
Subject: Revised ADD Note and Gov Cover letter

Attached are revised versions of these documents that incorporate many of the suggested changes. Please let me know ASAP if there is any heartburn with these so we can get to Janet.

Thanks for your rapid attention to this task.

Sara

To: McClintock, Katie[McClintock.Katie@epa.gov]
From: Bray, Dave
Sent: Wed 2/24/2016 8:22:45 PM
Subject: FW: Planning for Thursday, 2/25, RA Update on Portland Air Toxics

Hi Katie,

Any thoughts on the possible agenda for tomorrow.

Here's what I'm currently thinking:

Topics (5 min each)

- Portland facilities: Brief updates and next steps – Katie
- Applicability of the area source NESHAP to the above facilities? – OECA/OGC/OAQPS
- Other facilities nationwide: Brief update and next steps (Janet's email) – OAQPS
- ODEQ's requests for support: Current status/needs – Paul/Wally
- Spectrum: Status and comparison with Bullseye – Katie
- Questions from Dennis

If you agree, I'll send this to Mike, Paul, and Madonna to see if they are OK with it.

Dave

From: Hastings, Janis
Sent: Monday, February 22, 2016 10:52 AM
To: Holsman, Marianne; Bray, Dave; Koprowski, Paul; Narvaez, Madonna; Smith, Judy; McClintock, Katie; Koerber, Mike; Davis, Alison; Barber, Anthony; Terry, Sara; Davis, Matthew
Cc: Downey, Scott; Moon, Wally; Bremer, Kristen; Fairchild, Susan
Subject: Planning for Thursday, 2/25, RA Update on Portland Air Toxics

Hi, everyone. We will use the call scheduled for this Thursday, 2/25, to update Dennis. I have forwarded the call-in information to him. He is generally aware of the background and issues, so we will focus on updates.

Instead of the regular daily update, below is a very rough agenda for Thursday, which I hope Dave, Katie, Madonna, and Mike can finalize.
Dave, could you please send out the final agenda for Thursday's call on Wed?

Topics (5 min each)

- Portland facilities: Brief updates and next steps – Katie
- Applicability determinations for the above facilities: Status – OAQPS?
- Other facilities nationwide: Brief update and next steps – HQ?
- ODEQ's requests for support: Current status/needs – Katie/Paul/Wally?
- Spectrum: Status and comparison with Bullseye – Katie

· Questions from Dennis

Thanks!

Jan

Janis Hastings, Acting Director
Office of Air, Waste & Toxics
U.S. Environmental Protection Agency, Region 10
1200 Sixth Ave, Ste. 900
Seattle, WA 98101
(206) 553-1582

From: Holsman, Marianne
Sent: Friday, February 19, 2016 1:09 PM
To: Bray, Dave <Bray.Dave@epa.gov>; Hastings, Janis <Hastings.Janis@epa.gov>; Koprowski, Paul <Koprowski.Paul@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; Smith, Judy <Smith.Judy@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Koerber, Mike <Koerber.Mike@epa.gov>; Davis, Alison <Davis.Alison@epa.gov>; Barber, Anthony <Barber.Anthony@epa.gov>; Terry, Sara <Terry.Sara@epa.gov>; Davis, Matthew <Davis.Matthew@epa.gov>
Cc: Downey, Scott <Downey.Scott@epa.gov>; Moon, Wally <Moon.Wally@epa.gov>; Bremer, Kristen <Bremer.Kristen@epa.gov>; Fairchild, Susan <Fairchild.Susan@epa.gov>
Subject: Re: Daily Updates on Portland Air Toxics

Hi Folks:

Sorry for all the calendar activity. I clearly need to slow down! Thanks to Katie for noting our daily calls were set for the weekends. Thankfully that doesn't seem necessary.

We'll catch up on Monday. May not be a ton to discuss then, but maybe we can make a plan for who needs to be in the conversations about what are the next steps and how we'll be communicating about them?

Have a good weekend!

From: Holsman, Marianne
Sent: Tuesday, February 16, 2016 4:12 PM
To: Holsman, Marianne; Bray, Dave; Hastings, Janis; Koprowski, Paul; Narvaez, Madonna; Smith, Judy; McClintock, Katie; Koerber, Mike; Davis, Alison; Barber, Anthony; Terry, Sara; Davis, Matthew
Cc: Downey, Scott; Moon, Wally; Bremer, Kristen; Fairchild, Susan
Subject: Daily Updates on Portland Air Toxics
When: Friday, February 19, 2016 8:30 AM-9:00 AM.
Where: Ex. 6 - Personal Privacy code: Ex. 6 - Personal Privacy

Hi Folks:

Thought at least a morning update each day would help everyone know what is happening given how dynamic things are right now. May want to do an end of day wrap as well.

If you can't make the updates, please send me and Jan an email and we'll report for you.

The idea is we each report on what we know and are working on currently. Simple!

Thanks!

To: Terry, Sara[Terry.Sara@epa.gov]; McClintock, Katie[McClintock.Katie@epa.gov]; Koerber, Mike[Koerber.Mike@epa.gov]; Hastings, Janis[Hastings.Janis@epa.gov]; Fairchild, Susan[Fairchild.Susan@epa.gov]; Noonan, Jenny[Noonan.Jenny@epa.gov]; Narvaez, Madonna[Narvaez.Madonna@epa.gov]
From: Bray, Dave
Sent: Wed 2/24/2016 7:18:43 PM
Subject: RE: Revised ADD Note and Gov Cover letter

Yeah, that's probably sufficient.

It should say "Part 63, Subpart SSSSSS" though.

Dave

From: Terry, Sara
Sent: Wednesday, February 24, 2016 11:15 AM
To: Bray, Dave; McClintock, Katie; Koerber, Mike; Hastings, Janis; Fairchild, Susan; Noonan, Jenny; Narvaez, Madonna
Subject: RE: Revised ADD Note and Gov Cover letter

This is covered later in the note:

- The Office of Enforcement and Compliance Assistance (OECA), the Office of General Counsel (OGC) and OAQPS are jointly investigating the applicability of Part 63 SSSSSS to these and similar facilities nationally.

-----Original Message-----
From: Bray, Dave
Sent: Wednesday, February 24, 2016 2:14 PM
To: Terry, Sara <Terry.Sara@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Koerber, Mike <Koerber.Mike@epa.gov>; Hastings, Janis <Hastings.Janis@epa.gov>; Fairchild, Susan <Fairchild.Susan@epa.gov>; Noonan, Jenny <Noonan.Jenny@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>
Subject: RE: Revised ADD Note and Gov Cover letter

Hi Sara,

Ex. 5 - Deliberative Process

Dave

From: Terry, Sara
Sent: Wednesday, February 24, 2016 11:05 AM
To: Bray, Dave; McClintock, Katie; Koerber, Mike; Hastings, Janis; Fairchild, Susan; Noonan, Jenny; Narvaez, Madonna
Subject: RE: Revised ADD Note and Gov Cover letter

Here are my drafts of the two paragraphs of concer:

Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process

-----Original Message-----
From: Bray, Dave
Sent: Wednesday, February 24, 2016 1:33 PM
To: McClintock, Katie <McClintock.Katie@epa.gov>; Terry, Sara <Terry.Sara@epa.gov>; Koerber, Mike <Koerber.Mike@epa.gov>; Hastings, Janis <Hastings.Janis@epa.gov>; Fairchild, Susan <Fairchild.Susan@epa.gov>; Noonan, Jenny <Noonan.Jenny@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>
Subject: RE: Revised ADD Note and Gov Cover letter

Thanks Katie.

I caught that one too and was working to revise that sentence along with the sentence talking about the metals that are temporarily not being used.

Dave

From: McClintock, Katie
Sent: Wednesday, February 24, 2016 10:01 AM
To: Terry, Sara; Koerber, Mike; Hastings, Janis; Fairchild, Susan; Noonan, Jenny; Bray, Dave; Narvaez, Madonna
Subject: RE: Revised ADD Note and Gov Cover letter

Ex. 5 - Deliberative Process

From: Terry, Sara
Sent: Wednesday, February 24, 2016 9:18 AM
To: Koerber, Mike <Koerber.Mike@epa.gov>; Hastings, Janis <Hastings.Janis@epa.gov>; Fairchild, Susan <Fairchild.Susan@epa.gov>; Noonan, Jenny <Noonan.Jenny@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Bray, Dave <Bray.Dave@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>
Subject: Revised ADD Note and Gov Cover letter

Attached are revised versions of these documents that incorporate many of the suggested changes. Please let me know ASAP if there is any heartburn with these so we can get to Janet.

Thanks for your rapid attention to this task.

Sara

To: Terry, Sara[Terry.Sara@epa.gov]; McClintock, Katie[McClintock.Katie@epa.gov]; Koerber, Mike[Koerber.Mike@epa.gov]; Hastings, Janis[Hastings.Janis@epa.gov]; Fairchild, Susan[Fairchild.Susan@epa.gov]; Noonan, Jenny[Noonan.Jenny@epa.gov]; Narvaez, Madonna[Narvaez.Madonna@epa.gov]
From: Bray, Dave
Sent: Wed 2/24/2016 7:14:13 PM
Subject: RE: Revised ADD Note and Gov Cover letter

Hi Sara,

Ex. 5 - Deliberative Process

Dave

From: Terry, Sara
Sent: Wednesday, February 24, 2016 11:05 AM
To: Bray, Dave; McClintock, Katie; Koerber, Mike; Hastings, Janis; Fairchild, Susan; Noonan, Jenny; Narvaez, Madonna
Subject: RE: Revised ADD Note and Gov Cover letter

Here are my drafts of the two paragraphs of concer:

Ex. 5 - Deliberative Process

-----Original Message-----
From: Bray, Dave
Sent: Wednesday, February 24, 2016 1:33 PM
To: McClintock, Katie <McClintock.Katie@epa.gov>; Terry, Sara <Terry.Sara@epa.gov>; Koerber, Mike <Koerber.Mike@epa.gov>; Hastings, Janis <Hastings.Janis@epa.gov>; Fairchild, Susan <Fairchild.Susan@epa.gov>; Noonan, Jenny <Noonan.Jenny@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>
Subject: RE: Revised ADD Note and Gov Cover letter

Thanks Katie.

I caught that one too and was working to revise that sentence along with the sentence talking about the metals that are temporarily not being used.

Dave

From: McClintock, Katie
Sent: Wednesday, February 24, 2016 10:01 AM
To: Terry, Sara; Koerber, Mike; Hastings, Janis; Fairchild, Susan; Noonan, Jenny; Bray, Dave; Narvaez, Madonna
Subject: RE: Revised ADD Note and Gov Cover letter

Ex. 5 - Deliberative Process

From: Terry, Sara
Sent: Wednesday, February 24, 2016 9:18 AM
To: Koerber, Mike <Koerber.Mike@epa.gov>; Hastings, Janis <Hastings.Janis@epa.gov>; Fairchild, Susan <Fairchild.Susan@epa.gov>; Noonan, Jenny <Noonan.Jenny@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Bray, Dave <Bray.Dave@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>
Subject: Revised ADD Note and Gov Cover letter

Attached are revised versions of these documents that incorporate many of the suggested changes. Please let me know ASAP if there is any heartburn with these so we can get to Janet.

Thanks for your rapid attention to this task.

Sara

To: Terry, Sara[Terry.Sara@epa.gov]; Koerber, Mike[Koerber.Mike@epa.gov]; Hastings, Janis[Hastings.Janis@epa.gov]; Fairchild, Susan[Fairchild.Susan@epa.gov]; Noonan, Jenny[Noonan.Jenny@epa.gov]; McClintock, Katie[McClintock.Katie@epa.gov]; Narvaez, Madonna[Narvaez.Madonna@epa.gov]
From: Bray, Dave
Sent: Wed 2/24/2016 5:46:44 PM
Subject: RE: Revised ADD Note and Gov Cover letter

Hi Sara,

I will have at least one suggested change to the letter and I'll get you anything more shortly. Because Janet's email will be released externally as an attachment to the Governor letter it is important to be factually correct with respect to the facilities. For example Uroboros hasn't used arsenic for a couple of decades so it is incorrect to say that they have suspended the use of arsenic (but Bullseye has suspended its use along with cadmium and chromium).

Dave

From: Terry, Sara
Sent: Wednesday, February 24, 2016 9:17 AM
To: Koerber, Mike; Hastings, Janis; Fairchild, Susan; Noonan, Jenny; McClintock, Katie; Bray, Dave; Narvaez, Madonna
Subject: Revised ADD Note and Gov Cover letter

Attached are revised versions of these documents that incorporate many of the suggested changes. Please let me know ASAP if there is any heartburn with these so we can get to Janet.

Thanks for your rapid attention to this task.

Sara

To: McClintock, Katie[McClintock.Katie@epa.gov]
From: Bray, Dave
Sent: Wed 2/24/2016 5:31:23 PM
Subject: RE: does this look good for the 9am call?

Good job!

Dave

From: McClintock, Katie
Sent: Wednesday, February 24, 2016 8:50 AM
To: Hastings, Janis; Bray, Dave
Subject: does this look good for the 9am call?

- Air studies: USFS moss study to find hot spots, state air monitoring, results
- Types of sources, location of sources (near daycares/schools)
- Public response
- Discuss source of emissions in glass process (aka metals added for coloring the glass)
- Discuss current knowledge of health concerns presented by arsenic, cadmium, and chromium
- Reaction of the sources (voluntary suspension of use of arsenic, cadmium, chromium)
- inspections (Bullseye, Uroboros, Spectrum, Northstar)
- Internal agency responses/ongoing work

§ Understanding universe

§ Understanding emissions

§ Understanding controls

§ Looking at applicability of 6S

Katie McClintock
Air Enforcement Officer
EPA Region 10
1200 Sixth Avenue, Suite 900, OCE-101
Seattle, WA 98101
Phone: 206-553-2143
Fax: 206-553-4743
Mcclintock.katie@epa.gov

To: McClintock, Katie[McClintock.Katie@epa.gov]
From: Bray, Dave
Sent: Wed 2/24/2016 4:56:48 PM
Subject: RE: does this look good for the 9am call?

Just checking to make sure you got the call in numbers.

Dave

From: McClintock, Katie
Sent: Wednesday, February 24, 2016 8:50 AM
To: Hastings, Janis; Bray, Dave
Subject: does this look good for the 9am call?

- Air studies: USFS moss study to find hot spots, state air monitoring, results
- Types of sources, location of sources (near daycares/schools)
- Public response
- Discuss source of emissions in glass process (aka metals added for coloring the glass)
- Discuss current knowledge of health concerns presented by arsenic, cadmium, and chromium
- Reaction of the sources (voluntary suspension of use of arsenic, cadmium, chromium)
- inspections (Bullseye, Uroboros, Spectrum, Northstar)
- Internal agency responses/ongoing work

§ Understanding universe

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Katie McClintock
Air Enforcement Officer
EPA Region 10
1200 Sixth Avenue, Suite 900, OCE-101
Seattle, WA 98101
Phone: 206-553-2143
Fax: 206-553-4743
Mcclintock.katie@epa.gov

To: McClintock, Katie[McClintock.Katie@epa.gov]; Hastings, Janis[Hastings.Janis@epa.gov]
From: Bray, Dave
Sent: Wed 2/24/2016 4:52:29 PM
Subject: RE: does this look good for the 9am call?

looks good to me

From: McClintock, Katie
Sent: Wednesday, February 24, 2016 8:50 AM
To: Hastings, Janis; Bray, Dave
Subject: does this look good for the 9am call?

- Air studies: USFS moss study to find hot spots, state air monitoring, results
- Types of sources, location of sources (near daycares/schools)
- Public response
- Discuss source of emissions in glass process (aka metals added for coloring the glass)
- Discuss current knowledge of health concerns presented by arsenic, cadmium, and chromium
- Reaction of the sources (voluntary suspension of use of arsenic, cadmium, chromium)
- inspections (Bullseye, Uroboros, Spectrum, Northstar)
- Internal agency responses/ongoing work

§ Understanding universe

§ Understanding emissions

§ Understanding controls

§ Looking at applicability of 6S

Katie McClintock
Air Enforcement Officer
EPA Region 10
1200 Sixth Avenue, Suite 900, OCE-101
Seattle, WA 98101
Phone: 206-553-2143
Fax: 206-553-4743
Mcclintock.katie@epa.gov

To: Smith, Judy[Smith.Judy@epa.gov]; Hastings, Janis[Hastings.Janis@epa.gov]; Downey, Scott[Downey.Scott@epa.gov]; McClintock, Katie[McClintock.Katie@epa.gov]; Koprowski, Paul[Koprowski.Paul@epa.gov]; Holsman, Marianne[Holsman.Marianne@epa.gov]
From: Bray, Dave
Sent: Tue 2/23/2016 7:50:36 PM
Subject: RE: MEDIA INQUIRY: Air quality questions - Vancouver Columbian

Hi Judy,

Rather than the Washington DOE, the reporter really needs to talk to the Southwest Clean Air Agency. SWCAA implements and enforces most of the Ecology rules in the Vancouver area and has also adopted some rules similar to Oregon DEQ's in order to level the playing field within the Portland/Vancouver airshed. For example, SWCAA has adopted an Air Contaminant Discharge Permit program nearly identical to ODEQ's ACDP program which neither WDOE or any of the other Washington local authorities have.

I suggest that he contact:

Uri Papish
Executive Director
uri@swcleanair.org

Phone: 360-574-3058
Toll Free: 1-800- 633-0709

From: Smith, Judy
Sent: Tuesday, February 23, 2016 11:37 AM
To: Bray, Dave <Bray.Dave@epa.gov>; Hastings, Janis <Hastings.Janis@epa.gov>; Downey, Scott <Downey.Scott@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Koprowski, Paul <Koprowski.Paul@epa.gov>; Holsman, Marianne <Holsman.Marianne@epa.gov>
Subject: MEDIA INQUIRY: Air quality questions - Vancouver Columbian

Hi – Here is a new reporter inquiry from Portland's next door neighbor to the north. I highlighted six questions in the reporters e-mail. (#1 and #6 aren't really questions, but I highlighted them anyway.) I think #4 and #5 we could redirect to WA ECY. Who will be able to help construct answers to the other questions. The reporter didn't tell me if he was working on a deadline. I'll find out when I relay the information on which questions he should direct to ECY. Is there an AQ contact at ECY he should ask for, or should I send him to their public affairs office? Thanks, Judy

From: Dameon Pesanti [mailto:Dameon.Pesanti@columbian.com]
Sent: Tuesday, February 23, 2016 11:18 AM
To: Smith, Judy <Smith.Judy@epa.gov>
Subject: Air quality questions

Hi Judy,

I just got your message, thanks for getting back to me and making some time to connect. My first thought was to contact DOE, so thanks for validating my hunches.

If I can take you up on your offer, I would like to compare the two states. This article is really going to be an answer to the question: "That's happening in Portland, what's going on here in Vancouver?" I've included a couple questions, but, please, just stop me if any are better suited for Ecology. Nonetheless, here it goes:

Can you explain to me how the EPA works with the state to monitor and enforce air quality standards within Vancouver?

I read on wweek.com that the source company of all the pollution is too small to be in violation of any state laws, even though they're emitting quite a bit of stuff. The paragraphs I'm looking at are:

"Under its state permit, the company is legally allowed to emit 10 tons of any given air pollutant a year, or 25 tons for any combination of two or more toxics spewing from their stacks. Those weights, expressed in tons, apply not to the physical raw material involved, but to the amount of aerosol emissions—the weight of the smoke, or smog, or plume.

According to an April 2011 DEQ "Discharge Permit Review Report," Bullseye used 6,000 pounds of hazardous raw materials in 2009, which would have made it impossible for its emissions to even approach 10 tons. The company's totally in the clear as far government limiting its activities—children across the road notwithstanding."

So my questions are, how do Washington state's laws compare to limiting emissions compared to Oregon?

How does the state monitor small scale polluters compared to big ones?

Who are the main polluters in The Vancouver area?

Is there any thing else I should know or be clear on that I haven't asked about already?

Thanks for you time,

Dameon Pesanti

Dameon Pesanti

Staff writer at The Columbian

(360) 735-4541

@dameonoemad

To: Koerber, Mike[Koerber.Mike@epa.gov]; McClintock, Katie[McClintock.Katie@epa.gov]; Holsman, Marianne[Holsman.Marianne@epa.gov]
From: Bray, Dave
Sent: Thur 2/18/2016 9:50:36 PM
Subject: RE: Final Draft Portland Air Toxics Congressional Response 2 18 2016.docx

Ex. 5 - Deliberative Process

From: Koerber, Mike
Sent: Thursday, February 18, 2016 1:40 PM
To: McClintock, Katie <McClintock.Katie@epa.gov>; Holsman, Marianne <Holsman.Marianne@epa.gov>; Bray, Dave <Bray.Dave@epa.gov>
Subject: RE: Final Draft Portland Air Toxics Congressional Response 2 18 2016.docx

Ex. 5 - Deliberative Process

From: McClintock, Katie
Sent: Thursday, February 18, 2016 4:38 PM
To: Koerber, Mike <Koerber.Mike@epa.gov>; Holsman, Marianne <Holsman.Marianne@epa.gov>; Bray, Dave <Bray.Dave@epa.gov>
Subject: RE: Final Draft Portland Air Toxics Congressional Response 2 18 2016.docx

Ex. 5 - Deliberative Process

From: Koerber, Mike
Sent: Thursday, February 18, 2016 1:01 PM
To: Holsman, Marianne <Holsman.Marianne@epa.gov>; McClintock, Katie

<McClintock.Katie@epa.gov>; Bray, Dave <Bray.Dave@epa.gov>
Subject: RE: Final Draft Portland Air Toxics Congressional Response 2 18 2016.docx

Ex. 5 - Deliberative Process

From: McLerran, Dennis
Sent: Thursday, February 18, 2016 3:52 PM
To: McCabe, Janet <McCabe.Janet@epa.gov>
Cc: Bray, Dave <Bray.Dave@epa.gov>; Hastings, Janis <Hastings.Janis@epa.gov>; Distefano, Nichole <DiStefano.Nichole@epa.gov>; Niebling, William <Niebling.William@epa.gov>; Wayland, Richard <Wayland.Richard@epa.gov>; Koerber, Mike <Koerber.Mike@epa.gov>; Jordan, Deborah <Jordan.Deborah@epa.gov>; Stewart, Lori <Stewart.Lori@epa.gov>
Subject: Re: Final Draft Portland Air Toxics Congressional Response 2 18 2016.docx

Excellent edits. I concur.

Dennis

Sent from my EPA iPhone

On Feb 18, 2016, at 12:45 PM, McCabe, Janet <McCabe.Janet@epa.gov> wrote:

I made quite a few edits to this letter—if you don't like 'em, I won't be offended.

<Final Draft Portland Air Toxics Congressional Response 2 18 2016.docx>

To: McClintock, Katie[McClintock.Katie@epa.gov]
From: Bray, Dave
Sent: Thur 2/18/2016 6:14:18 PM
Subject: FW: Bullseye Glass - Region 10 contacts?

If you're available, it might be good to have a call with Jon.

From: Averback, Jonathan
Sent: Thursday, February 18, 2016 10:10 AM
To: Bray, Dave <Bray.Dave@epa.gov>; Rodman, Sonja <Rodman.Sonja@epa.gov>
Cc: Fairchild, Susan <Fairchild.Susan@epa.gov>; Throwe, Scott <Throwe.Scott@epa.gov>
Subject: RE: Bullseye Glass - Region 10 contacts?

Sorry Dave. I cut out for lunch shortly before your message and only got back about 1 minutes ago. Scott and Susan left me a voicemail saying there may need to be some followup discussion on applicability. I'm available today until 2 eastern, but want to keep 2-4 free. Is there time after 4 to get the folks I need to talk to together? In a pinch I can be available after 3 Eastern.

Jon Averback - Sr Attorney - EPA/OGC/ARLO - 202-564-1064

From: Bray, Dave
Sent: Thursday, February 18, 2016 12:28 PM
To: Averback, Jonathan <Averback.Jonathan@epa.gov>; Rodman, Sonja <Rodman.Sonja@epa.gov>
Subject: FW: Bullseye Glass - Region 10 contacts?

Hi Jon,

We're having a conference call right now on the NESHAP applicability question. Are you or Sonja available?

Dave

From: Doster, Brian
Sent: Thursday, February 18, 2016 8:43 AM
To: Vergeront, Julie <Vergeront.Julie@epa.gov>; Matthews, Julie <Matthews.Juliane@epa.gov>; Bray, Dave <Bray.Dave@epa.gov>
Cc: Thrift, Mike <thrift.mike@epa.gov>; Averback, Jonathan <Averback.Jonathan@epa.gov>; Rodman, Sonja <Rodman.Sonja@epa.gov>
Subject: RE: Bullseye Glass - Region 10 contacts?

Thanks Dave for your voicemail. Our main goal in reaching out was to let staff in Region 10 know who to contact in OGC if they needed help on particular issues. Secondarily, it is helpful for us to know who in Region 10 we can reach out to in case our management or clients in HQ were asking us about anything. We're happy to work through our ORC colleagues and it sounds like we have the right ones, so I'll just let Julie and Julie to know here that Jon and Sonja are the primary OGC resources on the NESHAP applicability. Mike and I are contacts on section 303 authority.

From: Doster, Brian
Sent: Thursday, February 18, 2016 10:53 AM
To: Julie Vergeront (Vergeront.Julie@epa.gov) <Vergeront.Julie@epa.gov>; Matthews, Julie <Matthews.Juliane@epa.gov>; Bray, Dave <Bray.Dave@epa.gov>
Cc: Thrift, Mike <thrift.mike@epa.gov>; Averback, Jonathan (Averback.Jonathan@epa.gov) <Averback.Jonathan@epa.gov>; Sonja Rodman (Rodman.Sonja@epa.gov) <Rodman.Sonja@epa.gov>
Subject: Bullseye Glass - Region 10 contacts?

Can any of you help us identify Region 10 staff involved in assessing the issues with emissions from the Bullseye art glass manufacturing facility in Portland? The OGC team copied here has been notified about this and are available to assist on questions related to NESHAP applicability and section 303 imminent and substantial endangerment authority.

To: McClintock, Katie[McClintock.Katie@epa.gov]
From: Bray, Dave
Sent: Thur 2/18/2016 6:21:24 AM
Subject: RE: Daily update - mostly quick summary about Spectrum Glass

Thanks Katie.

Dave

From: McClintock, Katie
Sent: Wednesday, February 17, 2016 9:51 PM
To: Downey, Scott; Leefers, Kristin; Bray, Dave; Narvaez, Madonna; Fairchild, Susan; Holsman, Marianne; Hastings, Janis; Froikin, Sara; Matthews, Julie; Franklin, Richard; Kowalski, Ed; Wroble, Julie; Hall, Chris; Moon, Wally; Fried, Gregory; McLerran, Dennis; Pirzadeh, Michelle; Smith, Judy; Koprowski, Paul; Hedgpeth, Zach; Fleming, Sheila; Field, Chris; Martenson, Eric; Ingemansen, Dean; Terada, Calvin; Barnett, Keith; Kaetzel, Rhonda; Wendel, Arthur; Koerber, Mike
Subject: Daily update - mostly quick summary about Spectrum Glass

Here is the update. It is mostly a quick summary of the inspection at Spectrum. Even quicker summary – they are huge and there is a large potential for emissions from this source, even with their existing controls.

Ex. 6 - Personal Privacy

To: McClintock, Katie[McClintock.Katie@epa.gov]
From: Bray, Dave
Sent: Wed 2/17/2016 1:47:52 AM
Subject: RE: OR MAOs - note i'll be in the office so i've reserved a room

Nope. Ended up with no time today to slip away.

Hopefully, we can catch up on things after the visit to Spectrum Glass tomorrow.

Dave

From: McClintock, Katie
Sent: Tuesday, February 16, 2016 7:49 AM
To: Bray, Dave <Bray.Dave@epa.gov>
Subject: RE: OR MAOs - note i'll be in the office so i've reserved a room

You had a lot of meetings today. Is there a better time for you to slip away?

-----Original Appointment-----
From: Bray, Dave
Sent: Tuesday, February 16, 2016 7:48 AM
To: McClintock, Katie
Subject: Tentative: OR MAOs - note i'll be in the office so i've reserved a room
When: Tuesday, February 16, 2016 2:00 PM-2:30 PM (UTC-08:00) Pacific Time (US & Canada).
Where: R10Sea-Room-10C-OCE/R10-Rooms-Restriced

This is during our Management Team meeting so I don't know if I can get free to attend.

Dave

To: McClintock, Katie[McClintock.Katie@epa.gov]
From: Bray, Dave
Sent: Thur 2/11/2016 3:51:13 PM
Subject: RE: EPA Bullseye Glass Inspection 2/10/16 - Brief download - Enforcement Confidential

No problem.

Ex. 5 - Deliberative Process

Dave

-----Original Message-----
From: McClintock, Katie
Sent: Thursday, February 11, 2016 7:32 AM
To: Bray, Dave <Bray.Dave@epa.gov>
Subject: RE: EPA Bullseye Glass Inspection 2/10/16 - Brief download - Enforcement Confidential

Shoot, I hadn't seen that email. I had tried to catch all the bullseye related ones. I hadn't thought that far into it. My goal was to look at data now and figured I could sort the rest out later. Thanks for bringing that too my attention.

Katie

-----Original Message-----
From: Bray, Dave
Sent: Thursday, February 11, 2016 12:07 AM
To: McClintock, Katie <McClintock.Katie@epa.gov>
Subject: RE: EPA Bullseye Glass Inspection 2/10/16 - Brief download - Enforcement Confidential

Thanks Katie.

I doubt that you've had a chance to read my emails to you about Subpart N.

Ex. 5 - Deliberative Process

Something I hope you can look into or already know the answer to from your enforcement experience.

Dave

From: McClintock, Katie
Sent: Wednesday, February 10, 2016 11:47 PM
To: Narvaez, Madonna; Koprowski, Paul; Wroble, Julie; Hedgpeth, Zach; Downey, Scott; Fairchild, Susan; Smith, Judy; Elleman, Robert; Bray, Dave; Dossett, Donald; Franklin, Richard; Dagseth, Renee; Moon, Wally; McArthur, Lisa; Leefers, Kristin; Skadowski, Suzanne; Schuster, Cindy
Cc: Kowalski, Ed; Hastings, Janis
Subject: EPA Bullseye Glass Inspection 2/10/16 - Brief download - Enforcement Confidential

Note: This email is being sent to all epa contacts I have for bullseye including upper management so let's not respond a ton to this list, but I wanted you to all have access to the inspection we did late this afternoon. Paul Koprowski, can you please forward to anyone I missed? We intended it to be announced but because of technical and other glitches, it was unannounced.

Bullseye Inspection Initial (brief-ish) Summary: Enforcement Confidential
Date: 2/10/16, Time 4:00 – 6:00 pm
Inspectors: Zach Hedgpeth (EPA), Katie McClintock (EPA), Greg Grunow (DEQ)

Quick overview of facility and inspection notes:

Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process

· I think Zach and I should go inspect Spectrum as soon as possible.

· I will look forward to an update on the batch records on Frirday. Oregon also has msds for some raw materials already and we should try to get those. I've emailed Greg tonight.

Katie McClintock
Air Enforcement Officer
EPA Region 10
1200 Sixth Avenue, Suite 900, OCE-101
Seattle, WA 98101
Phone: 206-553-2143
Fax: 206-553-4743
Mcclintock.katie@epa.gov

To: McClintock, Katie[McClintock.Katie@epa.gov]
From: Bray, Dave
Sent: Thur 2/11/2016 8:06:34 AM
Subject: RE: EPA Bullseye Glass Inspection 2/10/16 - Brief download - Enforcement Confidential

Thanks Katie.

I doubt that you've had a chance to read my emails to you about Subpart N.

Ex. 5 - Deliberative Process

Something I hope you can look into or already know the answer to from your enforcement experience.

Dave

From: McClintock, Katie
Sent: Wednesday, February 10, 2016 11:47 PM
To: Narvaez, Madonna; Koprowski, Paul; Wroble, Julie; Hedgpeth, Zach; Downey, Scott; Fairchild, Susan; Smith, Judy; Elleman, Robert; Bray, Dave; Dossett, Donald; Franklin, Richard; Dagseth, Renee; Moon, Wally; McArthur, Lisa; Leefers, Kristin; Skadowski, Suzanne; Schuster, Cindy
Cc: Kowalski, Ed; Hastings, Janis
Subject: EPA Bullseye Glass Inspection 2/10/16 - Brief download - Enforcement Confidential

Note: This email is being sent to all epa contacts I have for bullseye including upper management so let's not respond a ton to this list, but I wanted you to all have access to the inspection we did late this afternoon. Paul Koprowski, can you please forward to anyone I missed? We intended it to be announced but because of technical and other glitches, it was unannounced.

Bullseye Inspection Initial (brief-ish) Summary: Enforcement Confidential
Date: 2/10/16, Time 4:00 – 6:00 pm
Inspectors: Zach Hedgpeth (EPA), Katie McClintock (EPA), Greg Grunow (DEQ)

Quick overview of facility and inspection notes:

Ex. 5 - Deliberative Process

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· I think Zach and I should go inspect Spectrum as soon as possible.

· I will look forward to an update on the batch records on Frirday. Oregon also has msds for some raw materials already and we should try to get those. I've emailed Greg tonight.

Katie McClintock
Air Enforcement Officer
EPA Region 10
1200 Sixth Avenue, Suite 900, OCE-101
Seattle, WA 98101
Phone: 206-553-2143

Fax: 206-553-4743
Mcclintock.katie@epa.gov

To: McClintock, Katie[McClintock.Katie@epa.gov]
From: Bray, Dave
Sent: Thur 2/11/2016 7:12:24 AM
Subject: RE: USFS Study

Yep. Saw the emails and looked at the MSDS sheets. Also googled chromium refractory and learned all about the use of high chromium refratory materials in the mineral wool and fiberglass manufacturing processes.

Dave

From: McClintock, Katie
Sent: Wednesday, February 10, 2016 10:56 PM
To: Bray, Dave
Subject: RE: USFS Study

Oh no, well yesterday we were at the public meeting until 11 and then I worked until 12:15 and started again at 7:30. So I think I'm doing my part. Haha. Tempting to go to sleep now, but this stuff is easier to do when I am fresh and wont' be able to do from a car tomorrow.

Sneak peek - no chromium in refractory according to bullseye (getting records). But is in raw materials if you didn't see that email.

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Sent: Thur 2/11/2016 6:27:12 AM
Subject: RE: USFS Study

Hi Katie,

Did you mean to say "cadmium" and arsenic products? I don't recall Bullseye saying anything about suspending the use of chromium.

Dave

From: McClintock, Katie
Sent: Wednesday, February 10, 2016 10:24 PM
To: Narvaez, Madonna; Johnson, Steffan; Koprowski, Paul; Smith, Judy
Cc: Wroble, Julie; Bray, Dave; Hedgpeth, Zach; Weinstock, Lewis; Merrill, Raymond; Shappley, Ned
Subject: RE: USFS Study

Ex. 5 - Deliberative Process

Katie

From: Narvaez, Madonna
Sent: Wednesday, February 10, 2016 8:36 AM
To: Johnson, Steffan <johnson.steffan@epa.gov>; Koprowski, Paul <Koprowski.Paul@epa.gov>; Smith, Judy <Smith.Judy@epa.gov>
Cc: Wroble, Julie <Wroble.Julie@epa.gov>; Bray, Dave <Bray.Dave@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Hedgpeth, Zach <Hedgpeth.Zach@epa.gov>; Weinstock, Lewis <Weinstock.Lewis@epa.gov>; Merrill, Raymond <Merrill.Raymond@epa.gov>; Shappley, Ned <Shappley.Ned@epa.gov>
Subject: RE: USFS Study

Thanks, Steff. **Ex. 5 - Deliberative Process** We/ODEQ used the Xact monitor to collect cadmium emissions during additional monitoring at the Harriet Tubman School as part of the School Air Toxics Monitoring Initiative. The detection level was too high to detect cadmium. I'll need to see what has changed since 2011.

From: Johnson, Steffan
Sent: Wednesday, February 10, 2016 4:55 AM
To: Narvaez, Madonna <Narvaez.Madonna@epa.gov<mailto:Narvaez.Madonna@epa.gov>>; Koprowski, Paul <Koprowski.Paul@epa.gov<mailto:Koprowski.Paul@epa.gov>>; Smith, Judy <Smith.Judy@epa.gov<mailto:Smith.Judy@epa.gov>>
Cc: Wroble, Julie <Wroble.Julie@epa.gov<mailto:Wroble.Julie@epa.gov>>; Bray, Dave <Bray.Dave@epa.gov<mailto:Bray.Dave@epa.gov>>; McClintock, Katie <McClintock.Katie@epa.gov<mailto:McClintock.Katie@epa.gov>>; Hedgpeth, Zach <Hedgpeth.Zach@epa.gov<mailto:Hedgpeth.Zach@epa.gov>>; Weinstock, Lewis

<Weinstock.Lewis@epa.gov<mailto:Weinstock.Lewis@epa.gov>>; Merrill, Raymond <Merrill.Raymond@epa.gov<mailto:Merrill.Raymond@epa.gov>>; Shappley, Ned <Shappley.Ned@epa.gov<mailto:Shappley.Ned@epa.gov>>
Subject: RE: USFS Study

Madonna,

Thank you for reaching out to us.

First off, I need to ascertain that we are discussing stack emissions measurement, or if we are talking about ambient monitoring? I have copied Lew Weinstock who is our Ambient Air Monitoring Group Leader just in case the discussion is relevant to Reference ambient measurement methodology.

The Measurement Technology Group has a couple of different approaches for measurement of lead from stacks, as well as chromium. EPA Method 29 (multi-metals) is capable of measuring both lead and chromium, however it measures "total lead" and "total chrome" and will not provide a number for lead chromate as a species. If a hexavalent chromium number is needed from stack emissions, we turn to SW-846 0061, and this is the only technique we have to measure in-stack hex chrome emissions.

We are also aware of a technology, deployed to monitor fenceline lead emissions in the primary lead (smelters) rule, that works well for measurement of metals emissions. This is the XACT technology, manufactured by Cooper Environmental Services in, of all places, Portland, Or. http://cooperenvironmental.com/ambient-monitoring/ The measurement technology group has worked with this group to develop and publish a guide for developing a multi-metals fence-line monitoring plan for fugitive metals emissions, known to us as OTM 31, available here: http://www3.epa.gov/ttnemc01/prelim/otm31.pdf

So, if your need is to conduct in-stack emissions measurements, we have stack testing methodology we would recommend. If your need is for fenceline and fugitive emissions monitoring, we recommend the use of OTM 31 and Xact monitoring.

If the need is to establish an ambient network in surrounding neighborhood/area, I would hand you off to Lew and discuss ambient monitoring with his group.

With these things in mind, please consider the options I've laid out above and let us know if we can be of further assistance. We're happy to help you out wherever possible.

Stef

From: Narvaez, Madonna
Sent: Tuesday, February 09, 2016 7:17 PM
To: Koprowski, Paul <Koprowski.Paul@epa.gov<mailto:Koprowski.Paul@epa.gov>>; Smith, Judy <Smith.Judy@epa.gov<mailto:Smith.Judy@epa.gov>>
Cc: Wroble, Julie <Wroble.Julie@epa.gov<mailto:Wroble.Julie@epa.gov>>; Bray, Dave <Bray.Dave@epa.gov<mailto:Bray.Dave@epa.gov>>; Johnson, Steffan <johnson.steffan@epa.gov<mailto:johnson.steffan@epa.gov>>; McClintock, Katie <McClintock.Katie@epa.gov<mailto:McClintock.Katie@epa.gov>>; Hedgpeth, Zach <Hedgpeth.Zach@epa.gov<mailto:Hedgpeth.Zach@epa.gov>>
Subject: RE: USFS Study
Importance: High

Paul, Steffan Johnson's group in OAQPS worked on methods to speciate chromium for the wool fiberglass rule.
Stef, who could we talk to find out about methods to measure lead chromate? Thanks!

From: Koprowski, Paul
Sent: Tuesday, February 09, 2016 4:00 PM
To: Smith, Judy <Smith.Judy@epa.gov<mailto:Smith.Judy@epa.gov>>
Cc: Wroble, Julie <Wroble.Julie@epa.gov<mailto:Wroble.Julie@epa.gov>>; Narvaez, Madonna <Narvaez.Madonna@epa.gov<mailto:Narvaez.Madonna@epa.gov>>; Bray, Dave <Bray.Dave@epa.gov<mailto:Bray.Dave@epa.gov>>
Subject: USFS Study

I talked to Sarah and she said she can't share the study with us because that's up to the FS to decide. So I called the contact she gave me and left a message. Will work on getting it from them as soon as I get a call back.

Also, the monitoring was for only 1 month. It was pulled out after a month so there is no other data than that one month. They have deployed 3 monitors and are seeking our assistance on how to monitor for lead chromate. They now how to do the chrome and are evaluating the cost and the nickel will turn up in the PM samplers.

Paul

Paul Koprowski
U.S. EPA; Oregon Operations Office
805 SW Broadway, Suite 500
Portland, Oregon 97205
(503) 326-6363

To: Narvaez, Madonna[Narvaez.Madonna@epa.gov]; Koprowski, Paul[Koprowski.Paul@epa.gov]; McClintock, Katie[McClintock.Katie@epa.gov]
From: Bray, Dave
Sent: Thur 2/11/2016 1:11:30 AM
Subject: RE: Updated desk statement - please review

Ask DEQ or ask our enforcement folks to determine if they are in violation of the applicable NESHAP limit for units that might have been modified in the past?

This type of determination is the bread and butter of the enforcement side of our shop.

Dave

From: Narvaez, Madonna
Sent: Wednesday, February 10, 2016 5:06 PM
To: Bray, Dave; Koprowski, Paul; McClintock, Katie
Subject: RE: Updated desk statement - please review

We should ask DEQ about that.

-----Original Message-----
From: Bray, Dave
Sent: Wednesday, February 10, 2016 4:54 PM
To: Narvaez, Madonna <Narvaez.Madonna@epa.gov>; Koprowski, Paul <Koprowski.Paul@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>
Subject: RE: Updated desk statement - please review

Ex. 5 - Deliberative Process

Dave

From: Narvaez, Madonna
Sent: Wednesday, February 10, 2016 4:41 PM
To: Bray, Dave; Koprowski, Paul; McClintock, Katie
Subject: RE: Updated desk statement - please review

Ex. 5 - Deliberative Process

-----Original Message-----
From: Bray, Dave
Sent: Wednesday, February 10, 2016 3:42 PM

To: Koprowski, Paul <Koprowski.Paul@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>
Subject: RE: Updated desk statement - please review

Hi guys,

Ex. 5 - Deliberative Process

The 2011 Review Report described the facility as follows:

Existing air contaminant sources at the facility consist of the following:
a. A Torit baghouse collects PM emissions from the silos that feed into the batch room, installed 2000. Collected material is reused in the process.
b. 14 tank furnaces (1-9 and 11-15), natural gas fired with propane back-up; cumulative operating capacity of885lb/hr and 2,700 ton/yr, 16,625 ft3/hr.
c. 2 pot furnaces (10 & 17), natural gas fired with propane back-up; cumulative operating capacity of35lb/hr and 100 ton!yr, 475 ft3/hr d. New capacity is expected from the installation of new furnaces (18-20) or expanding the existing capacity of existing equipment. Anticipated cumulative capacity is 115 lb/hr and 350 ton/yr. This equipment will also be fired on natural gas with propane back-up and combust 3,800 ft3/hr.
e. Total fuel usage is estimated at 171 million ft3 /yr.

And also notes:

In 2006, the process was changed to allow the infusion of liquid oxygen into the furnaces during the melting process in lieu of ambient air. This change in process lowered NOx emissions by roughly 40% for each retrofitted furnace. The change is made to the various furnaces during scheduled downtime (once every two years).

Dve

From: Koprowski, Paul
Sent: Wednesday, February 10, 2016 1:12 PM
To: Smith, Judy; Holsman, Marianne; Bray, Dave
Subject: RE: Updated desk statement - please review

A couple of suggestions below(highlighted.

Paul

Paul Koprowski
U.S. EPA; Oregon Operations Office
805 SW Broadway, Suite 500
Portland, Oregon 97205
(503) 326-6363

From: Smith, Judy

Sent: Wednesday, February 10, 2016 12:02 PM
To: Koprowski, Paul <Koprowski.Paul@epa.gov>; Holsman, Marianne <Holsman.Marianne@epa.gov>; Bray, Dave <Bray.Dave@epa.gov>
Subject: Updated desk statement - please review
Importance: High

In this version I significantly modified the "what is EPAs role" section. It needs vetting by the three of you. Dave - Marianne checked with Ed Kowalski regarding the inspection statement, but I speculated on the enforcement statement at the end of the sentence. - Judy

Desk Statement: SE Portland Metals Contamination

February 10, 2016

Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process

To: Narvaez, Madonna[Narvaez.Madonna@epa.gov]; Koprowski, Paul[Koprowski.Paul@epa.gov]; McClintock, Katie[McClintock.Katie@epa.gov]
From: Bray, Dave
Sent: Thur 2/11/2016 12:53:45 AM
Subject: RE: Updated desk statement - please review

Ex. 5 - Deliberative Process

Dave

From: Narvaez, Madonna
Sent: Wednesday, February 10, 2016 4:41 PM
To: Bray, Dave; Koprowski, Paul; McClintock, Katie
Subject: RE: Updated desk statement - please review

Ex. 5 - Deliberative Process

-----Original Message-----
From: Bray, Dave
Sent: Wednesday, February 10, 2016 3:42 PM
To: Koprowski, Paul <Koprowski.Paul@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>
Subject: RE: Updated desk statement - please review

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Ex. 5 - Deliberative Process

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And also notes:

In 2006, the process was changed to allow the infusion of liquid oxygen into the furnaces during the melting process in lieu of ambient air. This change in process lowered NOx emissions by roughly 40% for each retrofitted furnace. The change is made to the various furnaces during scheduled downtime (once every two years).

Dve

From: Koprowski, Paul
Sent: Wednesday, February 10, 2016 1:12 PM
To: Smith, Judy; Holsman, Marianne; Bray, Dave
Subject: RE: Updated desk statement - please review

A couple of suggestions below(highlighted.

Paul

Paul Koprowski
U.S. EPA; Oregon Operations Office
805 SW Broadway, Suite 500
Portland, Oregon 97205
(503) 326-6363

From: Smith, Judy
Sent: Wednesday, February 10, 2016 12:02 PM
To: Koprowski, Paul <Koprowski.Paul@epa.gov>; Holsman, Marianne <Holsman.Marianne@epa.gov>; Bray, Dave <Bray.Dave@epa.gov>
Subject: Updated desk statement - please review
Importance: High

In this version I significantly modified the "what is EPAs role" section. It needs vetting by the three of you. Dave - Marianne checked with Ed Kowalski regarding the inspection statement, but I speculated on the enforcement statement at the end of the sentence. - Judy

Desk Statement: SE Portland Metals Contamination

February 10, 2016

Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process

To: Wroble, Julie[Wroble.Julie@epa.gov]; Narvaez, Madonna[Narvaez.Madonna@epa.gov]; McClintock, Katie[McClintock.Katie@epa.gov]; Koprowski, Paul[Koprowski.Paul@epa.gov]; Hedgpeth, Zach[Hedgpeth.Zach@epa.gov]
From: Bray, Dave
Sent: Wed 2/10/2016 11:47:22 PM
Subject: RE: Request for MSDS Copies

It definitely means we need to ask them what metals they are/have been using in their furnaces.

Dave

From: Wroble, Julie
Sent: Wednesday, February 10, 2016 3:25 PM
To: Bray, Dave; Narvaez, Madonna; McClintock, Katie; Koprowski, Paul; Hedgpeth, Zach
Subject: RE: Request for MSDS Copies

This may be new information. Thanks Dave!

-----Original Message-----
From: Bray, Dave
Sent: Wednesday, February 10, 2016 3:10 PM
To: Narvaez, Madonna <Narvaez.Madonna@epa.gov>; Wroble, Julie <Wroble.Julie@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Koprowski, Paul <Koprowski.Paul@epa.gov>; Hedgpeth, Zach <Hedgpeth.Zach@epa.gov>
Subject: RE: Request for MSDS Copies

I was just reviewing their ACDP to see if the Part 61 NESHAP was specifically addressed in it and noticed that it says that Bullseye does us chromium as a coloring agent. So in addition to any chromium that might or might not be in the refractory, they are could also be using chromium in the process.

Dave

From: Narvaez, Madonna
Sent: Wednesday, February 10, 2016 12:51 PM
To: Bray, Dave; Wroble, Julie; McClintock, Katie; Koprowski, Paul; Hedgpeth, Zach
Subject: RE: Request for MSDS Copies

These aren't raw materials. They are liners.

-----Original Message-----
From: Bray, Dave
Sent: Wednesday, February 10, 2016 11:55 AM
To: Wroble, Julie <Wroble.Julie@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Koprowski, Paul <Koprowski.Paul@epa.gov>; Hedgpeth, Zach <Hedgpeth.Zach@epa.gov>
Subject: RE: Request for MSDS Copies

The chromium comes from the refractory material used to line the furnaces. It's not a raw material used in the formulation of the art glass.

Lead is used in the manufacturing of the glass so lead chromate could be a compound that is emitted.

Dave

From: Wroble, Julie
Sent: Wednesday, February 10, 2016 11:41 AM

To: Narvaez, Madonna; McClintock, Katie; Koprowski, Paul; Bray, Dave; Hedgpeth, Zach
Subject: RE: Request for MSDS Copies

Then where is the chromium coming from?
Levels were pretty high. Are there other potential sources in the area?

From: Narvaez, Madonna
Sent: Wednesday, February 10, 2016 11:40 AM
To: McClintock, Katie <McClintock.Katie@epa.gov>; Wroble, Julie <Wroble.Julie@epa.gov>; Koprowski, Paul <Koprowski.Paul@epa.gov>; Bray, Dave <Bray.Dave@epa.gov>
Subject: FW: Request for MSDS Copies
Importance: High

So maybe we don't need to look at lead chromate?

From: GRUNOW Greg [mailto:GRUNOW.Greg@deq.state.or.us]
Sent: Wednesday, February 10, 2016 11:01 AM
To: Narvaez, Madonna <Narvaez.Madonna@epa.gov<mailto:Narvaez.Madonna@epa.gov>>
Subject: FW: Request for MSDS Copies

Hi Madonna,

Bullseye got back to me on their refractory materials and it appears they do not contain chromium.

Greg Grunow
Natural Resource Specialist
ODEQ Northwest Region
503-229-5690
grunow.greg@deq.state.or.us<mailto:grunow.greg@deq.state.or.us>

From: Eric Durrin [mailto:ericdurrin@bullseyeglass.com]
Sent: Tuesday, February 09, 2016 5:55 PM
To: GRUNOW Greg
Cc: Max Miller
Subject: RE: Request for MSDS Copies

Hello,

I checked with our maintenance department. We currently use two materials for our tank liners: Monofrax CS-3, and VC40-Chamotte. Chromium is not shown on the material specification documents for these building materials.

Regards,

Eric Durrin | Bullseye Glass Co. | 503-232-8887x103

To: Koprowski, Paul[Koprowski.Paul@epa.gov]; McClintock, Katie[McClintock.Katie@epa.gov]; Narvaez, Madonna[Narvaez.Madonna@epa.gov]
From: Bray, Dave
Sent: Wed 2/10/2016 11:42:03 PM
Subject: RE: Updated desk statement - please review

Hi guys,

Ex. 5 - Deliberative Process

The 2011 Review Report described the facility as follows:

Existing air contaminant sources at the facility consist of the following:
a. A Torit baghouse collects PM emissions from the silos that feed into the batch room, installed 2000. Collected material is reused in the process.
b. 14 tank furnaces (1-9 and 11-15), natural gas fired with propane back-up; cumulative operating capacity of885lb/hr and 2,700 ton/yr, 16,625 ft3/hr.
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Dve

From: Koprowski, Paul
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Subject: RE: Updated desk statement - please review

A couple of suggestions below(highlighted.

Paul

Paul Koprowski
U.S. EPA; Oregon Operations Office
805 SW Broadway, Suite 500
Portland, Oregon 97205

(503) 326-6363

From: Smith, Judy
Sent: Wednesday, February 10, 2016 12:02 PM
To: Koprowski, Paul <Koprowski.Paul@epa.gov>; Holsman, Marianne <Holsman.Marianne@epa.gov>; Bray, Dave <Bray.Dave@epa.gov>
Subject: Updated desk statement - please review
Importance: High

In this version I significantly modified the "what is EPAs role" section. It needs vetting by the three of you. Dave - Marianne checked with Ed Kowalski regarding the inspection statement, but I speculated on the enforcement statement at the end of the sentence. - Judy

Desk Statement: SE Portland Metals Contamination

February 10, 2016

Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process

To: Narvaez, Madonna[Narvaez.Madonna@epa.gov]; Wroble, Julie[Wroble.Julie@epa.gov]; McClintock, Katie[McClintock.Katie@epa.gov]; Koprowski, Paul[Koprowski.Paul@epa.gov]; Hedgpeth, Zach[Hedgpeth.Zach@epa.gov]
From: Bray, Dave
Sent: Wed 2/10/2016 11:10:00 PM
Subject: RE: Request for MSDS Copies

I was just reviewing their ACDP to see if the Part 61 NESHAP was specifically addressed in it and noticed that it says that Bullseye does us chromium as a coloring agent. So in addition to any chromium that might or might not be in the refractory, they are could also be using chromium in the process.

Dave

From: Narvaez, Madonna
Sent: Wednesday, February 10, 2016 12:51 PM
To: Bray, Dave; Wroble, Julie; McClintock, Katie; Koprowski, Paul; Hedgpeth, Zach
Subject: RE: Request for MSDS Copies

These aren't raw materials. They are liners.

-----Original Message-----
From: Bray, Dave
Sent: Wednesday, February 10, 2016 11:55 AM
To: Wroble, Julie <Wroble.Julie@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Koprowski, Paul <Koprowski.Paul@epa.gov>; Hedgpeth, Zach <Hedgpeth.Zach@epa.gov>
Subject: RE: Request for MSDS Copies

The chromium comes from the refractory material used to line the furnaces. It's not a raw material used in the formulation of the art glass.

Lead is used in the manufacturing of the glass so lead chromate could be a compound that is emitted.

Dave

From: Wroble, Julie
Sent: Wednesday, February 10, 2016 11:41 AM
To: Narvaez, Madonna; McClintock, Katie; Koprowski, Paul; Bray, Dave; Hedgpeth, Zach
Subject: RE: Request for MSDS Copies

Then where is the chromium coming from?
Levels were pretty high. Are there other potential sources in the area?

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Sent: Wednesday, February 10, 2016 11:40 AM
To: McClintock, Katie <McClintock.Katie@epa.gov>; Wroble, Julie <Wroble.Julie@epa.gov>; Koprowski, Paul <Koprowski.Paul@epa.gov>; Bray, Dave <Bray.Dave@epa.gov>
Subject: FW: Request for MSDS Copies
Importance: High

So maybe we don't need to look at lead chromate?

From: GRUNOW Greg [mailto:GRUNOW.Greg@deq.state.or.us]
Sent: Wednesday, February 10, 2016 11:01 AM
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grunow.greg@deq.state.or.us<mailto:grunow.greg@deq.state.or.us>

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Hello,

I checked with our maintenance department. We currently use two materials for our tank liners: Monofrax CS-3, and VC40-Chamotte. Chromium is not shown on the material specification documents for these building materials.

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To: Narvaez, Madonna[Narvaez.Madonna@epa.gov]; Wroble, Julie[Wroble.Julie@epa.gov]; McClintock, Katie[McClintock.Katie@epa.gov]; Koprowski, Paul[Koprowski.Paul@epa.gov]; Hedgpeth, Zach[Hedgpeth.Zach@epa.gov]
From: Bray, Dave
Sent: Wed 2/10/2016 9:13:20 PM
Subject: RE: Request for MSDS Copies

Understood.

If there is chromium in the liners, then it would be in small amounts according to the liner manufacturers' MSDS sheets. A quick search for chromium refractory materials turned up refractories with high chromium content (e.g., 15 to 80% chromium oxide) that are used in melters for fiberglass and mineral wool production, which sounds like the situation that was mentioned during the call with Janet today.

If there isn't any chromium in the liners and chromium isn't used as a coloring agent in the glass, then it sounds like we need to look for another local source of chromium, such as a chrome electroplating facility.

Dave

From: Narvaez, Madonna
Sent: Wednesday, February 10, 2016 12:51 PM
To: Bray, Dave; Wroble, Julie; McClintock, Katie; Koprowski, Paul; Hedgpeth, Zach
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Hello,

I checked with our maintenance department. We currently use two materials for our tank liners: Monofrax CS-3, and VC40-Chamotte. Chromium is not shown on the material specification documents for these building materials.

Regards,

Eric Durrin | Bullseye Glass Co. | 503-232-8887x103

To: Wroble, Julie[Wroble.Julie@epa.gov]; Narvaez, Madonna[Narvaez.Madonna@epa.gov]; McClintock, Katie[McClintock.Katie@epa.gov]; Koprowski, Paul[Koprowski.Paul@epa.gov]; Hedgpeth, Zach[Hedgpeth.Zach@epa.gov]
From: Bray, Dave
Sent: Wed 2/10/2016 8:16:02 PM
Subject: RE: Request for MSDS Copies

The MSDS sheets don't say that there is no chromium, only that any chromium, if there, would be 1% or less of the total by weight.

When Katie says that high temperature glass furnaces use a refractory with chromium, she didn't say how much chromium was in these type of refractories.

Sounds like some more research is needed here.

Dave

From: Wroble, Julie
Sent: Wednesday, February 10, 2016 12:03 PM
To: Bray, Dave; Narvaez, Madonna; McClintock, Katie; Koprowski, Paul; Hedgpeth, Zach
Subject: RE: Request for MSDS Copies

But see below where Bullseye says they don't have chromium in their refractory. If it's not coming from that, is it coming from something else?

-----Original Message-----
From: Bray, Dave
Sent: Wednesday, February 10, 2016 11:55 AM
To: Wroble, Julie <Wroble.Julie@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Koprowski, Paul <Koprowski.Paul@epa.gov>; Hedgpeth, Zach <Hedgpeth.Zach@epa.gov>
Subject: RE: Request for MSDS Copies

The chromium comes from the refractory material used to line the furnaces. It's not a raw material used in the formulation of the art glass.

Lead is used in the manufacturing of the glass so lead chromate could be a compound that is emitted.

Dave

From: Wroble, Julie
Sent: Wednesday, February 10, 2016 11:41 AM
To: Narvaez, Madonna; McClintock, Katie; Koprowski, Paul; Bray, Dave; Hedgpeth, Zach
Subject: RE: Request for MSDS Copies

Then where is the chromium coming from?
Levels were pretty high. Are there other potential sources in the area?

From: Narvaez, Madonna
Sent: Wednesday, February 10, 2016 11:40 AM
To: McClintock, Katie <McClintock.Katie@epa.gov>; Wroble, Julie <Wroble.Julie@epa.gov>; Koprowski, Paul <Koprowski.Paul@epa.gov>; Bray, Dave <Bray.Dave@epa.gov>
Subject: FW: Request for MSDS Copies
Importance: High

So maybe we don't need to look at lead chromate?

From: GRUNOW Greg [mailto:GRUNOW.Greg@deq.state.or.us]
Sent: Wednesday, February 10, 2016 11:01 AM
To: Narvaez, Madonna <Narvaez.Madonna@epa.gov<mailto:Narvaez.Madonna@epa.gov>>
Subject: FW: Request for MSDS Copies

Hi Madonna,

Bullseye got back to me on their refractory materials and it appears they do not contain chromium.

Greg Grunow
Natural Resource Specialist
ODEQ Northwest Region
503-229-5690
grunow.greg@deq.state.or.us<mailto:grunow.greg@deq.state.or.us>

From: Eric Durrin [mailto:ericdurrin@bullseyeglass.com]
Sent: Tuesday, February 09, 2016 5:55 PM
To: GRUNOW Greg
Cc: Max Miller
Subject: RE: Request for MSDS Copies

Hello,

I checked with our maintenance department. We currently use two materials for our tank liners: Monofrax CS-3, and VC40-Chamotte. Chromium is not shown on the material specification documents for these building materials.

Regards,

Eric Durrin | Bullseye Glass Co. | 503-232-8887x103

To: Wroble, Julie[Wroble.Julie@epa.gov]; Narvaez, Madonna[Narvaez.Madonna@epa.gov]; McClintock, Katie[McClintock.Katie@epa.gov]; Koprowski, Paul[Koprowski.Paul@epa.gov]; Hedgpeth, Zach[Hedgpeth.Zach@epa.gov]
From: Bray, Dave
Sent: Wed 2/10/2016 7:55:10 PM
Subject: RE: Request for MSDS Copies

The chromium comes from the refractory material used to line the furnaces. It's not a raw material used in the formulation of the art glass.

Lead is used in the manufacturing of the glass so lead chromate could be a compound that is emitted.

Dave

From: Wroble, Julie
Sent: Wednesday, February 10, 2016 11:41 AM
To: Narvaez, Madonna; McClintock, Katie; Koprowski, Paul; Bray, Dave; Hedgpeth, Zach
Subject: RE: Request for MSDS Copies

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Levels were pretty high. Are there other potential sources in the area?

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Sent: Wednesday, February 10, 2016 11:40 AM
To: McClintock, Katie <McClintock.Katie@epa.gov>; Wroble, Julie <Wroble.Julie@epa.gov>; Koprowski, Paul <Koprowski.Paul@epa.gov>; Bray, Dave <Bray.Dave@epa.gov>
Subject: FW: Request for MSDS Copies
Importance: High

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From: GRUNOW Greg [mailto:GRUNOW.Greg@deq.state.or.us]
Sent: Wednesday, February 10, 2016 11:01 AM
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ODEQ Northwest Region
503-229-5690
grunow.greg@deq.state.or.us<mailto:grunow.greg@deq.state.or.us>

From: Eric Durrin [mailto:ericdurrin@bullseyeglass.com]
Sent: Tuesday, February 09, 2016 5:55 PM
To: GRUNOW Greg
Cc: Max Miller
Subject: RE: Request for MSDS Copies

Hello,

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building materials.

Regards,

Eric Durrin | Bullseye Glass Co. | 503-232-8887x103

To: Smith, Judy[Smith.Judy@epa.gov]; Koprowski, Paul[Koprowski.Paul@epa.gov]; Narvaez, Madonna[Narvaez.Madonna@epa.gov]; Downey, Scott[Downey.Scott@epa.gov]; McClintock, Katie[McClintock.Katie@epa.gov]; Hastings, Janis[Hastings.Janis@epa.gov]
Cc: Dunbar, Bill[dunbar.bill@epa.gov]; MacIntyre, Mark[Macintyre.Mark@epa.gov]; Holsman, Marianne[Holsman.Marianne@epa.gov]; Philip, Jeff[Philip.Jeff@epa.gov]; Skadowski, Suzanne[Skadowski.Suzanne@epa.gov]
From: Bray, Dave
Sent: Tue 2/9/2016 7:08:14 PM
Subject: RE: Desk Statement: SE Portland - Metals Contamination from Bullseye Glass

Hi Judy,

This is looking pretty good but one change is needed to the last item – see my edit below. The USFS study was looking at a slate of metals that could be bioaccumulated by mosses, not just arsenic and cadmium.

Dave

From: Smith, Judy
Sent: Tuesday, February 09, 2016 10:32 AM
To: Koprowski, Paul <Koprowski.Paul@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; Downey, Scott <Downey.Scott@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Hastings, Janis <Hastings.Janis@epa.gov>; Bray, Dave <Bray.Dave@epa.gov>
Cc: Dunbar, Bill <dunbar.bill@epa.gov>; MacIntyre, Mark <Macintyre.Mark@epa.gov>; Holsman, Marianne <Holsman.Marianne@epa.gov>; Philip, Jeff <Philip.Jeff@epa.gov>; Skadowski, Suzanne <Skadowski.Suzanne@epa.gov>
Subject: FW: Desk Statement: SE Portland - Metals Contamination from Bullseye Glass

FYI – The desk statement has been churning its way through some additional review. Here is the current version. Please let me know of any actions or information that needs to be added as we move forward. Judy

From: Smith, Judy
Sent: Tuesday, February 09, 2016 10:19 AM
To: Lubetsky, Jonathan <Lubetsky.Jonathan@epa.gov>; Niebling, William <Niebling.William@epa.gov>; Schuster, Cindy <Schuster.Cindy@epa.gov>; Haman, Patricia <Haman.Patricia@epa.gov>; Distefano, Nichole <DiStefano.Nichole@epa.gov>
Cc: Davis, Matthew <Davis.Matthew@epa.gov>; Terry, Sara <Terry.Sara@epa.gov>; Holsman, Marianne <Holsman.Marianne@epa.gov>; Philip, Jeff <philip.jeff@epa.gov>

Subject: RE: Desk Statement: SE Portland - Metals Contamination from Bullseye Glass

Here is a clean version of the revised desk statement incorporating comments received. I included purple highlighted commentary in the marked up version down at the bottom of this chain to explain how changes were incorporated.

Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process

Desk Statement: SE Portland Metals Contamination

Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process

From: Lubetsky, Jonathan
Sent: Tuesday, February 09, 2016 9:59 AM
To: Niebling, William <Niebling.William@epa.gov>; Schuster, Cindy <Schuster.Cindy@epa.gov>; Haman, Patricia <Haman.Patricia@epa.gov>; Distefano, Nichole

<DiStefano.Nichole@epa.gov>
Cc: Davis, Matthew <Davis.Matthew@epa.gov>; Terry, Sara <Terry.Sara@epa.gov>; Holsman, Marianne <Holsman.Marianne@epa.gov>; Smith, Judy <Smith.Judy@epa.gov>
Subject: RE: Desk Statement: SE Portland - Metals Contamination from Bullseye Glass

I just confirmed with Janet that she is OK with sending the responses with edits addressing her comments.

From: Niebling, William
Sent: Tuesday, February 09, 2016 12:16 PM
To: Schuster, Cindy <Schuster.Cindy@epa.gov>; Haman, Patricia <Haman.Patricia@epa.gov>; Distefano, Nichole <DiStefano.Nichole@epa.gov>
Cc: Davis, Matthew <Davis.Matthew@epa.gov>; Terry, Sara <Terry.Sara@epa.gov>; Lubetsky, Jonathan <Lubetsky.Jonathan@epa.gov>; Holsman, Marianne <Holsman.Marianne@epa.gov>; Smith, Judy <Smith.Judy@epa.gov>
Subject: RE: Desk Statement: SE Portland - Metals Contamination from Bullseye Glass

Thanks. I'm confirming w/ Janet on whether she was concerned about sharing them or not.

From: Schuster, Cindy
Sent: Tuesday, February 09, 2016 12:12 PM
To: Niebling, William <Niebling.William@epa.gov>; Haman, Patricia <Haman.Patricia@epa.gov>; Distefano, Nichole <DiStefano.Nichole@epa.gov>
Cc: Davis, Matthew <Davis.Matthew@epa.gov>; Terry, Sara <Terry.Sara@epa.gov>; Lubetsky, Jonathan <Lubetsky.Jonathan@epa.gov>; Holsman, Marianne <Holsman.Marianne@epa.gov>; Smith, Judy <Smith.Judy@epa.gov>; Schuster, Cindy <Schuster.Cindy@epa.gov>
Subject: RE: Desk Statement: SE Portland - Metals Contamination from Bullseye Glass

The questions, except for the addition, are from Blumenauer's office, so yes, we would send them. I'm adding Judy Smith, our drafter, for other response.--Cindy

From: Niebling, William
Sent: Tuesday, February 09, 2016 8:41 AM
To: Haman, Patricia <Haman.Patricia@epa.gov>; Schuster, Cindy <Schuster.Cindy@epa.gov>; Distefano, Nichole <DiStefano.Nichole@epa.gov>
Cc: Davis, Matthew <Davis.Matthew@epa.gov>; Terry, Sara <Terry.Sara@epa.gov>; Lubetsky, Jonathan <Lubetsky.Jonathan@epa.gov>

Subject: RE: Desk Statement: SE Portland - Metals Contamination from Bullseye Glass

Janet made similar comments - listed here and in green below:

Ex. 5 - Deliberative Process

Adding a couple of OAR folks in case there is follow up from our end.

-Wm.

From: Haman, Patricia
Sent: Tuesday, February 09, 2016 11:28 AM
To: Schuster, Cindy <Schuster.Cindy@epa.gov>; Distefano, Nichole <DiStefano.Nichole@epa.gov>
Cc: Davis, Matthew <Davis.Matthew@epa.gov>; Niebling, William <Niebling.William@epa.gov>
Subject: RE: Desk Statement: SE Portland - Metals Contamination from Bullseye Glass

From Matt and Pat:

Ex. 5 - Deliberative Process

Patricia Haman

Office of Congressional Affairs

U.S. EPA

202-564-2806

From: Schuster, Cindy
Sent: Tuesday, February 09, 2016 10:44 AM
To: Distefano, Nichole <DiStefano.Nichole@epa.gov>
Cc: Haman, Patricia <Haman.Patricia@epa.gov>; Davis, Matthew <Davis.Matthew@epa.gov>; Niebling, William <Niebling.William@epa.gov>; Schuster, Cindy <Schuster.Cindy@epa.gov>
Subject: RE: Desk Statement: SE Portland - Metals Contamination from Bullseye Glass

Nichole,

William Niebling and others from OAR were on the chain that got the earlier version of the desk statement. Five were on the call yesterday on which we concluded to send the desk statement after making an addition, highlighted in yellow below, and checking with you.

Cindy

From: Distefano, Nichole
Sent: Tuesday, February 09, 2016 7:28 AM
To: Schuster, Cindy <Schuster.Cindy@epa.gov>
Cc: Haman, Patricia <Haman.Patricia@epa.gov>; Davis, Matthew <Davis.Matthew@epa.gov>
Subject: RE: Desk Statement: SE Portland - Metals Contamination from Bullseye Glass

Cindy –

I have not been in the details of this – but Matt and Pat have been so they are in a better position to opine on content. Has OAR reviewed?

Nichole Distefano

Associate Administrator

Office of Congressional and Intergovernmental Relations

Environmental Protection Agency

(202) 564-5200

Distefano.Nichole@epa.gov

From: Schuster, Cindy
Sent: Tuesday, February 09, 2016 10:17 AM
To: Distefano, Nichole <DiStefano.Nichole@epa.gov>
Cc: Haman, Patricia <Haman.Patricia@epa.gov>; Davis, Matthew <Davis.Matthew@epa.gov>; Schuster, Cindy <Schuster.Cindy@epa.gov>
Subject: FW: Desk Statement: SE Portland - Metals Contamination from Bullseye Glass

Nichole, do you see any changes needed before I send this to Blumenauer's staff?

Cindy Colgate Schuster

Congressional Liaison

International Coordinator

U.S. EPA Region 10

Seattle, WA

206-553-1815

From: Smith, Judy
Sent: Tuesday, February 09, 2016 7:05 AM
To: Schuster, Cindy <Schuster.Cindy@epa.gov>
Cc: Dunbar, Bill <dunbar.bill@epa.gov>; Holsman, Marianne <Holsman.Marianne@epa.gov>; Haman, Patricia <Haman.Patricia@epa.gov>; Hastings, Janis <Hastings.Janis@epa.gov>; Bray, Dave <Bray.Dave@epa.gov>; Barber, Anthony <Barber.Anthony@epa.gov>; Philip, Jeff <Philip.Jeff@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; Downey, Scott <Downey.Scott@epa.gov>
Subject: Desk Statement: SE Portland - Metals Contamination from Bullseye Glass

Here is the updated desk statement. Please forward or let me know who it needs to review this at HQ. Judy

Desk Statement: SE Portland - Metals Contamination from Bullseye Glass

Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process

To: McClintock, Katie[McClintock.Katie@epa.gov]
From: Bray, Dave
Sent: Fri 2/5/2016 11:16:13 PM
Subject: RE: Bullseye Call today - action items

Got it.

Thanks.

Dave

From: McClintock, Katie
Sent: Friday, February 5, 2016 2:21 PM
To: Bray, Dave
Subject: RE: Bullseye Call today - action items

Yep, I had already started the email instead of putting on list. Just sent it out.

-----Original Message-----
From: Bray, Dave
Sent: Friday, February 05, 2016 2:15 PM
To: McClintock, Katie <McClintock.Katie@epa.gov>
Subject: RE: Bullseye Call today - action items

Your list doesn't include your action item -- to send a couple of us the Excel spreadsheets with the ambient data that has been analyzed so far.

Dave

From: McClintock, Katie
Sent: Friday, February 5, 2016 1:59 PM
To: Bray, Dave; Narvaez, Madonna; Elleman, Robert; Koprowski, Paul; Downey, Scott; Dossett, Donald; Hedgpeth, Zach; Wroble, Julie; Franklin, Richard; Dagseth, Renee; Leefers, Kristin; Fairchild, Susan
Cc: Islam, Mahbubul
Subject: Bullseye Call today - action items

Based on the call today, here are our action items:

1. Madonna will ask OR (maybe work with Paul Koprowski) if they did the work and what samples they ran.
a. Did they run speciated metals?
b. If not, did they save the filter and can they run lead chromate and hex chromium, speciated nickle
2. Include oaqps press on communications - Jan cortelyou
3. Madonna will ask greg grunow about metals used data per metal – should be reporting into tri
4. Susan Fairchild - will look through cbi about data on bullseye
5. Julie W. is sending epa rsls alongside deq benchmarks
6. Potential Inspection – look for how to test and look for dust at rail unloading. Find out if a chromium refractory.
7. Richard – Will keep us informed of OR emergency response actions regarding soil.
8. Spectrum –
a. Katie will look into source and talk to permit writer.
b. Do we want to monitor are samples around them. Need to discuss with management.

To: McClintock, Katie[McClintock.Katie@epa.gov]
From: Bray, Dave
Sent: Fri 2/5/2016 10:15:04 PM
Subject: RE: Bullseye Call today - action items

Your list doesn't include your action item -- to send a couple of us the Excel spreadsheets with the ambient data that has been analyzed so far.

Dave

From: McClintock, Katie
Sent: Friday, February 5, 2016 1:59 PM
To: Bray, Dave; Narvaez, Madonna; Elleman, Robert; Koprowski, Paul; Downey, Scott; Dossett, Donald; Hedgpeth, Zach; Wroble, Julie; Franklin, Richard; Dagseth, Renee; Leefers, Kristin; Fairchild, Susan
Cc: Islam, Mahbubul
Subject: Bullseye Call today - action items

Based on the call today, here are our action items:

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a. Katie will look into source and talk to permit writer.
b. Do we want to monitor are samples around them. Need to discuss with management.

To: Narvaez, Madonna[Narvaez.Madonna@epa.gov]; Elleman, Robert[Elleman.Robert@epa.gov]; Koprowski, Paul[Koprowski.Paul@epa.gov]; Downey, Scott[Downey.Scott@epa.gov]; Dossett, Donald[Dossett.Donald@epa.gov]; McClintock, Katie[McClintock.Katie@epa.gov]
Cc: Islam, Mahbubul[Islam.Mahbubul@epa.gov]
From: Bray, Dave
Sent: Fri 2/5/2016 6:08:46 PM
Subject: RE: Heads up on emerging issue in PDX.

I haven't looked at the area source standard for covered glass plants, but does it require sufficient controls such that there would be no localized impacts from arsenic and cadmium (or other heavy metals) from continuous furnaces? Or would plants with continuous furnaces even be making these specialized colored glass to start with? Is this potentially an issue only with respect to batch furnaces that make these speciality colored glass?

Dave

From: Narvaez, Madonna
Sent: Friday, February 5, 2016 9:57 AM
To: Bray, Dave; Elleman, Robert; Koprowski, Paul; Downey, Scott; Dossett, Donald; McClintock, Katie
Cc: Islam, Mahbubul
Subject: RE: Heads up on emerging issue in PDX.

I know that. It would be helpful to know just how facilities we would have to deal with outside of any regulatory backup.

-----Original Message-----
From: Bray, Dave
Sent: Friday, February 05, 2016 9:39 AM
To: Narvaez, Madonna <Narvaez.Madonna@epa.gov>; Elleman, Robert <Elleman.Robert@epa.gov>; Koprowski, Paul <Koprowski.Paul@epa.gov>; Downey, Scott <Downey.Scott@epa.gov>; Dossett, Donald <Dossett.Donald@epa.gov>
Cc: Islam, Mahbubul <Islam.Mahbubul@epa.gov>
Subject: RE: Heads up on emerging issue in PDX.

But whether or not they are subject to the MACT or area source rule, it appears that there could still be a local health issue so I think we need to identify all of the plants that are using these hazardous metals.

From: Narvaez, Madonna
Sent: Friday, February 5, 2016 9:25 AM
To: Elleman, Robert; Koprowski, Paul; Downey, Scott; Bray, Dave; Dossett, Donald
Cc: Islam, Mahbubul
Subject: RE: Heads up on emerging issue in PDX.

Thanks, Rob!

Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process

From: Elleman, Robert
Sent: Thursday, February 04, 2016 6:26 PM
To: Narvaez, Madonna <Narvaez.Madonna@epa.gov>; Koprowski, Paul <Koprowski.Paul@epa.gov>; Downey, Scott <Downey.Scott@epa.gov>; Bray, Dave <Bray.Dave@epa.gov>; Dossett, Donald <Dossett.Donald@epa.gov>
Cc: Islam, Mahbubul <Islam.Mahbubul@epa.gov>
Subject: RE: Heads up on emerging issue in PDX.

Our resourceful James Lopez-Baird in OEA pulled together a list of all the glass manufacturers in our four R10 states. See the attachment.

Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process

James says he can put all the information on an interactive GIS web page for us so we can explore it geographically for ourselves. He estimated he would get to it tomorrow morning.

From: Narvaez, Madonna
Sent: Thursday, February 04, 2016 12:50 PM
To: Elleman, Robert <Elleman.Robert@epa.gov<mailto:Elleman.Robert@epa.gov>>; Koprowski, Paul <Koprowski.Paul@epa.gov<mailto:Koprowski.Paul@epa.gov>>; Downey, Scott <Downey.Scott@epa.gov<mailto:Downey.Scott@epa.gov>>; Bray, Dave <Bray.Dave@epa.gov<mailto:Bray.Dave@epa.gov>>; Dossett, Donald <Dossett.Donald@epa.gov<mailto:Dossett.Donald@epa.gov>>
Subject: RE: Heads up on emerging issue in PDX.

Thanks, Rob. I am having trouble finding out how much glass they produce. I think with annual sales of $19.8 M, it must be a lot.

From: Elleman, Robert
Sent: Thursday, February 04, 2016 11:30 AM
To: Koprowski, Paul <Koprowski.Paul@epa.gov<mailto:Koprowski.Paul@epa.gov>>; Downey, Scott <Downey.Scott@epa.gov<mailto:Downey.Scott@epa.gov>>; Narvaez, Madonna <Narvaez.Madonna@epa.gov<mailto:Narvaez.Madonna@epa.gov>>; Bray, Dave <Bray.Dave@epa.gov<mailto:Bray.Dave@epa.gov>>; Dossett, Donald <Dossett.Donald@epa.gov<mailto:Dossett.Donald@epa.gov>>
Subject: FW: Heads up on emerging issue in PDX.

Just sending you all the technical details I gathered this morning after speaking with Oregon DEQ's air emission inventory person.

· Bullseye may be the only source quite like this in Portland. There was another hot spot measured with moss on Swans Island but few details on that and less of a smoking gun.

· The NAICS for glass and glass product manufacturing is 32721. DEQ found a bunch of other companies in that category in Portland. See attachment GlassManufacturingfor Geoff.xlsx.

· The 6-digit SCC for glass manufacturing is 305014. There are a couple 8-digit SCCs that might be significant emitters similar to Bullseye.

· The person I talked to at DEQ doesn't think there would be helpful information in the NEI or in the air toxics database to help us find similar facilities in R10. He thought that searching for facilities through a NAICS database is the most promising avenue. He suggested ESRI's Business Analyst to accomplish such a task. He was interested in doing such a search for all of Oregon but ran into roadblock with software licenses.

· I may have a lead on how to access Business Analyst and do the search here in R10, but maybe you all have a better idea.

· Apparently Puget Sound Clean Air was notified of these results and may have already done a

survey for their jurisdiction.

From: Hastings, Janis
Sent: Thursday, February 04, 2016 11:07 AM
To: Holsman, Marianne <Holsman.Marianne@epa.gov<mailto:Holsman.Marianne@epa.gov>>
Cc: Downey, Scott <Downey.Scott@epa.gov<mailto:Downey.Scott@epa.gov>>; Fleming, Sheila <fleming.sheila@epa.gov<mailto:fleming.sheila@epa.gov>>; Narvaez, Madonna <Narvaez.Madonna@epa.gov<mailto:Narvaez.Madonna@epa.gov>>; Bray, Dave <Bray.Dave@epa.gov<mailto:Bray.Dave@epa.gov>>; Dossett, Donald <Dossett.Donald@epa.gov<mailto:Dossett.Donald@epa.gov>>; Koprowski, Paul <Koprowski.Paul@epa.gov<mailto:Koprowski.Paul@epa.gov>>; Pirzadeh, Michelle <Pirzadeh.Michelle@epa.gov<mailto:Pirzadeh.Michelle@epa.gov>>; Elleman, Robert <Elleman.Robert@epa.gov<mailto:Elleman.Robert@epa.gov>>
Subject: Re: Heads up on emerging issue in PDX.

In the interest of time, I'm sending the summary that we have so far from Paul Koprowski. Scott Downey may have an update later today.

As a result of a collaborative study to better understand the sources and distribution of arsenic and cadmium air pollution in Portland Oregon, DEQ found a significant “hot spot” at Southeast 22nd Ave. and Powell Boulevard. ODEQ, the Oregon Health Authority, Multnomah County Health Departments and ATSDR are working collaboratively to determine the impact to public health. Additional monitors are being deployed by ODEQ and the agency is about to release maps that outline the affected area. ODEQ will be posting the data summary to their website soon.

ODEQ issued a press release on Feb. 3rd about the findings. ODEQ has been working on refining and analyzing the data since it was first discovered in October. The initial findings are that the monthly average is 49 times greater than the state air toxics benchmark for cadmium and 159 times the DEQ air toxics benchmark for arsenic. ATSDR and OEA are evaluating the findings in relation to EPA health standards. Representatives from ATSDR are in Portland to assist in communicating the impact to the community.

The source is permitted as a minor source of air toxics emissions. ODEQ has confirmed they are in compliance with the permit. Bullseye Glass produces colored flat glass for use in the arts industry. Air contaminant control equipment at the facility includes a baghouse.

The neighborhood around Bullseye Glass includes residences, the Fred Meyer Corporate offices, a daycare and Cleveland High School, a variety of business and a park with a playing field and basketball court.

From: Holsman, Marianne
Sent: Thursday, February 4, 2016 10:46 AM
To: McLerran, Dennis; Pirzadeh, Michelle; Dunbar, Bill
Cc: Hastings, Janis; Smith, Judy; Downey, Scott
Subject: Heads up on emerging issue in PDX.

OCE and AWT are working on a hot issues write up on this and we are going to draft a reactive desk statement for press calls. I understand we are talking with ODEQ today on this matter. Stand by for more information. There are several other clips on this as a result of a DEQ news release of yesterday (attached).

http://www.portlandmercury.com/BlogtownPDX/archives/2016/02/03/arsenic-cadmium-levels-near-two-se-portland-schools-are-alarmingly-high-state-finds
[http://media2.fdncms.com/portmerc/imager/u/slideshow/17515972/1454535320-screen_shot_2016-02-01_at_5.02.53_pm.png]<http://www.portlandmercury.com/BlogtownPDX/archives/2016/02/03/arsenic-cadmium-levels-near-two-se-portland-schools-are-alarmingly-high-state-finds>

State Finds Alarmingly High Arsenic, Cadmium Levels Near Two SE Portland Schools<http://www.portlandmercury.com/BlogtownPDX/archives/2016/02/03/arsenic-cadmium-levels-near-two-se-portland-schools-are-alarmingly-high-state-finds>
www.portlandmercury.com<http://www.portlandmercury.com>
GoogleA portion of the Bullseye Glass facility in SE Portland Within days, state officials are slated to release the alarming results of a monitoring program...

State Finds Alarmingly High Arsenic, Cadmium Levels Near Two SE Portland Schools

Posted by Daniel Forbes<http://www.portlandmercury.com/portland/ArticleArchives?author=17515956> on Wed, Feb 3, 2016 at 2:06 PM

[A portion of the Bullseye Glass facility in SE Portland]

- Google
- A portion of the Bullseye Glass facility in SE Portland

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Daniel Forbes is the author of Derail this Train Wreck<http://fomitepress.com/FOMITE/Derail.html>. He lives in Portland, and can be reached at ddanforbes@aol.com<mailto:ddanforbes@aol.com>.

Marianne Holsman

Public Affairs Director

EPA Region 10

Desk: 206-553-
1237[
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Cell: 206-450-
5895[
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<https://plus.google.com/+EPAgov/posts>

To: McClintock, Katie[McClintock.Katie@epa.gov]
Cc: Koprowski, Paul[Koprowski.Paul@epa.gov]; Downey, Scott[Downey.Scott@epa.gov]; Stifelman, Marc[Stifelman.Marc@epa.gov]
From: Wroble, Julie
Sent: Fri 3/4/2016 11:43:03 PM
Subject: update from incident management team meeting
BullseyeGlassMetalsData_Reformated20160303.xlsx
UroborosGlassMetalsData_20160302.xlsx

Maybe Paul has more to add:

Air Quality: Two new sites have been ID's near Uroboros, but low on equipment so not sure if work can be done. (Is this an area where EPA can help with? Paul will check for more info.

Community Engagement: 1) link has been sent out for community requests; 2)there's a draft response plan process

Environmental health/Risk assessment: Information to be released next week, Wed – DEQ's soil data for bullseye area, correlating health assessment indicating low soil levels, low risks; fact sheet about gardening saying that it's o.k to garden. Gov office asked about why earlier message said no garden, response was that based on earlier data and with an abundance of caution, that was the recommendation 3 weeks ago. More recent data has indicated gardening to be ok.

Air sampling data release date is March 14 – Farrar needs time to review and assess prior to release.

Cancer: no elevated rates of cancer found.

Epi/surveillance: preliminary results of urine testing are available. Most ND, but few positive results for cadmium in urine need to be understood and explained.

I asked when we could see the data and was directed to Aaron Borisenko at DEQ who provided it.

I'll try to look this over today before I leave.

Julie Wroble|Acting Unit Manager, Risk Evaluation Unit|Toxicologist|USEPA Region 10|1200 6th Ave., OEA-140|Seattle, WA 98101|T: 206-553-1079|e-mail: wroble.julie@epa.gov

Sample ID	Date	Latitute	Longitude	As mg/Kg	Cd mg/Kg	Cr mg/Kg
LIP-SS-01-01	2/19/2016	45.53972	-122.67003	*0.141*	*0.138*	0.673
LIP-SS-01-08	2/19/2016	45.53972	-122.67003	5.55	*0.265*	15.9
LIP-SS-02-01	2/19/2016	45.53989	122.67003	*0.0976*	<0.080	*0.441*
LIP-SS-03-01	2/19/2016	45.54017	122.66943	8.37	*0.309*	13.8
LIP-SS-04-01	2/19/2016	45.54010	122.66909	5.00	*0.499*	13.7
LIP-SS-05-01	2/19/2016	45.54045	122.67017	5.02	*0.449*	13.5
LIP-SS-05-01 Dup	2/19/2016	45.54045	122.67017	5.75	*0.426*	15.6
LIP-SS-06-01	2/19/2016	45.54076	122.07003	5.38	*0.465*	14.7
LIP-SS-07-01	2/19/2016	45.54061	122.66940	2.61	<0.098	9.77
LIP-SS-08-01	2/19/2016	45.54058	122.66934	3.56	*0.172*	11
LIP-SS-09-01	2/19/2016	45.54070	122.66911	6.51	*0.429*	21.9
LIP-SS-10-01	2/19/2016	45.54075	122.66911	3.09	<0.098	10.7
GMD-SS-01-01	2/19/2016	45.54075	122.66911	2.77	*0.265*	12.2
GMD-SS-01-01 Dup	2/19/2016	45.54075	122.66911	2.24	*0.213*	9.27
GMD-SS-02-01	2/19/2016	45.54075	122.66911	2.62	*0.316*	10.3
GMD-SS-03-01	2/19/2016	45.53577	122.66866	4.80	1.07	15.7
GMD-SS-04-01	2/19/2016	45.53586	122.66866	*1.14*	*0.545*	4.92
GMD-SS-05-01	2/19/2016	45.53618	122.66862	5.71	0.718J	15.7
LEG-SS-01-01	2/23/2016	45.54130	-122.67025	4.81	*0.335*	12.4
LEG-SS-01-06	2/23/2016	45.54130	-122.67025	5.41	*0.286*	14.4
LEG-SS-02-01	2/23/2016	45.54133	-122.67000	4.29	*0.359*	16.2
LEG-SS-03-01	2/23/2016	45.54128	-122.66978	3.94	*0.404*	16.1
LEG-SS-03-01 Dup	2/23/2016	45.54128	-122.66978	5.16	*0.449*	217
LEG-SS-04-01	2/23/2016	45.54132	-122.66953	4.00	*0.304*	26.1
LEG-SS-05-01	2/23/2016	45.54130	-122.66912	3.18	*0.185*	11.8
LEG-SS-06-01	2/23/2016	45.54127	-122.66900	2.41	*0.120*	7.28
LEG-SS-07-01	2/23/2016	45.54128	-122.66883	2.84	*0.264*	12.3
LEG-SS-07-06	2/23/2016	45.54128	-122.66883	2.83	*0.225*	9.2
LEG-SS-07-06 Dup	2/23/2016	45.54128	-122.66883	2.48	*0.276*	7.97

Estimated Data below the MRL (J Flag)		

Field Duplicate Results

LIP-SS-05-01 (RPD)	13.6%	5.3%	14.4%
GMD-SS-01-01 (RPD)	21.2%	21.8%	27.3%
LEG-SS-03-01 (RPD)	26.8%	10.6%	172.4%
LEG-SS-07-01 (RPD)	13.2%	20.4%	14.3%

EPA 7199
Reported Wet Weight

Cr+6 mg/Kg	Co mg/Kg	Pb mg/Kg	Ni mg/Kg	Se mg/Kg	Hg mg/Kg	Fe mg/Kg	Mn mg/Kg	Al mg/Kg	B mg/Kg
< 0.255	0.266	1.54	1.65	<0.19	<0.0028	577	21.2	194	4.52
< 0.38	14.9	69.7	15.1	0.416	0.0318	25300	576	8040	4.5
<0.255	0.137	1.07	0.416	<0.190	<0.0028	344	8.62	123	1.89
0.577	13.2	36.5	15.7	0.485	0.0219	22800	583	7820	2.51
0.977	12.9	80.4	12.6	0.48	0.0412	21800	633	7710	4.23
0.437	12.3	77.0	13.2	0.447	0.0528	24200	556	8780	2.59
<0.44	14.0	88.0	15.8	0.539	0.0570	28500	585	10100	2.46
1.94	13.3	79.6	14.9	0.55	0.0402	23200	644	8630	3.76
<0.31	12.0	4.66	23.3	0.341	<0.0034	17600	514	8110	2.12
0.552	12.9	11.6	21	0.395	0.0050	19300	557	8900	3.2
<0.36	15.9	101	17.6	0.503	0.0543	29500	713	10100	2.77
1.51	13.7	5.23	24.8	0.344	<0.0034	20300	519	9650	2.65
0.555	8.00	13.0	12.3	0.34	0.015	15300	346	7050	3.98
<0.37	6.02	10.9	8.09	<0.27	0.0166	11900	281	5150	3.93
<0.38	7.53	19.8	10.8	0.38	0.0205	14800	348	6310	5.57
<0.36	12.4	101	13.8	0.60	0.0432	22100	559	8060	2.92
<0.71	2.86	37.1	3.08	<0.53	0.0196	4560	436	1570	7.75
<0.37	14.1	105	14.8	0.601	0.0407	26100	655	8400	2.22
<0.38	12.4	55.2	12.7	0.393	0.0529	22300	540	8310	3.57
1.31	16.7	69.0	14.6	0.409	0.0479	26600	743	12500	1.38
<0.39	11.7	48.9	12.8	0.381	0.0379	22500	592	8430	4.78
0.886	11.0	42.2	11.4	<0.35	0.0551	18800	578	7160	5.29
<0.47	12.8	57.1	14.3	0.427	0.0588	29100	1660	10300	4.28
<0.37	11.2	35.5	12.5	0.379	0.0289	19700	669	7870	4.69
<0.38	15.1	9.97	19.4	0.597	0.0186	19700	671	7710	3.09
1.27	7.54	17.6	6.88	0.252	0.0178	13200	284	4450	0.932
<0.51	13.3	15.4	13.3	0.422	0.0375	19100	649	7080	5.29
<0.38	10.0	11.7	13.3	0.369	0.0263	15600	490	6630	4.87
0.504	11.5	13.7	11.2	0.353	0.0246	13200	539	5380	8.58

#VALUE!	12.9%	13.3%	17.9%	18.7%	7.7%	16.3%	5.1%	14.0%	5.1%
#VALUE!	28.2%	17.6%	41.3%	#VALUE!	10.1%	25.0%	20.7%	31.1%	1.3%
#VALUE!	15.1%	30.0%	22.6%	#VALUE!	6.5%	43.0%	96.7%	36.0%	21.1%
#VALUE!	14.0%	15.7%	17.1%	4.4%	6.7%	16.7%	9.5%	20.8%	55.2%

Al / Fe	Mn/Fe
0.336221837	0.036741768
0.317786561	0.022766798
0.35755814	0.02505814
0.342982456	0.025570175
0.353669725	0.029036697
0.362809917	0.022975207
0.354385965	0.020526316
0.371982759	0.027758621
0.460795455	0.029204545
0.461139896	0.028860104
0.342372881	0.024169492
0.475369458	0.025566502
0.460784314	0.022614379
0.432773109	0.023613445
0.426351351	0.023513514
0.364705882	0.025294118
0.344298246	0.095614035
0.32183908	0.025095785
0.37264574	0.024215247
0.469924812	0.027932331
0.374666667	0.026311111
0.380851064	0.030744681
0.35395189	0.057044674
0.399492386	0.033959391
0.391370558	0.034060914
0.337121212	0.021515152
0.370680628	0.033979058
0.425	0.031410256
0.407575758	0.040833333

Sample ID	Date	Latitute	Longitude	As mg/Kg
LIP-SS-01-01	2/19/2016	45.53972	-122.67003	*0.141*
LIP-SS-01-08	2/19/2016	45.53972	-122.67003	5.55
LIP-SS-02-01	2/19/2016	45.53989	122.67003	*0.0976*
LIP-SS-03-01	2/19/2016	45.54017	122.66943	8.37
LIP-SS-04-01	2/19/2016	45.54010	122.66909	5.00
LIP-SS-05-01	2/19/2016	45.54045	122.67017	5.02
LIP-SS-05-01 Dup	2/19/2016	45.54045	122.67017	5.75
LIP-SS-06-01	2/19/2016	45.54076	122.07003	5.38
LIP-SS-07-01	2/19/2016	45.54061	122.66940	2.61
LIP-SS-08-01	2/19/2016	45.54058	122.66934	3.56
LIP-SS-09-01	2/19/2016	45.54070	122.66911	6.51
LIP-SS-10-01	2/19/2016	45.54075	122.66911	3.09

Estimated Data below the MRL (J Flag)		

Field Duplicate Results

LIP-SS-05-01 (RPD) 13.6%

EPA 7199
Reported Wet Weight

Cd mg/Kg	Cr mg/Kg	Cr+6 mg/Kg	Co mg/Kg	Pb mg/Kg	Ni mg/Kg	Se mg/Kg	Hg mg/Kg
0.138	0.673	< 0.255	*0.266*	1.54	1.65	<0.19	<0.0028
0.265	15.9	< 0.38	14.9	69.7	15.1	*0.416*	0.0318
<0.080	*0.441*	<0.255	*0.137*	1.07	*0.416*	<0.190	<0.0028
0.309	13.8	*0.577*	13.2	36.5	15.7	*0.485*	*0.0219*
0.499	13.7	*0.977*	12.9	80.4	12.6	*0.48*	0.0412
0.449	13.5	*0.437*	12.3	77.0	13.2	*0.447*	0.0528
0.426	15.6	<0.44	14.0	88.0	15.8	*0.539*	0.0570
0.465	14.7	1.94	13.3	79.6	14.9	*0.55*	0.0402
<0.098	9.77	<0.31	12.0	4.66	23.3	*0.341*	<0.0034
0.172	11	*0.552*	12.9	11.6	21	*0.395*	0.0050
0.429	21.9	<0.36	15.9	101	17.6	*0.503*	0.0543
<0.098	10.7	1.51	13.7	5.23	24.8	*0.344*	<0.0034

5.3%	14.4%	#VALUE!	12.9%	13.3%	17.9%	18.7%	7.7%

Fe mg/Kg	Mn mg/Kg	Al mg/Kg	B mg/Kg	Al / Fe	Mn/Fe
577	21.2	194	*4.52*	0.336221837	0.036741768
25300	576	8040	*4.5*	0.317786561	0.022766798
344	8.62	123	*1.89*	0.35755814	0.02505814
22800	583	7820	*2.51*	0.342982456	0.025570175
21800	633	7710	*4.23*	0.353669725	0.029036697
24200	556	8780	*2.59*	0.362809917	0.022975207
28500	585	10100	*2.46*	0.354385965	0.020526316
23200	644	8630	*3.76*	0.371982759	0.027758621
17600	514	8110	*2.12*	0.460795455	0.029204545
19300	557	8900	*3.2*	0.461139896	0.028860104
29500	713	10100	*2.77*	0.342372881	0.024169492
20300	519	9650	*2.65*	0.475369458	0.025566502

16.3%	5.1%	14.0%	5.1%

Sample ID	Date	Latitute	Longitude	As mg/Kg
GMD-SS-01-01	2/19/2016	45.54075	122.66911	2.77
GMD-SS-01-01 Dup	2/19/2016	45.54075	122.66911	2.24
GMD-SS-02-01	2/19/2016	45.54075	122.66911	2.62
GMD-SS-03-01	2/19/2016	45.53577	122.66866	4.80
GMD-SS-04-01	2/19/2016	45.53586	122.66866	*1.14*
GMD-SS-05-01	2/19/2016	45.53618	122.66862	5.71

Estimated Data below the MRL (J Flag)		

Field Duplicate Results

GMD-SS-01-01 (RPD) 21.2%

EPA 7199

Cd mg/Kg	Cr mg/Kg	Cr+6 mg/Kg	Co mg/Kg	Pb mg/Kg	Ni mg/Kg	Se mg/Kg	Hg mg/Kg
0.265	12.2	*0.555*	8.00	13.0	12.3	*0.34*	*0.015*
0.213	9.27	<0.37	6.02	10.9	8.09	<0.27	*0.0166*
0.316	10.3	<0.38	7.53	19.8	10.8	0.38	0.0205
1.07	15.7	<0.36	12.4	101	13.8	*0.60*	0.0432
0.545	4.92	<0.71	2.86	37.1	3.08	<0.53	*0.0196*
0.718J	15.7	<0.37	14.1	105	14.8	*0.601*	0.0407
21.8%	27.3%	#VALUE!	28.2%	17.6%	41.3%	#VALUE!	10.1%

Fe mg/Kg	Mn mg/Kg	Al mg/Kg	B mg/Kg	Al / Fe	Mn/Fe
15300	346	7050	*3.98*	0.460784314	0.022614379
11900	281	5150	*3.93*	0.432773109	0.023613445
14800	348	6310	*5.57*	0.426351351	0.023513514
22100	559	8060	*2.92*	0.364705882	0.025294118
4560	436	1570	*7.75*	0.344298246	0.095614035
26100	655	8400	*2.22*	0.32183908	0.025095785

25.0% 20.7% 31.1% 1.3%

Sample ID	Date	Latitute	Longitude	As mg/Kg	Cd mg/Kg	Cr mg/Kg
LEG-SS-01-01	2/23/2016	45.54130	-122.67025	4.81	*0.335*	12.4
LEG-SS-01-06	2/23/2016	45.54130	-122.67025	5.41	*0.286*	14.4
LEG-SS-02-01	2/23/2016	45.54133	-122.67000	4.29	*0.359*	16.2
LEG-SS-03-01	2/23/2016	45.54128	-122.66978	3.94	*0.404*	16.1
LEG-SS-03-01 Dup	2/23/2016	45.54128	-122.66978	5.16	*0.449*	217
LEG-SS-04-01	2/23/2016	45.54132	-122.66953	4.00	*0.304*	26.1
LEG-SS-05-01	2/23/2016	45.54130	-122.66912	3.18	*0.185*	11.8
LEG-SS-06-01	2/23/2016	45.54127	-122.66900	2.41	*0.120*	7.28
LEG-SS-07-01	2/23/2016	45.54128	-122.66883	2.84	*0.264*	12.3
LEG-SS-07-06	2/23/2016	45.54128	-122.66883	2.83	*0.225*	9.2
LEG-SS-07-06 Dup	2/23/2016	45.54128	-122.66883	2.48	*0.276*	7.97

Estimated Data below the MRL (J Flag)		

Field Duplicate Results

LEG-SS-03-01 (RPD)	26.8%	10.6%	172.4%
LEG-SS-07-01 (RPD)	13.2%	20.4%	14.3%

EPA 7199

Cr+6 mg/Kg	Co mg/Kg	Pb mg/Kg	Ni mg/Kg	Se mg/Kg	Hg mg/Kg	Fe mg/Kg	Mn mg/Kg	Al mg/Kg	B mg/Kg
<0.38	12.4	55.2	12.7	0.393	0.0529	22300	540	8310	3.57
1.31	16.7	69.0	14.6	0.409	0.0479	26600	743	12500	1.38
<0.39	11.7	48.9	12.8	0.381	0.0379	22500	592	8430	4.78
0.886	11.0	42.2	11.4	<0.35	0.0551	18800	578	7160	5.29
<0.47	12.8	57.1	14.3	0.427	0.0588	29100	1660	10300	4.28
<0.37	11.2	35.5	12.5	0.379	0.0289	19700	669	7870	4.69
<0.38	15.1	9.97	19.4	0.597	0.0186	19700	671	7710	3.09
1.27	7.54	17.6	6.88	0.252	0.0178	13200	284	4450	0.932
<0.51	13.3	15.4	13.3	0.422	0.0375	19100	649	7080	5.29
<0.38	10.0	11.7	13.3	0.369	0.0263	15600	490	6630	4.87
0.504	11.5	13.7	11.2	0.353	0.0246	13200	539	5380	8.58

#VALUE!	15.1%	30.0%	22.6%	#VALUE!	6.5%	43.0%	96.7%	36.0%	21.1%
#VALUE!	14.0%	15.7%	17.1%	4.4%	6.7%	16.7%	9.5%	20.8%	55.2%

Al / Fe	Mn/Fe
0.37264574	0.024215247
0.469924812	0.027932331
0.374666667	0.026311111
0.380851064	0.030744681
0.35395189	0.057044674
0.399492386	0.033959391
0.391370558	0.034060914
0.337121212	0.021515152
0.370680628	0.033979058
0.425	0.031410256
0.407575758	0.040833333

Table XX at Powell Park
(mg/kg dry weight)

SampleID	Latitude	Longitude	As	Cd	Cr	Cr+6[a]	Co	Pb	Ni	Se	Hg	Fe	Mn	Al	U
PP-SS-03-01	45.49792	-122.64347	7.9	9.9	22.9	1.3*	13.4	182	19.2	2.4	0.082	25200	618	11400	0.73
PP-SS-05-01	45.49838	-122.64336	9.1	9.8	19.2	<0.38	12.9	122	18.5	2.3	0.095	24300	688	11900	0.66
PP-SS-07-01	45.49852	-122.64344	8.4	4.8	20.2	<0.36	13.1	238	21.9	1.4	0.12	24500	745	11600	
PP-SS-07-06	45.49852	-122.64344	6.5	1.8	19.9	<0.33	13.1	192	19.7	0.71	0.088	26500	794	12900	
PP-SS-11-01	45.49866	-122.64330	7.7	5.2	20.8	<0.35	12.4	258	19.4	1.5	0.10	24800	646	12200	
CCLC-SS-14-01	45.49871	-122.64338	3.7	1.5	17.0	*1.6*	8.2	58.3	13.3	*0.84*	0.051	13200	296	6720	
CCLC-SS-17-01	45.49356	-122.64242	8.8	5.2	22.3	<0.46	14.3	105	17.3	1.2	0.051	17800	395	8510	
CCLC-SS-19-01	45.49353	-122.64231	2.5	0.40	7.7	*1.2*	6.2	7.8	7.8	*0.33*	*0.013*	9620	361	4020	
CCLC-SS-21-01	45.49356	-122.64233	3.3	1.3	17.1	3.0	7.9	42.9	10.4	*0.72*	0.039	13400	411	7630	
CCLC-SS-25-01	45.49355	-122.64233	5.9	0.96	16.4	*0.39*	16.7	16.1	10.5	0.70	*0.019*	24300	743	11200	
CCLC-SS-28-01	45.49359	-122.64274	5.3	1.8	16.2	*0.77*	10.5	22.5	9.2	*0.73*	0.026	16300	512	9640	1.0
CCLC-SS-30-01	45.49360	-122.64281	6.0	1.7	15.6	<1.1	10.6	18.8	9.0	*0.66*	0.021	19400	567	9170	
CCLC-SS-30-06	45.49360	-122.64281	6.1	1.1	17.5	1.9	11.1	16.0	10.2	*0.51*	0.028	21900	555	11200	
CCLC-SS-34-01	45.49389	-122.64227	5.3	2.1	17.8	*0.28*	8.8	31.3	10.5	*0.74*	*0.025*	15800	429	7520	
CCLC-SS-36-01	45.49384	-122.64233	10.1	2.3	16.2	0.97	9.7	38.7	10.2	0.79	*0.023*	14800	793	7740	1.5
CCLC-SS-36-01 (Dup)	45.49384	-122.64233	8	1.7	15.5	1.6	7.8	34.2	9.4	*0.71*	*0.020*	12700	386	7140	1.4
CCLC-SS-38-01	45.49364	-122.64281	25.2	4.0	20.5	0.78*	10.2	122	14.7	1.3	0.053	17300	357	8980	1.4
CCLC-SS-41-01	45.49385	-122.64292	42.6	5.3	20.2	1.9	8.4	93.3	12.5	1.4	0.023	12600	278	7730	
CCLC-SS-43-01	45.49390	-122.64303	22.4	2.1	19.8	2.6	13.7	21.5	10.1	1.0	0.019	21000	540	11400	1.7
CCLC-SS-45-06	45.49385	-122.64292	39.0	4.1	21.7	0.8*	7.2	85.5	15.5	1.0	0.019	11500	254	6670	1.1
PP-SS-12-06	45.49731	-122.64046	4.0	1.2	12.2	2.0	4.0	72.4	10.7	<0.37	0.14	8240	195	6120	
PP-SS-13-01	45.49731	-122.64046	*0.083*	<0.08	<0.27	< 0.64^	*0.19*	1.2	0.30	<0.19	<0.0028	291	15.6	97.9	
PP-SS-14-01	45.49737	-122.64024	3.0	*0.44*	11.8	*1.8^*	11.0	30.6	9.0	*0.32*	0.050	18600	689	7730	
PP-SS-15-08	45.49740	-122.64040	2.2	0.742	18.5	<0.38	3.7	88.8	12.6	<0.28	0.083	8030	117	8040	
PP-SS-16-08	45.49743	-122.64046	3.2	1.31	16.1	2.1	6.3	54.8	13.1	*0.35*	0.069	13500	231	9670	
PP-SS-17-01	45.49738	-122.64036	0.10	<0.08	0.75	< 0.255	*0.17*	1.6	0.55	<0.19	<0.0028	421	16.7	222	
PP-SS-18-06	45.49738	-122.64036	4.0	1.1	11.2	2.9	5.0	62.8	8.5	*0.32*	0.25	10800	298	6390	
PP-SS-19-01	45.49755	-122.64029	0.055	<0.08	<0.27	< 0.255	<0.13	0.91	*0.42*	<0.19	<0.0028	213	8.72	111	
PP-SS-20-06	45.49755	-122.64029	2.2	0.98	8.8	*0.94*	4.7	25.7	8.1	<0.44	*0.045*	7690	237	5540	
PP-SS-21-01	45.49743	-122.64062	*0.14*	*0.31*	0.54	< 0.255	0.54	1.8	0.59	<0.19	*0.0039*	612	59.4	270	
PP-SS-22-06	45.49743	-122.64062	3.8	*0.30*	12.5	*1.2*	13.5	10.2	11.4	*0.33*	0.027	22000	1630	10900	
PP-SS-23-12	45.49736	-122.64071	3.8	*0.81*	19.2	<0.64^	12.2	41.9	13.8	<0.32	0.096	22200	549	12900	
PP-SS-24-01	45.49744	-122.64072	*0.11*	< 0.08	0.34	< 0.255	*0.17*	1.4	*0.37*	<0.19	<0.0028	504	12.2	237	
PP-SS-24-08	45.49744	-122.64072	4.5	1.2	29.3	<0.43	5.1	105	8.85	*0.38*	0.091	11900	233	9100	
PP-SS-26-06	45.49736	-122.64072	2.1	0.98	11.5	<1.16^	4.3	40.3	8.81	<0.35	0.062	10300	176	6740	
PP-SS-27-06	45.49715	-122.64049	3.7	0.82	18.4	<0.60	7.7	36.5	14.5	*0.49*	0.067	18000	347	13700	
PP-SS-29-01	45.49759	-122.64204	5.2	*0.18*	28.8	<0.85^	13.0	9.1	13.6	*0.43*	*0.023*	29400	546	12700	
PP-SS-32-01	45.49784	-122.64207	2.8	*0.30*	9.2	<0.77^	8.4	4.82	17.7	*0.32*	<0.0034	14500	309	6350	
PP-SS-33-03	45.49804	-122.64227	3.9	1.1	14.7	<0.95^	11.6	34.5	16.1	*0.50*	0.063	21600	712	10400	
PP-SS-34-01	45.49781	-122.64233	2.7	*0.4*	10.7	*0.51*	13.6	5.1	26.3	*0.34*	*0.0039*	17100	499	7360	
PP-SS-36-01	45.49795	-122.64285	2.0	0.88	6.0	<0.93^	5.3	15.3	4.7	<0.28	0.054	8630	365	4200	
PP-SS-37-01	45.49811	-122.64270	2.2	0.88	7.6	*0.71*	6.2	26.0	6.0	*0.34*	0.072	10400	501	5150	
PP-SS-38-01	45.49841	-122.64269	2.6	0.96	8.7	*0.52*	7.3	34.6	8.0	*0.38*	0.095	12700	492	6070	
PP-SS-39-01	45.49789	-122.64144	2.6	0.39	7.8	<0.98^	7.2	31.7	5.8	<0.29	0.049	10600	418	4890	
PP-SS-40-03	45.49773	-122.64145	1.4	*0.31*	6.1	<0.99^	4.7	17.7	5.0	<0.29	0.045	8220	269	4290	
PP-SS-41-03	45.49796	-122.64117	2.3	*0.37*	11.2	<0.37	7.0	37.7	7.6	<0.28	0.048	12600	349	5740	
PP-SS-42-01	45.49790	-122.64304	*5.9*	*4.1*	11.5	<0.41	8.8	66.4	11.3	<3.1	0.083	14900	557	7240	
PP-SS-42-01 (Dup)	45.49790	-122.64304	*6.0*	*4.3*	9.5	<0.41	8.5	71.4	8.7	<3.1	0.076	13400	598	6560	
PP-SS-43-01	45.49771	-122.64285	10.7	8.9	26.8	<0.43	20.7	169	27.2	*3.5*	0.11	35100	1460	17200	
PP-SS-44-01	45.49752	-122.64254	*3.5*	*2.5*	9.8	<0.43	8.3	137	9.5	<3.2	0.10	14200	555	5760	
FM-SS-01-01	45.49740	-122.64328	*4.2*	7.7	*7.4*	<0.39	9.7	24.0	6.6	<2.9	0.041	9640	550	3270	< 1.2
FM-SS-02-01	45.49724	-122.64324	*3.8*	*3.6*	11.1	<0.35	16.6	21.5	16.5	<2.6	*0.023*	16300	772	6560	<1.1
FM-SS-02-06	45.49724	-122.64324	*1.5*	<0.93	7.9	<0.75^	18.1	5.74	18.5	<2.2	*0.0070*	15200	716	6830	
FM-SS-03-01	45.49718	-122.64334	*1.9*	<0.96	8.9	<0.77^	16.1	*4.7*	12.8	<2.3	*0.0049*	15300	652	6320	
FM-SS-03-06	45.49718	-122.64334	*1.5*	<0.94	6.3	<0.75^	12.8	*4.3*	10.9	<2.2	*0.0049*	12700	586	5900	
FM-SS-03-06 (Dup)	45.49718	-122.64334	*1.6*	<0.95	7.5	<0.76^	15.6	*4.7*	12.6	<2.3	*0.0055*	14300	713	6400	
FM-SS-04-01	45.49692	-122.64335	7.0	15.0	63	2.0	56.9	40.2	26.2	*3.3*	*0.022*	50900	2230	18100	
FM-SS-05-01	45.49673	-122.64341	*1.9*	*2.5*	8.4	<0.31	14.2	*4.2*	21.7	<2.3	*0.0082*	16100	548	7010	
FM-SS-06-01	45.49657	-122.64335	*2.7*	*2.9*	8.6	<0.79^	19.9	9.1	22.2	< 2.4	*0.016*	18200	787	7350	
FM-SS-07-01	45.49640	-122.64337	*2.4*	*4.5*	8.6	<0.34	14.3	7.8	24.7	<2.5	*0.0098*	16200	738	6850	
FM-SS-08-03	45.49612	-122.64338	*6.8*	*7.5*	18.3	<0.52	10.4	39.2	10.8	<3.9	0.059	18200	512	8830	
FM-SS-09-03	45.49586	-122.64336	12.2	*8.4*	24.5	<0.49	*7.5*	47.4	6.7	<3.7	0.10	13700	307	5860	
FM-SS-10-01	45.49618	-122.64320	7.0	*2.1*	15.7	<0.87^	9.4	63.1	10.7	<2.6	0.038	23600	432	9960	
FM-SS-11-01	45.49503	-122.64338	*7.6*	12.2	15.0	<1.0^	12.5	45.0	11.7	*4.4*	0.055	19400	552	9320	
FM-SS-12-06	45.49520	-122.64333	*4.5*	<1.0	13.2	1.6	13.5	19.5	9.3	<2.5	*0.026*	15300	775	8270	
FM-SS-12-01	45.49520	-122.64333	9.2	7.5	22.0	<0.34	25.8	33.4	12.9	<2.5	0.033	36400	1440	11500	
FM-SS-13-01	45.49719	-122.64246	*3.6*	<0.96	14.4	<0.79^	70.4	10.2	31.8	<2.3	*0.0056*	34400	1830	12600	
FM-SS-14-01	45.49667	-122.64183	*5.8*	*1.4*	20.5	<0.32	26.3	24.4	40.2	<2.4	0.026	32600	961	14100	
FM-SS-15-01	45.49643	-122.64248	5.9	*1.1*	16.0	<0.73^	20.9	73.5	23.5	<2.2	0.079	24600	817	8200	
FM-SS-16-01	45.49585	-122.64217	*5.2*	<1.1	12.5	<0.35	12.1	25.2	16.7	<2.6	0.042	22600	551	9930	
FM-SS-17-01	45.49649	-122.64122	*3.5*	<0.98	15.5	<0.31	20.0	*5.6*	38.4	<2.3	*0.0072*	30100	771	12600	
FM-SS-18-01	45.49655	-122.64008	7.6	<1.0	18.2	*0.87*	13.5	29.3	15.4	<2.4	0.055	27200	555	14800	
Background Estimate			8.8	0.63	76	NA	33	79	47	0.71	0.23	36100	1800	52300	3
Background Range			2.4 - 9.5	0.15 - 0.82	20 - 84	NA	4.1 - 151	6.9 - 100	13 - 49	0.2 - 1.1	0.02 - 0.23	16,350- 59,850	150 - 1,960	13,750 - 54,500	NA
DEQ Screening Value			0.43	78	120000	0.3	23	400	1500	390	23	55000	1800	77000	230
ATSDR Screening Value			15	5	75000	45	500	NA	1000	250	15	NA	2500	50000	150
90th UCL on Mean [1]			5.1	4	16	TBD	10	97	15	0.92	0.09	18910	641	9663	NC
95th UCL on Mean			5.3	4.7	17	TBD	11	106	15	0.99	0.1	19452	669	9979	NC

1- Averages estimated as upper confidence limits on mean of surface samples only using using US EPA ProUCL software version 5.0. Rounded to two significant digits.
NA- Not Available - No Screening value from this source.

Mulch Samples
Estimated Data between the MDL and MRL (J Flag)

Raised reporting limit due to matrix

[a]Cr+6 analyzed by EPA 7199 unless otherwise noted
^ = Analyzed by EPA 7196A (colorimetric)
* = Anlyzed by Weck Laboratories

Table XX at Powell Park
(mg/kg dry weight)

SampleID	As	Cd	Cr	Cr+6[a]	Co	Pb	Ni	Se	Hg	Fe	Mn	Al
PP-SS-03-01	7.9	9.9	22.9	1.3*	13.4	182	19.2	2.4	0.082	25200	618	11400
PP-SS-05-01	9.1	9.8	19.2	<0.38	12.9	122	18.5	2.3	0.095	24300	688	11900
PP-SS-07-01	8.4	4.8	20.2	<0.36	13.1	238	21.9	1.4	0.12	24500	745	11600
PP-SS-07-06	6.5	1.8	19.9	<0.33	13.1	192	19.7	0.71	0.088	26500	794	12900
PP-SS-11-01	7.7	5.2	20.8	<0.35	12.4	258	19.4	1.5	0.10	24800	646	12200
PP-SS-12-06	4.0	1.2	12.2	2.0	4.0	72.4	10.7	<0.37	0.14	8240	195	6120
PP-SS-14-01	3.0	*0.44*	11.8	*1.8^*	11.0	30.6	9.0	*0.32*	0.050	18600	689	7730
PP-SS-15-08	2.2	0.742	18.5	<0.38	3.7	88.8	12.6	<0.28	0.083	8030	117	8040
PP-SS-16-08	3.2	1.31	16.1	2.1	6.3	54.8	13.1	*0.35*	0.069	13500	231	9670
PP-SS-18-06	4.0	1.1	11.2	2.9	5.0	62.8	8.5	*0.32*	0.25	10800	298	6390
PP-SS-20-06	2.2	0.98	8.8	*0.94*	4.7	25.7	8.1	<0.44	*0.045*	7690	237	5540
PP-SS-22-06	3.8	*0.30*	12.5	*1.2*	13.5	10.2	11.4	*0.33*	0.027	22000	1630	10900
PP-SS-23-12	3.8	*0.81*	19.2	<0.64^	12.2	41.9	13.8	<0.32	0.096	22200	549	12900
PP-SS-24-08	4.5	1.2	29.3	<0.43	5.1	105	8.85	*0.38*	0.091	11900	233	9100
PP-SS-26-06	2.1	0.98	11.5	<1.16^	4.3	40.3	8.81	<0.35	0.062	10300	176	6740
PP-SS-27-06	3.7	0.82	18.4	<0.60	7.7	36.5	14.5	*0.49*	0.067	18000	347	13700
PP-SS-29-01	5.2	*0.18*	28.8	<0.85^	13.0	9.1	13.6	*0.43*	*0.023*	29400	546	12700
PP-SS-32-01	2.8	*0.30*	9.2	<0.77^	8.4	4.82	17.7	*0.32*	<0.0034	14500	309	6350
PP-SS-33-03	3.9	1.1	14.7	<0.95^	11.6	34.5	16.1	*0.50*	0.063	21600	712	10400
PP-SS-34-01	2.7	*0.4*	10.7	*0.51*	13.6	5.1	26.3	*0.34*	*0.0039*	17100	499	7360
PP-SS-36-01	2.0	0.88	6.0	<0.93^	5.3	15.3	4.7	<0.28	0.054	8630	365	4200
PP-SS-37-01	2.2	0.88	7.6	*0.71*	6.2	26.0	6.0	*0.34*	0.072	10400	501	5150
PP-SS-38-01	2.6	0.96	8.7	*0.52*	7.3	34.6	8.0	*0.38*	0.095	12700	492	6070
PP-SS-39-01	2.6	0.39	7.8	<0.98^	7.2	31.7	5.8	<0.29	0.049	10600	418	4890
PP-SS-40-03	1.4	*0.31*	6.1	<0.99^	4.7	17.7	5.0	<0.29	0.045	8220	269	4290
PP-SS-41-03	2.3	*0.37*	11.2	<0.37	7.0	37.7	7.6	<0.28	0.048	12600	349	5740
PP-SS-42-01	*5.9*	*4.1*	11.5	<0.41	8.8	66.4	11.3	<3.1	0.083	14900	557	7240
PP-SS-42-01 (Dup)	*6.0*	*4.3*	9.5	<0.41	8.5	71.4	8.7	<3.1	0.076	13400	598	6560
PP-SS-43-01	10.7	8.9	26.8	<0.43	20.7	169	27.2	*3.5*	0.11	35100	1460	17200
PP-SS-44-01	*3.5*	*2.5*	9.8	<0.43	8.3	137	9.5	<3.2	0.10	14200	555	5760
Background Estimate	8.8	0.63	76	NA	33	79	47	0.71	0.23	36100	1800	52300
Background Range	2.4 - 9.5	0.15 - 0.82	20 - 84	NA	4.1 - 151	6.9 - 100	13 - 49	0.2 - 1.1	0.02 - 0.23	16,350- 59,850	150 - 1,960	13,750 - 54,
DEQ Screening Value	0.43	78	120000	0.3	23	400	1500	390	23	55000	1800	77000
ATSDR Screening Value	15	5	75000	45	500	NA	1000	250	15	NA	2500	50000
90th UCL on Mean [1]	5.1	4	16	TBD	10	97	15	0.92	0.09	18910	641	9663
95th UCL on Mean	5.3	4.7	17	TBD	11	106	15	0.99	0.1	19452	669	9979

1- Averages estimated as upper confidence limits on mean of surface samples only using using US EPA ProUCL software version 5.0. Rounded to two significant digits.
NA- Not Available - No Screening value from this source.

Estimated Data between the MDL and MRL (J Flag)

Raised reporting limit due to matrix

[a]Cr+6 analyzed by EPA 7199 unless otherwise noted
^ = Analyzed by EPA 7196A (colorimetric)
* = Anlyzed by Weck Laboratories

Table XX at Powell Park
Mulch samples
(mg/kg wet weight)

SampleID	Latitude	Longitude	As	Cd	Cr	Cr+6[a]	Co	Pb	Ni	Se	Hg	Fe	Mn	Al
PP-SS-13-01	45.49731	-122.64046	*0.083*	<0.08	<0.27	< 0.64^	*0.19*	1.2	0.30	<0.19	<0.0028	291	15.6	97.9
PP-SS-17-01	45.49738	-122.64036	0.10	<0.08	0.75	< 0.255	*0.17*	1.6	0.55	<0.19	<0.0028	421	16.7	222
PP-SS-19-01	45.49755	-122.64029	0.055	<0.08	<0.27	< 0.255	<0.13	0.91	*0.42*	<0.19	<0.0028	213	8.72	111
PP-SS-21-01	45.49743	-122.64062	*0.14*	*0.31*	0.54	< 0.255	0.54	1.8	0.59	<0.19	*0.0039*	612	59.4	270
PP-SS-24-01	45.49744	-122.64072	*0.11*	< 0.08	0.34	< 0.255	*0.17*	1.4	*0.37*	<0.19	<0.0028	504	12.2	237
Background Estimate			8.8	0.63	76	NA	33	79	47	0.71	0.23	36100	1800	52300
Background Range			2.4 - 9.5	0.15 - 0.82	20 - 84	NA	4.1 - 151	6.9 - 100	13 - 49	0.2 - 1.1	0.02 - 0.23	16,350- 59,850	150 - 1,960	13,750 - 54
DEQ Screening Value			0.43	78	120000	0.3	23	400	1500	390	23	55000	1800	77000
ATSDR Screening Value			15	5	75000	45	500	NA	1000	250	15	NA	2500	50000
90th UCL on Mean [1]			5.1	4	16	TBD	10	97	15	0.92	0.09	18910	641	9663
95th UCL on Mean			5.3	4.7	17	TBD	11	106	15	0.99	0.1	19452	669	9979

1- Averages estimated as upper confidence limits on mean of surface samples only using using US EPA ProUCL software version 5.0. Rounded to two significant digits.
NA- Not Available - No Screening value from this source.

Estimated Data between the MDL and MRL (J Flag)

[a]Cr+6 analyzed by EPA 7199 unless otherwise noted
^ = Analyzed by EPA 7196A (colorimetric)

Table XX at CCLC Day Care
(mg/kg dry weight)

SampleID	Latitude	Longitude	As	Cd	Cr	Cr+6[a]	Co	Pb	Ni	Se	Hg	Fe	Mn	Al	U
CCLC-SS-14-01	45.49871	-122.64338	3.7	1.5	17.0	*1.6*	8.2	58.3	13.3	*0.84*	0.051	13200	296	6720	
CCLC-SS-17-01	45.49356	-122.64242	8.8	5.2	22.3	<0.46	14.3	105	17.3	1.2	0.051	17800	395	8510	
CCLC-SS-19-01	45.49353	-122.64231	2.5	0.40	7.7	*1.2*	6.2	7.8	7.8	*0.33*	*0.013*	9620	361	4020	
CCLC-SS-21-01	45.49356	-122.64233	3.3	1.3	17.1	3.0	7.9	42.9	10.4	*0.72*	0.039	13400	411	7630	
CCLC-SS-25-01	45.49355	-122.64233	5.9	0.96	16.4	*0.39*	16.7	16.1	10.5	0.70	*0.019*	24300	743	11200	
CCLC-SS-28-01	45.49359	-122.64274	5.3	1.8	16.2	*0.77*	10.5	22.5	9.2	*0.73*	0.026	16300	512	9640	1.
CCLC-SS-30-01	45.49360	-122.64281	6.0	1.7	15.6	<1.1	10.6	18.8	9.0	*0.66*	0.021	19400	567	9170	
CCLC-SS-30-06	45.49360	-122.64281	6.1	1.1	17.5	1.9	11.1	16.0	10.2	*0.51*	0.028	21900	555	11200	
CCLC-SS-34-01	45.49389	-122.64227	5.3	2.1	17.8	*0.28*	8.8	31.3	10.5	*0.74*	*0.025*	15800	429	7520	
CCLC-SS-36-01	45.49384	-122.64233	10.1	2.3	16.2	0.97	9.7	38.7	10.2	0.79	*0.023*	14800	793	7740	1.
CCLC-SS-36-01 (Dup)	45.49384	-122.64233	8	1.7	15.5	1.6	7.8	34.2	9.4	*0.71*	*0.020*	12700	386	7140	1.
CCLC-SS-38-01	45.49364	-122.64281	25.2	4.0	20.5	0.78*	10.2	122	14.7	1.3	0.053	17300	357	8980	1.
CCLC-SS-41-01	45.49385	-122.64292	42.6	5.3	20.2	1.9	8.4	93.3	12.5	1.4	0.023	12600	278	7730	
CCLC-SS-43-01	45.49390	-122.64303	22.4	2.1	19.8	2.6	13.7	21.5	10.1	1.0	0.019	21000	540	11400	1.
CCLC-SS-45-06	45.49385	-122.64292	39.0	4.1	21.7	0.8*	7.2	85.5	15.5	1.0	0.019	11500	254	6670	1.
Background Estimate			8.8	0.63	76	NA	33	79	47	0.71	0.23	36100	1800	52300	3
Background Range			2.4 - 9.5	0.15 - 0.82	20 - 84	NA	4.1 - 151	6.9 - 100	13 - 49	0.2 - 1.1	0.02 - 0.23	16,350- 59,850	150 - 1,960	13,750 - 54,500	NA
DEQ Screening Value			0.43	78	120000	0.3	23	400	1500	390	23	55000	1800	77000	23
ATSDR Screening Value			15	5	75000	45	500	NA	1000	250	15	NA	2500	50000	15
90th UCL on Mean [1]			5.1	4	16	TBD	10	97	15	0.92	0.09	18910	641	9663	N
95th UCL on Mean			5.3	4.7	17	TBD	11	106	15	0.99	0.1	19452	669	9979	N

1- Averages estimated as upper confidence limits on mean of surface samples only using using US EPA ProUCL software version 5.0. Rounded to two significant digits.
NA- Not Available - No Screening value from this source.

Estimated Data between the MDL and MRL (J Flag)

[a]Cr+6 analyzed by EPA 7199 unless otherwise noted
^ = Analyzed by EPA 7196A (colorimetric)
* = Anlyzed by Weck Laboratories

Table XX at Fred Meyer
(mg/kg dry weight)

SampleID	Latitude	Longitude	As	Cd	Cr	Cr+6[a]	Co	Pb	Ni	Se	Hg	Fe	Mn	Al	U
FM-SS-01-01	45.49740	-122.64328	*4.2*	7.7	*7.4*	<0.39	9.7	24.0	6.6	<2.9	0.041	9640	550	3270	< 1.2
FM-SS-02-01	45.49724	-122.64324	*3.8*	*3.6*	11.1	<0.35	16.6	21.5	16.5	<2.6	*0.023*	16300	772	6560	<1.1
FM-SS-02-06	45.49724	-122.64324	*1.5*	<0.93	7.9	<0.75^	18.1	5.74	18.5	<2.2	*0.0070*	15200	716	6830	
FM-SS-03-01	45.49718	-122.64334	*1.9*	<0.96	8.9	<0.77^	16.1	*4.7*	12.8	<2.3	*0.0049*	15300	652	6320	
FM-SS-03-06	45.49718	-122.64334	*1.5*	<0.94	6.3	<0.75^	12.8	*4.3*	10.9	<2.2	*0.0049*	12700	586	5900	
FM-SS-03-06 (Dup)	45.49718	-122.64334	*1.6*	<0.95	7.5	<0.76^	15.6	*4.7*	12.6	<2.3	*0.0055*	14300	713	6400	
FM-SS-04-01	45.49692	-122.64335	7.0	15.0	63	2.0	56.9	40.2	26.2	*3.3*	*0.022*	50900	2230	18100	
FM-SS-05-01	45.49673	-122.64341	*1.9*	*2.5*	8.4	<0.31	14.2	*4.2*	21.7	<2.3	*0.0082*	16100	548	7010	
FM-SS-06-01	45.49657	-122.64335	*2.7*	*2.9*	8.6	<0.79^	19.9	9.1	22.2	< 2.4	*0.016*	18200	787	7350	
FM-SS-07-01	45.49640	-122.64337	*2.4*	*4.5*	8.6	<0.34	14.3	7.8	24.7	<2.5	*0.0098*	16200	738	6850	
FM-SS-08-03	45.49612	-122.64338	*6.8*	*7.5*	18.3	<0.52	10.4	39.2	10.8	<3.9	0.059	18200	512	8830	
FM-SS-09-03	45.49586	-122.64336	12.2	*8.4*	24.5	<0.49	*7.5*	47.4	6.7	<3.7	0.10	13700	307	5860	
FM-SS-10-01	45.49618	-122.64320	7.0	*2.1*	15.7	<0.87^	9.4	63.1	10.7	<2.6	0.038	23600	432	9960	
FM-SS-11-01	45.49503	-122.64338	*7.6*	12.2	15.0	<1.0^	12.5	45.0	11.7	*4.4*	0.055	19400	552	9320	
FM-SS-12-06	45.49520	-122.64333	*4.5*	<1.0	13.2	1.6	13.5	19.5	9.3	<2.5	*0.026*	15300	775	8270	
FM-SS-12-01	45.49520	-122.64333	9.2	7.5	22.0	<0.34	25.8	33.4	12.9	<2.5	0.033	36400	1440	11500	
FM-SS-13-01	45.49719	-122.64246	*3.6*	<0.96	14.4	<0.79^	70.4	10.2	31.8	<2.3	*0.0056*	34400	1830	12600	
FM-SS-14-01	45.49667	-122.64183	*5.8*	*1.4*	20.5	<0.32	26.3	24.4	40.2	<2.4	0.026	32600	961	14100	
FM-SS-15-01	45.49643	-122.64248	5.9	*1.1*	16.0	<0.73^	20.9	73.5	23.5	<2.2	0.079	24600	817	8200	
FM-SS-16-01	45.49585	-122.64217	*5.2*	<1.1	12.5	<0.35	12.1	25.2	16.7	<2.6	0.042	22600	551	9930	
FM-SS-17-01	45.49649	-122.64122	*3.5*	<0.98	15.5	<0.31	20.0	*5.6*	38.4	<2.3	*0.0072*	30100	771	12600	
FM-SS-18-01	45.49655	-122.64008	7.6	<1.0	18.2	*0.87*	13.5	29.3	15.4	<2.4	0.055	27200	555	14800	
Background Estimate			8.8	0.63	76	NA	33	79	47	0.71	0.23	36100	1800	52300	3
Background Range			2.4 - 9.5	0.15 - 0.82	20 - 84	NA	4.1 - 151	6.9 - 100	13 - 49	0.2 - 1.1	0.02 - 0.23	16,350- 59,850	150 - 1,960	13,750 - 54,500	NA
DEQ Screening Value			0.43	78	120000	0.3	23	400	1500	390	23	55000	1800	77000	230
ATSDR Screening Value			15	5	75000	45	500	NA	1000	250	15	NA	2500	50000	150
90th UCL on Mean [1]			5.1	4	16	TBD	10	97	15	0.92	0.09	18910	641	9663	NC
95th UCL on Mean			5.3	4.7	17	TBD	11	106	15	0.99	0.1	19452	669	9979	NC

1- Averages estimated as upper confidence limits on mean of surface samples only using using US EPA ProUCL software version 5.0. Rounded to two significant digits.
NA- Not Available - No Screening value from this source.

[a]Cr+6 analyzed by EPA 7199 unless otherwise noted

Estimated Data between the MDL and MRL (J Flag)

Raised reporting limit due to matrix

^ = Analyzed by EPA 7196A (colorimetric)

To: McClintock, Katie[McClintock.Katie@epa.gov]; Matthews, Julie[Matthews.Juliane@epa.gov]
Cc: Hastings, Janis[Hastings.Janis@epa.gov]; Holsman, Marianne[Holsman.Marianne@epa.gov]; Downey, Scott[Downey.Scott@epa.gov]; Fleming, Sheila[fleming.sheila@epa.gov]; Kowalski, Ed[Kowalski.Edward@epa.gov]
From: Moon, Wally
Sent: Tue 3/1/2016 2:54:54 PM
Subject: RE: Clean Air In Portland

Thank you Katie.

Wally Moon | Manager

U.S. Environmental Protection Agency | Region 10

Office of Environmental Cleanup – Emergency Management Program

Emergency Preparedness and Prevention Unit

p: 206.553.6323 | c: 206.419.2682 | moon.wally@epa.gov

From: McClintock, Katie
Sent: Monday, February 29, 2016 10:18 PM
To: Matthews, Julie <Matthews.Juliane@epa.gov>
Cc: Hastings, Janis <Hastings.Janis@epa.gov>; Holsman, Marianne <Holsman.Marianne@epa.gov>; Downey, Scott <Downey.Scott@epa.gov>; Fleming, Sheila <fleming.sheila@epa.gov>; Moon, Wally <Moon.Wally@epa.gov>; Kowalski, Ed <Kowalski.Edward@epa.gov>
Subject: RE: Clean Air In Portland

I just talked to Dave Monro and he said they received a Notice of Intent to Construct from Precision Cast Parts recently. PCP is acting proactively based upon the nickel hotspot around their facility (which is the basis for the letter below). It sounds like they will be using cyclones, baghouses, and then hepa filters in sequence. I am not sure what we would communicate to the public, but I wanted you to be aware of the issue and what is going on with it.

Katie

From: Matthews, Julie
Sent: Monday, February 29, 2016 1:40 PM
To: McClintock, Katie <McClintock.Katie@epa.gov>
Subject: Fwd: Clean Air In Portland

Sent from my iPhone

Begin forwarded message:

From: "Hastings, Janis" <Hastings.Janis@epa.gov>
Date: February 29, 2016 at 11:45:35 AM PST
To: "Moon, Wally" <Moon.Wally@epa.gov>, "Downey, Scott" <Downey.Scott@epa.gov>
Cc: "Holsman, Marianne" <Holsman.Marianne@epa.gov>, "Smith, Judy" <Smith.Judy@epa.gov>, "Barber, Anthony" <Barber.Anthony@epa.gov>, "Matthews, Julie" <Matthews.Juliane@epa.gov>, "Fleming, Sheila" <fleming.sheila@epa.gov>, "Kowalski, Ed" <Kowalski.Edward@epa.gov>
Subject: FW: Clean Air In Portland

Hi, Scott and Wally. Tony has been providing responses to citizen letters, and I'll send you his most recent response. The email below however is specifically "requesting that emergency air monitoring and soil testing begin immediately in all hotspots of Portland."

Questions:

?□□□□□□ Ed, Wally - Do you want to provide Tony with input for him to respond, or will you be taking the lead on this particular response?

?□□□□□□ Marianne/Judy – Does this need to be logged in as controlled correspondence? I just saw that the same email went to Dennis.

Thanks,
Jan

From: Ex. 6 - Personal Privacy
Sent: Monday, February 29, 2016 10:58 AM
To: Hastings, Janis <Hastings.Janis@epa.gov>
Subject: Clean Air In Portland

Hello Ms. Hastings,

As a resident in a hotspot of SE Portland, I want to ask that the DEQ, or a privately hired company, immediately start emergency air monitoring and soil testing of all hotspots that have been identified in Southeastern Portland as well as North and Northeastern Portland.

Understandably, Bullseye and Uroboros Glass have received a great deal of attention and focus because of the testing results in those two areas, yet they are not the only two hotspots that exist in Eastern Portland. We urgently need data about soil content and airborne toxins in all hotspots of Portland now.

Residents of north and northeast Portland, including those in the Rose City Park neighborhood, want investigation of their area. It is urgent to assess the conditions there, and the possibility that yet another glass company has existed there. Residents of other parts of SE Portland, particularly those that live near Precision Cast Parts, believe their situation needs more attention and urgent assistance as well.

Arsenic, nickel, lead, cadmium, chromium, and other pollutants need to be studied further immediately to determine their level of health threat to ALL residents of Portland equally. Every hotspot particularly needs assistance to monitor air and soil quality so that problem solving can take place and solutions can be developed and implemented.

Once again, I am requesting that emergency air monitoring and soil testing begin immediately in all hotspots of Portland and that all areas and residents be protected and treated equally.

Thank you very much for your time.

Sincerely,

Ex. 6 - Personal Privacy

Sent from my iPhone

To: Matthews, Julie[Matthews.Juliane@epa.gov]
Cc: Hastings, Janis[Hastings.Janis@epa.gov]; Holsman, Marianne[Holsman.Marianne@epa.gov]; Downey, Scott[Downey.Scott@epa.gov]; Fleming, Sheila[fleming.sheila@epa.gov]; Moon, Wally[Moon.Wally@epa.gov]; Kowalski, Ed[Kowalski.Edward@epa.gov]
From: McClintock, Katie
Sent: Tue 3/1/2016 6:18:05 AM
Subject: RE: Clean Air In Portland

I just talked to Dave Monro and he said they received a Notice of Intent to Construct from Precision Cast Parts recently. PCP is acting proactively based upon the nickel hotspot around their facility (which is the basis for the letter below). It sounds like they will be using cyclones, baghouses, and then hepa filters in sequence. I am not sure what we would communicate to the public, but I wanted you to be aware of the issue and what is going on with it.

Katie

From: Matthews, Julie
Sent: Monday, February 29, 2016 1:40 PM
To: McClintock, Katie <McClintock.Katie@epa.gov>
Subject: Fwd: Clean Air In Portland

Sent from my iPhone

Begin forwarded message:

From: "Hastings, Janis" <Hastings.Janis@epa.gov>
Date: February 29, 2016 at 11:45:35 AM PST
To: "Moon, Wally" <Moon.Wally@epa.gov>, "Downey, Scott" <Downey.Scott@epa.gov>
Cc: "Holsman, Marianne" <Holsman.Marianne@epa.gov>, "Smith, Judy" <Smith.Judy@epa.gov>, "Barber, Anthony" <Barber.Anthony@epa.gov>, "Matthews, Julie" <Matthews.Juliane@epa.gov>, "Fleming, Sheila" <fleming.sheila@epa.gov>, "Kowalski, Ed" <Kowalski.Edward@epa.gov>
Subject: FW: Clean Air In Portland

Hi, Scott and Wally. Tony has been providing responses to citizen letters, and I'll send you his most recent response. The email below however is specifically "requesting that emergency air monitoring and soil testing begin immediately in all hotspots of Portland."

Questions:

?□□□□□□□□ Ed, Wally - Do you want to provide Tony with input for him to respond, or will you be taking the lead on this particular response?

?□□□□□□□□ Marianne/Judy – Does this need to be logged in as controlled correspondence? I just saw that the same email went to Dennis.

Thanks,
Jan

From: Ex. 6 - Personal Privacy
Sent: Monday, February 29, 2016 10:58 AM
To: Hastings, Janis <Hastings.Janis@epa.gov>
Subject: Clean Air In Portland

Hello Ms. Hastings,

As a resident in a hotspot of SE Portland, I want to ask that the DEQ, or a privately hired company, immediately start emergency air monitoring and soil testing of all hotspots that have been identified in Southeastern Portland as well as North and Northeastern Portland.

Understandably, Bullseye and Uroboros Glass have received a great deal of attention and focus because of the testing results in those two areas, yet they are not the only two hotspots that exist in Eastern Portland. We urgently need data about soil content and airborne toxins in all hotspots of Portland now.

Residents of north and northeast Portland, including those in the Rose City Park neighborhood, want investigation of their area. It is urgent to assess the conditions there, and the possibility that yet another glass company has existed there. Residents of other parts of SE Portland, particularly those that live near Precision Cast Parts, believe their situation needs more attention and urgent assistance as well.

Arsenic, nickel, lead, cadmium, chromium, and other pollutants need to be studied further immediately to determine their level of health threat to ALL residents of Portland equally. Every hotspot particularly needs assistance to monitor air and soil quality so that problem solving can take place and solutions can be developed and implemented.

Once again, I am requesting that emergency air monitoring and soil testing begin immediately in all hotspots of Portland and that all areas and residents be protected and treated equally.

Thank you very much for your time.

Sincerely,

Ex. 6 - Personal Privacy

Sent from my iPhone

To: Katie McClintock[McClintock.Katie@epa.gov]
From: Downey, Scott
Sent: Mon 2/29/2016 11:24:06 PM
Subject: Emails you didn't receive today
FW: Clean Air In Portland
FW: Reply to your email to the EPA
Re: Clean Air In Portland

To: McClintock, Katie[McClintock.Katie@epa.gov]
From: Downey, Scott
Sent: Sun 2/28/2016 2:45:46 AM
Subject: Re: Spectrum records

Right, if they won't mail like others do ask them to bring the records into the office. If they refuse and we need them urgently let me know.

Sent from my EPA iPhone

> On Feb 26, 2016, at 3:52 PM, McClintock, Katie <McClintock.Katie@epa.gov> wrote:
>
> Spectrum has the records ready. They don't want to mail it and asked if we could pick up. I had offered to do other time to speed up but I think I should tell them they need to hand deliver to Seattle if they don't want to mail, yes? It is a bad precedent to us to drive around picking up records
>
> Sent from my iPhone

To: Downey, Scott[Downey.Scott@epa.gov]
From: McClintock, Katie
Sent: Fri 2/26/2016 11:52:19 PM
Subject: Spectrum records

Spectrum has the records ready. They don't want to mail it and asked if we could pick up. I had offered to do other time to speed up but I think I should tell them they need to hand deliver to Seattle if they don't want to mail, yes? It is a bad precedent to us to drive around picking up records

Sent from my iPhone

To: Downey, Scott[Downey.Scott@epa.gov]
From: McClintock, Katie
Sent: Fri 2/26/2016 12:16:15 AM
Subject: Re: Notes for 2/25/16 RMT call

Thanks for sending. Very useful info

Sent from my iPhone

On Feb 25, 2016, at 4:07 PM, Downey, Scott <Downey.Scott@epa.gov> wrote:

FYI

From: Koprowski, Paul
Sent: Thursday, February 25, 2016 3:58 PM
To: Downey, Scott <Downey.Scott@epa.gov>
Subject: FW: Notes for 2/25/16 RMT call

An interesting call this week. See notes below. I've been keeping them updated as Dave is busy with the glass situation.

I also want to let you know that Nina called to say they received a records request and they will have to release that initial report from Katie about her visit to Bullseye that ORC approved us sharing with ODEQ. I'll let the attorney know as well.

Paul

Paul Koprowski

U.S. EPA; Oregon Operations Office

805 SW Broadway, Suite 500

Portland, Oregon 97205

(503) 326-6363

From: Max Hueftle [mailto:max@lrapa.org]
Sent: Thursday, February 25, 2016 11:39 AM
To: PALERMO Jaclyn <PALERMO.Jaclyn@deq.state.or.us>; ebersole.gerald@deq.state.or.us; DAVIS Claudia <DAVIS.Claudia@deq.state.or.us>; BAILEY Mark <Bailey.Mark@deq.state.or.us>; Koprowski, Paul <Koprowski.Paul@epa.gov>
Cc: [All DEQ] AQ RMT <AQRMT@deq.state.or.us>
Subject: RE: Notes for 2/25/16 RMT call

Metals Update

Paul gave an update on the PDX metals issue. Soil sampling has occurred and the data is being analyzed. Air monitoring is being conducted and EPA has provided 5 monitors to replace some of DEQ's that had broken. Washington state is performing screening-level modeling in lieu of (expensive) monitoring to evaluate metals sources.

Max requested that Lane County be included in the DEQ search for suppliers, sources and users of metals and Jaclyn confirmed that the search will be statewide including Lane County. Jaclyn has found that the state Fire Marshall's database of usages has been very useful in determining potential sources of metals, etc. The database does have a minimum reporting threshold so there is a bit of a gap (on the order of 5-10 lbs for solids and liquids).

LRAPA visited one of the larger glass manufacturers in Eugene called Aurora glass. They report using about 15-25 lbs/year of manganese (Mn) and cobalt (Co) each. The facility has an electric-powered furnace that exhausts internally to their building so it may be more of an OSHA issue than an ambient.

DEQ has an e-mail address that staff should be using to refer citizen concerns that stem from the PDX metals issue so that a consistent message can be provided. The email should not be used for referring media inquiries. Claudia wanted clarification whether or not toxics questions about specific facilities (outside of the PDX area) should also be forwarded to that email address and Jaclyn thought that, yes, they should if they arise as a result of the PDX metals issue. Jaclyn will forward the e-mail address to the RMT.

Chrome Plating General ACDP Renewal

Jill wants a regional team to be formed for review/comment on the draft General ACDP for chrome plating. WR doesn't have any experienced staff since John Taylor left.

Hollingsworth and Vose

The governor received a letter from a citizen concerned that H&V may have a similar risk as that of Bullseye glass. The facility does emit some cadmium (Cd) from the refractory in their furnace. One issue being researched is whether the particulate from glass fibers is unique in its risk. There is no apparent test method that can differentiate between "normal" particulate and that of glass fiber particulate.

Tribes to More Involved in AQ Commenting

Claudia had a good and productive conversation with regional tribal representatives who indicate an interest in being more involved with commenting on pertinent permitting issues.

SB705 Asbestos Rulemaking

Claudia received an email suggesting that DEQ should go "way above and beyond" SB705 in the permanent rulemaking so that it be sufficiently protective given all the issues/implications regarding the PDX metals issue.

Marijuana Odor Web Content

Tom Roick was awaiting a person to designate on the web for this issue and Claudia said it is Alex Hamilton of the Salem office.

From: PALERMO Jaclyn [mailto:PALERMO.Jaclyn@deq.state.or.us]
Sent: Wednesday, February 24, 2016 12:26 PM
To: EBERSOLE Gerald <EBERSOLE.Gerald@deq.state.or.us>; Max Hueftle <max@lrapa.org>; DAVIS Claudia <DAVIS.Claudia@deq.state.or.us>; BAILEY Mark

<Bailey.Mark@deq.state.or.us>
Subject: RMT agenda item call

Do you have any topics for the RMT call tomorrow? So far I have one. There has been a request to add a discussion regarding Chrome permits to the agenda. Please let me know if there are any other topics.

Thanks,

Jaclyn

To: Katie McClintock[McClintock.Katie@epa.gov]
From: Downey, Scott
Sent: Fri 2/26/2016 12:07:54 AM
Subject: FW: Notes for 2/25/16 RMT call

FYI

From: Koprowski, Paul
Sent: Thursday, February 25, 2016 3:58 PM
To: Downey, Scott <Downey.Scott@epa.gov>
Subject: FW: Notes for 2/25/16 RMT call

An interesting call this week. See notes below. I've been keeping them updated as Dave is busy with the glass situation.

I also want to let you know that Nina called to say they received a records request and they will have to release that initial report from Katie about her visit to Bullseye that ORC approved us sharing with ODEQ. I'll let the attorney know as well.

Paul

Paul Koprowski

U.S. EPA; Oregon Operations Office

805 SW Broadway, Suite 500

Portland, Oregon 97205

(503) 326-6363

From: Max Hueftle [mailto:max@lrapa.org]
Sent: Thursday, February 25, 2016 11:39 AM
To: PALERMO Jaclyn <PALERMO.Jaclyn@deq.state.or.us>; ebersole.gerald@deq.state.or.us;

DAVIS Claudia <DAVIS.Claudia@deq.state.or.us>; BAILEY Mark <Bailey.Mark@deq.state.or.us>; Koprowski, Paul <Koprowski.Paul@epa.gov>
Cc: [All DEQ] AQ RMT <AQRMT@deq.state.or.us>
Subject: RE: Notes for 2/25/16 RMT call

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Jaclyn

To: McClintock, Katie[McClintock.Katie@epa.gov]; Downey, Scott[Downey.Scott@epa.gov]; Leefers, Kristin[Leefers.Kristin@epa.gov]; Matthews, Julie[Matthews.Juliane@epa.gov]
Cc: Hedgpeth, Zach[Hedgpeth.Zach@epa.gov]
From: Hedgpeth, Zach
Sent: Tue 2/23/2016 7:33:41 PM
Subject: Hedgpeth, Zach has shared '_2016 Bullseye PCE'

Hi Folks,

Here's a link to the draft inspection report for Bullseye. Please review/comment using track changes in the sharepoint version, and I'll work to finalize when I return to the office on March 3. At that point, I'll also get working on the reports for our inspections at Uroboros and Spectrum.

Ex. 6 - Personal Privacy

Thanks!
Zach

Go to _2016 Bullseye PCE

To: McClintock, Katie[McClintock.Katie@epa.gov]; Davies, Lauris[Davies.Lauris@epa.gov]; Brownell, Creagh[Brownell.Creagh@epa.gov]; Downey, Scott[Downey.Scott@epa.gov]
From: Kowalski, Ed
Sent: Sun 2/21/2016 3:52:01 AM
Subject: RE: Travelling to Portland on Monday morning

Katie, I authorize your travel. Plan on going and we will have to let the paperwork catch up with you.

Edward J. Kowalski

Director

Office of Compliance and Enforcement

EPA Region 10

Seattle, WA 98101

(206) 553-6695

From: McClintock, Katie
Sent: Saturday, February 20, 2016 2:18 PM
To: Kowalski, Ed <Kowalski.Edward@epa.gov>; Davies, Lauris <Davies.Lauris@epa.gov>; Brownell, Creagh <Brownell.Creagh@epa.gov>; Downey, Scott <Downey.Scott@epa.gov>
Subject: Travelling to Portland on Monday morning

OR has asked that I attend the meeting with Bullseye on Monday afternoon. I agree that my participation would be useful. The purpose of this meeting is to discuss the chemistry involved in the melting and how that effects hexavalent chromium. Since they plan to start up no later than Friday, this information is crucial to OR determining their path forward (and us helping and supporting that path).

Tricky thing is I don't know how to manage this with travel approval. I have reserved an EPA car for Monday and Tuesday and would plan to leave Monday at 7am. Can we make this work? I've also reserved a hotel in Portland but couldn't find a per diem rate near where I want to be for the meetings.

I hope someone is checking email and can tell me if I should go Monday morning at 7am.

Here is the trip cost info:

Hotel – 171 (per diem is 155) + tax – I only called a few hotels but couldn't get per diem nearby the meeting and the office where I might go the next day.

Parking – 30

Gas- do I have to count this?

Per diem

Katie McClintock

Air Enforcement Officer

EPA Region 10

1200 Sixth Avenue, Suite 900, OCE-101

Seattle, WA 98101

Phone: 206-553-2143

Fax: 206-553-4743

Mcclintock.katie@epa.gov

To: Kowalski, Ed[Kowalski.Edward@epa.gov]; Davies, Lauris[Davies.Lauris@epa.gov]; Brownell, Creagh[Brownell.Creagh@epa.gov]; Downey, Scott[Downey.Scott@epa.gov]
From: McClintock, Katie
Sent: Sat 2/20/2016 10:17:35 PM
Subject: Travelling to Portland on Monday morning

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Fax: 206-553-4743

Mcclintock.katie@epa.gov

To: Downey, Scott[Downey.Scott@epa.gov]; McClintock, Katie[McClintock.Katie@epa.gov]
Cc: Owens, Katharine[Owens.Katharine@epa.gov]
From: Narvaez, Madonna
Sent: Fri 2/19/2016 5:04:06 PM
Subject: RE: call to discuss data received by bullseye

Does that mean I shouldn't be on the calls either?

From: Downey, Scott
Sent: Thursday, February 18, 2016 10:19 PM
To: McClintock, Katie <McClintock.Katie@epa.gov>
Cc: Narvaez, Madonna <Narvaez.Madonna@epa.gov>; Owens, Katharine <Owens.Katharine@epa.gov>
Subject: Re: call to discuss data received by bullseye

I agree with Katie M. Our current approach is to serve in a supporting role to the State and I think the expectation is for limited EPA participation. Appreciate all that Katie O. and OAWT are doing for sure, and this is absolutely no slight! Scott

Sent from my EPA iPhone

On Feb 18, 2016, at 7:20 PM, McClintock, Katie <McClintock.Katie@epa.gov> wrote:

> I'm a little concerned about too much R10 participation. WE have very tenuous relationships regarding our involvement and it is surprising to me that we have been invited for this meeting. I think it really only happened because of our offer of technical experts. I would rather less people and fill in. This is no diss to Katie, I think it all comes down to numbers. I think we should have as few epa people as necessary to get the info we need from this meeting. I'm cc'ing scott for his thoughts on this.

> -----Original Appointment-----
> **From:** Narvaez, Madonna
> **Sent:** Thursday, February 18, 2016 5:08 PM
> **To:** McClintock, Katie
> **Cc:** Owens, Katharine
> **Subject:** Accepted: call to discuss data received by bullseye
> **When:** Friday, February 19, 2016 9:30 AM-10:00 AM (UTC-08:00) Pacific Time (US & Canada).
> **Where:** Ex. 6 - Personal Privacy, code: Ex. 6 - Personal Privacy

I plan to be on the calls. I would like to invite Katie, because then she can compare what she saw yesterday to what processes Bullseye describes tomorrow. Thanks!

To: McClintock, Katie[McClintock.Katie@epa.gov]
Cc: Narvaez, Madonna[Narvaez.Madonna@epa.gov]; Owens, Katharine[Owens.Katharine@epa.gov]
From: Downey, Scott
Sent: Fri 2/19/2016 6:19:12 AM
Subject: Re: call to discuss data received by bullseye

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To: Narvaez, Madonna[Narvaez.Madonna@epa.gov]
Cc: Owens, Katharine[Owens.Katharine@epa.gov]; Downey, Scott[Downey.Scott@epa.gov]
From: McClintock, Katie
Sent: Fri 2/19/2016 3:20:46 AM
Subject: RE: call to discuss data received by bullseye

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To: Kowalski, Ed[Kowalski.Edward@epa.gov]
Cc: Downey, Scott[Downey.Scott@epa.gov]; Matthews, Julie[Matthews.Juliane@epa.gov]
From: McClintock, Katie
Sent: Thur 2/18/2016 10:37:58 PM
Subject: RE: update on conversation with Oregon DOJ??

Thanks Ed. I forwarded you the email from Paul as well but we have been officially invited to the meeting. It will be interesting and I'll update everyone afterwards.

Katie

From: Kowalski, Ed
Sent: Thursday, February 18, 2016 1:08 PM
To: McClintock, Katie <McClintock.Katie@epa.gov>
Cc: Downey, Scott <Downey.Scott@epa.gov>; Matthews, Julie <Matthews.Juliane@epa.gov>
Subject: RE: update on conversation with Oregon DOJ??

As of our call yesterday, Paul had an oral agreement through this Friday with Bullseye not to use arsenic, cadmium or chromium in their process. They are taking them at their word and have not discussed any kind of verification process. He has not been asked by ODEQ to participate in any discussions with Uroborus, whom he understands has been consistently cooperative. I think ODEQ asked him to get involved with Bullseye because they are lawyered up (Perkins) and have been more aggressive. He did mention they were all still trying to figure out how to calculate the amount of hex chromium that may be emitted in the process. I think he cited that Bullseye uses cadmium in about 20% of its process, but chromium in 80%, so they are pushing back most aggressively on not using it.

I emphasized the importance of getting any commitment in writing with some kind of verification mechanism. He is meeting with the company again on Friday, but had not thought through his strategy for how he was going to approach the meeting. He thinks he has several legal tools he can use: the MAO process, emergency order authority (sounds broader than ours), amending the permit or even revoking the permit. Ex. 5 - Deliberative Process Ex. 5 - Deliberative Process Ex. 5 - Deliberative Process I asked him to report back after the meeting.

I also gave him your name as our technical lead. He thought Dave Munro might be reaching out

to invite you to the meeting with Bullseye. I told him I thought you would welcome that.

Edward J. Kowalski

Director

Office of Compliance and Enforcement

EPA Region 10

Seattle, WA 98101

(206) 553-6695

From: McClintock, Katie
Sent: Thursday, February 18, 2016 9:00 AM
To: Kowalski, Ed <Kowalski.Edward@epa.gov>
Cc: Downey, Scott <Downey.Scott@epa.gov>; Matthews, Julie <Matthews.Juliane@epa.gov>
Subject: update on conversation with Oregon DOJ??

Hi Ed,

I heard that you were able to connect with Paul Garrahan. If you have time, I'd love an update either in writing or by phone (I have some time between 11-12 and 1-3).

Katie McClintock

Air Enforcement Officer

EPA Region 10

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Phone: 206-553-2143

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Mcclintock.katie@epa.gov

To: Downey, Scott[Downey.Scott@epa.gov]; Kowalski, Ed[Kowalski.Edward@epa.gov]
From: McClintock, Katie
Sent: Thur 2/18/2016 10:13:16 PM
Subject: FW: Friday Bullseye glass meeting and pre-meeting

I plan to call in and listen (not actively participate). I think EPA's active role will be from our OAQPS folks about chrome.

From: Garrahan Paul [mailto:Paul.Garrahan@doj.state.or.us]
Sent: Thursday, February 18, 2016 1:23 PM
To: DAVIS George <George.DAVIS@state.or.us>; PEDERSEN Dick <Dick.PEDERSEN@state.or.us>; GOLDFARB Gabriela * GOV (Gabriela.GOLDFARB@oregon.gov) <Gabriela.GOLDFARB@oregon.gov>; MONRO David <David.MONRO@state.or.us>; DAVIS George <George.DAVIS@state.or.us>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; Doolan, Stephanie <Doolan.Stephanie@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; McCullough, Hugh <McCullough.Hugh@epa.gov>; Johnson, Steffan <johnson.steffan@epa.gov>; ARMITAGE Sarah <Sarah.ARMITAGE@state.or.us>
Cc: DAVIS George <George.DAVIS@state.or.us>; FLYNT Jennifer <Jennifer.FLYNT@state.or.us>; FELDON Leah <Leah.FELDON@state.or.us>; DECONCINI Nina <Nina.DECONCINI@state.or.us>
Subject: RE: Friday Bullseye glass meeting and pre-meeting

Regarding Bullseye's reaction to EPA's participation, I have already told their attorney that we were hoping to have some EPA technical experts join us by telephone and he raised no objections to that.

Paul Garrahan

Oregon Department of Justice

971.673.1943 (Tue, Thu, Fri) (Portland)

503.947.4593 (Mon, Wed) (Salem)

503.929.7553 (Mobile)

From: DAVIS George [mailto:george.davis@state.or.us]
Sent: Thursday, February 18, 2016 1:14 PM

To: PEDERSEN Dick; GOLDFARB Gabriela * GOV (Gabriela.GOLDFARB@oregon.gov); MONRO David; DAVIS George; Narvaez, Madonna; Doolan, Stephanie; McClintock, Katie; McCullough, Hugh; Johnson, Steffan; ARMITAGE Sarah
Cc: DAVIS George; FLYNT Jennifer; FELDON Leah; DECONCINI Nina; GARRAHANPaul
Subject: Friday Bullseye glass meeting and pre-meeting

Hello everyone,

In anticipation of the Friday afternoon meeting between Bullseye Glass and their attorneys Perkins Coie (Bullseye/PC), and DEQ, DOJ and the Governor's Office staff, DEQ has scheduled a pre-meeting Friday morning to discuss the Bullseye/PC meeting. We apologize for the late notice, we know many of you have full schedules and won't be able to make it, but we ask that those who can please do so. We don't have an agenda yet, but hope to have something by the time the pre-meeting begins. The main purpose of this email is to get this on your calendars.

Pre-meeting date, time and location: Friday, 2/19, 10:00 am – 12:00 am (hopefully shorter than that) DEQ NWR office (700 NE Multnomah, 6th floor), room 601

We do not have a call-in number set up yet, we'll try to get that done before the pre-meeting and will forward the number to everyone in the morning.

Meeting date, time and location: Friday, 2/19, 2:00 pm – 4:00 pm, Perkins Coie office, 1120 NW Couch St., Portland, 10th floor

We do not have call-in information yet, but understand a call-in line will be set up. Again, we'll forward that information when we get it.

Important odds and ends:

The meeting with Bullseye/PC appears to involve discussion of both technical and non-technical topics. DEQ regards EPA's participation for the technical discussion as critical; however, we don't know how Bullseye/PC will feel about EPA's participation. If they object, we will have to figure out what to do on the fly.

Sarah, we hope you can attend the pre-meeting, and hope you will be able to call in for the afternoon Bullseye/PC meeting.

Possible/probable topics at the Bullseye/PC meeting:

Bullseye/PC requested the following from DEQ:

•□□□□□□□□ To explain how the emissions data links Bullseye as the source of the emissions; and

•□□□□□□□□ To provide the backup laboratory data that supports the air emissions sampling results that have been provided to them.

Suggested goals for the meeting from DEQ side:

•□□□□□□□□ Listen and continue to build a cooperative, effective relationship;

•□□□□□□□□ Provide the information we can to support our concerns about the health impacts of air emissions from Bullseye;

•□□□□□□□□ Secure a longer commitment not to use any chromium, assuming we are not able to resolve the conversion, until we are able to reach a confident conclusion about risks;

•□□□□□□□□ Confirm ongoing commitment not to use cadmium or arsenic;

•□□□□□□□□ Start discussion about whether control technology option exists to control cadmium and arsenic emissions (and chromium, if necessary), or figure out a timeline and next steps toward resolving that question, and a discussion of technical and other state assistance that may be available to that end; and

•□□□□□□□□ If we start to get a sense of a timeline and length of commitments Bullseye and we are making, start talking about documenting our commitments in writing, including a method to monitor to be able to provide public assurances that such agreement is being complied with.

Again, our apologies for the late notice and scant information, we hope to get things better sorted as the time gets closer.

George Davis

DEQ

503-229-5534

*****CONFIDENTIALITY NOTICE*****

This e-mail may contain information that is privileged, confidential, or otherwise exempt from disclosure under applicable law. If you are not the addressee or it appears from the context or otherwise that you have received this e-mail in error, please advise me immediately by reply e-mail, keep the contents confidential, and immediately delete the message and any attachments from your system.

****

To: Downey, Scott[Downey.Scott@epa.gov]
From: McClintock, Katie
Sent: Thur 2/18/2016 9:57:56 PM
Subject: FW: Friday Bullseye glass meeting and pre-meeting

From: Garrahan Paul [mailto:Paul.Garrahan@doj.state.or.us]
Sent: Thursday, February 18, 2016 1:23 PM
To: DAVIS George <George.DAVIS@state.or.us>; PEDERSEN Dick <Dick.PEDERSEN@state.or.us>; GOLDFARB Gabriela * GOV (Gabriela.GOLDFARB@oregon.gov) <Gabriela.GOLDFARB@oregon.gov>; MONRO David <David.MONRO@state.or.us>; DAVIS George <George.DAVIS@state.or.us>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; Doolan, Stephanie <Doolan.Stephanie@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; McCullough, Hugh <McCullough.Hugh@epa.gov>; Johnson, Steffan <johnson.steffan@epa.gov>; ARMITAGE Sarah <Sarah.ARMITAGE@state.or.us>
Cc: DAVIS George <George.DAVIS@state.or.us>; FLYNT Jennifer <Jennifer.FLYNT@state.or.us>; FELDON Leah <Leah.FELDON@state.or.us>; DECONCINI Nina <Nina.DECONCINI@state.or.us>
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Subject: Friday Bullseye glass meeting and pre-meeting

Hello everyone,

In anticipation of the Friday afternoon meeting between Bullseye Glass and their attorneys Perkins Coie (Bullseye/PC), and DEQ, DOJ and the Governor's Office staff, DEQ has scheduled a pre-meeting Friday morning to discuss the Bullseye/PC meeting. We apologize for the late notice, we know many of you have full schedules and won't be able to make it, but we ask that those who can please do so. We don't have an agenda yet, but hope to have something by the time the pre-meeting begins. The main purpose of this email is to get this on your calendars.

Pre-meeting date, time and location: Friday, 2/19, 10:00 am – 12:00 am (hopefully shorter than that) DEQ NWR office (700 NE Multnomah, 6th floor), room 601

We do not have a call-in number set up yet, we'll try to get that done before the pre-meeting and will forward the number to everyone in the morning.

Meeting date, time and location: Friday, 2/19, 2:00 pm – 4:00 pm, Perkins Coie office, 1120 NW Couch St., Portland, 10th floor

We do not have call-in information yet, but understand a call-in line will be set up. Again, we'll forward that information when we get it.

Important odds and ends:

The meeting with Bullseye/PC appears to involve discussion of both technical and non-technical topics. DEQ regards EPA's participation for the technical discussion as critical; however, we don't know how Bullseye/PC will feel about EPA's participation. If they object, we will have to figure out what to do on the fly.

Sarah, we hope you can attend the pre-meeting, and hope you will be able to call in for the afternoon Bullseye/PC meeting.

Possible/probable topics at the Bullseye/PC meeting:

Bullseye/PC requested the following from DEQ:

•□□□□□□□□ To explain how the emissions data links Bullseye as the source of the emissions; and

•□□□□□□□□ To provide the backup laboratory data that supports the air emissions sampling results that have been provided to them.

Suggested goals for the meeting from DEQ side:

•□□□□□□□□ Listen and continue to build a cooperative, effective relationship;

•□□□□□□□□ Provide the information we can to support our concerns about the health impacts of air emissions from Bullseye;

•□□□□□□□□ Secure a longer commitment not to use any chromium, assuming we are not able to resolve the conversion, until we are able to reach a confident conclusion about risks;

•□□□□□□□□ Confirm ongoing commitment not to use cadmium or arsenic;

•□□□□□□□□ Start discussion about whether control technology option exists to control cadmium and arsenic emissions (and chromium, if necessary), or figure out a timeline and next steps toward resolving that question, and a discussion of technical and other state assistance that may be available to that end; and

•□□□□□□□□ If we start to get a sense of a timeline and length of commitments Bullseye and we are making, start talking about documenting our commitments in writing, including a method to monitor to be able to provide public assurances that such agreement is being complied with.

Again, our apologies for the late notice and scant information, we hope to get things better sorted as the time gets closer.

George Davis

DEQ

503-229-5534

*****CONFIDENTIALITY NOTICE*****

This e-mail may contain information that is privileged, confidential, or otherwise exempt from disclosure under applicable law. If you are not the addressee or it appears from the context or otherwise that you have received this e-mail in error, please advise me immediately by reply e-mail, keep the contents confidential, and immediately delete the message and any attachments from your system.

****

To: McClintock, Katie[McClintock.Katie@epa.gov]
Cc: Downey, Scott[Downey.Scott@epa.gov]; Matthews, Julie[Matthews.Juliane@epa.gov]
From: Kowalski, Ed
Sent: Thur 2/18/2016 9:07:38 PM
Subject: RE: update on conversation with Oregon DOJ??

As of our call yesterday, Paul had an oral agreement through this Friday with Bullseye not to use arsenic, cadmium or chromium in their process. They are taking them at their word and have not discussed any kind of verification process. He has not been asked by ODEQ to participate in any discussions with Uroborus, whom he understands has been consistently cooperative. I think ODEQ asked him to get involved with Bullseye because they are lawyered up (Perkins) and have been more aggressive. He did mention they were all still trying to figure out how to calculate the amount of hex chromium that may be emitted in the process. I think he cited that Bullseye uses cadmium in about 20% of its process, but chromium in 80%, so they are pushing back most aggressively on not using it.

I emphasized the importance of getting any commitment in writing with some kind of verification mechanism. He is meeting with the company again on Friday, but had not thought through his strategy for how he was going to approach the meeting. He thinks he has several legal tools he can use: the MAO process, emergency order authority (sounds broader than ours), amending the permit or even revoking the permit. Ex. 5 - Deliberative Process Ex. 5 - Deliberative Process Ex. 5 - Deliberative Process I asked him to report back after the meeting.

I also gave him your name as our technical lead. He thought Dave Munro might be reaching out to invite you to the meeting with Bullseye. I told him I thought you would welcome that.

Edward J. Kowalski

Director

Office of Compliance and Enforcement

EPA Region 10

Seattle, WA 98101

(206) 553-6695

From: McClintock, Katie
Sent: Thursday, February 18, 2016 9:00 AM
To: Kowalski, Ed <Kowalski.Edward@epa.gov>
Cc: Downey, Scott <Downey.Scott@epa.gov>; Matthews, Julie <Matthews.Juliane@epa.gov>
Subject: update on conversation with Oregon DOJ??

Hi Ed,

I heard that you were able to connect with Paul Garrahan. If you have time, I'd love an update either in writing or by phone (I have some time between 11-12 and 1-3).

Katie McClintock

Air Enforcement Officer

EPA Region 10

1200 Sixth Avenue, Suite 900, OCE-101

Seattle, WA 98101

Phone: 206-553-2143

Fax: 206-553-4743

Mcclintock.katie@epa.gov

To: McClintock, Katie[McClintock.Katie@epa.gov]
From: Downey, Scott
Sent: Tue 2/16/2016 4:55:27 PM
Subject: RE: Fremont Antique Glass

Yes, I have access. Good job setting this up.

~~~~~~~~~~~~~~~~~~~~~~~~~~

Scott Downey, Manager

Air and RCRA Compliance Unit

EPA Region 10, OCE-101

1200 6th Ave, Suite 900

Seattle, WA 98101, (206) 553-0682

From: McClintock, Katie
Sent: Monday, February 15, 2016 7:39 PM
To: Downey, Scott <Downey.Scott@epa.gov>
Subject: RE: Fremont Antique Glass

Also, do you have access to the onedrive I set up? Uroboros just sent quite the email and I copied it to the main part of the share. I can forward if you would prefer. I am working on a daily update addressing the email and other goings ons (I have drafted a 114 for the other glass companies).

From: Downey, Scott
Sent: Monday, February 15, 2016 7:37 PM
To: McClintock, Katie <McClintock.Katie@epa.gov>
Cc: Hedgpeth, Zach <Hedgpeth.Zach@epa.gov>
Subject: Re: Fremont Antique Glass

Makes sense to me. Is Spectrum happening Tuesday?
~~~~~~~~~~~~~~~~~~~~~~~~~~

Sent from my EPA iPhone

On Feb 15, 2016, at 12:00 PM, McClintock, Katie <McClintock.Katie@epa.gov> wrote:

Fremont Antique Glass has a facility in (Shockingly) Fremont. They don't have a website but according to yelp they make their own glass. It could be interesting to run by here soon (Tuesday if zach has time) or later this week if not to see if they are big enough to merit attention. This quick look would allow me to get a sense of how much beyond the big 8 we will need to go in order to the major sources of potential ambient metals. I can move around my calendar to make it go probably any time.

Thoughts?

Katie McClintock

Air Enforcement Officer

EPA Region 10

1200 Sixth Avenue, Suite 900, OCE-101

Seattle, WA 98101

Phone: 206-553-2143

Fax: 206-553-4743

Mcclintock.katie@epa.gov

To: McClintock, Katie[McClintock.Katie@epa.gov]; Downey, Scott[Downey.Scott@epa.gov]
From: Hedgpeth, Zach
Sent: Tue 2/16/2016 2:37:40 PM
Subject: Re: Fremont Antique Glass

I'm working from home today, but could do Fremont either Wed (after Spectrum) or Friday.

I'm sure we will talk soon,

Zach

From: McClintock, Katie
Sent: Monday, February 15, 2016 7:37 PM
To: Downey, Scott
Cc: Hedgpeth, Zach
Subject: RE: Fremont Antique Glass

Spectrum is Wednesday.

From: Downey, Scott
Sent: Monday, February 15, 2016 7:37 PM
To: McClintock, Katie <McClintock.Katie@epa.gov>
Cc: Hedgpeth, Zach <Hedgpeth.Zach@epa.gov>
Subject: Re: Fremont Antique Glass

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Sent from my EPA iPhone

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Thoughts?

Katie McClintock

Air Enforcement Officer

EPA Region 10

1200 Sixth Avenue, Suite 900, OCE-101

Seattle, WA 98101

Phone: 206-553-2143

Fax: 206-553-4743

Mcclintock.katie@epa.gov

To: MONRO David (MONRO.David@deq.state.or.us)[MONRO.David@deq.state.or.us]
Cc: Downey, Scott[Downey.Scott@epa.gov]
From: McClintock, Katie
Sent: Tue 2/16/2016 4:06:06 AM
Subject: FW: Uroboros report
removed.txt

Let's check in on Tuesday if you have time. I'm also curious on the status of the monitoring, especially since Bullseye is still using chromium. Sadly a monitor outside Uroboros will now not show anything, which is good for the community but bad for providing additional evidence for our concerns.

Katie

From: Eric Lovell [mailto:eric@uroboros.com]
Sent: Monday, February 15, 2016 4:04 PM
To: McClintock, Katie <McClintock.Katie@epa.gov>; monro.david@deq.state.or.us
Subject: Uroboros report

Dear Ms. McClintock and Mr. Monro,

Per Ms. McClintock's request, we are accumulating a packet of documents for you both. I may email a few sample documents to Ms. McClintock for approval of their format Tuesday AM.

Meanwhile, I would like to know what data you are using to support the idea that hexavalent chromium, Cadmium, or any other metal vapors, are being emitted from melts in the Uroboros furnaces. You appear to be relying on some outside information other than physical testing around Uroboros' location for your decision to direct the suspension of use of these chemicals here. Perhaps this information is in the form of studies that specifically examine metal vapor volatilization rates in glass melters. I have never seen such studies, but if they exist and you have access to them, I would like to know what the study parameters were, so I would appreciate copies to help me understand your suspension directives and work toward a rapid solution.

For examples:

•□□□□□□□□ Was peak melt temperature a factor in volatilization rates?

•□□□□□□□□ Was there a correlation between metal oxide source compounds and variations in the vapor emissions?

•□□□□□□□□ What type of furnaces were used during the tests?

These are urgent questions for Uroboros Glass, since despite the fact that no test has determined that we emit any, let alone excessive levels of Hex. Chromium, we have already voluntarily suspended production of over 2/3 of our entire product line. There is not much time before Uroboros Glass will be insolvent if this situation isn't changed. I am laying people off starting today that have been employed here for decades, and have moved to suspend dozens of normally ongoing activities due to the uncertainty.

If your goal is to shut us down without ever determining if we actually emitted or not, feel free not to reply. If you want to participate in a solution for the situation, provide me the data and reports you must have access to so I can study and learn from them, in the hopes of finding a solution quicker.

Sincerely,

Eric Lovell
President

2139 N. Kerby Ave
Portland, OR 97227
503-284-4900 x 201 T
503-284-7584 F

To: John Schantz[JohnS@pscleanair.org]; Brian Renninger[BrianR@pscleanair.org]; Steve Van Slyke[SteveV@pscleanair.org]
Cc: Hedgpeth, Zach[Hedgpeth.Zach@epa.gov]; Downey, Scott[Downey.Scott@epa.gov]
From: McClintock, Katie
Sent: Tue 2/16/2016 3:58:07 AM
Subject: RE: Next Week Spectrum Glass

Have you guys ever looked at Fremont Antique Glass. We thought about popping over there soon (maybe even Tuesday) to see what their operation looks like and the magnitude to see if smaller companies might raise similar issues. Would you or someone at PSCAA be interested in going?

From: John Schantz [mailto:JohnS@pscleanair.org]
Sent: Friday, February 12, 2016 3:22 PM
To: McClintock, Katie <McClintock.Katie@epa.gov>; Brian Renninger <BrianR@pscleanair.org>
Cc: Hedgpeth, Zach <Hedgpeth.Zach@epa.gov>
Subject: RE: Next Week Spectrum Glass

Hi Katie- I'm also looking forward to visiting Spectrum on Wednesday. I'm booked up on Tuesday morning, so I'm hoping we can schedule the chat for early afternoon.

Thanks- John

From: McClintock, Katie [mailto:McClintock.Katie@epa.gov]
Sent: Friday, February 12, 2016 3:08 PM
To: Brian Renninger
Cc: Hedgpeth, Zach; John Schantz
Subject: RE: Next Week Spectrum Glass

Great. Look forward to it. I'll set up a time on Tuesday for us to chat for 30 minutes to make sure we are on the same page before the inspection Wednesday at 9:30 am.

From: Brian Renninger [mailto:BrianR@pscleanair.org]
Sent: Friday, February 12, 2016 3:07 PM
To: McClintock, Katie <McClintock.Katie@epa.gov>
Cc: Hedgpeth, Zach <Hedgpeth.Zach@epa.gov>; John Schantz <JohnS@pscleanair.org>

Subject: Next Week Spectrum Glass

I spoke with the Agency Inspector John Schantz and he is up for an inspection on Wednesday. He will also be in the office on Tuesday if you would like to meet or have a telephone call I'm free all day Tuesday except between 3 and 4 pm?

I have also attached the Agency Evaluation Report for the facility. This is what an inspector would have with them during an inspection. It lists: identifying information; required safety equipment; brief summaries of recent inspections and recent NOVs; lists each active Order of Approval and their conditions; and has a list of equipment for the facility. It might be useful for familiarizing yourself with the facility.

Sincerely,

Brian Renninger, P.E.

Engineer

Puget Sound Clean Air Agency

206.689.4077

brianr@pscleanair.org

1904 Third Avenue, Suite 105

Seattle, WA 98101

"Working together for clean air"

www.pscleanair.org

To: Downey, Scott[Downey.Scott@epa.gov]
From: McClintock, Katie
Sent: Tue 2/16/2016 3:38:58 AM
Subject: RE: Fremont Antique Glass

Also, do you have access to the onedrive I set up? Uroboros just sent quite the email and I copied it to the main part of the share. I can forward if you would prefer. I am working on a daily update addressing the email and other goings ons (I have drafted a 114 for the other glass companies).

From: Downey, Scott
Sent: Monday, February 15, 2016 7:37 PM
To: McClintock, Katie <McClintock.Katie@epa.gov>
Cc: Hedgpeth, Zach <Hedgpeth.Zach@epa.gov>
Subject: Re: Fremont Antique Glass

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Sent from my EPA iPhone

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>
> Thoughts?
>
> Katie McClintock
>
> Air Enforcement Officer
>
> EPA Region 10
>
> 1200 Sixth Avenue, Suite 900, OCE-101

Seattle, WA 98101

Phone: 206-553-2143

Fax: 206-553-4743

Mcclintock.katie@epa.gov

To: Downey, Scott[Downey.Scott@epa.gov]
Cc: Hedgpeth, Zach[Hedgpeth.Zach@epa.gov]
From: McClintock, Katie
Sent: Tue 2/16/2016 3:37:25 AM
Subject: RE: Fremont Antique Glass

Spectrum is Wednesday.

From: Downey, Scott
Sent: Monday, February 15, 2016 7:37 PM
To: McClintock, Katie <McClintock.Katie@epa.gov>
Cc: Hedgpeth, Zach <Hedgpeth.Zach@epa.gov>
Subject: Re: Fremont Antique Glass

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Sent from my EPA iPhone

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> Katie McClintock
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> 1200 Sixth Avenue, Suite 900, OCE-101
>
> Seattle, WA 98101

Phone: 206-553-2143

Fax: 206-553-4743

Mcclintock.katie@epa.gov

To: McLerran, Dennis[mclerran.dennis@epa.gov]; Magorrian, Matthew[Magorrian.Matthew@epa.gov]; Hastings, Janis[Hastings.Janis@epa.gov]; Narvaez, Madonna[Narvaez.Madonna@epa.gov]; Hedgpeth, Zach[Hedgpeth.Zach@epa.gov]; Kowalski, Ed[Kowalski.Edward@epa.gov]; Holsman, Marianne[Holsman.Marianne@epa.gov]; Pirzadeh, Michelle[Pirzadeh.Michelle@epa.gov]; Leefers, Kristin[Leefers.Kristin@epa.gov]; Matthews, Julie[Matthews.Juliane@epa.gov]; Martenson, Eric[Martenson.Eric@epa.gov]; Fleming, Sheila[fleming.sheila@epa.gov]; Franklin, Richard[Franklin.Richard@epa.gov]; Downey, Scott[Downey.Scott@epa.gov]
From: McClintock, Katie
Sent: Fri 2/12/2016 4:57:57 PM
Subject: RE: FW: HIGH PRIORITY: RA Oregon Air Emissions Briefing
Dennis Briefing Glass.docx

-----Original Appointment-----
From: McLerran, Dennis
Sent: Thursday, February 11, 2016 2:29 PM
To: McLerran, Dennis; Magorrian, Matthew; Hastings, Janis; Narvaez, Madonna; Hedgpeth, Zach; Kowalski, Ed; Holsman, Marianne; Pirzadeh, Michelle; Leefers, Kristin; Matthews, Julie; Martenson, Eric; Fleming, Sheila; Franklin, Richard
Cc: McClintock, Katie
Subject: Fwd: FW: HIGH PRIORITY: RA Oregon Air Emissions Briefing
When: Friday, February 12, 2016 9:30 AM-10:30 AM (UTC-08:00) Pacific Time (US & Canada).
Where: ET Conf Room + Conf line: Ex. 6 - Personal Privacy code: Ex. 6 - Personal Privacy

Matt, could you help with this?

Thanks,
Jan

From: McLerran, Dennis <mclerran.dennis@epa.gov>
Sent: Thursday, February 11, 2016 3:20 PM
Subject: FW: HIGH PRIORITY: RA Oregon Air Emissions Briefing
To: McClintock, Katie <mcclintock.katie@epa.gov>, Hastings, Janis <hastings.janis@epa.gov>

Katie, the call in number doesn't seem right. The code says Ex. 6 - Personal Privacy I don't know who actually set up the call.

-----Original Appointment-----
From: McLerran, Dennis
Sent: Thursday, February 11, 2016 2:45 PM
To: McLerran, Dennis; Narvaez, Madonna; Hedgpeth, Zach; Kowalski, Ed; Holsman, Marianne; McClintock, Katie; Pirzadeh, Michelle; Leefers, Kristin; Matthews, Julie; Hastings, Janis; Martenson, Eric; Fleming,

Sheila; Franklin, Richard
Subject: FW: HIGH PRIORITY: RA Oregon Air Emissions Briefing
When: Friday, February 12, 2016 9:30 AM-10:30 AM (UTC-08:00) Pacific Time (US & Canada).
Where: ET Conf Room + Conf line: Ex. 6 - Personal Privacy code: Ex. 6 - Personal Privacy
Importance: High

-----Original Appointment-----
From: McLerran, Dennis
Sent: Thursday, February 11, 2016 2:29 PM
To: McLerran, Dennis; Hedgpeth, Zach; Kowalski, Ed; Holsman, Marianne; McClintock, Katie; Pirzadeh, Michelle; Leefers, Kristin; Matthews, Julie; Hastings, Janis; Martenson, Eric; Fleming, Sheila; Franklin, Richard
Subject: HIGH PRIORITY: RA Oregon Air Emissions Briefing
When: Friday, February 12, 2016 9:30 AM-10:30 AM (UTC-08:00) Pacific Time (US & Canada).
Where: ET Conf Room + Conf line: Ex. 6 - Personal Privacy code: Ex. 6 - Personal Privacy
Importance: High

EPA Briefing on Bullseye and other art glass facilities 2-11-16

Background:

- Oregon found high levels of cadmium and arsenic based on a moss study by the USFS
- They deployed ambient monitors (including one directly next to Bullseye Glass, where the highest moss metal concentrations had been).
- The monitor near Bullseye Glass registered values for Arsenic 158 times the Oregon health benchmark and 49 times the cadmium benchmark. Total chromium was 894 times the benchmark for hexavalent chromium (the analysis did not speciate chromium). Even if only a small fraction is hex chrome (a very toxic pollutant), then the measured ambient value would be many times the Oregon health benchmark. Due to the toxicity of hexavalent chromium, this could represent a public health concern.
- We do not have monitoring directly adjacent to any other glass facilities at this time. We know that the largest art glass manufacturer in the country is located in Woodinville, WA (Spectrum Glass).
- Oregon is leading the effort and has been busy with public meetings and health issues.
- Many EPA staff are engaged in R10, OECA, and OAR to understand and digest this issue.

Sources identified

- Bullseye Glass – Portland, OR
- Uroboros Glass – Portland, OR
- Spectrum Glass – Woodinville, WA
- Others nationally – <10 other big ones – Reached out to R5 and need to reach out to others. Specifically know that there are large plants in Ohio and West Virginia.

Source specific Work

- Bullseye and Uroboros have voluntarily stopped using any cadmium or arsenic (Uroboros was already not using arsenic). However, both use hexavalent chromium as a colorant and have not stopped use since it has not been highlighted like the other compounds.
- DEQ and EPA have inspected Bullseye and Uroboros (EPA on 2/10 and 2/11). We hope to inspect Spectrum next week
- Ex. 5 - Deliberative Process

Monitoring Work

- ODEQ is consolidating all the monitoring efforts into a plan that they shared with. EPA this morning. At their request, EPA is overnighting two ambient air monitors to Oregon. They plan to get further data on air emissions over longer periods and at different locations, including the daycare center.
- We have worked with DEQ to try to ensure that the monitors can speciate the chromium so that we can determine the hexavalent fraction.
- We should strongly consider monitoring at Woodinville, after evaluating what we find during

the inspection next week.

Outreach

- DEQ is taking the lead on all outreach.
- EPA was not mentioned by the public or DEQ during the public meeting.
- We have produced a desk statement.
- Tony Barber has responded via email to one citizen letter. We received a second letter today.

To: Hedgpeth, Zach[Hedgpeth.Zach@epa.gov]; McClintock, Katie[McClintock.Katie@epa.gov]; Koprowski, Paul[Koprowski.Paul@epa.gov]; Downey, Scott[Downey.Scott@epa.gov]; Kowalski, Ed[Kowalski.Edward@epa.gov]
From: Hastings, Janis
Sent: Fri 2/12/2016 4:52:59 PM
Subject: RE: briefing paper for tomorrow
Dennis Briefing Glass-zth jh.docx

A few comments attached. If too late to include, that's ok.

From: Hedgpeth, Zach
Sent: Friday, February 12, 2016 8:12 AM
To: McClintock, Katie <McClintock.Katie@epa.gov>; Bray, Dave <Bray.Dave@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; Koprowski, Paul <Koprowski.Paul@epa.gov>; Downey, Scott <Downey.Scott@epa.gov>; Hastings, Janis <Hastings.Janis@epa.gov>; Kowalski, Ed <Kowalski.Edward@epa.gov>
Subject: RE: briefing paper for tomorrow

Just a few suggestions…

Zach Hedgpeth, PE

206-553-1217

From: McClintock, Katie
Sent: Thursday, February 11, 2016 9:00 PM
To: Bray, Dave <Bray.Dave@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; Hedgpeth, Zach <Hedgpeth.Zach@epa.gov>; Koprowski, Paul <Koprowski.Paul@epa.gov>; Downey, Scott <Downey.Scott@epa.gov>; Hastings, Janis <Hastings.Janis@epa.gov>; Kowalski, Ed <Kowalski.Edward@epa.gov>
Subject: briefing paper for tomorrow

Sorry this is so last minute. As a result I am sending to Ed and Jan as well. If you have an comments, please let me know.

Katie McClintock

Air Enforcement Officer

EPA Region 10

1200 Sixth Avenue, Suite 900, OCE-101

Seattle, WA 98101

Phone: 206-553-2143

Fax: 206-553-4743

Mcclintock.katie@epa.gov

To: Downey, Scott[Downey.Scott@epa.gov]; McClintock, Katie[McClintock.Katie@epa.gov]
From: Kowalski, Ed
Sent: Fri 2/12/2016 4:21:10 PM
Subject: FW: Inner SE Portland Air Toxics

Edward J. Kowalski

Director

Office of Compliance and Enforcement

EPA Region 10

Seattle, WA 98101

(206) 553-6695

From: McLerran, Dennis
Sent: Friday, February 12, 2016 8:18 AM
To: Hastings, Janis <Hastings.Janis@epa.gov>; Kowalski, Ed <Kowalski.Edward@epa.gov>; Pirzadeh, Michelle <Pirzadeh.Michelle@epa.gov>; Holsman, Marianne <Holsman.Marianne@epa.gov>
Subject: Fwd: Inner SE Portland Air Toxics

FYI

Sent from my EPA iPhone

Begin forwarded message:

From: Mark Leece <mleece1@gmail.com>
Date: February 12, 2016 at 12:44:48 AM PST
To: Barber.Anthony@epamail.epa.gov, mclerran.dennis@epa.gov
Cc: pedersen.dick@deq.state.or.us
Subject: Inner SE Portland Air Toxics

Dear Mr. McLerran and Mr. Barber,

I am a resident and homeowner at Ex. 6 - Personal Privacy north of Bullseye Glass that has been identified as a source of hazardous air pollutants. I am stunned at the recent findings related to hazardous air pollutants identified near our home Ex. 6 - Personal Privacy We have lived at this location Ex. 6 - Personal Privacy Ex. 6 - Personal Privacy we very concerned about potential long term exposure to these hazardous air pollutants.

On Tuesday night we attended the community forum hosted by Multnomah County Health Department, Oregon Health Authority and the Oregon Department of Environmental Quality. We were at the meeting for 6 hours. Both my wife and I testified and asked questions. During this meeting we learned the following:

1. Bullseye has NO POLLUTION CONTROL EQUIPMENT FOR THEIR GLASS FURNACE OPERATIONS. I was floored when this fact came to light. THIS CAN BE ADDRESSED BY BASIC POLLUTION CONTROL TECHNOLOGY. Bullseye Glass is an UNCONTROLLED source of hazardous air pollutants. Regardless of their permit – current operations are creating a excess human health risk that need to be addressed now.

2. DEQ is implementing ongoing air monitoring near the facility however they were unable to provide any information regarding the monitoring frequency or when we may have initial results to demonstrate the current levels of hazardous air pollutants associated with Bullseye Glass.

3. DEQ is implementing a soil monitoring program however we understand this is under development but no details could be provided. We request that DEQ make their plans for this program available as soon as possible.

Bullseye glass has been operating in this reckless manor for over 40 years with what appears to be scarce oversight from DEQ.

I am very concerned about other additional air toxics, such as chromium and selenium, that Bullseye has not stopped using and is releasing, UNCONTROLLED, into my neighborhood as I write this email. We are imploring DEQ to continue implementing ONGOING monitoring of Bullseye and its processes as the existing permit is not protective of human health. EPA needs to engage in this mater as I do not believe DEQ is being protective.

Oregon's environmental regulations associated with water quality are some of the most stringent in the county. DEQ, EPA and the PRPs associated with Portland Harbor have spent tens of millions of dollars to address what in reality is a relatively low level threat to human health. How can there be such a disconnect when it comes to our environmental regulations and associated with air quality? Oregon needs to implement a formal air toxics program as both our

neighboring states to the north and south have done. In the case of water, we have at a minimum some means to avoid exposure. As for the air in my home and neighborhood, I have no choice but to breathe it. We need EPA to engage on this mater.

Unfortunately, I cannot turn back the clock on my families past exposure. But I am hoping that we will gain a more realistic picture of what the exposure risks might look like for residents in the affected areas going forward. The fall out from these findings will certainly be even more significant if Cd and As levels in our own health screening and those of our neighbors are elevated. At this time we are waiting for our results. Ex. 6 - Personal Privacy

Ex. 6 - Personal Privacy

Ex. 6 - Personal Privacy

Ex. 6 - Personal Privacy If they do – staying in our home – in the neighborhood we love – may not be possible. This is real and for us it is very scary. What makes it even more insane is that there was a way to prevent these releases by implementing air pollution control technology to allow for Bullseye to manufacture their product safely.

Regardless of where the debate of past exposure leads, the residents of my community need to feel safe again. At this time, I can't say I feel safe and most troubling – Ex. 6 - Personal Privacy

Ex. 6 - Personal Privacy – that sucks.

I am writing to you to communicate my deep concerns and fear as you are responsible implementing environmental policy and regulation in our region.

Clearly there are greater issues surrounding Oregon air toxics, permits and regulations. Reportedly, Bullseye is in compliance with their air permit. This is a clear failure of our regulatory system to protect the health and well being of the public. Oregon is a beautiful place to live and raise a family. Please help us to protect ourselves and preserve our State so that my daughter isn't writing this same letter 20 or 30 years from now.

I implore you to use your position to address this mater. This issue is urgent.

Sincerely,

Ex. 6 - Personal Privacy

To: McClintock, Katie[McClintock.Katie@epa.gov]
Cc: Downey, Scott[Downey.Scott@epa.gov]
From: Boller, Jack
Sent: Fri 2/12/2016 3:48:07 PM
Subject: FW: Spectrum Glass Reports from HWTR ECY WA
Spectrum Glass 2015-09-11 Report.pdf
Table of Compliance History.xlsx
Spectrum Glass Report 12-17-13.pdf
Spectrum Glass Report 3-5-13.pdf
Spectrum Glass TA Visit Report 3-13-12.pdf
Spectrum Glass TA Visit Report 3-29-11.pdf
Spectrum Glass Report 11-29-2011.pdf
Spectrum Glass Report 4-14-09.pdf

Here is the state RCRA inspection reports for Spectrum. Let me k now if you have any questions.

Jack Boller

EPA Region 10

Seattle, WA

206 553-2953

From: Baker, Daylin (ECY) [mailto:DAYD461@ECY.WA.GOV]
Sent: Friday, February 12, 2016 7:26 AM
To: Boller, Jack <Boller.Jack@epa.gov>
Subject: Spectrum Glass Reports from HWTR ECY WA

Daylin Baker

Compliance Unit Supervisor

Hazardous Waste & Toxics Reduction Program

WA State Department of Ecology

(425) 649-7014

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY
Northwest Regional Office • 3190 160th Ave SE • Bellevue, WA 98008-5452 • 425-649-7000
711 for Washington Relay Service • Persons with a speech disability can call 877-833-6341

March 28, 2013

Monica Pillay
Spectrum Glass Co Inc
PO Box 646
Woodinville, WA 98072-0646

Re: Dangerous Waste Compliance Inspection on March 5, 2013 at Spectrum Glass Co Inc, 24105 Snohomish Woodinville Rd, RCRA ID#: WAD086248978

Dear Ms. Pillay:

Ecology's Hazardous Waste and Toxics Reduction Program recently conducted a Dangerous Waste compliance inspection at your facility. The Dangerous Waste Regulations[1] establish a safe and responsible system to manage dangerous waste. I have listed the violations at Spectrum Glass Co Inc in the enclosed Notice to Comply. You must complete the actions needed to correct these violations and return the enclosed completed **Compliance Certificate** within 30 days of receipt of this letter to the address above.

Failure to comply with these requirements within 30 days could result in an administrative order and a penalty of up to $10,000 per day for each violation.

If you have any questions or need clarification of the information in this inspection report, please contact me at (425) 649-7065 or Aurana.Lewis@ecy.wa.gov.

Sincerely,

Aurana Lewis
Hazardous Waste Compliance Inspector
Hazardous Waste and Toxics Reduction Program

AL:SA
By certified mail: 7011 2970 0000 0455 3877

cc: Derek Stong, Technology Manager

[1] Authority: WAC 173-303 and RCW 70.105.080

RCRA Site ID #	Facility name	Inspection date
WAD086248978	Spectrum Glass Co Inc	March 5, 2013
Generator status	Facility address	Date Report Sent
LQG	24105 Snohomish Woodinville Rd, Woodinville	March 29, 2013

NOTICE TO COMPLY

Site contact name and title Monica Pillay	Inspector's Name Aurana Lewis
Site phone number (425) 483-6699 x4040	Inspector's Phone Number (425) 649-7065
Site contact e-mail address monica@spectrumglass.com	Inspector's e-mail address Aurana.Lewis@ecy.wa.gov
Site Website	Back-up Inspector's Name Daylin Davidson

Notes:

1. A re-inspection can occur at any time to verify the correction of the violations listed below.
2. Ecology may take formal enforcement action even if the violation(s) are corrected.

WAC 173-303-	Summary of Violations Including Observations	Actions Needed
145(3)	In the final accumulation area one of the totes containing hazardous waste dust and floor sweepings had spilled powder onto a wooden pallet. WAC 173-303-145(3): For spills and discharges, the responsible person must take appropriate mitigation and control actions.	Take all appropriate mitigation and control actions after any spill or discharge of dangerous waste or hazardous chemicals. Provide documentation, such as a report, photos, or a letter, that appropriate actions occurred when you return the enclosed Compliance Certificate.
200(1)(d)	One of the totes of hazardous waste dust and floor sweepings in the final hazardous waste accumulation area had hazard and risk labels that were not visible. REPEAT VIOLATION WAC 173-303-170(2) and by reference 200(1)(d): Containers and tanks of dangerous waste must be clearly labeled or marked with the words "Hazardous Waste" or "Dangerous Waste." Containers and tanks must also be marked with a label or sign that identifies the major risks of the waste.	Label all containers and tanks of dangerous waste in accordance with WAC 173-303-200(1)(d). Photograph the properly labeled container(s) for this waste stream and include the photo when you return the enclosed Compliance Certificate.

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070(3)	The waste profile for the hazardous waste dust and floor sweepings had the WT01 waste profile code but that code was not included on the annual report or on the hazardous waste manifests. The box of broken bulbs in the South Electrical room was not designated as hazardous waste. REPEAT VIOLATION WAC 173-303-170(1) and by reference 070(3): Sites must properly designate solid waste prior to disposal. Sites must follow proper procedures when determining if a solid waste is also a dangerous waste or an extremely hazardous waste.	When returning the enclosed Compliance Certificate, provide documentation that designation of the solid wastes listed has occurred. The documentation shall at least include copies of the analytical results of designation testing and justification for any determinations that are based on generator knowledge as defined in WAC 173-303-040.
630(6)	Weekly inspections were not conducted while Tracey Pemberton was away on business and inspections did not include the time of the inspection or the signature of the inspector. WAC 173-303-200(1)(b) and by reference 630(6): At least weekly, the owner or operator must inspect areas where containers are stored. The owner or operator must keep an inspection log including at least the date and time of the inspection, the printed name and handwritten signature of the inspector.	Inspect areas where containers of dangerous waste are stored at least weekly. Maintain an inspection log that includes: the date and time of inspection; the name and signature of the inspector; a notation of the observations made; and the date and nature of any corrective measures taken. Submit a copy of three weeks of the completed inspection log when you return the enclosed Compliance Certificate.
515(6)/279.22(d)	Kitty litter used to clean up oil spills in the Maintenance Shop was not cleaned up and disposed of. WAC 173-303-515(6) and by reference 40 CFR Part 279.22(d): A used oil generator must respond to releases of used oil to the environment and perform the following cleanup steps: 1) stop the release; 2) contain the released used oil; 3) clean up and manage properly the released used oil and other materials; and 4) repair or replace any leaking used oil storage containers or tanks prior to returning them to service.	Ensure that any old releases of used oil and contaminated soil are cleaned up and properly managed. In case of oil releases in the future, immediately perform the cleanup steps listed. When you return the enclosed Compliance Certificate, include a report of the measures taken to clean up the existing releases.

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573(11)	Mercury containing universal waste was not disposed of within the one year accumulation time limit. REPEAT VIOLATION WAC 173-303-573(11): Universal wastes may only be accumulated for up to one year, except as noted in 173-303-573(11)(b). Documentation must exist to demonstrate that the time limits have been met.	Properly transport universal waste to another universal waste handler or a universal waste destination facility. When you return the enclosed Compliance Certificate, show that accumulation time limits have been met, using a one of the methods described in WAC 173-303-573(11)(c).
330	The training plan did not contain the required training that must be completed and the specific time period required for refresher training. REPEAT VIOLATION WAC 173-303-200(1)(e) and by reference 330: Training requirements were not met. The facility should have a training program, a written training plan, and keep training records.	Develop a dangerous waste training program that includes a written training plan and records per WAC 173-303-330. When you return the enclosed Compliance Certificate, include a description of the training program, a copy of the training plan, and a copy of the record of the most recent training event.
320(2)(d)	The general facility inspection log lacked a date, time, and inspector signature. REPEAT VIOLATION WAC 173-303-200(1)(e) and by reference - 320(2)(d): The owner or operator must keep an inspection log or summary, including at least the date and time of the inspection, the printed name and the handwritten signature of the inspector, a notation of the observations made, an account of spills or discharges in accordance with WAC 173-303-145, and the date and nature of any repairs or remedial actions taken. The log or summary must be kept at the facility for at least five years from the date of inspection.	Please revise your general facility inspection records to incorporate the printed name, date, time, and signature of the inspector. When you return the enclosed Compliance Certificate, include a copy of one updated and completed general facility inspection log.
630(5)(a)	The drum containing dangerous waste excess batch chemicals in the Batch Room was open. REPEAT VIOLATION WAC 173-303-200(1)(b) and by reference 630(5)(a): Keep containers of dangerous waste closed except while adding or removing waste.	Upon receipt of this letter, close all containers holding dangerous waste. Containers can only be open when adding or removing waste per WAC 173-303-630(5). When you return the enclosed Compliance Certificate, include one or more photographs showing that your containers are properly closed.

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Concerns and Suggestions

Repeat Violations

A very similar pattern of violations was noted by Ecology in the previous hazardous waste compliance inspections and technical assistance visits in 2011 and 2012, including waste not being designated, missing hazardous waste and risk labels, open containers, universal waste lacking labels and being stored for greater than one year, incomplete general facility inspection logs and weekly inspections not being conducted. Repeated violations are a significant factor increasing the likelihood and severity of any enforcement actions taken by Ecology.

Secondary Containment

The secondary containment in the outdoor shed used to store used oil and spent antifreeze had rain water collecting in the bottom (see Photo 11). The curtain used to block much of the rain water is an excellent starting point, but it is important to keep the secondary containment free of standing liquids like the accumulated rain water. Please consider creating a schedule to clean out the secondary containment in the area to ensure that it can contain leaks and to prevent the contamination of liquids like rainwater that do fall into it.

Aerosol Cans

Spectrum glass uses aerosol cans on an occasional basis. Ecology would like to ensure that Spectrum Glass is following the proper disposal protocol by only disposing of empty aerosol cans. Spectrum Glass may not throw away aerosol cans that contain product, either because the can cannot be sprayed empty or the product will no longer be used. These aerosol cans must be disposed of as dangerous waste.

Ecology does not regulate "empty" aerosol cans as dangerous waste. Empty means when completely sprayed out and no product remains in the can. You must not deliberately spray out contents just to empty the can. Instead, use the aerosol product for its intended purpose. Empty aerosol cans may be added to your solid waste stream. However, Ecology recommends recycling empty cans as scrap metal if you can find a scrap metal company that will take them. If you choose to manage your empty aerosol cans as dangerous waste, you must do so in accordance with the Washington State Dangerous Waste Regulations. This includes the following general requirements:

- Keep accumulation containers closed
- Label the accumulation container with the major risk associated with the waste (ignitable, corrosive, toxic)
- Label the accumulation container "dangerous waste" or "hazardous waste".

Additional guidance on aerosol can management can be found in the Ecology publication "*Focus on Aerosol Can Management*" available at http://www.ecy.wa.gov/pubs/0704005.pdf.

Handling Spent Lamps as Universal Waste

Universal wastes are certain dangerous wastes that may be managed appropriately under less stringent regulatory requirements when recycled. The Universal Waste Lamps rule includes fluorescent lamps, compact fluorescent, mercury vapor, metal halide, high pressure sodium, and neon lamps, among others. The benefits of managing the lamps as universal waste include no counting, no manifesting, no reporting on annual reports, and a 12-month accumulation time.

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To manage your used lamps as Universal Waste:

- Store them in a closed container so that they will not be broken.
- Label their container with the words "Universal Waste-Lamps," or "Waste Lamps," or "Used Lamps."
- Include the start date when the first item was placed in the container to ensure recycling takes place within the 12-month accumulation time limit.

Lamps broken incidentally inside of the universal waste container are Universal Waste. Otherwise, store broken lamps separately as hazardous waste and report them on the dangerous waste annual report.

For a list of fluorescent lamp and tube recyclers, look under Fluorescent Light and Ballast Management in Ecology's HW Service Provider Directory: http://apps.ecy.wa.gov/hwsd/default.htm
For more information, please refer to Ecology's publication *Universal Waste Rule for Lamps:* http://www.ecy.wa.gov/pubs/98407c.pdf

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COMPLIANCE CERTIFICATE

Instructions:

1. Complete this page **within 30 days of the receipt of the letter.**

   Note: You may request an extension before this Compliance Certificate is due. You must make this request in writing and include the reason for the extension and propose a new date of completion.

2. Send this page with any supporting documentation such as photos, copies of manifests/disposal records or receipts, and if applicable, your request for extension, to:

   Attn: Aurana Lewis
   Department of Ecology
   3190 160th Ave SE
   Bellevue, WA 98008

Summary of Hazardous Waste Violation Compliance Action				
Check the type of documentation				
Violation Code	**Photo**	**Paperwork**	**Statement**	**Notes**
145(3)				
200(1)(d)				
070(3)				
630(6)				
515(6)/279.22(d)				
573(11)				
330				
320(d)				
630(5)(a)				

1. I certify that the violations noted on the Notice to Comply page have been corrected.
2. I personally examined any attached documentation submitted as proof of compliance and I believe the information to be true, accurate, and complete.
3. I am aware:
   - There are significant penalties for submitting false information and/or for non-compliance with regulations.
   - My signature **certifies compliance** with every regulation noted on the Notice to Comply page.
4. I declare under penalty of perjury the foregoing certification is true and correct.

Signature	Printed name
Position/title	Date

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Inspection Report

Facility Background

Spectrum Glass Company, Incorporated (Spectrum) is a manufacturer of specialty sheet glass for use in architecture, fine arts, hobby crafts, lighting, and other applications. Spectrum is a large quantity generator (LQG) of dangerous waste. The facility has a staff between 150 and 175 people employed at the facility.

Inspection

Aurana Lewis and Daylin Davidson arrived at the facility and asked to see Tracey Pemberton. Ms. Pemberton was in Texas for a conference and we met instead with Ms. Monica Pillay. Ms. Pillay manages the paperwork for hazardous waste at the site and completes the annual report in Turbowaste.

We explained the visit was an unannounced hazardous waste inspection which would include a tour of the facility and a review of the hazardous waste records. We requested to start by reviewing the dangerous waste streams generated at the facility. We requested the manifests and waste profiles for the dangerous waste streams.

Ms. Pillay showed us records for three major waste streams and nine non-recurring waste streams shipped from the facility in 2012. The three major waste streams were designated as hazardous waste due to cadmium, chromium, and selenium. One of the major waste streams, the floor sweepings and dust, was also designated under the state waste code WT01, a type of extremely hazardous waste. The waste profile did not have full analysis available, but Ms. Pillay agreed to email Ms. Lewis the full analysis of this waste stream. The manifests for the floor sweepings and dust did not include the WT01 waste code.

We also reviewed the designation of six other waste streams that were mentioned as not fully designated in a 2011 technical assistance visit report by Ecology. We reviewed these waste streams as the technical assistance visit did not require follow up from the company to report the waste designation results.

From the 2011 report, undesignated sand blast dust from a sand blaster that was now fully designated as non-hazardous. The Safety Kleen parts washer liquid and filter that did not have a waste profile in 2011 was identified (per the MSDS) to contain only non-flammable solvents that would not designate as hazardous. During the tour we followed up with employees in the Maintenance Shop and learned the parts washer was used only for greasy parts, thus no heavy metals would enter the liquid during washing. The paint wastes mentioned in the 2011 report as not fully designated had been manifested offsite in 2012 as hazardous waste. For the final two waste streams mentioned in the 2011 report, used spill absorbent and aerosol cans, Ms. Pillay was unsure of how they were used or managed. We agreed to discuss the issue during the tour.

Tour

On the tour we were joined by Ms. Marti Kvalheim, the chemical inventory and safety & health/claims officer, Mr. Derek Stong, the glass technology manager, and Mr. Bob McKinney, a facility employee.

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Batch Room
We started in the Batch Room, where chemicals that form the glass are mixed prior to being melted in one of the furnaces. The mixing occurs in two areas, one near the front of the room where hand mixing occurs and one in a large machine called a batch can. We observed dusty material on the floor in the two areas where the mixing occurs. Mr. McKinney said both areas are swept after each of the two shifts and the floor sweepings are disposed of in a hazardous waste tote at the back end of the room, near the door to the furnaces. We observed a trash can of hazardous waste beneath a locking stand that Mr. Stong explained captures the remainders of the batch chemicals that cannot fit into the furnace. The trash can lid was not completely fitted on and we consider this can an open hazardous waste accumulation container.

Final Hazardous Waste Accumulation Area
We left the Batch Room and stepped outside to inspect the final hazardous waste accumulation area. The final area contained five large totes of the floor sweeping and dust hazardous waste. Four of the totes were clearly labeled, but the fifth tote in the back was labeled on the side facing the wall and the label could not be read (see Photo 1). The same tote had a small spill of white powder on the pallet holding it (see Photo 2).

Main Furnace Room
We continued into the main furnace room. Ms. Pillay had explained that furnace 1, 2, and 4 are operating and furnace 3 is no longer being used. We saw a pile of material on the floor near furnace 2. Mr. McKinney explained that this is the flue fines from inside the furnace that must be cleaned out. Mr. McKinney noted that an employee was conducting an ongoing cleaning project to remove this material.

South Electrical Room
We entered the South Electrical Room, where the universal waste is stored. There were a number of boxes with universal waste lamps with a variety of dates. Two of the universal waste lamp boxes had a start date of March 8, 2012, indicating there were only three days to dispose of these lamps before they exceed their year of acceptable storage. There was one box of used lamps with a start date of November 5, 2012 and one box with a start date of May 12, 2012. The fifth box of used lamps was labeled "broken universal lamps" and dated June 19, 2012. We noted that broken universal lamps must be managed as hazardous waste including labeling and removal offsite within 90 days. There was also a small bucket labeled as "Mercury Containing Universal Waste" with a start date of February 2, 2012. Mr. McKinney opened the bucket and confirmed that it contained mercury containing universal waste. We reviewed the requirement for a one year storage period for universal wastes with the Spectrum Glass employees.

Outside the South Electrical Room we saw the sand blasting machine. We reviewed with Ms. Pillay that proper designation was concern in 2011 for the waste sandblast grit from this machine. We stated that we now understood that the sand blasting waste was found to be non-hazardous, which she confirmed.

Maintenance Shop

We went through the main furnace room to the maintenance area. In the maintenance area we noted that there was a Safety Kleen parts washer. We asked what is washed in the parts washer and employees confirmed that only greasy parts of put into the washer. There was also a metal cutting machine in the Maintenance Shop. We asked what management is used for the cutting fluids. The Maintenance Shop employees noted that the cutting fluid is not removed. The filter capturing metal filings and waste is scraped clean and the metal is managed as scrap metal. The employees stated that the cutting fluid does not need to be replaced because the metal is filtered out.

In the back of the Maintenance Shop, near the Safety Kleen parts washer, a bucket of kitty litter with spilled kitty litter around it was being stored. The Maintenance Shop employees noted that this kitty litter is used to clean up grease and oil spills. The employees said that if kitty litter is used to pick up a spill it is disposed into the tote containing floor sweeping and dust in the Batch Room.

Outside Areas

We then exited the Maintenance Shop to see the used oil and spent antifreeze storage area. We saw there was a curtain keeping the rain from entering the used oil secondary containment, but some rainwater has still entered the secondary containment (see Photo 10). All of the drums were closed and well labeled as either used oil or spent antifreeze, but they also had labels saying "non hazardous waste" (see Photo 9). We explained that these chemicals are not non-hazardous, they are merely being managed under an exemption to the hazardous waste rules. We requested that the "non-hazardous" labels be removed or defaced.

We finally went to the area around the evaporator. Ms. Kvalheim explained that the process waste water used to cool the furnace areas is non-hazardous because it never comes in contact with hazardous materials in the furnace. Near the evaporator we noted two small pipes coming from the building and dripping into a nearby sewer drain. The Spectrum Glass employees present were not sure where the liquid from the pipes originated or if Spectrum Glass had contacted Snohomish County about this form of disposal.

Follow-up: After the tour we emailed Ms. Kvalheim, Ms. Pemberton, and Ms. Pillay to request more information on the water from the two pipes. Ms. Kvalheim wrote back to say that the black pipe carried condensate from the air compression system. Ms. Kvalheim said the white pipe contained liquid wastes from furnaces pits and water that has accumulated on the floor from cooling systems, condensation, and lodi spills. We asked that Spectrum Glass review the information regarding the water from the white pipe and determine the designation as hazardous or non-hazardous waste. Ms. Pemburton sent us analytical results for the waste water and we also discussed the discharges with Dave Haberman of King County Industrial Waste. Mr. Haberman said he is aware of these two discharges.

Records Review

After the tour was complete we returned to Ms. Pillay's office to review the training plan, weekly hazardous waste accumulation area inspection logs, contingency plan, and the general inspection of the facility. The contingency plan was complete and did not require any additional materials. Both the weekly inspection logs and the general inspection logs were lacking the time of the inspection and the signature of the inspecting employee. The weekly inspection had also not been conducted while Ms.

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Pemberton was in Texas, missing one week of inspection.

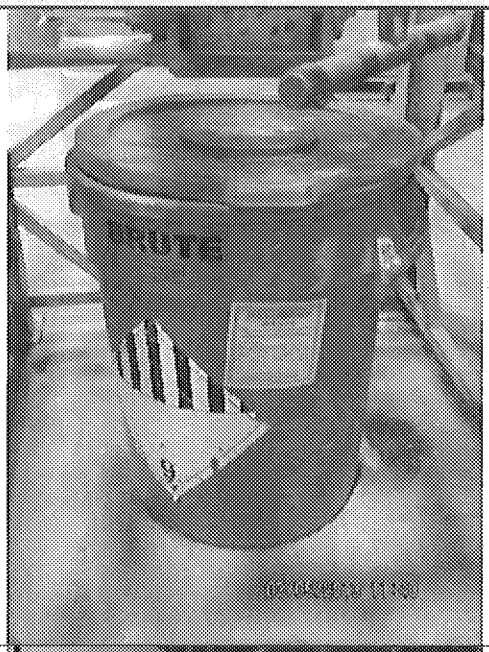
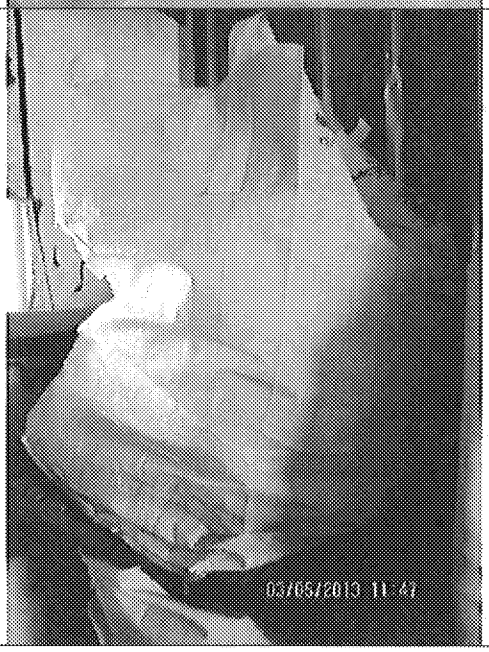
The training plan had excellent explanations of the different duties conducted by the employees and the levels that each employee would be classified as. In addition, the knowledge required to conduct their duties at each level was clearly explained in the training plan. Unfortunately, the training plan did not explain what training would be given to each employee and the recurrent period in which training would be required. Especially for level three employees, where more rigorous training might be encouraged, it was unclear what training would be taken by these employees.

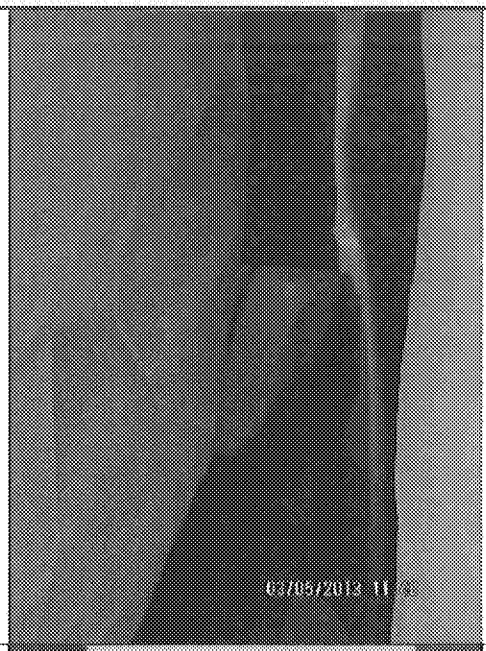
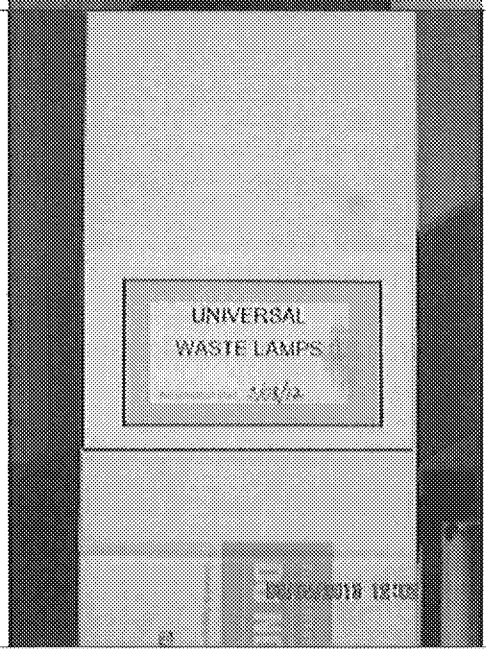
Ms. Davidson explained that Spectrum Glass has had a number of reports indicating poor management of hazardous wastes onsite. She emphasized that Spectrum Glass should review their hazardous waste management and perhaps consider consolidating the hazardous waste management duties under one person. Ms. Davidson mentioned that Spectrum Glass's track record with hazardous waste could use improvement.

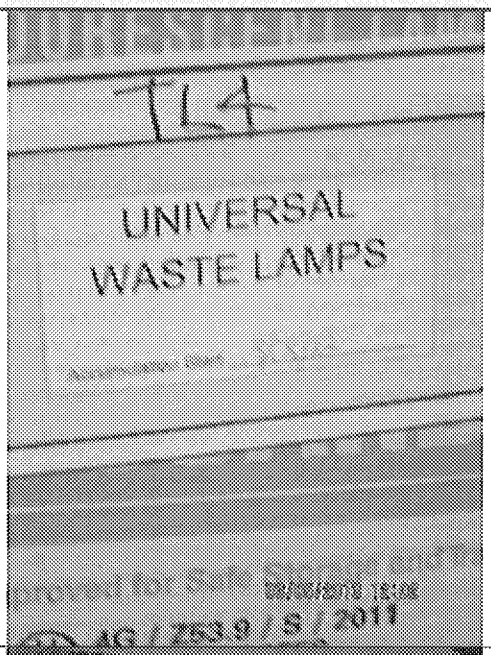
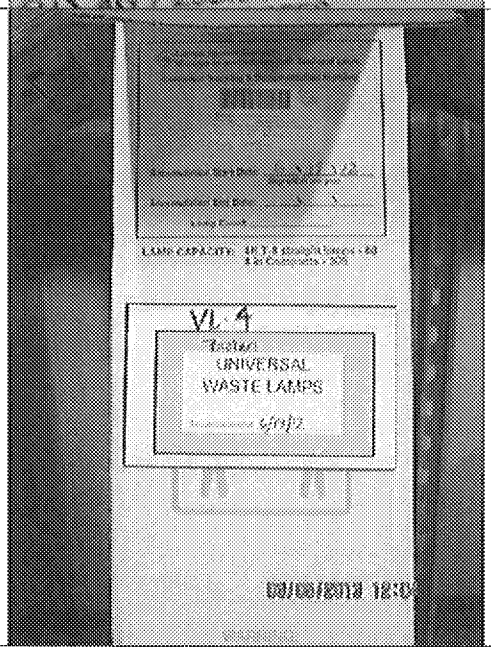
PHOTOS ☒ Yes ☐ No
SAMPLES ☐ Yes ☒ No

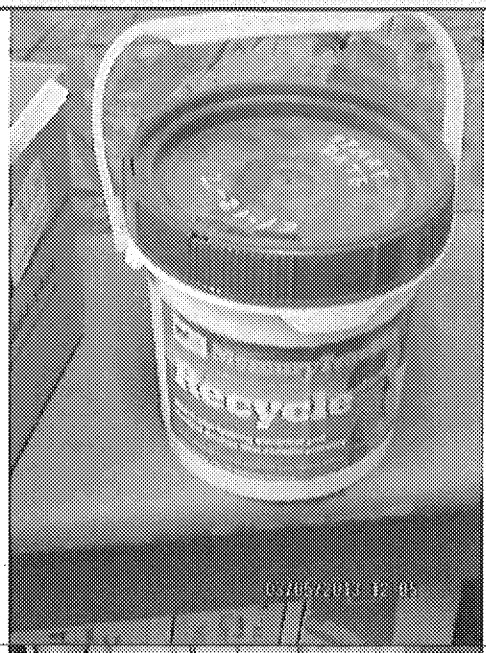
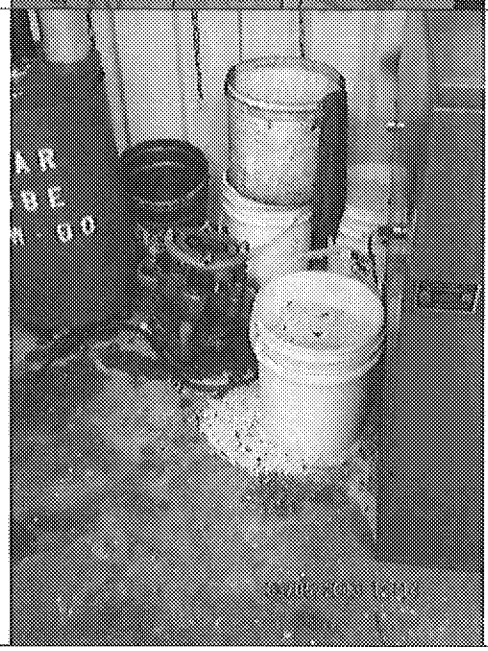
Photo Log

Photographer: Daylin Davidson **Witness: Aurana Lewis**

Area & Description	Photographs
#1 Locking Stand Area Satellite container of left over batch powder is properly labeled, but the container is open.	
#2 90-day Accumulation Area Super sack of dangerous waste lacking visible hazardous waste and risk labels.	

Area & Description	Photographs
#3 90-day Accumulation Area Hazardous waste white powder spilled onto the pallet.	
#4 South Electrical Room Box of universal waste lamps dated 3/8/12.	

Area & Description	Photographs
#5 South Electrical Room Another box of universal waste lamps dated 3/8/12.	
#6 South Electrical Room Box of broken fluorescent lamp waste incorrectly labeled as universal waste.	

Area & Description	Photographs
#7 South Electrical Room Bucket of universal waste mercury containing devices dated 2/21/12.	
#8 Maintenance Area near the Parts Washer Drips of washer solvent and machine oils have been absorbed with kitty litter.	

Area & Description	Photographs
#9 Oil Shed Drums of spent antifreeze with "non-regulated waste" labels.	
#10 Oil Shed Rain water accumulated in secondary containment.	
#11 Evaporator Area Two pipes (black at left, white at right) are exiting the building and draining unknown liquids to a drain.	

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY
Northwest Regional Office • 3190 160th Avenue SE • Bellevue, Washington 98008-5452 • (425) 649-7000

March 27, 2012

Tracey Pemberton
Spectrum Glass
PO Box 646
Woodinville, WA 98072

Re: Dangerous Waste *Requested Technical Assistance Visit* on March 13, 2012
RCRA ID#: WAD086248978

Dear Ms. Pemberton:

Thank you for your time during my visit to your facility on March 13, 2012. As we discussed, this visit was primarily informational. It is part of Ecology's effort to do more assistance visits and get information about hazardous waste regulations directly to business people. During this visit, we discussed many of the waste streams that you generate, along with the appropriate requirements for proper handling and disposal.

I left a packet of information with you about compliance with the Washington State Dangerous Waste Regulations, Chapter 173-303 WAC. I am enclosing a summary of our recommendations based on my visit to your facility.

Please do not hesitate to contact me at (425) 649-7090 or daylin.davidson@ecy.wa.gov should you have questions about hazardous waste management or environmental concerns in general.

Sincerely,

Daylin Davidson
Hazardous Waste Compliance Inspector
Hazardous Waste and Toxics Reduction Program

DD/SA
Enclosures

By certified mail: 7010 3090 0002 0647 4759

RCRA Site ID #	Facility name	Site Visit date
WAD086248978	Spectrum Glass	March 13, 2012
Generator status	Facility address	Date Summary Sent
LQG	24105 Sno-Woodinvill Rd, Woodinville	March 27, 2012

Technical Assistance Visit Summary

Site contact name Tracey Pemberton, Waste Coordinator	Inspector's Name Daylin Davidson
Site phone number (425) 483-6699 ext 4057	Inspector's Phone Number (425) 649-7090
Site contact e-mail address TPemberton@SpectrumGlass.com	Inspector's e-mail address Daylin.Davidson@ecy.wa.gov

Concerns and/or Suggestions

1. A good starting point for designation would be to compile a thorough list of all solid wastes generated at the facility.

2. I strongly recommend conducting fish bioassay testing on all waste streams that have been determined to be non-hazardous. Designation is not complete until state criteria have been considered. Information on designation is available at: http://www.ecy.wa.gov/programs/hwtr/demodebris/pages2/designat_steps.html

3. The profiles indicate generator knowledge was used to designation most wastes as containing selenium, chromium, and cadmium, however our discussion with employees in past years led us to wonder if your processes still use enough of these metals to make all of your waste designate. The facility can certainly choose to simply "err on the side of caution" and manage all of these wastes as dangerous, but in that case, this decision should be well documented for each of the waste streams.

4. Designation and shipping paperwork from Safety Kleen for the parts washer solvent and filters should be kept with manifests. Spectrum Glass should be able to clearly identify whether or not the spent solvent and filter from the parts washer are dangerous waste or not.

5. If you determine that the parts washer wastes are hazardous, the 2011 dangerous waste annual report should be amended to include these waste streams.

6. Shipping paperwork from Emerald for used oil, spent antifreeze, and anything else they take should also be kept with the manifests.

7. Final signed copies of manifests must be received by Spectrum Glass within 35 days of the shipment. These copies should be put with the originals and be readily available for review during an inspection. If the final signed copy is ever not received within 35 days, Spectrum Glass must make an effort to obtain it, and then submit an exception report to Ecology by the 45th day.

8. Weekly inspections of the hazardous waste storage areas should ideally be conducted and logged by Tracey as the new Waste Coordinator.

RCRA Site ID #	Facility name	Site Visit date
WAD086248978	Spectrum Glass	March 13, 2012
Generator status	Facility address	Date Summary Sent
LQG	24105 Sno-Woodinvill Rd, Woodinville	March 27, 2012

9. General facility inspections must be planned and logged, but can be on whatever frequency schedule chosen by Spectrum Glass. The plan and log must be available for review during an inspection.

10. If your vendor is making you perform extra steps to segregate wastes, such as screening larger solids out of floor sweep, consider consulting other vendors. A list is available at: http://apps.ecy.wa.gov/hwsd/default.htm under "waste brokers".

11. Please contact Tracie Walters or Greg Stegman, storm water inspectors with Ecology, to inquire about storing metals and other materials outside. They may also be able to give you more in depth guidance on reducing zinc levels in Spectrum's storm water discharge. Spectrum's last storm water inspection from Ecology was in 2005. Tracie Walters (425) 649-4484. Greg Stegman (425) 649-7019.

12. Last year, Mark expressed interest in evaporating water from drums of brick saw waste. This waste must be designated first. If it designates as a dangerous waste, evaporation is considered treatment by generator (TBG) and the dangerous waste requirements for TBG must be met. Please see the publication on TBG at: http://www.ecy.wa.gov/biblio/96412.html and on Evaporation at: http://www.ecy.wa.gov/biblio/96414.html

13. The sewer drain outside, near the recirculation sump, is currently labeled as draining to a stream. It would be a good idea to have that re-labeled to indicate it goes to the sewer. Perhaps the Snohomish County Health District would know how to help with that. (425) 339-5200

14. The secondary containment for the used oil storage area should be cleaned out on a regular basis to prevent compromising the ability of the containment to catch any leaks/spills. This could be included on the general inspection as an item to check and clean out when needed.

15. If you determine any solid waste does not designate as hazardous/dangerous waste, you may be able to dispose of it into the general trash stream. You must contact Gary Hanada at the Snohomish County Health District at ghanada@shd.snohomish.wa.gov to get approval to do this.

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY
Northwest Regional Office • 3190 160th Avenue SE • Bellevue, Washington 98008-5452 • (425) 649-7000

April 6, 2011

Joanne Melcher
Spectrum Glass
PO Box 646
Woodinville, WA 98072

RE: Dangerous Waste *Requested Technical Assistance Visit* on March 29, 2011
RCRA ID#: WAD086248978

Dear Ms. Melcher:

Thank you for your time during my visit to your facility on March 29, 2011. As we discussed, this visit was primarily informational. It is part of Ecology's effort to do more assistance visits and get information about hazardous waste regulations directly to business people. During this visit, we discussed many of the waste streams that you generate, along with the appropriate requirements for proper handling and disposal.

I left a packet of information with you about compliance with the Washington State Dangerous Waste Regulations, Chapter 173-303 WAC. I am enclosing a summary of our recommendations based on our visit to your facility.

Please do not hesitate to contact me at (425) 649-7090 or daylin.davidson@ecy.wa.gov should you have questions about hazardous waste management or environmental concerns in general.

Sincerely,

Daylin Davidson
Hazardous Waste Compliance Inspector
Hazardous Waste and Toxics Reduction Program

DD:SA
Enclosures

By certified mail: 7010 3090 0002 0647 0430

RCRA Site ID #	Facility name	Site Visit date
WAD086248978	Spectrum Glass	March 29, 2011
Generator status	Facility address	Date Summary Sent
LQG	24105 Sno-Woodinvill Rd, Woodinville	April 6, 2011

Technical Assistance Visit Summary

Site contact name Joanne Melcher, Marti Kvalheim, & Mark	Inspector's Name Daylin Davidson
Site phone number (425) 483-6699	Inspector's Phone Number (425) 649-7090
Site contact e-mail address jmelcher@spectrumglass.com	Inspector's e-mail address Daylin.Davidson@ecy.wa.gov
Site Website www.spectrumglass.com	Back-up Inspector's Name Trudy Harding

The table below represents my understanding of your waste generation, status, and current management.

Wastes Generated	Current Status	Current Management
Bag house dust	Dangerous Waste	In boxes with super sack
Floor sweep	Dangerous Waste	Satellite super sacks
Flue fines	Dangerous Waste	Satellite 55-gallon drums
Refractory brick	Dangerous Waste	Satellite 55-gallon drums
Brick saw water	Dangerous Waste	Satellite 55-gallon drums
Recirculating pit water prior to treatment	Non-hazardous	Treated & evaporated or discharged
Recirculating pit sludge	Dangerous Waste	Super sack?
Contaminated PPE(Tyvek & gloves), liners, etc.	Dangerous Waste	Satellite super sacks
Sludge from cleaning floor trenches	Dangerous Waste	Added to floor sweep sacks
Sand blast dust	?	Added to floor sweep sacks
Safety Kleen parts washer solvent	?	Safety Kleen takes (manifest?)
Safety Kleen parts washer filter	?	Safety Kleen takes (manifest?)
Waste soda ash	Dangerous waste	?
Used spill cleanup absorbent	?	?
Used oil	Used Oil	55-gallon drums to Emerald Services
Oily rags/pigs	Dangerous Waste	Added to contaminated PPE sack
Oil/water separator sludge	Dangerous Waste	Evaporated & transferred to super sack

RCRA Site ID #	Facility name	Site Visit date
WAD086248978	Spectrum Glass	March 29, 2011
Generator status	Facility address	Date Summary Sent
LQG	24105 Sno-Woodinvill Rd, Woodinville	April 6, 2011

Spent antifreeze	Spent Antifreeze	55-gallon drums to Emerald Services
Spent bulbs (intact)	Universal Waste	Boxes to Waste Management
Broken bulbs	Dangerous Waste	?
Mercury containing devices	Universal Waste	Bucket to Waste Management
Spent batteries	Universal Waste	Bucket to Waste Management
Solvent wastes	Dangerous Waste	?
Paint wastes	?	?
Aerosol cans	?	?

RCRA Site ID #	Facility name	Site Visit date
WAD086248978	Spectrum Glass	March 29, 2011
Generator status	Facility address	Date Summary Sent
LQG	24105 Sno-Woodinvill Rd, Woodinville	April 6, 2011

Concerns and/or Suggestions

1. The most obvious challenge to compliance at this facility is the dispersion of hazardous waste management responsibilities. Mark is responsible for managing containers and waste accumulation areas. Joanne is responsible for shipping the wastes. Marti is responsible for overall safety and health as well as the chemical inventory. Monica Pillay is responsible for filing the annual dangerous waste report. Brandon Byhre is in charge of overall environmental compliance. More coordination is needed between all aspects of hazardous waste management. I recommend Spectrum Glass consolidate these responsibilities into one job position and provide thorough hazardous waste management training to the employee in that position as well as all positions that are delegated hazardous waste management responsibilities.

2. The second most obvious challenge to compliance at this facility is the lack of knowledge about all of the waste streams generated here, the designation status of all wastes, and their appropriate management. The table above represents my attempt to capture ALL of the waste streams generated at Spectrum Glass, but I would expect there are many more wastes I did not observe. Someone at Spectrum Glass needs to compile a thorough list of all solid wastes generated at the facility as a starting point for proper designation.

3. The third most obvious challenge to compliance at this facility is the incomplete and questionable waste profiles. Only THREE waste streams were reported on the 2010 dangerous waste annual report to Ecology. While it is acceptable to consolidate dangerous wastes that have the same waste codes, there appears to be many questions around the actual designation status of many wastes on site. I strongly recommend conducting laboratory testing on all solid waste streams in question. The profiles indicate generator knowledge was used to designation most wastes as containing selenium, chromium, and cadmium, however our discussion with employees led us to wonder if your processes still use enough of these metals to make all of your waste designate. The facility can certainly choose to simply "err on the side of caution" and manage all of these wastes as dangerous, but in that case, this decision should be well documented for each of the waste streams. (See Step 8 and the TCLP list at: http://www.ecy.wa.gov/programs/hwtr/demodebris/pages2/designat_steps.html) Besides the TCLP testing for the eight heavy metals, we would also recommend running zinc tests on the waste streams. This might give a clue on what product/waste is causing elevated levels of zinc in the stormwater. A review of current MSDSs may also be helpful.

4. Designation and shipping paperwork from Safety Kleen for the parts washer solvent and filters should be kept with manifests. Spectrum Glass should be able to clearly identify whether or not the spent solvent and filter from the parts washer are dangerous waste or not.

5. Shipping paperwork from Emerald for used oil, spent antifreeze, and anything else they take should also be kept with the manifests.

RCRA Site ID #	Facility name	Site Visit date
WAD086248978	Spectrum Glass	March 29, 2011
Generator status	Facility address	Date Summary Sent
LQG	24105 Sno-Woodinvill Rd, Woodinville	April 6, 2011

6. Final signed copies of manifests must be received by Spectrum Glass within 35 days of the shipment. These copies should be put with the originals and be readily available for review during an inspection. If the final signed copy is ever not received within 35 days, Spectrum Glass must make an effort to obtain it, and then submit an exception report to Ecology by the 45th day.

7. Inspections of the hazardous waste storage areas are being done twice a month. These must be done weekly, and logs must be available for review during an inspection. A sample log was left with Joanne, as she is currently conducting these inspections.

8. General facility inspections must be planned and logged, but can be on whatever frequency schedule chosen by Spectrum Glass. The plan and log must be available for review during an inspection. A sample log was left with Marti, as she is currently conducting these inspections.

9. Totes and super sacks located throughout the facility should not be managed as satellite containers. Instead, they should be managed as 90-day accumulation containers and dated as soon as the first drop of waste is put into the sack. Mark made a good suggestion to get rid of satellites and have one floor sweep sack with the start date applied immediately. He had a good idea for applying floor markings to delineate hazardous waste accumulation areas, and to avoid storing empty drums on the shop floor.

10. Start dates on super sacks of floor sweep in the 90-day accumulation area shed are not correct. We observed the dates as being the date the sack was first moved to that area; not when the first waste was put into the container. They should not be re-dated when consolidated.

11. Mark's idea to install a super sack as a filter in the recirculation system is very good. Ecology can consider the filter as part of a closed loop process and that the point of generation for the sludge accumulated in it will be when the filter is removed from the system (assuming the sludge is in fact a dangerous waste).

12. Joanne's idea to consolidate all dangerous waste super sacks into a cargo container is very good. The outside of the cargo container must be labeled with the words "hazardous waste" or "dangerous waste" and the appropriate risk label, as well as the start date of the oldest sack of waste.

13. If your vendor is making you perform extra steps to segregate wastes, such as screening larger solids out of floor sweep, consider consulting other vendors. A list is available at: http://apps.ecy.wa.gov/hwsd/default.htm under "waste brokers".

14. Please contact Tracie Walters, a storm water inspector with Ecology at (425) 649-4484, to inquire about storing metals and other materials outside. She may also be able to give you more in depth guidance on reducing zinc levels in Spectrum's storm water discharge. Spectrum's last storm water inspection from Ecology was in 2005.

15. Mark expressed interest in evaporating water from drums of brick saw waste. This waste must be designated first. If it designates as a dangerous waste, evaporation is considered treatment by generator (TBG) and TBG requirements must be met. Please see the publication on TBG at: http://www.ecy.wa.gov/biblio/96412.html and on Evaporation at: http://www.ecy.wa.gov/biblio/96414.html

16. When I reviewed the training plan in 2009, it contained the job levels, but did not specify what training is provided to each level. The plan should have more detail on hazardous waste training requirements. All employees involved in hazardous waste management should have job and site specific training to better enable them to perform their duties. Please consider hiring a contractor to perform on site, site-specific training to each employee that deals with dangerous waste. A list of vendors can be found at: http://apps.ecy.wa.gov/hwsd/default.htm under "consulting services". In addition, Department of Ecology Dangerous Waste presentations can be found at: http://www.ecy.wa.gov/programs/hwtr/workshops/index.html . For other training topics, you may want to browse through L&I's website at: http://www.lni.wa.gov/Safety/TrainTools/Videos/default.asp

17. When the first spent fluorescent bulb or battery is placed in the box, be sure to apply that start date, or maintain records (with the manifests) that show the date of the last shipment to demonstrate the universal waste has not been stored longer than 12 months.

18. You should investigate the cause of the corrosion of the cement near the recirculation sump, between the dead sump and the sewer drain. (The air compressor water drains here.)

19. Consider labeling empty drums with a magnet containing the word "Empty", or don't store them with waste drums. Please refer to Ecology's Fact Sheet on safe container handling for further information: http://www.ecy.wa.gov/biblio/96431.html

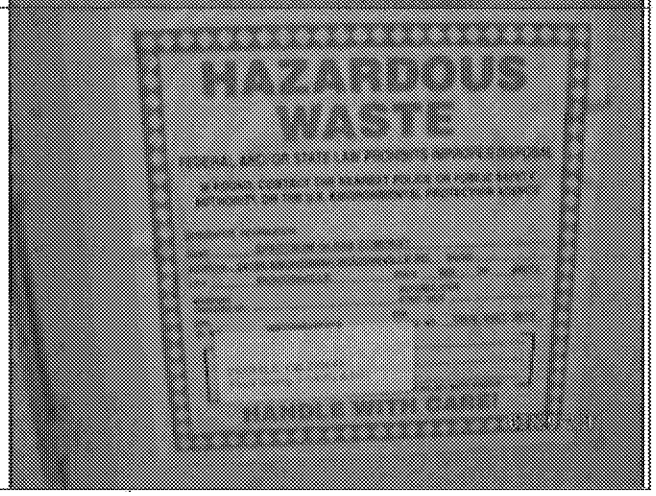
20. When Monica filed the annual report for 2010, she checked box 10.A.12.d.3 to indicate the facility burns dangerous waste as fuel in an industrial furnace on site. We did not see any activity that would indicate this activity is occurring on site. Please ask Monica to revise the report.

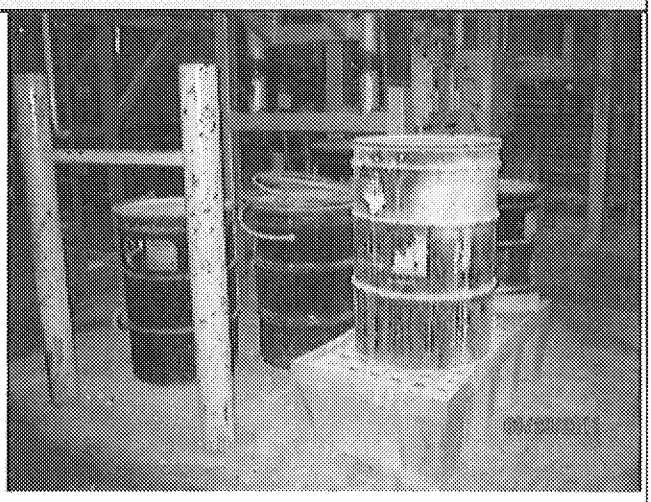
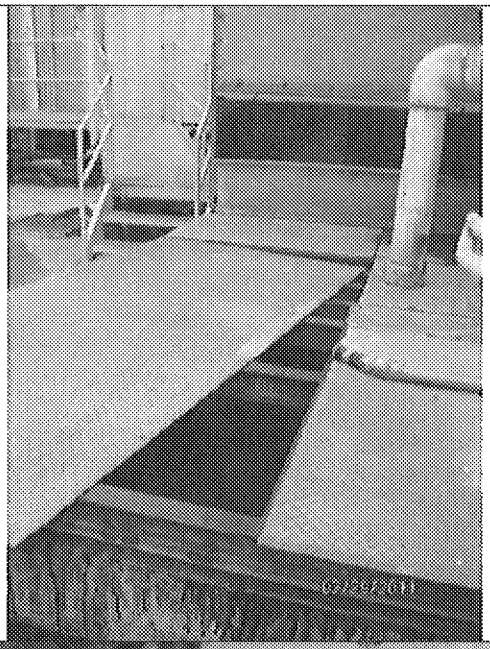
21. The secondary containment for the used oil storage area should be cleaned out on a regular basis to prevent compromising the ability of the containment to catch any leaks/spills.

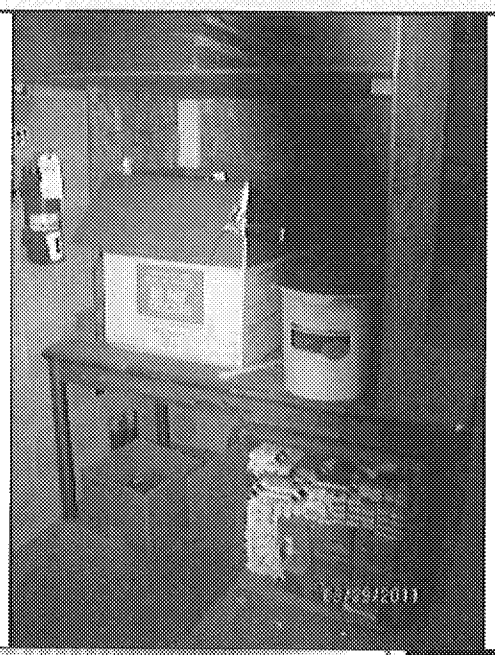
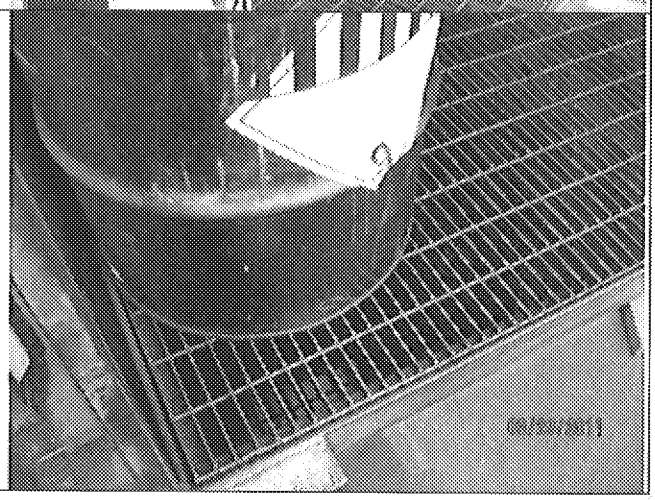
22. If you determine any solid waste does not designate as hazardous/dangerous waste, you may be able to dispose of it into the general trash stream. You must contact Gary Hanada at the Snohomish County Health District at ghanada@shd.snohomish.wa.gov to get approval to do this.

Photo Log

Photographer: Trudy Harding **Witness: Daylin Davidson**

Area & Description	Photographs
#1 Outside Storage for Metals	
#2 Across from Maintenance Shop Bin of floor sweepings. Close up of label is in Photo #3.	
#3 Across from Maintenance Shop No start date-difficult to maintain this as satellite accumulation area. Is its own secondary containment as there is a super sack inside.	

Area & Description	Photographs
#4 Station F-4 The drums to the left and in the very back are flue and stack fines. Satellite accumulation limits a specific waste stream to fifty-five gallons. The drum on secondary containment pallet is brick saw water; the hazardous waste label is half missing. The drum in the center and the one behind secondary containment are refractory brick waste. Satellite accumulation limits a specific waste stream to fifty-five gallons. All contain cadmium, chromium, and selenium according to labels and profiles.	
#5 Outside-Water Cooling/Recirculation Pit A supersack placed inline would act as a filter for small debris particles collected through the circulating/cooling water used for cool down. Would not be treatment by generator since the filter is part of the system.	
#6 Outside-Water Cooling/Recirculation Pit Concrete is deteriorating. Could not trace where liquid was coming from.	

Area & Description	Photographs
#7 Universal Waste Storage Area Combination of product (lamps) and waste (lamps, mercury switches, batteries). Disposal is prepaid. No dates but paperwork would suffice for keeping less than one year.	
#8 Lubricant Storage Area (Outside) In this area were two Used Oil drums, two Spent Antifreeze, one transmission fluid drum, and two hazardous waste drums of pigs, oil solids, and three empty containers. Area has secondary containment (See Photo #9)	
#9 Lubricant Storage Area (Outside) Suggest cleaning out secondary containment in this area.	

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY
Northwest Regional Office • 3190 160th Avenue SE • Bellevue, Washington 98008-5452 • (425) 649-7000

December 12, 2011

Kyle Barker
Spectrum Glass Co Inc
PO Box 646
Woodinville, WA 98072

RE: Dangerous Waste Compliance Inspection on November 29, 2011 at Spectrum Glass Co. Inc., 24105 Snohomish Woodinville Road, Woodinville RCRA ID#: WAD086248978

Dear Mr. Barker:

Ecology's Hazardous Waste and Toxics Reduction Program recently conducted a Dangerous Waste compliance inspection at your facility. The Dangerous Waste Regulations[1] establish a safe and responsible system to manage dangerous waste. I have listed the violations at Spectrum Glass Co. Inc. in the enclosed Notice to Comply. You must complete the actions needed to correct these violations and return the enclosed completed **Compliance Certificate** within 30 days of receipt of this letter to the address above.

Failure to comply with these requirements within 30 days could result in an administrative order and a penalty of up to $10,000 per day for each violation.

If you have any questions or need clarification of the information in this inspection report, please contact me at (425) 649-7216 or Warren.Walton@ecy.wa.gov.

Sincerely,

Warren Walton

Warren Walton
Hazardous Waste Compliance Inspector
Hazardous Waste and Toxics Reduction Program

WW:SA
By certified mail:7010 3090 0002 0647 3639

cc: Mr. Brandon Byhre, Spectrum Glass Co Inc
Ms. Monica Pillay, Spectrum Glass Co Inc

[1] Authority: WAC 173-303 and RCW 70.105.080

RCRA Site ID #	Facility name	Inspection date
WAD086248978	Spectrum Glass Co Inc	November 29, 2011
Generator status	Facility address	Date Report Sent
LQG	24105 Snohomish Woodinville Road, Woodinville	December 12, 2011

NOTICE TO COMPLY

Site contact name and title	Inspector's Name
Monica Pillay	Warren Walton
Site phone number	Inspector's Phone Number
(425) 483-6699	(425) 649-7216
Site contact e-mail address	Inspector's e-mail address
monica@spectrumglass.com	Warren.Walton@ecy.wa.gov
Site Website	Back-up Inspector's Name
http://www.spectrumglass.com/	David P. Keeney & Daylin Davidson

Notes:

1. A re-inspection can occur at any time to verify the correction of the violations listed below.
2. Ecology may take formal enforcement action even if the violation(s) are corrected.

WAC 173-303-	Summary of Violations Including Observations	Actions Needed
330	The written personnel training plan was inadequate. Training records are not maintained. WAC 173-303-200(1)(e) and by reference 330: Training requirements were not met. The facility should have a training program, a written training plan, and keep training records.	Develop a dangerous waste training program that includes a written training plan and records per WAC 173-303-330. When you return the enclosed Compliance Certificate, include a description of the training program, a copy of the training plan, and a copy of the record of the most recent training event.
070(3)	Brick saw waste water, sand blast grit, k-wool waste, and a super sack of unknown contents have not been designated. Paint related wastes were not properly designated. Solvent used in the on-site parts washer has not been fully designated. WAC 173-303-170(1) and by reference 070(3): Sites must properly designate solid waste prior to disposal. Sites must follow proper procedures when determining if a solid waste is also a dangerous waste or an extremely hazardous waste.	When returning the enclosed Compliance Certificate, provide documentation that designation of all solid wastes has occurred. The documentation shall at least include copies of the analytical results of designation testing and justification for any determinations that are based on generator knowledge as defined in WAC 173-303-040. See the concerns and suggestions section for more information.
210(3)	Waste designation records were not available for numerous waste streams including paint related wastes and k-wool insulation wastes. WAC 173-303-170(2) and by reference 170(1) and 210(3): Waste designation records were not kept by the generator for at least five years.	Get copies of any test results, analyses or other determinations made in designating your wastes. When returning the enclosed Compliance Certificate, provide documentation that designation of all solid wastes has occurred. These copies must be kept for a minimum of five years from the date the waste is last transferred from your site for treatment, storage, or disposal and made available upon

RCRA Site ID #	Facility name	Inspection date
WAD086248978	Spectrum Glass Co Inc	November 29, 2011
Generator status	Facility address	Date Report Sent
LQG	24105 Snohomish Woodinville Road, Woodinville	December 12, 2011

WAC 173-303-	Summary of Violations Including Observations	Actions Needed
		request to ensure that designation has occurred and to document the decision making process for waste designation. See the concerns and suggestions section for more information.
350(3)	The storm water pollution prevention plan (SWPPP) provided to Ecology does not possess the required elements to qualify as a contingency plan for dangerous waste purposes. WAC 173-303-200(1)(e) and by reference 350(3): An adequate contingency plan was not maintained or available.	You must amend the current SWPPP or create a standalone contingency plan or spill prevention control and countermeasures (SPCC) plan that incorporates the dangerous waste management provisions of WAC 173-303-350 and WAC 173-303-360. Submit a copy of the amendments or the new document when you return the enclosed Compliance Certificate.
320(1)	No schedule exists for conducting general facility inspections. WAC 173-303-200(1)(e) and by reference 320(1): General facility inspections were not conducted.	Plan, conduct, and document a general facility inspection to meet the specific requirements of 320(2) and 320(3). Inspections must be frequent enough to identify and correct problems before they harm human health or the environment. When you return the enclosed Compliance Certificate, include copies of the schedule and log sheet.
210(1)	Manifests signed by the designated receiving facility were not available for shipments occurring on June 23 and August 24, 2011. WAC 173-303-170(2) and by reference 180(3) and 210(1): The appropriate signed uniform hazardous waste manifests were not kept by the generator.	Obtain copies of uniform hazardous waste manifests for shipments of wastes from your facility that occurred on these dates. Create procedures to ensure that copies of the signed uniform hazardous waste manifests are kept for the required five years and made available upon request. When you return the enclosed Compliance Certificate, provide copies of these uniform hazardous waste manifests.
630(5)(a)	Two drums used for accumulating furnace flue waste were not closed. WAC 173-303-200(1)(b) and by reference 630(5)(a): Keep containers of dangerous waste closed except while adding or removing waste.	Upon receipt of this letter, close all containers holding dangerous waste. Containers can only be open when adding or removing waste per WAC 173-303-630(5). When you return the enclosed Compliance Certificate, include one or more photographs showing that your containers are properly closed.

200(1)(c)	The accumulation start date was not clearly visible on floor sweep totes in the production area. A drum containing "drain sludge" and a drum containing "spill pads and absorbents" both lacked an accumulation start date. WAC 173-303-170(2) and by reference 200(1)(c): Containers of dangerous waste were not marked with the date accumulation began and/or the date accumulation began was not clearly visible for inspection on each container.	Upon receipt of this letter, clearly write the accumulation start date on all containers holding dangerous wastes, excluding satellite containers. Also ensure that the date accumulation began is clearly visible for inspection on each container. Photograph the properly labeled container(s) for this waste stream and include the photo when you return the enclosed Compliance Certificate.
200(1)(d)	A container of spent floor sweep lacked a major risk label. The hazardous waste label on a container of furnace flue waste was degraded to the point of illegibility. A container of furnace flue waste lacked a major risk label. WAC 173-303-170(2) and by reference 200(1)(d): Containers of dangerous waste were not identified with the words "Hazardous Waste" or "Dangerous Waste" and/or the major risk(s) associated with the waste.	Upon receipt of this letter, label all containers of dangerous waste in accordance with WAC 173-303-200(1)(d). Photograph the properly labeled containers for these waste streams and include the photos when you return the enclosed Compliance Certificate.
573(10)	Batteries stored in the universal waste accumulation area were not properly labeled. WAC 173-303-573(10): Universal wastes must be properly labeled or marked to identify the type of universal waste as required by this section.	Upon receipt of this letter, label or mark the universal waste batteries with the words "Universal Waste - Battery(ies)", "Waste Battery(ies)", or "Used Battery(ies)". Photograph the properly labeled container(s) and include the photo when you return the enclosed Compliance Certificate.
573(11)	A box containing U-shaped fluorescent tubes in the universal waste accumulation area lacked an accumulation start date. Batteries stored in the universal waste accumulation area lacked an accumulation start date. Paperwork was not provided to document disposal of these waste streams within the last year. WAC 173-303-573(11): Universal wastes may only be accumulated for up to one year, except as noted in 173-303-573(11)(b). Documentation must exist to demonstrate that the time limits have been met.	Properly transport universal waste to another universal waste handler or a universal waste destination facility. When you return the enclosed Compliance Certificate, show that accumulation time limits have been met, using a one of the methods described in WAC 173-303-573(11)(c).

RCRA Site ID #	Facility name	Inspection date
WAD086248978	Spectrum Glass Co Inc	November 29, 2011
Generator status	Facility address	Date Report Sent
LQG	24105 Snohomish Woodinville Road, Woodinville	December 12, 2011

Concerns and Suggestions

Program Organization

As stated in the report from last March's technical assistance site visit, the largest challenge to achieving on-going compliance at Spectrum appears to be the dispersion of hazardous waste management responsibilities. Currently one individual is responsible for managing containers and accumulation areas; another is responsible for shipping wastes, a third for overall safety and health, and a fourth for annual reporting and paperwork. Significant matters including dangerous waste training, waste designation, and emergency spill procedures appear to not be the sole responsibility of any single individual.

The potential failures of such an organizational system were demonstrated by Spectrum's inability to provide essential documents in a timely fashion. While we were on-site, the dangerous waste management staff was unable to provide an appropriate training plan or contingency plan. Several personnel stated that they thought something like that existed but were unsure of its location. The purpose of these documents is to ensure that, with regards to dangerous waste management, staff receives appropriate training and is aware of the steps to take if an emergency occurs. When the location of these documents is unknown to management level staff then the documents are clearly not serving their intended purpose.

Ecology has observed historically that those facilities which achieve the greatest success in maintaining compliance with the dangerous waste regulations have assigned the responsibility of the tasks listed above to a single individual. Furthermore the assigned individual must be allotted an appropriate amount of time to handle the outlined tasks. The assigning of an environmental supervisor at your facility is a step in the proper direction; however, the individual assigned to this, was unable to meet with us during our inspection. If the environmental supervisor does not have the time to meet with state compliance inspectors while they are on-site, then it is considered highly unlikely that he is being allotted the appropriate amount of time that it takes to manage a successful dangerous waste compliance program.

Waste Designation

There is currently a general lack of knowledge at Spectrum regarding waste streams and the designation status of all wastes. As a part of the March 2011 technical assistance site visit Ecology compiled the following list of waste streams generated at your facility (This list represents Ecology's March 2011 attempt to identify all industrial waste streams at your facility. There are potentially more waste streams we have not identified):

- Bag house dust
- Floor sweep
- Flue fines
- Refractory brick
- Brick saw water
- Recirculating pit water prior to treatment
- Recirculating pit sludge
- Contaminated PPE, liners, etc
- Sludge from cleaning floor trenches
- Sand blast dust
- Safety-Kleen parts washer solvent
- Safety-Kleen parts washer filter
- Waste soda ash
- Used spill cleanup absorbent
- Used oil
- Oily rags/pigs
- Oil/water separator sludge

- Spent antifreeze
- Spent fluorescent bulbs (intact)
- Broken fluorescent bulbs
- Mercury containing devices
- Spent batteries
- Solvent wastes
- Paint wastes
- Aerosol cans

The Washington State Dangerous Waste Regulations require that you designate all waste streams at your facility. Despite previous recommendations by Ecology, this requirement still remains incomplete. Some of the issues caused by the incomplete waste designation process were made apparent during our tour of the facility. We noted a drum of brick saw water in your facility; however, Spectrum personnel did not know whether or not the waste was hazardous. We were told that painting and solvent wastes are added to the drum containing absorbents, spill pads, and personal protective equipment. Based on labeling on this drum, these materials are likely being handled and disposed of as materials contaminated with cadmium, chromium, and selenium. This profile does not account for risks posed by paints and solvents; as such, this practice could represent improper disposal of dangerous wastes.

In order to properly designate all waste streams at your facility, Ecology recommends taking the following steps:

1. Complete a list of all waste streams generated at your facility, the list provided above is a good starting point for this.
2. Evaluate each waste stream you identify for both federal and state dangerous waste characteristics including ignitability, corrosivity, reactivity, toxicity, and persistence. This may be accomplished with a combination of generator knowledge and laboratory testing. In accordance with The Washington State Dangerous Waste Regulation (WAC 173-303-210(3)) you must maintain records of this process including any test results, waste analyses, or other determinations (i.e. generator knowledge) made for designating dangerous waste.
3. Once you have properly designated each waste you may choose to consolidate dangerous wastes with similar waste codes to facilitate storage and disposal. It is essential that you have accurate designation information for **each** waste stream before combining them.

Following these steps for proper designation, and then training staff on the designation status of all wastes, will aid personnel at your facility in the proper handling and disposal of wastes. In addition to facilitating compliance with the dangerous waste regulations, you may find that a small amount of relatively inexpensive laboratory testing could lead to significant savings in waste disposal costs as some waste streams me be over designated – may be Washington State waste or even non-hazardous.

I understand that your facility manages a large number of waste streams and this can make designation seem like a daunting task. Ecology has numerous publications and personnel available to aide you in your efforts. Please do not hesitate to contact me with questions or for clarification of the waste designation requirements.

RCRA Site ID #	Facility name	Inspection date
WAD086248978	Spectrum Glass Co Inc	November 29, 2011
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COMPLIANCE CERTIFICATE

Instructions:

1. Complete this page **within 30 days of the receipt of the letter.**

   Note: You may request an extension before this Compliance Certificate is due. You must make this request in writing and include the reason for the extension and propose a new date of completion.

2. Send this page with any supporting documentation such as photos, copies of manifests/disposal records or receipts, and if applicable, your request for extension, to:

Attn: Warren Walton
Department of Ecology
3190 160th Ave SE
Bellevue, WA 98008

Summary of Hazardous Waste Violation Compliance Action				
Check the type of documentation				
Violation Code	Photo	Paperwork	Statement	Notes
330				
070(3)				
210(3)				
350(3)				
320(1)				
210(1)				
630(5)(a)				
200(1)(c)				
200(1)(d)				
573(10)				
573(11)				

1. I certify that the violations noted on the Notice to Comply page have been corrected.
2. I personally examined any attached documentation submitted as proof of compliance and I believe the information to be true, accurate, and complete.
3. I am aware:
   - There are significant penalties for submitting false information and/or for non-compliance with regulations.
   - My signature **certifies compliance** with every regulation noted on the Notice to Comply page.
4. I declare under penalty of perjury the foregoing certification is true and correct.

Signature	Printed name
Position/title	Date

RCRA Site ID #	Facility name	Inspection date
WAD086248978	Spectrum Glass Co Inc	November 29, 2011
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Inspection Report

Facility Background

Spectrum Glass Company, Incorporated (Spectrum) is a manufacturer of specialty sheet glass for use in architecture, fine arts, hobby crafts, lighting, and other applications. Spectrum is a large quantity generator (LQG) of dangerous waste.

The Washington State Department of Ecology (Ecology) Hazardous Waste and Toxic Reductions (HWTR) program conducted previous compliance inspections of this facility in 1997, 2000, 2005, and 2009. Additionally, at the request of Spectrum, Ecology HWTR personnel conducted a hazardous waste compliance technical assistance visit at this facility in March of 2011. As a result of these inspections and site visits occurring throughout the last 14 years, Ecology has noted a number of recurring challenges impeding the goal of on-going compliance with the dangerous waste regulations. Most prominent amongst these challenges is a failure to properly complete and document the waste designation process for **ALL** waste generated at the facility. A summary of historical violations observed and cited at Spectrum is summarized for reference in Table 1.

Table 1: Compliance Summary

Violation Observed	Inspection Date					
	11/19/1997	11/14/2000	10/04/2005	04/14/2009	03/29/2011 (1)	11/29/2011 (4)
070(3): Designation	X		x	X	x	X
330 Designation records not maintained						X
630(5)(a): Open Containers		x		X	x	X
200(1)(d): Labeling Containers	X	X	X	X	x	
200(1)(c): Start Dates on Containers			X	X	x	X
200(2): Satellite Accumulation requirements		X		X	x	
630(5): Aisle Space		X		X		
630(7): Secondary Containment			X			
630(6): Weekly Inspections	X	X			x	
210(1): Manifest records not maintained					x	X
330: Personnel Training Plan/Records				x	x	X
320: General Facility Inspections					x	X
350: Contingency Plan						X
515: Used Oil Container Management				X		
522(2)(a): Spent Antifreeze Management				X		
573(9-11): UW labeling, storage, time limit						X

Notes: 1.) Observations made during technical assistance visit provided at the request of Spectrum personnel
2.) X denotes a violation was cited in the inspection report
3.) x denotes the compliance issue was observed but not formally cited as a violation
4.) Observations from the inspection on this date are summarized in the following report

Warren Walton, David Keeney, and Daylin Davidson of Ecology's HWTR program arrived at the facility at approximately 9:00 a.m. on November 29, 2011 to conduct an unannounced dangerous waste compliance inspection. We requested to speak with Mr. Brandon Bhyre, the facility's Environmental Supervisor. We were told that Mr. Bhyre was in a meeting at this time and therefore unable to meet with us. In Mr. Bhyre's absence we met with Ms. Monica Pillay, Ms. Marty Kvalheim, Mr. Derek Stong, and Bob to discuss

dangerous waste generation and management at the facility. Shortly thereafter we were joined by Ms. Joanne Melcher. We were told that Ms. Melcher had been attending the same meeting as Mr. Bhyre this morning; however, for reasons that were not made clear to us, Mr. Bhyre was still unavailable to join us for the inspection. Our inspection consisted of a discussion of dangerous waste generation and management with the aforementioned Spectrum personnel, a review of available pertinent records and a tour of portions of the facility where dangerous waste is generated and/or managed.

Records Review

We requested to review uniform hazardous waste manifests for 2011 year to date, weekly dangerous waste accumulation area inspection logs, general facility inspection logs, the facility's contingency plan, and the dangerous waste training plan and associated training records. Our review of each of these required records is detailed below:

Uniform Hazardous Waste Manifests

Prior to reviewing the manifests we were told that Ms. Melcher is responsible for organizing shipments of dangerous waste and signing manifests and Ms. Pillay is responsible for maintaining records of these shipments. Spectrum currently contracts with Chemical Waste Management, Incorporated (Waste Management) for the transport and disposal of dangerous waste generated at this facility.

We reviewed the 2011 year to date uniform hazardous waste manifests. We noted that Spectrum ships dangerous waste approximately every 1 to 2 months. We identified no gaps of more than 90 days between dangerous waste shipments. The same three waste profiles were listed on each manifest for 2011 and each profile contained the D006 (cadmium), D007 (chromium) and D010 (selenium) waste codes. For dangerous waste shipped from the site on June 23, 2011 (002655985 FLE) and August 24, 2011 (003968152 FLE), a final manifest copy, signed by the receiving facility, was not present. We explained to Ms. Pillay and Ms. Melcher that they are required to receive a signed copy of the manifest from the designated receiving facility within 35 days of the wastes shipment. We said that if they do not receive a signed final copy of the manifest within 35 days, they must contact the transporter(s) and/or designated facility to determine the status of the waste shipment. If they cannot obtain a copy of the manifest with the handwritten signature of the operator of the designated disposal facility within 45 days, they are required to submit an exception report to Ecology. Ms. Pillay agreed to contact Waste Management and attempt to obtain the appropriate final manifest copy for these two shipments.

Weekly Dangerous Waste Accumulation Area Inspection Logs

Inspections of the facility's dangerous waste accumulation areas are conducted and documented by Ms. Melcher. Our review of these inspection logs found them to contain all of the required information and showed inspections are being conducted consistently on a weekly basis.

General Facility Inspections

We were told by Spectrum personnel that there is currently no written schedule for inspecting monitoring equipment, safety and emergency equipment, security devices, and operation and structural equipment that help prevent, detect, or respond to hazards to the public health and/or environment. Some of these items are assessed by the safety and health and maintenance departments; however these activities are not documented.

Contingency Plan

At the time of this inspection Spectrum was unable to provide us with a copy of a written contingency plan for the facility. Several of the elements required to be identified in a written contingency plan are present in the facility's Storm Water Pollution Prevention Plan (SWPPP), which was provided electronically to Ecology; however, this document lacks numerous elements required in a contingency plan and as such cannot be accepted in lieu of a contingency plan.

Dangerous Waste Training Plan and Records

While on-site we requested to view all written plans and records related to dangerous waste training required and received by Spectrum personnel. Ms. Pillay was able to produce a series of slides titled "Hazardous Waste Training". While these training slides contained valuable information, it was unclear as to which personnel receive training with these slides and how often the training occurs.

As a follow up to our inspection, Ms. Pillay was able to locate and provide Ecology an electronic copy of the "Spectrum Glass Company Dangerous Waste Management Written Personnel Training Plan WAC 173-303, 173-303-330". Mr. Walton reviewed this document and found it to contain many of the required training plan elements; however, the plan does not differentiate between required orientation training versus position training and makes no mention to annual refresher of the trainings. As these elements are lacking, the training plan was found to be incomplete.

The training plan as submitted to Ecology electronically contains several sheets designed to document employee dangerous waste training. Ecology requested to see training records specifically for Mr. Brandon Byhre, Bob, and Ms. Joanne Melcher. To date, no dangerous waste training records have been provided.

Facility Tour

Spectrum personnel told us the following about the facility's waste generation and management:

- There is one parts washer present on-site. Safety-Kleen Systems, Inc. (Safety-Kleen) maintains the parts washer and takes all waste solvent from the parts washer.
- Spent fluorescent tubes are managed by Spectrum personnel and stored on-site.
- Only non-hazardous cooling water is processed in the on-site evaporator outside.
- No dangerous waste is burned on-site; the box indicating this activity is being conducted was marked erroneously on the 2010 dangerous waste annual report.
- Dangerous waste is shipped from the facility every 1-2 months due to a lack of storage space in the 90-day dangerous waste accumulation area.
- Transport of dangerous waste from the facility for proper disposal is contracted to Chemical Waste Management.

We began our facility tour in the batch production area. Here we viewed a super sack tote used to accumulate spent floor sweep materials. The container had the appropriate hazardous waste and risk labels and we were told that the accumulation start date was written on the super sack inside the tote. We explained to Spectrum personnel that the accumulation start date needs to be labeled on the outside of the tote so that it is clearly visible during weekly inspections. When the super sack is removed from the tote and moved to the dangerous waste accumulation area located outside the production area the original accumulation start date must be transferred to the super sack as well.

From the batch production area we proceeded to the facility's main 90-day dangerous waste accumulation area. This accumulation area is situated on the exterior portion of the site and access is restricted by a locked gate. The area is covered by a roof and, as no liquid wastes are stored in this area, no secondary containment is required. In this area we observed numerous super sacks containing dangerous waste. Each container was marked appropriately with the words "hazardous waste", the major risk associated with the contents, and an accumulation start date. Based on the accumulation start dates we did not identify any containers that had been stored in this area for longer than 90 days.

Situated outside the fenced 90-day dangerous waste accumulation area we observed a metal 55-gallon drum bearing a hazardous waste label. Spectrum personnel were unsure of the origins of this drum. As the lid was not properly secured, Spectrum personnel were able to lift the top and identify the contents as k-wool insulation. Although the drum contained a hazardous waste label, Spectrum personnel were unclear as to whether or not the contents are actually hazardous. We explained the need to properly designate this waste stream. If the waste stream designates as hazardous, all labeling and accumulation time limits apply. If the waste is non-hazardous it can likely be disposed of through the facility's solid waste stream. In the interim, the drum should be labeled as "waste pending designation" with an accumulation start date.

From the outdoor 90-day dangerous waste accumulation area we returned indoors to the area where the refractory furnace flue is located. The first item we noted in this area was a standard trash container labeled as containing floor sweep. The container had an appropriate hazardous waste label and a closed lid; however, it was lacking a major risk label. This container can be considered a satellite accumulation container and as such no accumulation start date is required.

In this area we also noted two, 55-gallon drums bearing hazardous waste labels. We were told by Spectrum personnel that these drums are used to accumulate materials generated from cleaning of the refractory furnace flue. Neither of these drums was properly closed. One of the drums had the appropriate hazardous waste and risk labels; however, the second drum lacked a risk label and the hazardous waste label was degraded to the point that portions of it were not legible.

Directly across from the refractory furnace flue area we observed a super sack with no labels present. We asked Spectrum personnel about the contents of this container. Spectrum personnel accompanying us on the facility tour said it was contractor waste from roof repair work, but did not know the contents of this container. We explained that if the contents of this container are unknown then it needs to be evaluated for the dangerous waste criteria and labeled as waste pending designation until a determination is made.

Across from the unlabeled super sack we observed a 55-gallon drum atop a secondary containment device. This drum contained the remnants of a dangerous waste label that had either been scraped off or degraded. A risk label was also present on this drum. The lid for this drum was not properly closed. Spectrum personnel stated that this drum is used to accumulate bricksaw waste water. None of the Spectrum personnel knew whether or not this is a dangerous waste. In this area we also observed a sand blasting machine which we were told is used to clean glass from ladles. Spectrum personnel were uncertain if the grit generated from this machine designates as a dangerous waste. When the grit is spent, it is currently combined with the floor sweep waste stream, which is managed as a dangerous waste.

Next we proceeded to the south electrical room where universal wastes are accumulated. In this area we noted three (3) cardboard containers used to accumulate spent fluorescent lamps of varying sizes. The two boxes used to accumulate long fluorescent tubes were labeled appropriately with the words "universal waste lamps" and an accumulation start date. The third box, used to contain smaller, U-shaped tubes lacked an accumulation start date. Across from the spent fluorescent tubes we observed a cardboard box labeled "batterys". It was unknown whether these are spent batteries or not. If the batteries are spent, the container must be labeled with the words "Universal Waste - Battery(ies)", "Waste Battery(ies)", or "Used Battery(ies)" as well as an accumulation start date.

From the universal waste accumulation area we proceeded to the maintenance building where the facility's parts washer is located. We were told the parts washer is used to clean grease and oil from mechanical parts. The MSDS for the parts washer solvent identified the solvent as a non-dangerous waste. Mr. Walton recommended contacting Safety-Kleen to verify there is no tetrachloroethylene or trichloroethylene less than 1% by volume in the solvent. Commonly materials present in concentrations less than one percent are not

required to be listed on a product's MSDS. If either tetrachloroethylene or trichloroethylene is present in the original product, Spectrum Glass should be told the concentration of each chemical.

After viewing the parts washer in the maintenance area, we were directed to the facility's exterior yard where used oil, spent antifreeze, and several dangerous wastes are accumulated. These materials are all accumulated in dedicated 55-gallon drums situated in a covered storage area with secondary containment provided in the form of a dead sump. Used oil and spent antifreeze were noted to be stored in closed containers with the appropriate label wording present. One 55-gallon drum labeled as containing "drain sludge" was observed to be lacking an accumulation start date. A 55-gallon drum labeled as containing absorbents and spill pads labeled as flammable lacked an accumulation start date. We were later told by Spectrum personnel that waste paint and spent painting solvents are also added to this drum. Solvent based paints and related materials are likely associated with hazards (ignitability) that are distinctly different from those generated during the glass manufacturing process. The waste stream generated by paint wastes must be designated for the dangerous waste criteria. If you choose to continue to co-mingle these waste streams, the associated waste profiles for disposal must be amended to include all hazards presented by these waste streams.

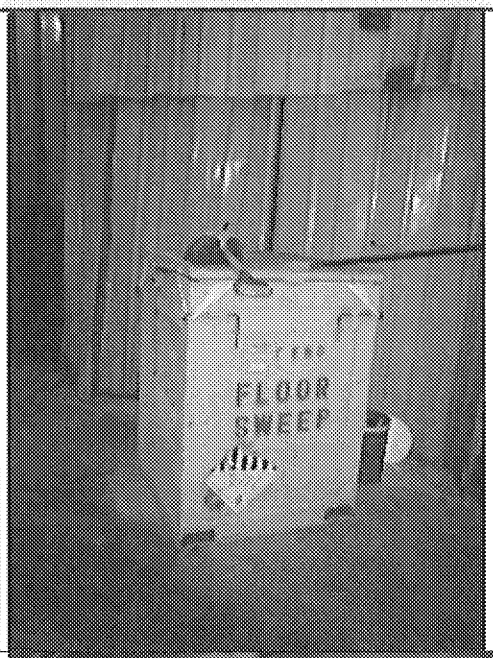
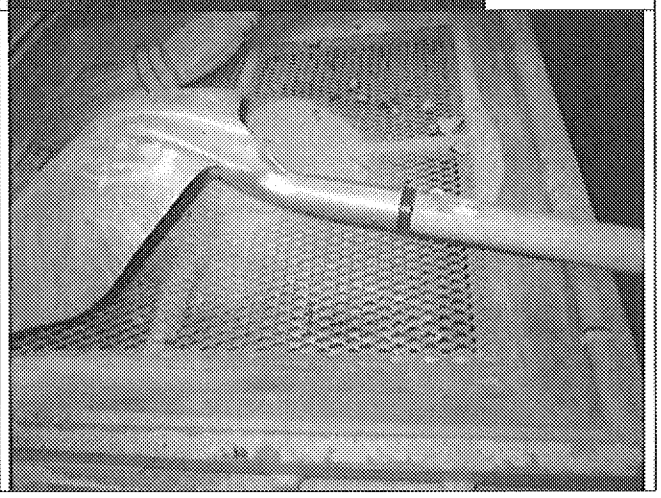
Next we were escorted to the portion of the facility's exterior yard where the on-site evaporator is located. We were told that cooling liquid evaporated in this unit is non-hazardous. Sludge generated from the evaporation of this cooling liquid is handled as a dangerous waste. Next to the evaporator we observed a water catch basin. The cover on the catch basin stated that the basin drains directly to a stream; however a sign located above the drain indicated that it flows to the sanitary sewer. Spectrum staff said they thought the catch basin drained to the sanitary sewer. We noted an outfall pipe from underneath the facility was draining to a dead sump. The contents of this sump are then pumped into the "sanitary sewer" catch basin. At the time of inspection Spectrum personnel were unable to identify the origin of this outfall pipe.

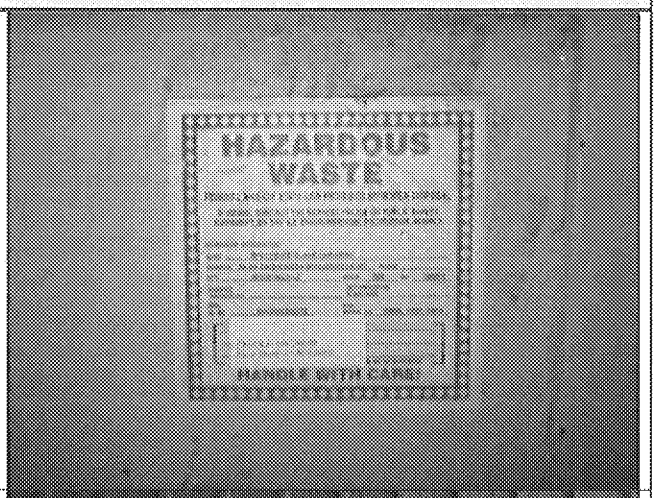
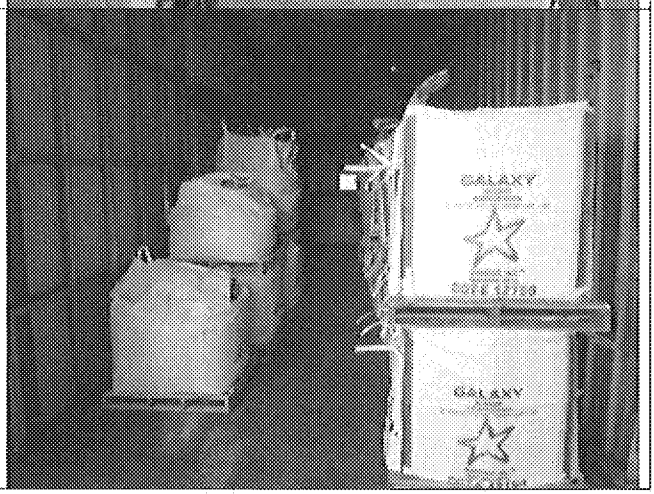
We concluded our inspection and left the facility at approximately 11:15 a.m.

PHOTOS ☒ Yes ☐ No
SAMPLES ☐ Yes ☒ No

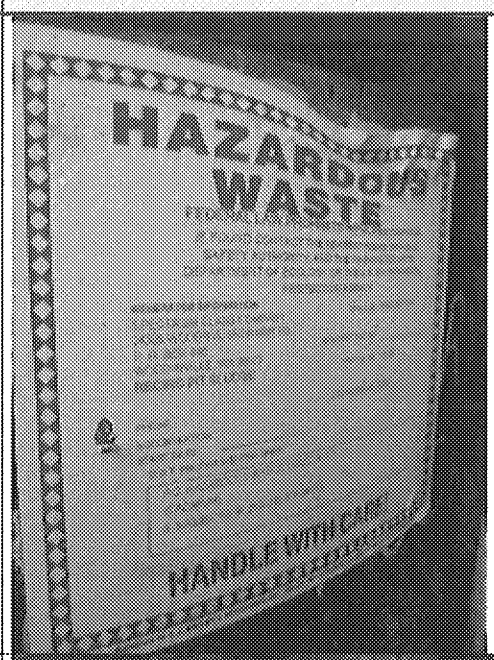
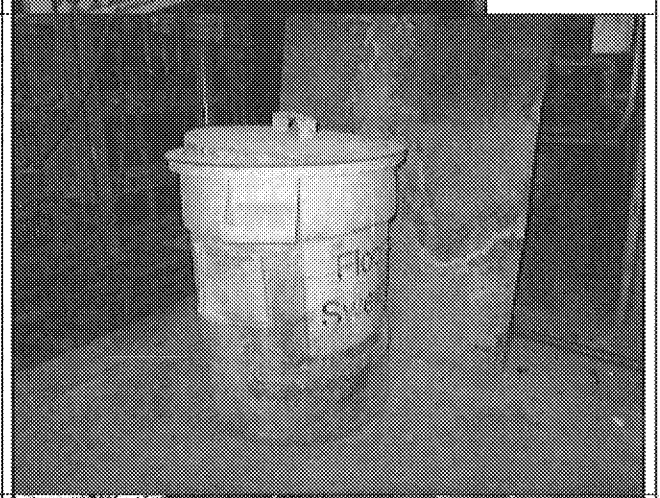
Photo Log

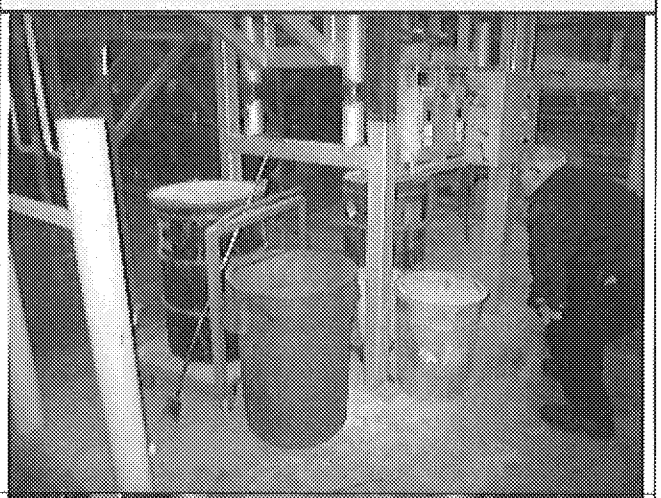
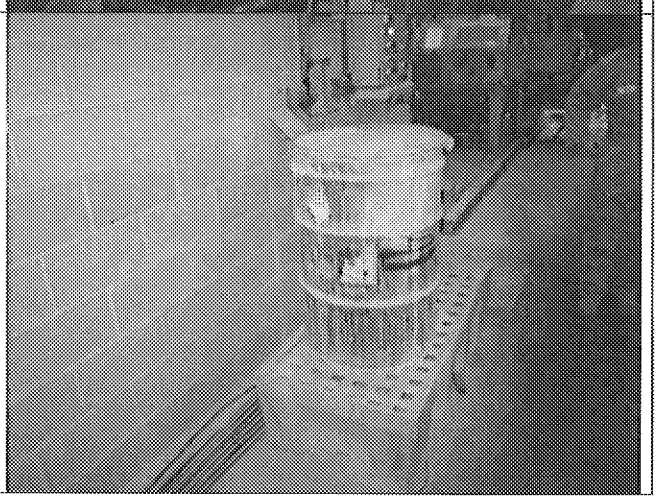
Photographer: David P. Keeney **Witness: Warren Walton, Daylin Davidson**

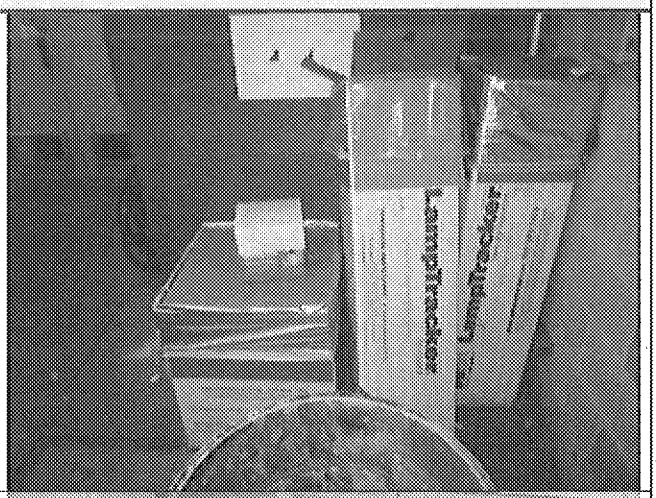
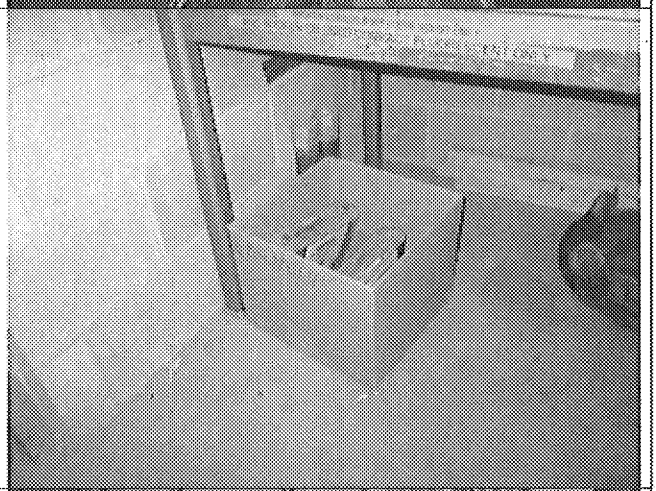
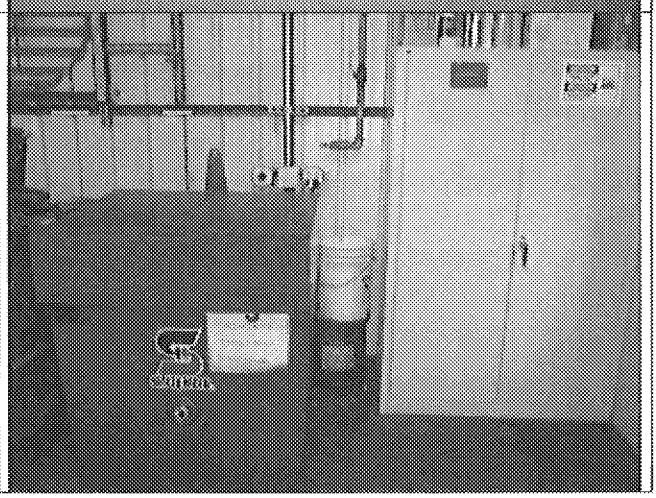
Area & Description	Photographs
#1 Production facility Tote containing floor sweep waste, accumulation start date is not visible as it is written on super sack inside the tote.	
#2 Production facility View depicting the contents of tote pictured in photograph #1, note that the container is full.	

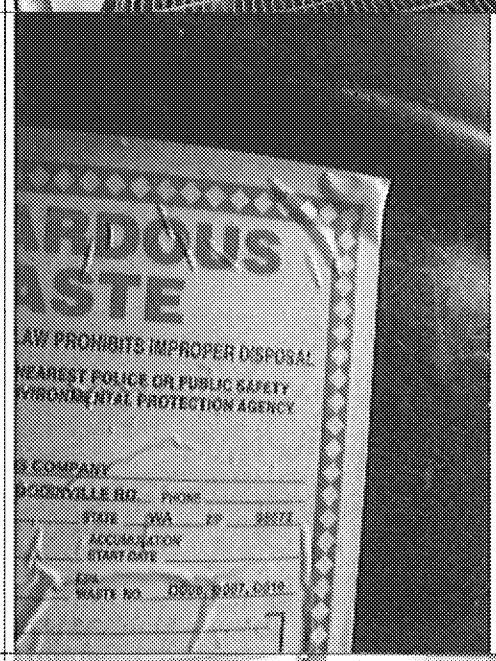
Area & Description	Photographs
#3 Production facility Hazardous waste label on tote pictured in photograph #1, accumulation start date field is blank.	
#4 90-day accumulation area Super sack containing dangerous waste; the date on the container was erroneously changed when the container was moved from the production area to this accumulation area.	
#5 90-day accumulation area Overview of the 90-day dangerous waste accumulation area where solid form dangerous wastes are stored.	

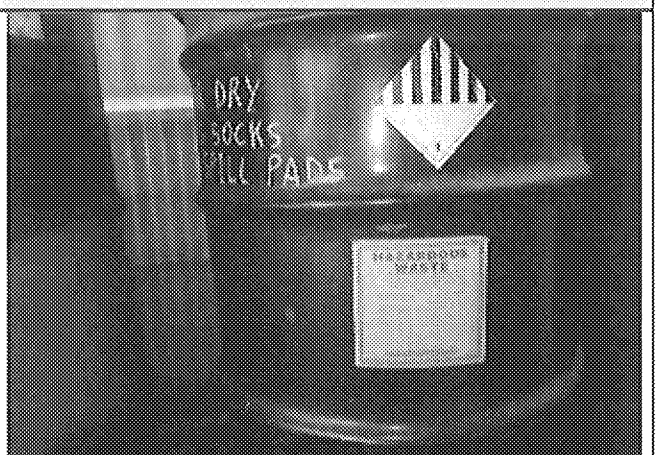
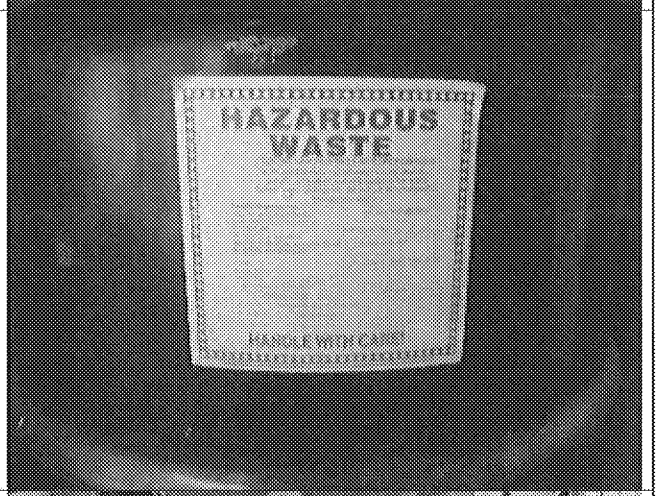
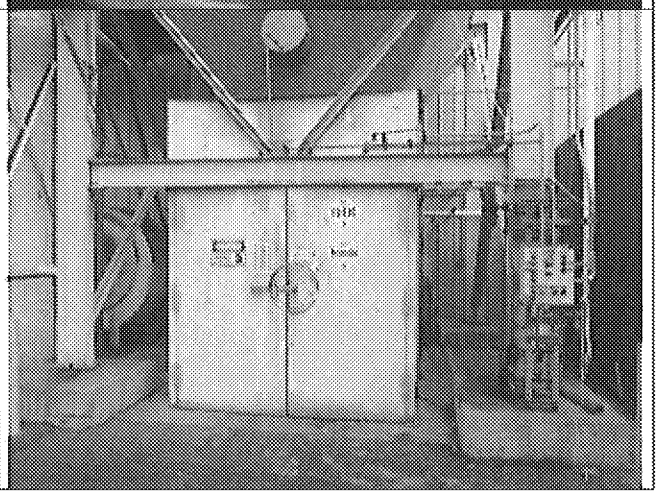
Area & Description	Photographs
#6 90-day accumulation area Overview of the 90-day dangerous waste accumulation area where solid form dangerous wastes are stored.	
#7 90-day accumulation area 55-gallon drum of k-wool waste. This waste stream has not been designated, but is in a container labeled as a dangerous waste	

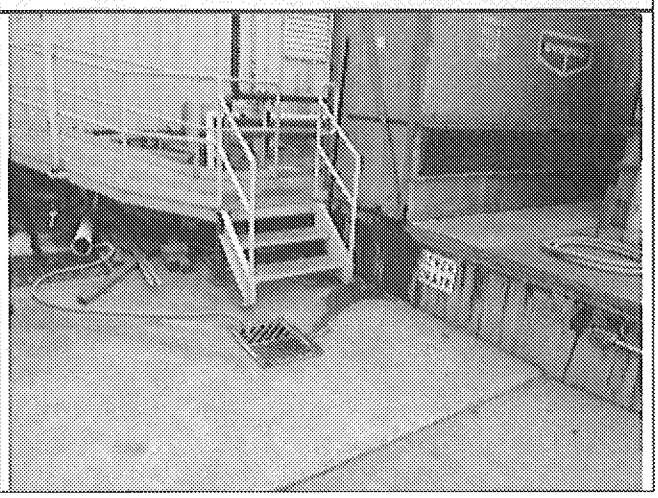
Area & Description	Photographs
#8 90 day accumulation area Close up of hazardous waste label on drum pictured in photograph #7. The label erroneously identifies the contents as "recirc pit sludge".	
#9 Refractory furnace flue area Satellite container used to collect spent floor sweep materials, the container lacked a major risk label.	
#10 Refractory furnace flue area Super sack containing material of unknown origin.	

Area & Description	Photographs
#11 Refractory furnace flue area Overview photo depicting two drums of refractory furnace flue waste. Neither drum is properly closed.	
#12 Refractory furnace flue area Same drums as depicted in photograph #11.	
#13 Refractory furnace flue area Drum used to accumulate saw brick waste water. The designation status of this waste stream was not known by Spectrum personnel at the time of inspection. The drum was not properly closed.	

Area & Description	Photographs
#14 South electrical room Containers for the accumulation of spent fluorescent tubes, the short container on the left lacked an accumulation start date.	
#15 South electrical room Box containing batteries in the universal waste accumulation area, it was unclear whether or not these batteries are spent.	
#16 Maintenance area Facility parts washer, maintained by Safety-Kleen. Designation status of wastes generated by the parts washer were unknown by personnel.	

Area & Description	Photographs
#17 Liquid waste accumulation area Overview of drums containing "drain sludge", used oil, and spent antifreeze.	
#18 Liquid waste accumulation area Drain sludge hazardous waste label lacks accumulation start date.	
#19 Liquid waste accumulation area Overview of drums containing spent antifreeze, used oil, and used absorbents/ppe. We were later told paint wastes are mixed into the used absorbents drum (3rd drum from the left).	

Area & Description	Photographs
#20 Liquid waste accumulation area Labels on the used absorbents drum depicted in photograph #19.	
#21 Liquid waste accumulation area Label on the used absorbents drum depicted in photograph #19.	
#22 Exterior portion of the facility Door providing access to the bag house. Risk label indicates a poison hazard.	

Area & Description	Photographs
#23 Evaporator area Photograph depicts water of unknown origin being pumped into a drain that reportedly discharges to sanitary sewer (though the drain cover indicated discharge to a stream).	

Spectrum Glass violation history	1997	2000	2005	2009	(TA Visit) 2011	2011	(TA Visit) 2012	2013
070(3): Designation	X		x	X	x	X	x	X
210(3): Designation Records						X	x	
630(5)(a): Open Containers		x		X	x	X		X
200(1)(d): Labeling Containers	X	X	X	X	x	X		X
200(1)(c): Start Dates on Containers			X	X	x	X		
200(2): Satellite Accumulation requirements		X		X	x			
630(5): Aisle Space		X		X				
630(7): Secondary Containment			X					
630(6): Weekly Inspections	X	X			x		x	X
210(1): Manifest records not maintained					x	X	x	
330: Personnel Training Plan/Records				x	x	X	x	X
320: General Facility Inspections					x	X		X
350: Contingency Plan						X		
515: Used Oil Container Management				2X				X
522(2)(a): Spent Antifreeze Management				X				
573(9-11): UW labeling, storage, time limit					x	X		X
145(3): Spills and discharges								X
Total Violations	**3**	**4**	**3**	**9**	*10*	**10**	5	**9**

X = violation
x = noted but not cited

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY
Northwest Regional Office • 3190 160th Avenue SE • Bellevue, Washington 98008-5452 • (425) 649-7000
711 for Washington Relay Service • Persons with a speech disability can call (877) 833-6341

November 10, 2015

Monica Chaudhry
Spectrum Glass Co Inc
PO Box 646
Woodinville, WA 98072-0646

Re: Dangerous Waste Compliance Inspection on September 11, 2015 at Spectrum Glass
RCRA ID#: WAD086248978

Dear Ms. Chaudhry:

Ecology's Hazardous Waste and Toxics Reduction Program recently conducted a Dangerous Waste compliance inspection at your facility. The Dangerous Waste Regulations[1] establish a safe and responsible system to manage dangerous waste. I have listed the violations at Spectrum Glass in the included Notice to Comply. You must complete the actions needed to correct these violations and return the included completed **Compliance Certificate** within 30 days of receipt of this letter to the address above.

Failure to comply with these requirements within 30 days could result in an administrative order and a penalty of up to $10,000 per day for each violation.

If you have any questions or need clarification of the information in these documents, please contact me at (425) 649-7071 or juwa461@ecy.wa.gov.

Sincerely,

Julie Wartes

Julie Wartes
Hazardous Waste Compliance Inspector
Hazardous Waste and Toxics Reduction Program

Sent by email: monica@spectrumglass.com

ecc: Lars Blazina – lblazina@spectrumglass.com

[1] Authority: WAC 173-303 and RCW 70.105.080

RCRA Site ID: WAD086248978	Facility Name: Spectrum Glass	Inspection Date: September 11, 2015
Generator Status: LQG	Facility Address: 24105 Snohomish Woodinville Rd, Snohomish	Date Report Sent: November 10, 2015

NOTICE TO COMPLY

Site Contact Name and Title: Monica Chaudhry	Inspector Name: Julie Wartes
Site Phone Number: (425) 483-6699 x4040	Inspector Phone Number: (425) 649-7071
Site Contact Email Address: monica@spectrumglass.com	Inspector Email Address: juwa461@ecy.wa.gov
Site Website: http://www.spectrumglass.com/	Back-up Inspector Name: Matt Quarterman

Notes:

1. A re-inspection can occur at any time to verify the correction of the violations listed below.
2. Ecology may take formal enforcement action even if the violation(s) are corrected.

WAC 173-303-	Violation Code: WAC 173-303 Summary of Violations & Observations	Actions Needed
200(1)(d)	We observed several instances where the DOT class 9 label had been affixed to a container of hazardous waste instead of a label identifying the specific risk. WAC 173-303-170(2) and by reference 200(1)(d): Containers and tanks of dangerous waste must be clearly labeled or marked with the words "Hazardous Waste" or "Dangerous Waste." Containers and tanks must also be marked with a label or sign that identifies the major risks of the waste.	Label all containers and tanks of dangerous waste in accordance with WAC 173-303-200(1)(d). Photograph the properly labeled container(s) for this waste stream and include the photo when you return the enclosed Compliance Certificate.
070(3)	Ecology observed two 5-gallon step cans containing used shop towels. This waste stream was not designated. WAC 173-303-170(1) and by reference 070(3): Sites must properly designate solid waste prior to disposal. Sites must follow proper procedures when determining if a solid waste is	When returning the enclosed Compliance Certificate, provide documentation that used shop towels have been designated. The documentation shall include, at a minimum, copies of the analytical results of designation testing and/or justification for any determinations that are based on generator knowledge as defined in WAC 173-303-040.

	also a dangerous waste or an extremely hazardous waste.	
360	The secondary emergency contact listed in the contingency plan no longer worked for the facility. WAC 173-303-200(1)(e) and by reference 360: Facility must have an emergency coordinator and/or follow prescribed emergency procedures.	Update the existing contingency plan with the new emergency contact. When you return the enclosed Compliance Certificate, include a copy of this updated page.

RCRA Site ID: WAD086248978	Facility Name: Spectrum Glass	Inspection Date: September 11, 2015
Generator Status: LQG	Facility Address: 24105 Snohomish Woodinville Rd, Snohomish	Date Report Sent: November 10, 2015

Concerns and Suggestions

Updating your Site Identification Form
As we discussed during our inspection, the site contact listed on your facility's dangerous waste annual report is not current. Please ensure this is done. You can call the Dangerous Waste Annual Reporting hotline at 1 (800) 874-2022 or whoever is submitting your annual report can log into TurboWaste.net and make the update.

Class 9 labels
The dangerous waste regulations require that containers be marked with the major risk associated with the waste. Common examples are "toxic," "corrosive," and "flammable."

Use of a "Class 9" U.S. DOT shipping label, while correct for shipping requirements under DOT, is not adequate to identify the major risk for hazardous waste accumulation containers. The Department of Ecology requires the use of additional risk information like "toxic," "reactive," "caustic," or "flammable" to inform workers and emergency personnel of the major risk.

Place risk labels with adequate size and orientation on hazardous waste containers so the labels are visible from a safe distance during an emergency.

Please refer to the publication, *Risk Labels Required for Dangerous Waste Containers*, for further information: https://fortress.wa.gov/ecy/publications/SummaryPages/1204016.html

Contaminated Shop Towels
During our inspection we observed step-cans containing used shop towels. It is our understanding that this waste stream has not been designated. If your used shop towels designate you have the option recycle (i.e. launder) them according to Ecology's best management practices (BMPs) or you could dispose of them as hazardous waste.

If you wish to manage used shop towels by laundering them, you must:

- Properly label containers as "contaminated shop towels."
- Keep the containers closed except when actively adding or removing waste.

Laundered shop towels are not subject to generator, transporter and permitted treatment, storage and disposal facility requirements of the dangerous waste regulations and do not "count" as dangerous waste.

If you choose to dispose of your contaminated towels you must manage them as dangerous waste if they fail any of the dangerous waste designation criteria. Please see the publication *Focus on Used Shop Towels* for more information. You may view this publication at: http://www.ecy.wa.gov/pubs/fshw92116.pdf

RCRA Site ID: WAD086248978	Facility Name: Spectrum Glass	Inspection Date: September 11, 2015
Generator Status: LQG	Facility Address: 24105 Snohomish Woodinville Rd, Snohomish	Date Report Sent: November 10, 2015

Irid Waste

During our inspection we observed a 5-gallon bucket labeled "irid ethanol waste", which was being treated through elementary neutralization and discharged to the sewer under a King County discharge authorization. During follow up email correspondence initiated on October 12, 2015, Mr. Blazina explained that the irid stream is generated from two processes. Evaporated irid crystals from the underside of a fume hood that is mixed with cleaned water and unusable product that still contains ethanol. The irid waste is then mixed with soda ash and the pH is adjusted to between 5-9. This fumehood clean-up waste contains no ethanol and is not hazardous.

Following our inspection the facility adopted a new management procedure of this waste stream, which separated the waste from each process. Waste generated from cleaning the hood will continue to be neutralized in the 5-gallon bucket. Excess irid waste, which still contains ethanol and would be flammable, will now be managed as a hazardous waste.

Please note, the next time you generate a batch of irid waste from cleaning the fume hood, collect pH measurements prior to performing elementary neutralization. If the pH is between 2 and 12.5, the waste stream is not considered hazardous waste. However, if the pH is outside of that range, the waste is considered hazardous and adding soda ash to adjust the pH would be considered treatment by generator (TBG) and the following requirements would apply.

TBG requirements of the Dangerous Waste Regulations, WAC 173-303-170(3)(b) and (c), apply to large and medium quantity waste generators who treat their own dangerous wastes on site. Untreated waste that is managed through TBG activity will not count toward the pollution prevention fee calculation.

- Prior to beginning the treatment process you must submit a Site Identification Form (or revise your existing form) to include Treatment by Generator (Checkbox #7 in Section 10). Generators must note the type of treatment in the comment section (such as neutralization, filtration, solidification, carbon adsorption, evaporation, or separation and distillation).
- Annual reporting and generator status determinations must include the total quantity of waste generated prior to treatment and the weight of any dangerous waste remaining after treatment. For more information on Annual Dangerous Waste Reporting, call 1-800-874-2022 or visit www.ecy.wa.gov/programs/hwtr/reportingrequirements.html.
- Generators must maintain a written log of all dangerous waste treated on site, including the date of treatment and the amount of each dangerous waste treated.

For more information, please refer to Ecology's On-site Treatment by Generator publication: http://www.ecy.wa.gov/biblio/96412.html

RCRA Site ID: WAD086248978	Facility Name: Spectrum Glass	Inspection Date: September 11, 2015
Generator Status: LQG	Facility Address: 24105 Snohomish Woodinville Rd, Snohomish	Date Report Sent: November 10, 2015

COMPLIANCE CERTIFICATE

Complete and return this page, within 30 days of the receipt of the letter. Include all supporting documentation such as photos, copies of manifests/disposal records and receipts.

Note: You may request an extension before this Compliance Certificate is due. You must make this request in writing and include the reason for the extension and propose a new date of completion. Send it to:

Julie Wartes
Washington State Department of Ecology
Hazardous Waste and Toxics Reduction Program
3190 160th Ave SE
Bellevue, WA 98008-5472

Summary Of Hazardous Waste Violation Compliance Actions Taken				
Violation Code WAC 173-303-	**Documentation provided**			**Notes**
	Photo	**Paperwork**	**Statement**	
200(1)(d)				
070(3)				
360				

1. I certify that the violations noted on the Notice to Comply page have been corrected.
2. I personally examined any attached documentation submitted as proof of compliance and I believe the information to be true, accurate, and complete.
3. I am aware:
   - There are significant penalties for submitting false information and/or for non-compliance with regulations.
   - My signature **certifies compliance** with every regulation noted on the Notice to Comply page.
4. I declare under penalty of perjury the foregoing certification is true and correct.

Signature:	Printed Name:
Position/Title:	Date:

RCRA Site ID: WAD086248978	Facility Name: Spectrum Glass	Inspection Date: September 11, 2015
Generator Status: LQG	Facility Address: 24105 Snohomish Woodinville Rd, Snohomish	Date Report Sent: November 10, 2015

INSPECTION NARRATIVE

Facility Background

Spectrum Glass Company, Incorporated (Spectrum) is a manufacturer of specialty sheet glass for use in architecture, fine arts, hobby crafts, lighting, and other applications. The most recent hazardous waste compliance inspection was conducted on December 17, 2013. No violations were observed and the impressive efforts to achieve hazardous waste compliance when compared to previous inspections was noted.

Myself (Julie Wartes) and Matt Quarterman from the Department of Ecology performed an unannounced Hazardous Waste compliance inspection on September 11, 2015. We requested to meet with Ms. Monica Pillay (now Ms. Monica Chaudhry) and was informed that Mr. Lars Blazina had taken on her duties.

Mr. Blazina escorted us to a conference room where we explained the purpose for our visit and requested that he describe the processes that create hazardous waste at their facility. Mr. Blazina explained that Spectrum generates hazardous waste as part of their glass colorant and texturing process. Depending on features of the desired product, various additives are mixed into the glass including, selenium, chromium, cadmium, boron etc. The facility employs approximately 170 employees on two shifts. The facility has a wastewater discharge authorization with King County that was just renewed and requires quarterly testing.

Based on the activities at the site and the amount of waste we observed, we regulated the facility as a large quantity generator (LQG). We provided Mr. Blazina with a document request form that he provided to Ms. Chaudhry, so she could begin pulling together the necessary paperwork.

Site Inspection

Batch Minor Area

We began the facility tour under the escort of Mr. Blazina. He explained that this is where a batch of glass is prepared and additives are combined with the mixture before being melted.

We observed a yellow satellite accumulation container of sweeping fines that was labeled as hazardous waste but lacked an acceptable risk label (photo #1), which is cited in this report as a violation. We explained to Mr. Blazina that while the US Department of Transportation (DOT) requires the class 9 label, Ecology does not recognize it as an adequate indicator of risk and we discussed the words "toxic" be written on the container or appropriate risk labels be added.

A super sack containing sweeping fines that was serving as a final accumulation container was observed within this area. The sack was labeled as hazardous waste with a start date of "9/9/15." We observed the above mentioned class 9 label violation.

RCRA Site ID: WAD086248978	Facility Name: Spectrum Glass	Inspection Date: September 11, 2015
Generator Status: LQG	Facility Address: 24105 Snohomish Woodinville Rd, Snohomish	Date Report Sent: November 10, 2015

Hazardous Waste Patio
We were escorted outside to a covered area on the east side of the facility. We observed two super sacks that were labeled as hazardous waste and dated "8/30/15" and "9/2/15." We observed the above mentioned risk label violation. We also observed a fire extinguisher and spill kit. Mr. Blazina explained that the facilities hazardous waste streams were almost always a solid waste with the exception of occasional bulk paint and aerosol cans that are put into 55-gallon drums when generated.

Furnace Area
We observed one 55-gallon drum containing flue fines. The drum was labeled as hazardous waste with a class 9 DOT risk label, in violation as above.

Furnace #4
We observed one 55-gallon drum containing hazardous waste debris and a second 55-gallon drum containing floor sweepings. Both drums were labeled as hazardous waste and a class 9 DOT risk label, in violation as above.

Pit Area
We requested to see the outside portion of the facility where cooling water was recirculated. Mr. Blazina introduced us to Mark, the facilities maintenance manager, who explained that the system was a closed loop with some discharge to sewer under a King County discharge authorization. Extra water is added periodically due to evaporation. Cooling water sludge is removed as-needed, and is designated process for proper disposal.

South Electrical Room
This portion of the facility serves as a universal waste collection area. We observed a properly labeled box of spent 4 foot lamps with a start date of 8/28/15.

Storage Room
We observed proper collection and labeling of universal waste batteries.

Outside the storage room we observed a 5-gallon red step can that Mr. Blazina explained contained contaminated shop towels from various equipment maintenance activities (photo #2). During our discussion with Mr. Blazina we learned that this waste stream has not been designated, which is cited in this report as a violation.

Maintenance Yard
We exited the south side of the building and observed a storm drain with grainy debris nearby that could flow into the storm drain system (photo #3). We discussed our turbidity concerns with Mr. Blazina and suggested he consider installing a fabric catch basis insert that would contain fine debris.

Used Oil Area

Outside along the south side of the building we inspected a used-oil shed with secondary containment. Mr. Blazina explained that oil is pumped out of the drums every 2-3 years by Emerald and is managed under the used oil regulations. All containers of used oil were properly labeled and closed.

Irid Shed

We observed a flammable risk label affixed to a closed shed in the maintenance yard and requested to look inside. We observed a 5-gallon bucked with the words "Irid Ethanol Waste" on it (photo #4) and inquired as to what it was. Mr. Blazina explained that it was acid ethanol mixture that was treated through elementary neutralization to adjust the pH for discharge to the sewer. Please see the comments and concerns section for more information regarding this waste stream.

Forklift Room

This room is where fork lifts are serviced. We observed a 5-gallon red step can with what Mr. Blazina explained were contaminated shop towels (photo #5). The shop towels were not designated, which is cited in this report as a violation. We also observed two properly labeled 55-gallon drums containing aerosol cans and waste paint and a parts washer.

Bag House

In the bag house we observed a super sack used to collect fines. The container was labeled with a hazardous waste label and dated "9/2/15". We observed the above mentioned class 9 label violation.

Records Review

We were escorted to Mr. Blazina office where we met with Ms. Chaudhry, who had compiled the documents we had requested to review during our in-briefing. We observed the following:

- Hazardous waste manifests for 2014 and year-to-date 2015 which were well organized and complete with final signatures.
- Hazardous waste is picked up every 1 to 2 months.
- Universal waste lamps were last shipped in June 2015.
- The contingency plan was complete except that the secondary emergency contact no longer works at the facility, which is cited in the report as a violation.
- General facility inspections were being conducted and were complete.
- Weekly hazardous waste inspections were being conducted, included all final accumulation areas, and were complete.
- The training plan was complete.
- We reviewed training records for Lars Blazina and Greg Boxford and found then to be complete.
- The facility operates under NPDES permit number 10617-03.

RCRA Site ID: WAD086248978	Facility Name: Spectrum Glass	Inspection Date: September 11, 2015
Generator Status: LQG	Facility Address: 24105 Snohomish Woodinville Rd, Snohomish	Date Report Sent: November 10, 2015

Additional documentation and information regarding the parts washer solvent that Safety Clean picks up was provided in email correspondence initiated on September 15, 2015. Mr. Blazina explained the following:

- Safety-Kleen's safety data sheet explains this waste solvent is managed as part of their Continued Use Program, however Safety-Kleen does not ship any waste solvent from Spectrum Glass unless specifically requested. If Spectrum requests that Safety Kleen picks up any solvent, a new profile is generated for proper disposal.
- Copies of Safety Kleen's receipts from 1/28/15, 5/5/15, and 8/25/15 were provided.
- The parts washer does not have any filters that require disposal.

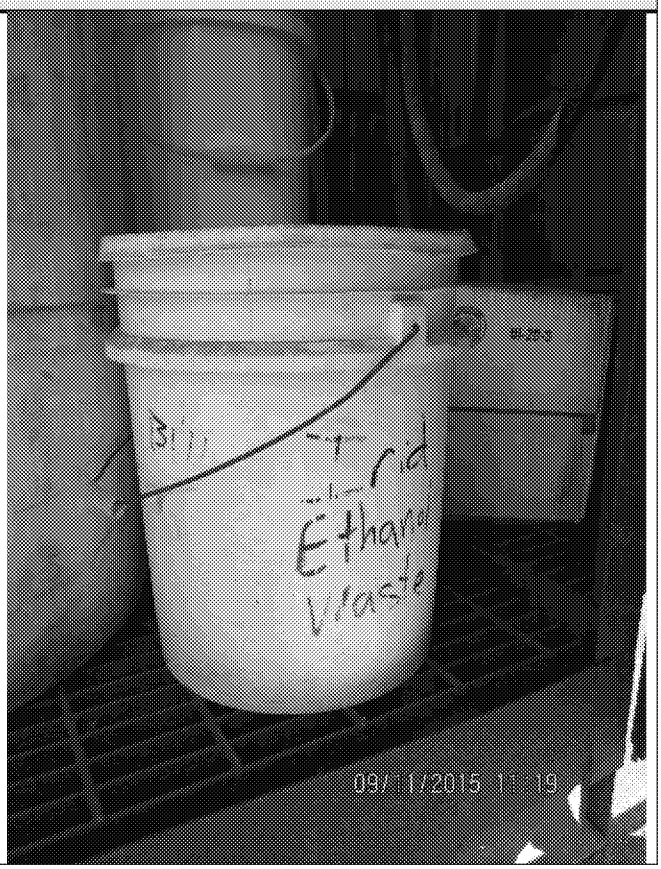
We discussed our findings with Mr. Blazina and Ms. Chaudhry concluded our inspection and thanked them for their time.

Photo Log

Photographer: Matt Quarterman **Witness: Julie Wartes**

Area & Description	Photographs
Photo #1 - Batch Minor Area Satellite Accumulation of Hazardous Waste Solid carrying D006, D007, and D010 waste codes. Container lacking acceptable risk label.	

Area & Description	Photographs
Photo #2 - Outside Storage Room Step-can of used rags and spill pigs. Waste stream has not been designated.	
Photo #3 - Maintenance Yard Accumulated dust and debris near a storm drain.	

Area & Description	Photographs
Photo #4 - Irid Shed Bucket of Irid Ethanol Waste. Mr. Blazina informed us that this is an acidic waste that is neutralized and disposed of to the sewer. This container lacked hazardous waste and risk labels.	

Area & Description	Photographs
Photo #5 – Forklift Room Step-can of used rags. Waste stream has not been designated.	

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY
Northwest Regional Office • 3190 160th Avenue SE • Bellevue, Washington 98008-5452 • (425) 649-7000

April 29, 2009

CERTIFIED MAIL
7007 3020 0000 3068 4086

A.J. Fandrich
Spectrum Glass Company
PO Box 646
Woodinville, WA 98072

Dear Mr. Fandrich:

RE: Dangerous Waste Inspection on April 14, 2009 at Spectrum Glass
RCRA ID#: WAD 086 248 978

The Department of Ecology's (Ecology's) Hazardous Waste and Toxics Reduction Program recently conducted a dangerous waste compliance inspection at your facility. The violations found at Spectrum Glass are listed and summarized in the enclosed Notice to Comply. You must complete the actions needed to correct these violations and send the enclosed completed **Compliance Certificate** within 30 days of the date of this letter to the address above.

Failure to comply with these requirements within 30 days of the date of this letter could result in an administrative order and/or a penalty of up to $10,000 per day for each violation.

If you have any questions or need clarification of the Notice to Comply, please contact me at 425-649-7090 or dayd461@ecy.wa.gov.

Sincerely,

Daylin Davidson
Hazardous Waste Compliance Inspector
Hazardous Waste and Toxics Reduction Program

DD:SA
Enclosures

Authority: WAC 173-303
RCW 70.105.080

EPA RCRA #	Facility name		Inspection date
WAD 086 248 978	Spectrum Glass		April 14, 2009
Generator status	Facility address	Inspector	Date Report Sent
LQG	24105 Sno-Woodinville Rd	Daylin Davidson	April 29, 2009

Notice to Comply

Site contact name and title A.J. Fandrich	Inspector's Name Daylin Davidson
Site phone number 425-483-6699	Inspector's phone number 425-649-7090
Site contact e-mail address aj.fandrich@spectrumglass.com	Inspector's e-mail address Dayd461@ecy.wa.gov
	Back-up Inspector's Name Warren Walton

Notes:

1. A re-inspection can occur at any time to verify the correction of the violations listed below.
2. Ecology may take formal enforcement action even if the violation(s) are corrected.

Violation code: WAC 173-303-	Summary of violations including observations	Actions needed
200(2)(a)	Totes of bag house dust did not meet satellite accumulation standards.	Totes cannot be managed as satellite. Apply the start date when the first waste is put in the tote. Provide photos.
630(5)(a)	Two drums of pit sludge were not closed.	Close drums of pit sludge with a locking or quick release ring. Provide photos.
200(1)(d)	Two drums of pit sludge, one bucket of paint thinner waste, and one drum of flue fines were not properly labeled.	Apply hazardous waste and risk labels to all containers of hazardous waste. Provide photos.
200(1)(c)	Two drums of pit sludge, one bucket of paint thinner waste, and one tote of contaminated solids (gloves, etc) did not have start dates.	Apply start dates to all containers of hazardous waste. Provide photos.
070(3)	Designation was not complete for one drum of used floor dry in the HWAA and one drum of drain sludge in the oil shed.	Provide designation information for the used floor dry and drain sludge.
630(5)(c)	Thirty inch aisle space was not maintained in the HWAA.	Ensure the aisle space is at least thirty inches in the HWAA. Provide photo.
515 (6)(a)(i)	Containers of used oil in the oil shed and one bucket in the maintenance shop were not closed.	Close all containers of use oil. Provide photos.
515(6)	Containers of used oil in the oil shed and one bucket in the maintenance shop were not labeled properly.	Label all containers of used oil with the words "used oil". Provide photos.
522(2)(a)	Containers of spent antifreeze were not properly labeled.	Label all containers of spent antifreeze with the words "spent antifreeze". Provide photos.

EPA RCRA #	Facility name		Inspection date
WAD 086 248 978	Spectrum Glass		April 14, 2009
Generator status	Facility address	Inspector	Date Report Sent
LQG	24105 Sno-Woodinville Rd	Daylin Davidson	April 29, 2009

Concerns and/or Suggestions

- Be sure that when a satellite accumulation drum of flue fines is full, the date is immediately applied and that the date is transferred to the tote when the fines are poured into a tote.
- The training plan contains the job levels, but does not specify what training is provided to each level. The plan should have more detail on hazardous waste training requirements.
- When the first spent fluorescent bulb or battery is placed in the box, be sure to apply that start date.
- As a best management practice, and to prevent illegal air emissions, parts washer lids should be kept closed when not in use. This will reduce possible evaporation or volatilization of any liquids in the parts washer.
- Label empty drums with a magnet containing the word "Empty". Please refer to Ecology's Fact Sheet on safe container handling for further information: http://www.ecy.wa.gov/pubs/96431.pdf
- For possible disposition of unwanted materials, please visit the Industrial Materials Exchange (IMEX) website at http://www.govlink.org/hazwaste/business/imex/
- Please visit the King County "Take It Back Network" website at http://www.metrokc.gov/dnrp/swd/electronics/index.asp for more information about locations that offer recycling services for computer monitors and other electronics. Pick up services may be available. Electronics may only be stored on site for up to 180 days.

EPA RCRA #	Facility name		Inspection date
WAD 086 248 978	Spectrum Glass		April 14, 2009
Generator status	Facility address	Inspector	Date Report Sent
LQG	24105 Sno-Woodinville Rd	Daylin Davidson	April 29, 2009

Compliance Certificate

Instructions:

1. Complete this page **within 30 days of the date of the letter**.

   Note: You may request an extension before this Compliance Certificate is due. You must make this request in writing and include the reason for the extension and propose a new date of completion.
2. Send this page with any supporting documentation such as photos, copies of manifests/disposal records or receipts, and if applicable, your request for extension, to:

Daylin Davidson
3190 160th Ave SE
Bellevue, WA 98008

SUMMARY OF HAZARDOUS WASTE VIOLATION COMPLIANCE ACTION				
Check the type of evidence enclosed				
Violation code	**Photo**	**Paperwork**	**Statement**	**Notes**
200(2)(a)				
630(5)(a)				
200(1)(d)				
200(1)(c)				
070(3)				
630(5)(c)				
515 (6)(a)(i)				
515(6)				
522(2)(a)				

1. I certify the violations noted on the Notice to Comply and inspection checklist have been corrected.
2. I personally examined any attached documentation submitted as proof of compliance and I believe the information to be true, accurate, and complete.
3. I am aware:
   - There are significant penalties for submitting false information and/or for non-compliance with regulations.
   - My signature **certifies compliance** with every regulation noted on the Inspection Results.
4. I declare under penalty of perjury the foregoing certification is true and correct.

Signature	Printed name
Position/title	Date

Facility Name: Spectrum Glass Co.
Facility ID # WAD 086 248 978

Inspection Date: April 14, 2009

Digital Camera Photolog

Camera: Sony FD Mavica (MVC-FD75)
Photographer: Warren Walton

Lead Inspector: Daylin Davidson

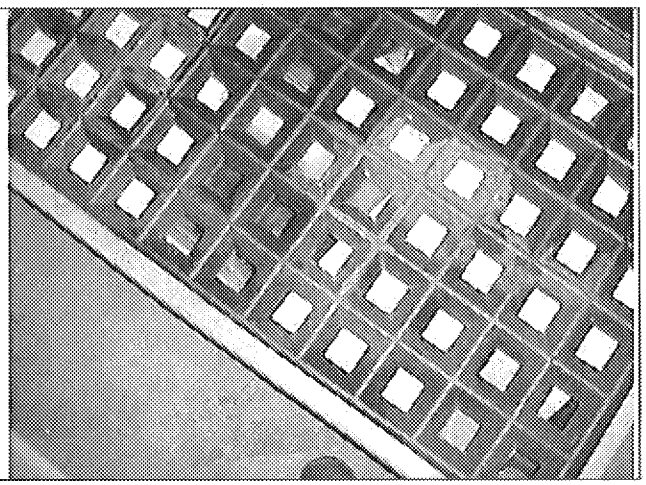
Photo # Area	Notes/Descriptions	Photographs
Photo 1 of 12 9:25 a.m. Hazardous Waste Accumulation Area - HWAA	One of two drums on spill pallet. There is no risk label and no accumulation start date. Lids not closed.	
Photo 2 of 12 9:29 a.m. HWAA	One of two drums on spill pallet. There is no hazardous waste or risk label and no accumulation start date. Lids not closed.	
Photo 3 of 12 9:29 a.m. HWAA	Pallet for two drums in photo 2. There are a couple of inches of liquid in the spill pallet.	

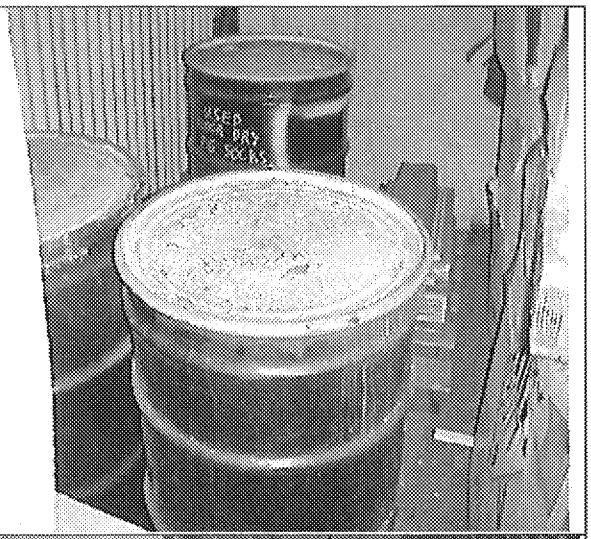
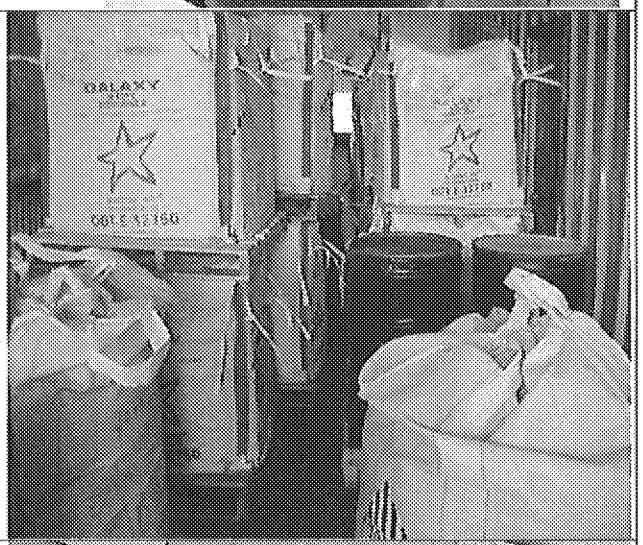
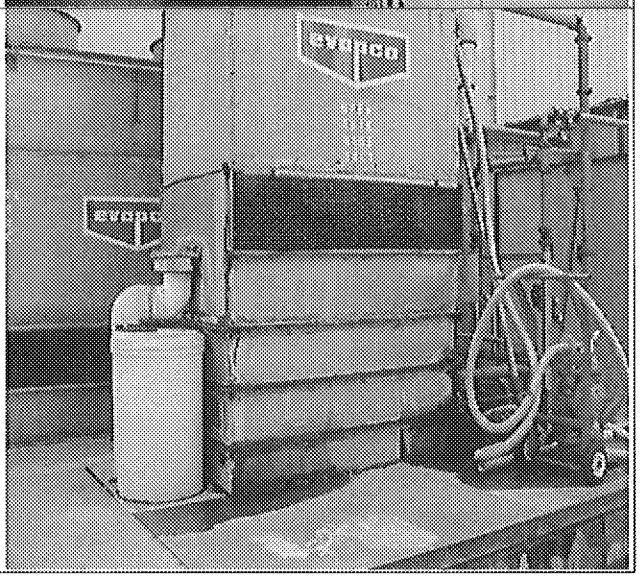
Photo 4 of 12 9:29 a.m. HWAA	Looking toward the back of the HWAA. The nearest two drums are empty. Rear drum is labeled as containing used floor dry and pig socks.	
Photo 5 of 12 9:30 a.m. HWAA	There is insufficient aisle space. A pinch point is reached where the pallets of totes sit adjacent. The HWAA tapers toward the back of this storage area. Spectrum Glass may have to reconfigure how wastes are placed in the HWAA.	
Photo 6 of 12 9:36 a.m. Out back at Evaporators	It was noted the front evaporator is steadily leaking from both lower corners.	

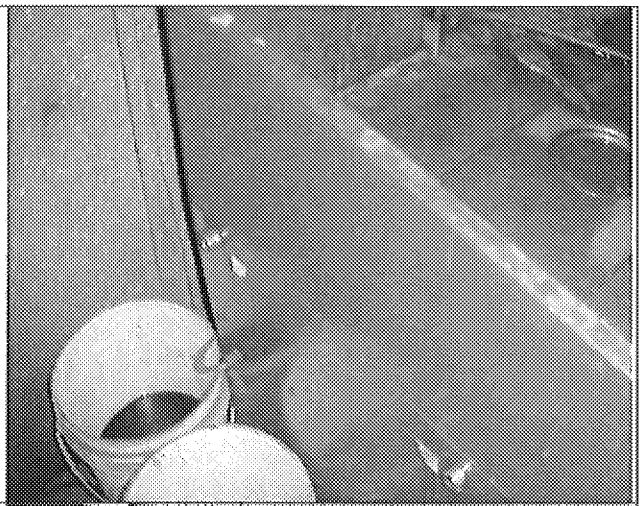
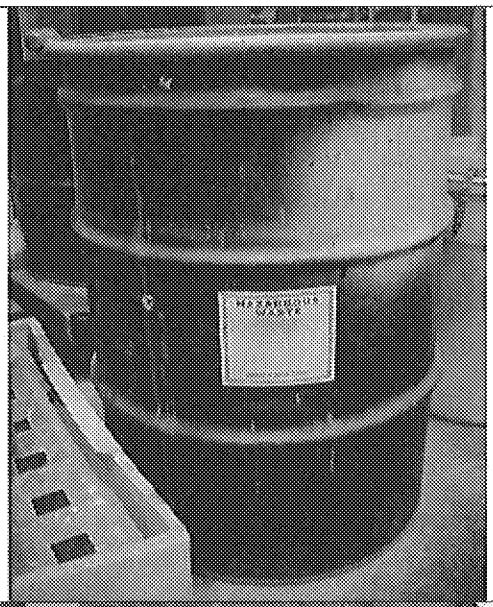
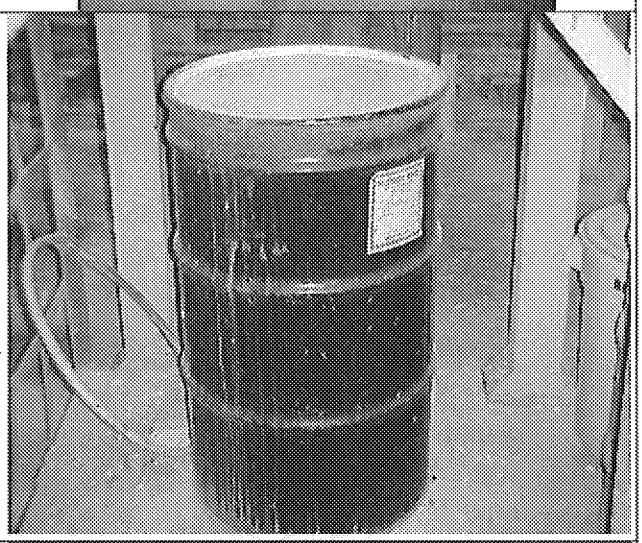
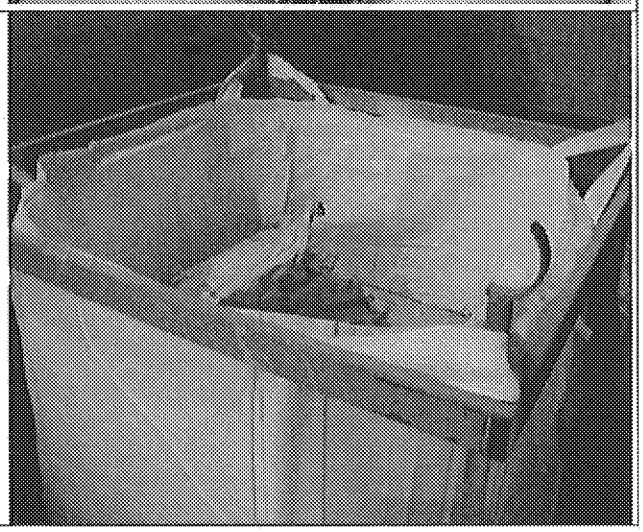
Photo 7 of 12 9:44 a.m. Maintenance Shop	Looking at the open, unlabeled bucket of "oil" collected from the parts washer that will be added to a used oil drum in the used oil shed. Spectrum Glass is using Premium Gold Solvent in this parts washer.	
Photo 8 of 12 9:48 a.m. Oil Shed	Spill kit drum, empty drum, two 'waste' oil drums, 1 'waste' anti-freeze drum, transmission oil, paint thinner container, and drain sludge. Note: The oil and anti-freeze drum locations are marked on the wall.	
Photo 9 of 12 9:51 a.m. Oil Shed	Left to right: Spent antifreeze drum, waste transmission fluid drum, drain sludge drum, and paint thinner waste bucket (white). The secondary containment area was damp but had no standing liquid in it. Spectrum Glass has placed a sliding plastic curtain on the outside of the storage area which keeps it dry.	

Photo 10 of 12 10:01 Flue fines accumulation area	Empty drum to be used for flue fines.	
Photo 11 of 12 10:05 a.m. Flue fines accumulation area	This open drum contains flue fines waste, though the label read 'Rail belt system overflow". This is a satellite accumulation area. There is no risk label on the drum.	
Photo 12 of 12 10:12 a.m. Waste PPE debris tote	Hazardous waste gloves, protective clothing, wipe rags, etc. are disposed in this tote. Tote is not labeled or dated.	

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY
Northwest Regional Office • 3190 160th Ave SE • Bellevue, WA 98008-5452 • 425-649-7000
711 for Washington Relay Service • Persons with a speech disability can call 877-833-6341

January 3, 2014

Monica Pillay
Spectrum Glass
PO Box 646
Snohomish, WA 98072

Re: Dangerous Waste Compliance Inspection on December 17, 2013 at Spectrum Glass
RCRA ID#: WAD086248978

Dear Ms. Pillay:

Ecology's Hazardous Waste and Toxics Reduction Program recently conducted a Dangerous Waste compliance inspection at your facility. The Dangerous Waste Regulations[1] establish a safe and responsible system to manage dangerous waste. Our inspection on December 17, 2013 found no violations of the dangerous waste regulations.

The improvement at Spectrum Glass was impressive and we would like to thank Spectrum Glass for their efforts on hazardous waste management. It is very rare for a facility to have no violations and we greatly appreciate your efforts.

If you have any questions or need clarification of the information in this inspection report, please contact me at (425) 649-7065 or aule461@ecy.wa.gov.

Sincerely,

Aurana Lewis

Aurana Lewis
Hazardous Waste Specialist
Hazardous Waste and Toxics Reduction Program

AL:SA
Enclosure: Photo Log

By certified mail: 7012 3460 0000 3272 3291

[1] Authority: WAC 173-303 and RCW 70.105.080

RCRA Site ID:	Facility name	Inspection date:
WAD086248978	Spectrum Glass	December 17, 2013
Generator status:	Facility address	Date Report Sent:
LQG	24105 Snohomish Woodinville Rd, Snohomish	January 3, 2014

Concerns and Suggestions

Storage of Hazardous Waste on the Floor

Spectrum glass is forced to remove very hot flue ash that designate as hazardous waste during their processes. As a result, these wastes are currently stored on the floor for a period of time. It appears that these materials are being swept up and removed on a regular basis, however this process has an inherent level of potential risk.

We noted that this process is messy and may generated some hazardous waste that is accidently stored near the door of the furnace and in the machinery near where the piles of hazardous waste are placed to cool because it cannot be swept up (see photo 1). Additionally, if the sweeping were not to occur at the end of a shift, the hazardous waste would be stored on the floor. We encourage Spectrum Glass to consider how this operation could be improved to prevent the storage of hazardous waste on the floor for extended periods of time and the spilling of hazardous waste in areas which are difficult to sweep up.

RCRA Site ID:	Facility name	Inspection date:
WAD086248978	Spectrum Glass	December 17, 2013
Generator status:	Facility address	Date Report Sent:
LQG	24105 Snohomish Woodinville Rd, Snohomish	January 3, 2014

Inspection Report

Facility Background

Spectrum Glass Company, Incorporated (Spectrum) is a manufacturer of specialty sheet glass for use in architecture, fine arts, hobby crafts, lighting, and other applications. Spectrum is a large quantity generator (LQG) of dangerous waste. The facility has a staff between 150 and 175 people employed at the facility.

Inspection

Aurana Lewis and Daylin Davidson arrived at 9:00 a.m. to Spectrum Glass. We met with Ms. Tracy Pemberton, Waste Coordinator, Mr. Lars Blazina, Glass Engineer, and Mr. Darin Strong, Glass Technology Manager. Mr. Blazina is a new employee taking over the management of hazardous waste at the facility. We agreed to start the inspection with a tour of where hazardous waste is generated and stored at the facility

Batch Room

We started in the batch room looking at the mixing section. The mixing section had a small amount of non-hazardous waste on the floor in the area. Ms. Pemberton was able to explain that the waste was non-hazardous. In the same area we saw a large batch can mixing the sand base for glass. We saw a small amount of sand material on the floor of the batch can. The area around the batch can was blocked off and Mr. Blazina noted that the material on the floor is swept up after every shift at the facility. There are two shifts a day so the material is swept up twice a day. The floor sweep material is placed into a super sack next to the batch can. The super sack was closed, labeled, and properly dated.

90-day Final Hazardous Waste Accumulation Area

The 90-day area was well labeled. There was one half-full super sack present at the front of the area. The super sack was closed, well labeled, and had a start date written on it. There were 10 additional full super sacks in the area. Each of the sacks was properly labeled, closed, and dated. There were no spills present and there was a spill kit available just inside the loading bay doors.

Universal Waste Area

Universal waste is stored in an electrical closet. We saw a box of universal waste lamps that was labeled and dated. We also saw a container of universal waste mercury containing devices that were properly closed, labeled and dated. There was a satellite drum for hazardous waste light bulbs that were accidently broken in the facility. The drum was labeled and closed.

Glass Furnace Area

We reviewed the generation of hazardous waste from the glass furnaces. The furnaces are cleaned out while the glass debris is still hot. The hot flue fines are swept onto the floor and then swept up when the waste has cooled. This debris is a hazardous waste for heavy metals. The debris is cleaned up quickly, there were no piles of hazardous waste on the floor during the inspection.

Used Oil Area

RCRA Site ID:	Facility name	Inspection date:
WAD086248978	Spectrum Glass	December 17, 2013
Generator status:	Facility address	Date Report Sent:
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The used oil area contained approximately twelve drums of used oil or spent antifreeze. All of the drums were labeled and closed. The sheeting protecting the used oil secondary containment appeared to have improved since the previous inspection.

Machine Shop
The machine shop contained two hazardous waste drums, one for aerosol cans and one for paint waste. Both drums were properly labeled and closed. The machine shop also contained the area for spent lead acid batteries, although there were none present during the inspection, and universal waste batteries. The universal waste batteries were properly labeled and dated. There was a metal cutting machine that used oil in the process. The oil from this machine evaporates during use and has not needed to be disposed of.

Records
After the tour we reviewed records in a conference room. The manifests for 2013 were complete and had all the necessary paperwork and signatures. The weekly inspections were completed weekly and were extremely thorough in reviewing hazardous waste and materials management at the facility. The general facility inspections were being completed weekly and covered all important areas.

We reviewed the training records for two floor personnel and Mr. Lars Blazina. The training records were complete. We discussed the training and contingency plan, both of which are stored electronically. Mr. Blazina and Ms. Pemberton agreed to email us a copy of these plans.

We also discussed the flue fines seen in the Glass Furnace Area during our tour. We noted that the process of collecting the flue fines waste is messy and may generate some hazardous waste that is accidently stored near the door of the furnace and in the machinery near where the piles of hazardous debris waste are placed to cool. We encouraged Spectrum Glass to consider how this operation could be improved to prevent the storage of hazardous waste on the floor for extended periods of time and the spilling of hazardous waste in areas which are difficult to sweep up.

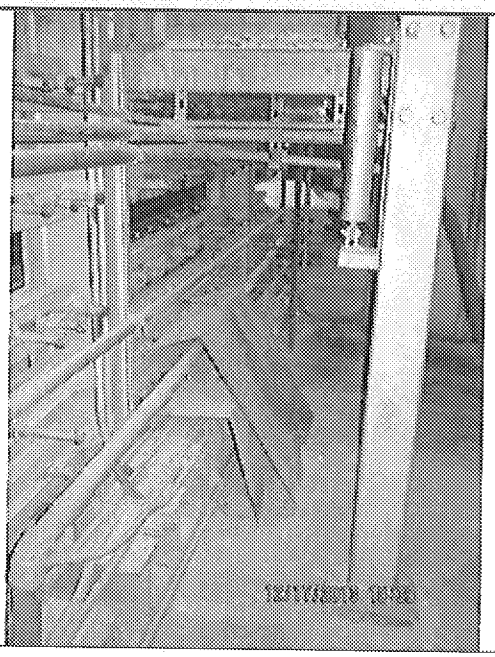
We thanked Mr. Blazina, Ms. Pemberton, and Mr. Strong for their time. We noted that the facility had greatly improved its hazardous waste management from previous inspections and that we were very impressed.

Follow-up: Ms. Lewis sent Mr. Blazina an email requesting a copy of the training and contingency plans on December 17, 2013. Mr. Blazina sent her a copy of the plans. Ms. Lewis reviewed them and found they were complete.

PHOTOS ☒ Yes ☐ No
SAMPLES ☐ Yes ☒ No

Photo Log

Photographer: Daylin Davidson **Witness: Aurana Lewis**

Area & Description	Photographs
#1 Main Furnace Room A small quantity of flue fines have accumulated on the floor from the clean-out of the furnace.	

To: McClintock, Katie[McClintock.Katie@epa.gov]; Downey, Scott[Downey.Scott@epa.gov]
From: Kenknight, Jeff
Sent: Fri 2/12/2016 3:36:58 PM
Subject: RE: Portland air toxics briefing Friday, 9:30

I left a message Ecology manager, **Kevin Fitzpatrick** this morning. He manages the CWA program in the Bellevue office. In my VM, I asked for copies of the CWA warning/NOV letters. I will let you know what I find out.

Jeff KenKnight

Manager, NPDES Compliance Unit

U.S. EPA | 1200 Sixth Avenue, Suite 900 | Seattle, WA 98101

206.553.6641

From: McClintock, Katie
Sent: Thursday, February 11, 2016 8:31 PM
To: Kenknight, Jeff <Kenknight.Jeff@epa.gov>; Downey, Scott <Downey.Scott@epa.gov>
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Can someone in your water/rcra groups reach out the state to find out more about the Spectrum compliance issues shown below? If you would rather me do it just let me know who the right contact is. Thanks!

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To: Hastings, Janis <Hastings.Janis@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>
Cc: Koprowski, Paul <Koprowski.Paul@epa.gov>; Downey, Scott <downey.scott@epa.gov>
Subject: RE: Portland air toxics briefing Friday, 9:30

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Yes, Spectrum has been inspected by PSCAA. The last 3 inspections were in 2012 and 2013 (2). I am hoping to talk to the inspector tomorrow to get more information and Zach Hedgpeth and I hope to inspect the facility Tuesday or Wednesday next week. Spectrum is also not subject to 6S but with a much shakier logic since my understanding is their furnaces continuously produces glass. Also, according to echo, they have quite the history:

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I will try to get more information on all of these multimedia issues.

Katie

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To: Narvaez, Madonna <Narvaez.Madonna@epa.gov>
Cc: Koprowski, Paul <Koprowski.Paul@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>
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I will be interested to know if PSCAA inspectors have been to Spectrum. I assume OCE has those contacts and that's next on the list.

Jan

From: Narvaez, Madonna
Sent: Thursday, February 11, 2016 5:08 PM
To: Hastings, Janis
Cc: Koprowski, Paul; McClintock, Katie
Subject: RE: Portland air toxics briefing Friday, 9:30

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Cc: Koprowski, Paul <Koprowski.Paul@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>
Subject: Re: Portland air toxics briefing Friday, 9:30

I think we can assume that Dennis has read the desk statement and is relatively up to speed on the background, so that won't need much discussion. New information he hasn't heard about includes what was found in the inspection, what information are we waiting on (applicability determination may now be one piece), where is ODEQ in terms of their plans (emergency authority? additional monitoring, other?), cleanup program status. I don't know if there will be time to discuss what other facilities might be out there that could be causing similar concerns, but that's of interest to me.

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To: Hastings, Janis; Koprowski, Paul
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Paul, if you have a summary of the monitoring plan by tomorrow morning, that would be great. I think if we share it with Dennis, it would not have much detail, probably bullets. I don't think this will be the focus of discussion, but a simple handout that I could have in hand, if easily prepared, could be useful. Topics might be:

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Also, add in specific role EPA is playing.

I really appreciate you both being actively involved in this monitoring plan, working with OEA.

Thanks,

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To: Hastings, Janis; Narvaez, Madonna
Subject: RE: Portland air toxics briefing Friday, 9:30

I'm in. I received an invite earlier and responded affirmatively to it.

Paul

Paul Koprowski

U.S. EPA; Oregon Operations Office

805 SW Broadway, Suite 500

Portland, Oregon 97205

(503) 326-6363

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Hi, are either of you in the office tomorrow?

Dennis has scheduled a briefing tomorrow morning. I'll be in the office. Are either of you in tomorrow too?

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Sent: Thursday, February 11, 2016 5:20 PM
To: Narvaez, Madonna <Narvaez.Madonna@epa.gov>
Cc: Koprowski, Paul <Koprowski.Paul@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>
Subject: Re: Portland air toxics briefing Friday, 9:30

I will be interested to know if PSCAA inspectors have been to Spectrum. I assume OCE has those contacts and that's next on the list.

Jan

From: Narvaez, Madonna
Sent: Thursday, February 11, 2016 5:08 PM
To: Hastings, Janis
Cc: Koprowski, Paul; McClintock, Katie
Subject: RE: Portland air toxics briefing Friday, 9:30

Katie also inspected Uroboros, which uses hexavalent chromium as a colorant, but from Katie has told us, they are nowhere near the sophistication of Bullseye Glass. This afternoon Katie and I talked to Chris Hall about getting a monitor out at Spectrum in Woodinville. Chris told me later that he talked to Erik Saganic of PSCAA who said that they are also thinking about monitoring out there. PSCAA are thinking of asking Ecology what data they have. So, it is good to know that PSCAA won't be against any monitoring.

From: Hastings, Janis
Sent: Thursday, February 11, 2016 4:57 PM
To: Narvaez, Madonna <Narvaez.Madonna@epa.gov>
Cc: Koprowski, Paul <Koprowski.Paul@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>
Subject: Re: Portland air toxics briefing Friday, 9:30

I think we can assume that Dennis has read the desk statement and is relatively up to speed on the background, so that won't need much discussion. New information he hasn't heard about includes what was found in the inspection, what information are we waiting on (applicability determination may now be one piece), where is ODEQ in terms of their plans (emergency authority? additional monitoring, other?), cleanup program status. I don't know if there will be time to discuss what other facilities might be out there that could be causing similar concerns, but that's of interest to me.

Jan

From: Narvaez, Madonna
Sent: Thursday, February 11, 2016 4:42 PM
To: Hastings, Janis; Koprowski, Paul
Subject: RE: Portland air toxics briefing Friday, 9:30

Oh, also, I believe that Katie is working on a briefing paper. I suggested that she could start from the desk statement.

From: Hastings, Janis
Sent: Thursday, February 11, 2016 3:47 PM
To: Koprowski, Paul <Koprowski.Paul@epa.gov>
Cc: Narvaez, Madonna <Narvaez.Madonna@epa.gov>
Subject: Re: Portland air toxics briefing Friday, 9:30

Ok, good.

Paul, if you have a summary of the monitoring plan by tomorrow morning, that would be great. I think if we share it with Dennis, it would not have much detail, probably bullets. I don't think this will be the focus of discussion, but a simple handout that I could have in hand, if easily prepared, could be useful. Topics might be:

Timing - when it would start, over what time period, when would results be available.

Contaminants/spatial extent - what are we looking for, where

Resources - which agencies are involved, which are contributing equipment/personnel, etc. useful.

Also, add in specific role EPA is playing.

I really appreciate you both being actively involved in this monitoring plan, working with OEA.

Thanks,

Jan

From: Koprowski, Paul
Sent: Thursday, February 11, 2016 3:35 PM
To: Hastings, Janis; Narvaez, Madonna
Subject: RE: Portland air toxics briefing Friday, 9:30

I'm in. I received an invite earlier and responded affirmatively to it.

Paul

Paul Koprowski

U.S. EPA; Oregon Operations Office

805 SW Broadway, Suite 500

Portland, Oregon 97205

(503) 326-6363

From: Hastings, Janis
Sent: Thursday, February 11, 2016 3:34 PM
To: Koprowski, Paul <Koprowski.Paul@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>
Subject: Portland air toxics briefing Friday, 9:30

Hi, are either of you in the office tomorrow?

Dennis has scheduled a briefing tomorrow morning. I'll be in the office. Are either of you in tomorrow too?

Jan

To: Downey, Scott[Downey.Scott@epa.gov]; Koprowski, Paul[Koprowski.Paul@epa.gov]; McClintock, Katie[McClintock.Katie@epa.gov]
Cc: Matthews, Julie[Matthews.Juliane@epa.gov]; Boyd, Andrew[Boyd.Andrew@epa.gov]
From: Leefers, Kristin
Sent: Thur 2/11/2016 9:54:10 PM
Subject: ORC Bullseye contact now Julie Matthews

Hi All-

I didn't think I needed to write the whole group on Paul's list, but please share this information as needed. After today, Julie Matthews will be the primary ORC contact. She is out this week on annual leave, and I'm heading out tonight on annual leave. Andy Boyd is Acting Unit Manager tomorrow, so if you need ORC support tomorrow (2/12), he's your contact. Starting Tuesday, following the holiday, Julie will be back in the office and will be the ORC contact.

Thanks, and keep up the great work!

Kris

Kris Leefers

Assistant Regional Counsel

U.S. Environmental Protection Agency, Region 10

1200 Sixth Avenue, Suite 900

M/S: ORC-113

Seattle, Washington 98101

206-553-1532

leefers.kristin@epa.gov

This transmission may contain confidential and/or privileged material. If you received this message in error, or are not the intended recipient, notify the sender via return email and delete

this message.

To: Downey, Scott[Downey.Scott@epa.gov]
From: McClintock, Katie
Sent: Tue 2/9/2016 5:01:27 AM
Subject: update

Hey Scott –

Enforcement confidential

Today went well I wanted to give you a more thorough update than I could do today.

Re: Bullseye Glass. Paul facilitated a conversation with him, Dave, Zach and I. Dave was very busy (understandably) but told us their main focus is a legislative effort to address toxics more holistically in a way that would give deq funding for a toxics program. He said the public meeting Tuesday was going to be attended by many legislators and since the legislature is in session, there is significant moment around this crisis to make rule changes for the better. He said bullseye was also very supportive of this and was concerned that a surprise inspection by epa could screw that up. We offered for him to give him them a heads up or potentially another day and he leaped with relief at Wednesday afternoon. He or Greg Grunow will go with us. It would have been preferable to do it today, especially to find out if they are using chromium refractory, but Dave seemed very stressed and I think this was okay.

Rule changes aren't my forte so I asked how that directly related to stopping emission here. He said today they were very busy developing a testing plan for the source. They have been working with oHA and ATSDR and they feel they need more data to proceed with any endangerment finding. It sounds like that is OHA's call, not DEQs, though we didn't get into specifics. I think it would be great if you could connect with ATSDR soon and hear from them if possible. Sorry I can't do it as easily from here, but I'll give her a call at some point if I can. I'm curious where Ed sits on all of this and think we will have some tough decisions later this week.

We met with Louis at DEQ HQ and went over the permits and then went to ORCCo after lunch. It was a good inspection. We learned a lot about the process and both Bill Briggs and his son Scott Briggs who is taking over the company now were both with us all afternoon. Their environmental manager happened to be on vacation but will be back tomorrow. We plan to stop back by on Wednesday and get a few more records in the morning from the env manager.

Overall their recordkeeping seems fairly robust but they have the same uncontrolled process stack. I'm not sure if it was boasting but Bill said he and his attorney were essential in writing the 279 used oil regs and so if we are going to use 279 and interpret those uncontrolled stacks as releases, I think we will want to talk to the rule experts in hq first. The plant had an unpleasant odor right near the processing but nothing too severe and nothing that traveled far at all. They were very pleasant and very willing to answer every question we had about records and even discuss each odor we smelled as we walked through the plant. They process the oil less than apes (basically they only do the front plant part) so the process has less potential to produce emissions in some ways. Though the uncontrolled stack was definitely stinky. There was no smell on jantzen beach that we could tell today.

One quick note was that it would be useful if while we were here, the citizens could call us if they smelled the smell. We probably should have planned this earlier, but we have 2.5 more days, so I'd be curious what you think about giving my work number to them. It would be so useful to smell it during an extreme event. I don't have their direct contact info, but I know that Richard franklin does and I could reach out to them.

Tomorrow we will go to apes all day. Then Wednesday morning will be any left over apes/orcco and then to bullseye in the afternoon. Thursday we will do any super last minute and hit the road earlyish morning.

Please call me on my cell if you need anything Ex. 6 - Personal Privacy

Last quick note, I am going to come upon a maxiflex problem soon. I worked 14.5 hours extra yesterday and 3.5 hours extra already today. It is likely I will be above 24 hours by Friday and if not, soon after, and not necessarily in any position to take time off with all of my commitments. I mentioned this to zach and he says his supervisor approves normal comp time in these situations. We have never discussed before, but the circumstances are certainly unique now and I'd hate not to be able to do what is required. I am happy to put in the time, so let me know what you think.

Katie

Katie McClintock

Air Enforcement Officer

EPA Region 10

1200 Sixth Avenue, Suite 900, OCE-101

Seattle, WA 98101

Phone: 206-553-2143

Fax: 206-553-4743

Mcclintock.katie@epa.gov

To: Smith, Judy[Smith.Judy@epa.gov]; Wroble, Julie[Wroble.Julie@epa.gov]; Koprowski, Paul[Koprowski.Paul@epa.gov]; Downey, Scott[Downey.Scott@epa.gov]; Narvaez, Madonna[Narvaez.Madonna@epa.gov]; McClintock, Katie[McClintock.Katie@epa.gov]; Franklin, Richard[Franklin.Richard@epa.gov]; Leefers, Kristin[Leefers.Kristin@epa.gov]
Cc: Holsman, Marianne[Holsman.Marianne@epa.gov]; Philip, Jeff[Philip.Jeff@epa.gov]; Skadowski, Suzanne[Skadowski.Suzanne@epa.gov]; MacIntyre, Mark[Macintyre.Mark@epa.gov]; Cortelyou-Lee, Jan[Cortelyou-Lee.Jan@epa.gov]; Fleming, Sheila[fleming.sheila@epa.gov]
From: Stifelman, Marc
Sent: Mon 2/8/2016 5:02:41 PM
Subject: RE: SE Portland Metals Emissions - EPA desk statement

DEQ has updated the "Metals emissions in Portland" webpage with a map that outlines the areas in Portland where cadmium concentrations are potentially at levels of concern. To view the map go to:

http://www.deq.state.or.us/nwr/metalsemissions.htm

Attend this meeting to learn more about metals emissions in Portland:

Community open house

5 p.m. to 9 p.m., Tuesday, Feb. 9

Cleveland High School Cafeteria

3400 SE 26th Ave.,Portland, OR 97202

For health information, go to the Oregon Health Authority's webpage "OHA Investigation Metals Emissions in Portland" at:

http://public.health.oregon.gov/newsadvisories/Pages/metals-emissions.aspx

You are subscribed to Metals emissions in Portland for Oregon Department of Environmental Quality (DEQ). This information has recently been updated, and is now available.

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This email was sent to stifelman.marc@epa.gov using GovDelivery, on behalf of the Oregon Department of Environmental Quality (DEQ) · 811 SW 6th Avenue · Portland OR 97204 · 503-229-5696

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"Time makes more Converts than Reason."

-- Thomas Paine, 1776

Marc Stifelman, Toxicologist
U.S. Environmental Protection Agency, Region 10
Office of Environmental Assessment, Risk Evaluation Unit
1200 Sixth Avenue, Suite 900
Mail Stop: OEA-140
Seattle, Washington 98101-3140
Tele 206/553-6979
stifelman.marc@epa.gov

From: Smith, Judy
Sent: Friday, February 05, 2016 3:51 PM
To: Wroble, Julie <Wroble.Julie@epa.gov>; Koprowski, Paul <Koprowski.Paul@epa.gov>; Downey, Scott <Downey.Scott@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Franklin, Richard <Franklin.Richard@epa.gov>; Leefers, Kristin <Leefers.Kristin@epa.gov>
Cc: Holsman, Marianne <Holsman.Marianne@epa.gov>; Philip, Jeff <Philip.Jeff@epa.gov>; Skadowski, Suzanne <Skadowski.Suzanne@epa.gov>; MacIntyre, Mark <Macintyre.Mark@epa.gov>; Stifelman, Marc <Stifelman.Marc@epa.gov>; Cortelyou-Lee, Jan <Cortelyou-Lee.Jan@epa.gov>; Fleming, Sheila <fleming.sheila@epa.gov>
Subject: SE Portland Metals Emissions - EPA desk statement

Desk Statement: SE Portland - Metals Contamination from Bullseye Glass

The Oregon Department of Environmental Quality found a significant "hot spot" of
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cadmium and arsenic during air sampling in Portland, Oregon near SE 22nd Ave. and Powell Blvd. DEQ is collecting additional air samples in the affected area, and is working collaboratively with county, state and federal health agencies (OHA, MCHD and ATSDR) to determine impacts to public health. EPA is being kept fully informed about this developing situation and is ready to support and assist ODEQ as needed. EPA and ATSDR are evaluating these findings in relation to EPA health standards.

Additional information, including a link to the air sampling data can be found at: http://www.deq.state.or.us/nwr/metalsemissions.htm. DEQ's initial findings are that the monthly average is 49 times greater than the state air toxics benchmark for cadmium and 159 times the state air toxics benchmark for arsenic.

Questions and Answers

Has EPA been involved?

EPA Region 10 was briefed on the situation by ODEQ prior to the February 3, 2016 press release. We remain ready to support DEQ, Oregon Health Authority, Multnomah County Health Department and ATSDR in assessing, monitoring or communicating about the situation as needed.

If so, what is our role?

EPA Region 10 is looking at our records to identify other potential sources in the affected area. We are also comparing federal regional screening levels (RSL) with the ODEQ state health benchmarks in relation to the amount of contamination found in the study. In addition to EPA, the ATSDR is working with DEQ, OHA and Multnomah County Heath to communicate the potential impact on the community from the monitored levels of contamination.

Are we determining or confirming the air pollution and/or the source?

ODEQ is keeping EPA informed of their actions to monitor the situation and exposure levels. As of Friday, February 5, they were proceeding with additional particulate monitoring at nearby schools and day care centers. Requests for additional monitoring resources have been made.

Do we know any more about the USFS role or study mentioned in the article?

EPA has not yet reviewed this study, which was a collaborative study between US Forest Service and DEQ to better understand the sources and distribution or arsenic and cadmium air pollution in Portland. The original intent of the study was more broadly related to capturing the impact of air toxic pollution in the Portland Metropolitan area.

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Judy Smith, EPA

Public Affairs Specialist

503-326-6994 desk

503-545-2540 cell

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To: Wroble, Julie[Wroble.Julie@epa.gov]; Koprowski, Paul[Koprowski.Paul@epa.gov]; Downey, Scott[Downey.Scott@epa.gov]; Narvaez, Madonna[Narvaez.Madonna@epa.gov]; McClintock, Katie[McClintock.Katie@epa.gov]; Franklin, Richard[Franklin.Richard@epa.gov]; Leefers, Kristin[Leefers.Kristin@epa.gov]
Cc: Holsman, Marianne[Holsman.Marianne@epa.gov]; Philip, Jeff[Philip.Jeff@epa.gov]; Skadowski, Suzanne[Skadowski.Suzanne@epa.gov]; MacIntyre, Mark[Macintyre.Mark@epa.gov]; Stifelman, Marc[Stifelman.Marc@epa.gov]; Cortelyou-Lee, Jan[Cortelyou-Lee.Jan@epa.gov]; Fleming, Sheila[fleming.sheila@epa.gov]
From: Smith, Judy
Sent: Fri 2/5/2016 11:51:02 PM
Subject: SE Portland Metals Emissions - EPA desk statement

Desk Statement: SE Portland - Metals Contamination from Bullseye Glass

The Oregon Department of Environmental Quality found a significant "hot spot" of cadmium and arsenic during air sampling in Portland, Oregon near SE 22nd Ave. and Powell Blvd. DEQ is collecting additional air samples in the affected area, and is working collaboratively with county, state and federal health agencies (OHA, MCHD and ATSDR) to determine impacts to public health. EPA is being kept fully informed about this developing situation and is ready to support and assist ODEQ as needed. EPA and ATSDR are evaluating these findings in relation to EPA health standards.

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Judy Smith, EPA

Public Affairs Specialist

503-326-6994 desk

503-545-2540 cell
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To: Wroble, Julie[Wroble.Julie@epa.gov]; Smith, Judy[Smith.Judy@epa.gov]; Koprowski, Paul[Koprowski.Paul@epa.gov]; Downey, Scott[Downey.Scott@epa.gov]; Narvaez, Madonna[Narvaez.Madonna@epa.gov]; McClintock, Katie[McClintock.Katie@epa.gov]; Franklin, Richard[Franklin.Richard@epa.gov]
Cc: Holsman, Marianne[Holsman.Marianne@epa.gov]; Philip, Jeff[Philip.Jeff@epa.gov]; Skadowski, Suzanne[Skadowski.Suzanne@epa.gov]; MacIntyre, Mark[Macintyre.Mark@epa.gov]; Stifelman, Marc[Stifelman.Marc@epa.gov]
From: Leefers, Kristin
Sent: Fri 2/5/2016 11:32:07 PM
Subject: RE: Draft Final Bullseye Glass draft desk statement

Looks good to me, thanks Judy! Also, please keep me on the list.

I'd also like to be kept in the loop regarding the response to OPB. Perhaps after press and the program draft something, I could do a review of the final draft.

Thanks,

Kris

Kris Leefers

206-553-1532

From: Wroble, Julie
Sent: Friday, February 05, 2016 3:25 PM
To: Smith, Judy <Smith.Judy@epa.gov>; Koprowski, Paul <Koprowski.Paul@epa.gov>; Downey, Scott <Downey.Scott@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Franklin, Richard <Franklin.Richard@epa.gov>; Leefers, Kristin <Leefers.Kristin@epa.gov>
Cc: Holsman, Marianne <Holsman.Marianne@epa.gov>; Philip, Jeff <Philip.Jeff@epa.gov>; Skadowski, Suzanne <Skadowski.Suzanne@epa.gov>; MacIntyre, Mark <Macintyre.Mark@epa.gov>; Stifelman, Marc <Stifelman.Marc@epa.gov>
Subject: RE: Draft Final Bullseye Glass draft desk statement

One edit I missed last time. Sorry.

From: Smith, Judy
Sent: Friday, February 05, 2016 3:23 PM
To: Wroble, Julie <Wroble.Julie@epa.gov>; Koprowski, Paul <Koprowski.Paul@epa.gov>; Downey, Scott <Downey.Scott@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Franklin, Richard <Franklin.Richard@epa.gov>; Leefers, Kristin <Leefers.Kristin@epa.gov>
Cc: Holsman, Marianne <Holsman.Marianne@epa.gov>; Philip, Jeff <Philip.Jeff@epa.gov>; Skadowski, Suzanne <Skadowski.Suzanne@epa.gov>; MacIntyre, Mark <Macintyre.Mark@epa.gov>; Stifelman, Marc <Stifelman.Marc@epa.gov>
Subject: Draft Final Bullseye Glass draft desk statement

Hi All -

Hopefully I captured all of the many inputs for this external desk statement for your final review. It ended up making it a bit shorter! Please take a look at this penultimate version and let me know of any final concerns.

Two additional requests. First, I believe most of you saw Mark MacIntyre's media inquiry from OPB about this issue in relation to the federal air program. Please let me know if you should be involved in review of the response to that question. Second, please let me know if you want off of this active and growing e-mail chain.

Thanks, Judy

Desk Statement: SE Portland - Metals Contamination from Bullseye Glass

Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process

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Judy Smith, EPA

Public Affairs Specialist

503-326-6994 desk

503-545-2540 cell

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To: Wroble, Julie[Wroble.Julie@epa.gov]; Koprowski, Paul[Koprowski.Paul@epa.gov]; Downey, Scott[Downey.Scott@epa.gov]; Narvaez, Madonna[Narvaez.Madonna@epa.gov]; McClintock, Katie[McClintock.Katie@epa.gov]; Franklin, Richard[Franklin.Richard@epa.gov]; Leefers, Kristin[Leefers.Kristin@epa.gov]
Cc: Holsman, Marianne[Holsman.Marianne@epa.gov]; Philip, Jeff[Philip.Jeff@epa.gov]; Skadowski, Suzanne[Skadowski.Suzanne@epa.gov]; MacIntyre, Mark[Macintyre.Mark@epa.gov]; Stifelman, Marc[Stifelman.Marc@epa.gov]
From: Smith, Judy
Sent: Fri 2/5/2016 11:22:32 PM
Subject: Draft Final Bullseye Glass draft desk statement

Hi All -

Hopefully I captured all of the many inputs for this external desk statement for your final review. It ended up making it a bit shorter! Please take a look at this penultimate version and let me know of any final concerns.

Two additional requests. First, I believe most of you saw Mark MacIntyre's media inquiry from OPB about this issue in relation to the federal air program. Please let me know if you should be involved in review of the response to that question. Second, please let me know if you want off of this active and growing e-mail chain.

Thanks, Judy

Ex. 5 - Deliberative Process

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Judy Smith, EPA

Public Affairs Specialist

503-326-6994 desk

503-545-2540 cell

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To: Smith, Judy[Smith.Judy@epa.gov]; McClintock, Katie[McClintock.Katie@epa.gov]
Cc: Franklin, Richard[Franklin.Richard@epa.gov]; Koprowski, Paul[Koprowski.Paul@epa.gov]; Downey, Scott[Downey.Scott@epa.gov]; Wroble, Julie[Wroble.Julie@epa.gov]; Holsman, Marianne[Holsman.Marianne@epa.gov]; Schuster, Cindy[Schuster.Cindy@epa.gov]; Philip, Jeff[Philip.Jeff@epa.gov]; Skadowski, Suzanne[Skadowski.Suzanne@epa.gov]; MacIntyre, Mark[Macintyre.Mark@epa.gov]; Leefers, Kristin[Leefers.Kristin@epa.gov]; Cortelyou-Lee, Jan[Cortelyou-Lee.Jan@epa.gov]
From: Narvaez, Madonna
Sent: Fri 2/5/2016 11:09:59 PM
Subject: RE: Bullseye Glass draft desk statement and draft responses to Congressman Blumenauer

Judy, Susan Fairchild of OAQPS asked that you copy Jan Cortelyou when you distribute the final desk statement. Thanks!

From: Smith, Judy
Sent: Friday, February 05, 2016 12:59 PM
To: McClintock, Katie <McClintock.Katie@epa.gov>
Cc: Franklin, Richard <Franklin.Richard@epa.gov>; Koprowski, Paul <Koprowski.Paul@epa.gov>; Downey, Scott <Downey.Scott@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; Wroble, Julie <Wroble.Julie@epa.gov>; Holsman, Marianne <Holsman.Marianne@epa.gov>; Schuster, Cindy <Schuster.Cindy@epa.gov>; Philip, Jeff <Philip.Jeff@epa.gov>; Skadowski, Suzanne <Skadowski.Suzanne@epa.gov>; MacIntyre, Mark <Macintyre.Mark@epa.gov>; Leefers, Kristin <Leefers.Kristin@epa.gov>
Subject: Re: Bullseye Glass draft desk statement and draft responses to Congressman Blumenauer

Thanks to everyone for the quick feedback. When making short statements every word counts.

I will look at all the edits and get them reconciled shortly,

Judy

Sent from my iPhone

On Feb 5, 2016, at 12:52 PM, McClintock, Katie <McClintock.Katie@epa.gov> wrote:

Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process

From: Franklin, Richard
Sent: Friday, February 05, 2016 12:43 PM
To: McClintock, Katie <McClintock.Katie@epa.gov>; Smith, Judy <Smith.Judy@epa.gov>; Koprowski, Paul <Koprowski.Paul@epa.gov>; Downey, Scott <Downey.Scott@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; Wroble, Julie <Wroble.Julie@epa.gov>
Cc: Holsman, Marianne <Holsman.Marianne@epa.gov>; Schuster, Cindy <Schuster.Cindy@epa.gov>; Philip, Jeff <Philip.Jeff@epa.gov>; Skadowski, Suzanne <Skadowski.Suzanne@epa.gov>; MacIntyre, Mark <Macintyre.Mark@epa.gov>; Leefers, Kristin <Leefers.Kristin@epa.gov>
Subject: RE: Bullseye Glass draft desk statement and draft responses to Congressman Blumenauer

Ex. 5 - Deliberative Process

From: McClintock, Katie
Sent: Friday, February 05, 2016 12:36 PM
To: Franklin, Richard <Franklin.Richard@epa.gov>; Smith, Judy <Smith.Judy@epa.gov>; Koprowski, Paul <Koprowski.Paul@epa.gov>; Downey, Scott <Downey.Scott@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; Wroble, Julie <Wroble.Julie@epa.gov>
Cc: Holsman, Marianne <Holsman.Marianne@epa.gov>; Schuster, Cindy <Schuster.Cindy@epa.gov>; Philip, Jeff <Philip.Jeff@epa.gov>; Skadowski, Suzanne <Skadowski.Suzanne@epa.gov>; MacIntyre, Mark <Macintyre.Mark@epa.gov>; Leefers, Kristin <Leefers.Kristin@epa.gov>
Subject: RE: Bullseye Glass draft desk statement and draft responses to Congressman Blumenauer

Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process

From: Franklin, Richard
Sent: Friday, February 05, 2016 12:32 PM
To: Smith, Judy <Smith.Judy@epa.gov>; Koprowski, Paul <Koprowski.Paul@epa.gov>; Downey, Scott <Downey.Scott@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Wroble, Julie <Wroble.Julie@epa.gov>
Cc: Holsman, Marianne <Holsman.Marianne@epa.gov>; Schuster, Cindy <Schuster.Cindy@epa.gov>; Philip, Jeff <Philip.Jeff@epa.gov>; Skadowski, Suzanne <Skadowski.Suzanne@epa.gov>; MacIntyre, Mark <Macintyre.Mark@epa.gov>
Subject: RE: Bullseye Glass draft desk statement and draft responses to Congressman Blumenauer

Ex. 5 - Deliberative Process

Thanks Judy.

From: Smith, Judy
Sent: Friday, February 05, 2016 11:41 AM
To: Koprowski, Paul <Koprowski.Paul@epa.gov>; Downey, Scott <Downey.Scott@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Franklin, Richard <Franklin.Richard@epa.gov>; Wroble, Julie <Wroble.Julie@epa.gov>
Cc: Holsman, Marianne <Holsman.Marianne@epa.gov>; Schuster, Cindy <Schuster.Cindy@epa.gov>; Philip, Jeff <Philip.Jeff@epa.gov>; Skadowski, Suzanne <Skadowski.Suzanne@epa.gov>; MacIntyre, Mark <Macintyre.Mark@epa.gov>
Subject: Bullseye Glass draft desk statement and draft responses to Congressman Blumenauer

Please review this draft EPA desk statement regarding the metal emissions issue in SE Portland and let me know of any changes that are needed. Thanks, Judy

Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process

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Judy Smith, EPA

Public Affairs Specialist

503-326-6994 desk

503-545-2540 cell

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<image001.png> <image002.png> <image003.png> <image004.png> <image005.png><image006.png>

To: Leefers, Kristin[Leefers.Kristin@epa.gov]; Smith, Judy[Smith.Judy@epa.gov]; McClintock, Katie[McClintock.Katie@epa.gov]
Cc: Franklin, Richard[Franklin.Richard@epa.gov]; Koprowski, Paul[Koprowski.Paul@epa.gov]; Downey, Scott[Downey.Scott@epa.gov]; Narvaez, Madonna[Narvaez.Madonna@epa.gov]; Holsman, Marianne[Holsman.Marianne@epa.gov]; Schuster, Cindy[Schuster.Cindy@epa.gov]; Philip, Jeff[Philip.Jeff@epa.gov]; Skadowski, Suzanne[Skadowski.Suzanne@epa.gov]; MacIntyre, Mark[Macintyre.Mark@epa.gov]; Stifelman, Marc[Stifelman.Marc@epa.gov]
From: Wroble, Julie
Sent: Fri 2/5/2016 10:55:09 PM
Subject: RE: Bullseye Glass draft desk statement and draft responses to Congressman Blumenauer
Portland Powell and Twenty Second ave metals monitoring_jw_rsls.xlsx

See row with Regional screening levels. These are based on assumed exposure for a chronic duration and a 1 in a million cancer risk or hazard quotient of 1. Let me or Marc Stifelman know if you have any questions.

I'm anxious to hear more about any soil data collected or if the filters can be re-run for speciated metals or lead chromate.

Julie

From: Leefers, Kristin
Sent: Friday, February 05, 2016 2:21 PM
To: Smith, Judy <Smith.Judy@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>
Cc: Franklin, Richard <Franklin.Richard@epa.gov>; Koprowski, Paul <Koprowski.Paul@epa.gov>; Downey, Scott <Downey.Scott@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; Wroble, Julie <Wroble.Julie@epa.gov>; Holsman, Marianne <Holsman.Marianne@epa.gov>; Schuster, Cindy <Schuster.Cindy@epa.gov>; Philip, Jeff <Philip.Jeff@epa.gov>; Skadowski, Suzanne <Skadowski.Suzanne@epa.gov>; MacIntyre, Mark <Macintyre.Mark@epa.gov>
Subject: RE: Bullseye Glass draft desk statement and draft responses to Congressman Blumenauer

Ex. 5 - Attorney Client

Thanks Judy for your work on this. Please send out the updated draft when you have a

chance for the groups final review.

Kris

Kris Leefers

206-553-1532

From: Smith, Judy
Sent: Friday, February 05, 2016 12:59 PM
To: McClintock, Katie <McClintock.Katie@epa.gov>
Cc: Franklin, Richard <Franklin.Richard@epa.gov>; Koprowski, Paul <Koprowski.Paul@epa.gov>; Downey, Scott <Downey.Scott@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; Wroble, Julie <Wroble.Julie@epa.gov>; Holsman, Marianne <Holsman.Marianne@epa.gov>; Schuster, Cindy <Schuster.Cindy@epa.gov>; Philip, Jeff <Philip.Jeff@epa.gov>; Skadowski, Suzanne <Skadowski.Suzanne@epa.gov>; MacIntyre, Mark <Macintyre.Mark@epa.gov>; Leefers, Kristin <Leefers.Kristin@epa.gov>
Subject: Re: Bullseye Glass draft desk statement and draft responses to Congressman Blumenauer

Thanks to everyone for the quick feedback. When making short statements every word counts.

I will look at all the edits and get them reconciled shortly,

Judy

Sent from my iPhone

On Feb 5, 2016, at 12:52 PM, McClintock, Katie <McClintock.Katie@epa.gov> wrote:

Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process

From: Franklin, Richard
Sent: Friday, February 05, 2016 12:43 PM
To: McClintock, Katie <McClintock.Katie@epa.gov>; Smith, Judy <Smith.Judy@epa.gov>; Koprowski, Paul <Koprowski.Paul@epa.gov>; Downey, Scott <Downey.Scott@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; Wroble, Julie <Wroble.Julie@epa.gov>
Cc: Holsman, Marianne <Holsman.Marianne@epa.gov>; Schuster, Cindy <Schuster.Cindy@epa.gov>; Philip, Jeff <Philip.Jeff@epa.gov>; Skadowski, Suzanne <Skadowski.Suzanne@epa.gov>; MacIntyre, Mark <Macintyre.Mark@epa.gov>; Leefers, Kristin <Leefers.Kristin@epa.gov>
Subject: RE: Bullseye Glass draft desk statement and draft responses to Congressman Blumenauer

Ex. 5 - Deliberative Process

From: McClintock, Katie
Sent: Friday, February 05, 2016 12:36 PM
To: Franklin, Richard <Franklin.Richard@epa.gov>; Smith, Judy <Smith.Judy@epa.gov>; Koprowski, Paul <Koprowski.Paul@epa.gov>; Downey, Scott <Downey.Scott@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; Wroble, Julie <Wroble.Julie@epa.gov>
Cc: Holsman, Marianne <Holsman.Marianne@epa.gov>; Schuster, Cindy <Schuster.Cindy@epa.gov>; Philip, Jeff <Philip.Jeff@epa.gov>; Skadowski, Suzanne <Skadowski.Suzanne@epa.gov>; MacIntyre, Mark <Macintyre.Mark@epa.gov>; Leefers, Kristin <Leefers.Kristin@epa.gov>
Subject: RE: Bullseye Glass draft desk statement and draft responses to Congressman Blumenauer

Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process

From: Franklin, Richard
Sent: Friday, February 05, 2016 12:32 PM
To: Smith, Judy <Smith.Judy@epa.gov>; Koprowski, Paul <Koprowski.Paul@epa.gov>; Downey, Scott <Downey.Scott@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Wroble, Julie <Wroble.Julie@epa.gov>
Cc: Holsman, Marianne <Holsman.Marianne@epa.gov>; Schuster, Cindy <Schuster.Cindy@epa.gov>; Philip, Jeff <Philip.Jeff@epa.gov>; Skadowski, Suzanne <Skadowski.Suzanne@epa.gov>; MacIntyre, Mark <Macintyre.Mark@epa.gov>
Subject: RE: Bullseye Glass draft desk statement and draft responses to Congressman Blumenauer

Ex. 5 - Deliberative Process

Thanks Judy.

From: Smith, Judy
Sent: Friday, February 05, 2016 11:41 AM
To: Koprowski, Paul <Koprowski.Paul@epa.gov>; Downey, Scott <Downey.Scott@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Franklin, Richard <Franklin.Richard@epa.gov>; Wroble, Julie <Wroble.Julie@epa.gov>
Cc: Holsman, Marianne <Holsman.Marianne@epa.gov>; Schuster, Cindy <Schuster.Cindy@epa.gov>; Philip, Jeff <Philip.Jeff@epa.gov>; Skadowski, Suzanne <Skadowski.Suzanne@epa.gov>; MacIntyre, Mark <Macintyre.Mark@epa.gov>
Subject: Bullseye Glass draft desk statement and draft responses to Congressman Blumenauer

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Judy Smith, EPA

Public Affairs Specialist

503-326-6994 desk

503-545-2540 cell

~~~~~~

<image001.png> <image002.png> <image003.png> <image004.png> <image005.png><image006.png>

Comments about this work sheet:

a.

b.

c.

d.

1

2

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4

5

6

7

In October 2015, DEQ and Reed College performed air toxics metals monitoring in the Fred Meyers HQ parking lot near S
The samples were collected on 47mm Teflon filters, at 16.7 LPM, through a PM10 preseperator. The samples were collec
The filters were sent to Desert Research Institute for ICP-MS analysis.
The results are show in the following spreadsheets:
"Metals Conc PPT and PNR" are the metals concentrations for Oct 2015 for PPT and Oct 2014 for Portland N. Roselawn (P
"colors" is a table and a link to what metals are used for colors for glass manufacturing
"QC" are the primary and duplicate samples, and the field blanks
analysis flags are the flags definitions provided by DRI
"Concentration Filter data" is the spreadsheet where I divided the filter mass by the sample volume for PPT
Volumes are the filter volume and date information from DEQ
"ICPMS data" are the filter mass and uncertainty data from DRI

Anthony Barnack
503-229-5713
barnack.anthony@deq.state.or.us

1 **Here are the Cadmium Result from the Fred Meyer parking lot across from Bullseye. The sites name is "Portland - Powell & Twenty Second" or PPT**

	sample date
	10/6/15
	10/7/15
	10/9/15
	10/10/15
prim	10/12/15
	10/14/15
	10/15/15
	10/17/15
	10/18/15
	10/20/15
	10/21/15
	10/23/15
	10/24/15
	10/26/15
	10/27/15
	10/29/15
	10/30/15
prim	11/2/15
	average
	Maximum

2 **Summary of PPT data without the uncertainties**

	sample date
	10/6/15
	10/7/15
	10/9/15
	10/10/15
	10/12/15
	10/14/15
	10/15/15
	10/17/15
	10/18/15
	10/20/15
	10/21/15
	10/23/15
	10/24/15
	10/26/15
	10/27/15
	10/29/15
	10/30/15
	11/2/15
	Average

3 **Portland N. Roselawn (PNR) Metals data from Octover 2014 (for comparison). The 2015 data is not out yet.**

PNR	
	10/2/2014
	10/8/2014
	10/14/2014
	10/20/2014
	10/26/2014
	Average

4 **Difference between PPT and PNR**

	PPT-PNR

5 **ambient benchmark concentrations**

EPA RSLs	

Beryllium (ng/m3)	Beryllium (ng/m3) uncertainty	Emerald Green Chromium (ng/m3)	Chromium (ng/m3) uncertainty	Purple & A "decoloring" agent Manganese (ng/m3)	Manganese (ng/m3) uncertainty	Blue-Violet Cobalt (ng/m3)	Cobalt (ng/m3) uncertainty	Violet Nickel (ng/m3)	Nickel (ng/m3) uncertainty	Arsenic (ng/m3)	Arsenic (ng/m3) uncertainty
0.062	0.0061	406.7	34.4	50.5	1.33	2.3	0.0846	17.0	0.2680	75.0	3.7634
0.012	0.0012	20.2	1.7	35.3	0.93	0.3	0.0115	3.4	0.0541	3.0	0.1511
0.018	0.0018	24.4	2.1	13.1	0.35	0.9	0.0323	8.3	0.1315	8.8	0.4432
0.007	0.0007	24.9	2.1	4.0	0.11	0.3	0.0102	2.3	0.0365	20.3	1.0176
0.015	0.0015	25.5	2.2	14.2	0.37	0.9	0.0333	8.0	0.1267	20.1	1.0087
0.008	0.0008	19.0	1.6	18.3	0.48	0.1	0.0040	1.4	0.0220	1.1	0.0577
0.030	0.0029	17.4	1.5	44.2	1.17	0.4	0.0158	3.5	0.0555	1.1	0.0576
0.012	0.0012	21.0	1.8	8.2	0.22	0.2	0.0085	2.9	0.0461	7.7	0.3848
0.008	0.0008	20.1	1.7	8.0	0.21	0.4	0.0136	7.4	0.1166	6.7	0.3387
0.008	0.0008	21.4	1.8	13.1	0.35	0.3	0.0126	2.9	0.0455	14.8	0.7439
0.020	0.0020	22.8	1.9	24.2	0.64	1.1	0.0405	6.8	0.1074	101.1	5.0736
0.013	0.0013	23.3	2.0	27.7	0.73	0.3	0.0099	4.3	0.0678	3.0	0.1527
0.029	0.0028	439.5	37.1	23.5	0.62	0.8	0.0302	7.1	0.1120	3.5	0.1775
0.010	0.0010	48.0	4.1	7.2	0.19	3.5	0.1302	1.9	0.0306	60.4	3.0297
0.019	0.0019	24.4	2.1	21.1	0.56	0.8	0.0286	9.2	0.1449	15.9	0.7998
0.009	0.0009	37.7	3.2	6.0	0.16	2.8	0.1047	4.6	0.0726	93.2	4.6749
0.007	0.0007	38.5	3.3	3.4	0.09	0.4	0.0150	1.4	0.0226	97.3	4.8796
0.007	0.0007	52.6	4.4	13.3	0.35	0.7	0.0255	5.0	0.0787	38.3	1.9210
0.016	**0.002**	**69.119**	**5.841**	**18.469**	**0.487**	**0.909**	**0.034**	**5.556**	**0.088**	**31.205**	**1.566**
0.062	**0.006**	**439.507**	**37.142**	**50.502**	**1.332**	**3.477**	**0.130**	**16.990**	**0.268**	**101.117**	**5.074**

Chromium (ng/m3)	Cobalt (ng/m3)	Arsenic (ng/m3)	Selenium (ng/m3)	Cadmium (ng/m3)	Lead (ng/m3)	Nickel (ng/m3)	Manganese (ng/m3)	Beryllium (ng/m3)
406.7	2.3	75.0	9.8	13.0	66.9	17.0	50.5	0.062
20.2	0.3	3.0	4.1	2.2	5.9	3.4	35.3	0.012
24.4	0.9	8.8	45.6	13.8	7.6	8.3	13.1	0.018
24.9	0.3	20.3	3.0	195.4	5.4	2.3	4.0	0.007
25.5	0.9	20.1	13.2	8.6	32.5	8.0	14.2	0.015
19.0	0.1	1.1	0.0	1.6	2.2	1.4	18.3	0.008
17.4	0.4	1.1	0.0	2.7	6.3	3.5	44.2	0.030
21.0	0.2	7.7	0.8	1.5	10.1	2.9	8.2	0.012
20.1	0.4	6.7	8.3	4.4	7.6	7.4	8.0	0.008
21.4	0.3	14.8	12.3	6.5	16.7	2.9	13.1	0.008
22.8	1.1	101.1	13.0	11.6	60.7	6.8	24.2	0.020
23.3	0.3	3.0	0.0	0.8	5.2	4.3	27.7	0.013
439.5	0.8	3.5	2.7	1.1	8.1	7.1	23.5	0.029
48.0	3.5	60.4	271.1	132.9	67.3	1.9	7.2	0.010
24.4	0.8	15.9	15.6	10.8	10.2	9.2	21.1	0.019
37.7	2.8	93.2	220.0	56.9	248.3	4.6	6.0	0.009
38.5	0.4	97.3	136.5	41.7	124.4	1.4	3.4	0.007
52.6	0.7	38.3	41.4	24.3	87.6	5.0	13.3	0.007
71.5	**0.9**	**31.7**	**44.3**	**29.4**	**42.9**	**5.4**	**18.6**	**0.016**

Chromium (ng/m3(LC))	Cobalt (ng/m3(LC))	Arsenic (ng/m3(LC))	Selenium (ng/m3(LC))	Cadmium (ng/m3(LC))	Lead (ng/m3(LC))	Nickel (ng/m3(LC))	Manganese (ng/m3(LC))	Beryllium (ng/m3(LC))
1.86	0.215	2.59	2.1	1.95	7.92	2.94	49.2	0.002
1.06	0.131	0.622	0.165	0.066	2.47	2.4	31.7	0.002
0.347	0.076	1.3	0.894	1.18	2.89	0.321	1.99	0.0007
0.568	0.053	1.32	2.39	2.78	4.69	0.735	1.92	0.0004
0.261	0.025	0.721	1.83	2.49	1.14	0.857	1.02	0.0006
0.8192	**0.1**	**1.3**	**1.5**	**1.7**	**3.8**	**1.45**	**17.2**	**0.0011**

70.7	**0.8**	**30.4**	**42.8**	**27.7**	**39.1**	**4.0**	**1.5**	**0.015**

Chromium (ng/m3(LC))	Cobalt (ng/m3(LC))	Arsenic (ng/m3(LC))	Selenium (ng/m3(LC))	Cadmium (ng/m3(LC))	Lead (ng/m3(LC))	Nickel (ng/m3(LC))	Manganese (ng/m3(LC))	Beryllium (ng/m3(LC))
	100	0.2		0.6	150	2	90	0.4
0.012 (VI)	0.31	0.65	21,000	1.6	150	11	52	1.2
					0.0068 (lead chromate)			
						5.8 (nickel subsulfide)		

Reds		Yellow		Yellow	
Selenium (ng/m3)	Selenium (ng/m3) uncertainty	Cadmium (ng/m3)	Cadmium (ng/m3) uncertainty	Lead (ng/m3)	Lead (ng/m3) uncertainty
9.8	0.6484	13.0	0.0692	66.9	0.7344
4.1	0.3371	2.2	0.0119	5.9	0.0644
45.6	2.6106	13.8	0.0736	7.6	0.0830
3.0	0.2761	195.4	1.0413	5.4	0.0594
13.2	0.8369	8.6	0.0457	32.5	0.3566
0.0	0.0791	1.6	0.0085	2.2	0.0247
0.0	0.0710	2.7	0.0144	6.3	0.0687
0.8	0.1551	1.5	0.0079	10.1	0.1114
8.3	0.5670	4.4	0.0238	7.6	0.0830
12.3	0.7843	6.5	0.0347	16.7	0.1835
13.0	0.8230	11.6	0.0621	60.7	0.6664
0.0	0.1033	0.8	0.0042	5.2	0.0566
2.7	0.2620	1.1	0.0059	8.1	0.0895
271.1	14.9439	132.9	0.7080	67.3	0.7388
15.6	0.9696	10.8	0.0574	10.2	0.1122
220.0	12.1456	56.9	0.3029	248.3	2.7267
136.5	7.5815	41.7	0.2221	124.4	1.3659
41.4	2.3789	24.3	0.1298	87.6	0.9616
42.718	**2.446**	**28.367**	**0.151**	**42.484**	**0.467**
271.121	**14.944**	**195.425**	**1.041**	**248.297**	**2.727**

Metals	Color
Antimony Oxides	White
Cadmium Sulfide	Yellow
Carbon Oxides	Amber Brown
Chromic Oxide	Emerald Green
Cobalt Oxide	Blue-Violet
Copper Compounds	Blue, Green, Red
Gold Chloride	Red
Iron Oxide	Greens and Browns
Lead Compounds	Yellow
Manganese Dioxide	Purple
Manganese Dioxide	A "decoloring" agent
Nickel Oxide	Violet
Selenium Oxide	Reds
Sodium Nitrate	A "decoloring" agent
Sulfur	Yellow-Amber
Tin Compounds	White
Uranium Oxide	Fluorescent Yellow, Green

http://geology.com/articles/color-in-glass.shtml

	TID		ELPF	Volume	Beryllium (µg/filter)	**Beryllium (ng/m3)**	Beryllium (µg/filter) uncertainty	**Beryllium (ng/m3) uncertainty**	Chromium (µg/filter)
prim	F52211	720	12-Oct-2015	24.04	0.000360	**0.015**	0.000036	**0.0015**	0.612148
Dup	F52212	685	12-Oct-2015	24.04	0.000407	**0.017**	0.000040	**0.0017**	0.625653
% diff						**-13%**		**-13%**	
prim	F52213	720	2-Nov-2015	24.04	0.000162	**0.007**	0.000016	**0.0007**	1.263408
Dup	F52225	685	2-Nov-2015	Max Load	0.000247	**Max Load**	0.000024	**Max Load**	0.469061
% diff						**#VALUE!**		**#VALUE!**	
Field Blank	F52216	685		FB	0.000149	**FB**	0.000015	**FB**	0.422585

Chromium (ng/m3)	Chromium (µg/filter) uncertainty	**Chromium (ng/m3) uncertainty**	Maanese (µg/filter)	**Manganese (ng/m3)**	Maanese (µg/filter) uncertainty	**Manganese (ng/m3) uncertainty**	Cobalt (µg/filter)	**Cobalt (ng/m3)**	Cobalt (µg/filter) uncertainty
25.5	0.051732	**2.2**	0.341501	**14.2**	0.009011	**0.37**	0.021369	**0.9**	0.000800
26.0	0.052873	**2.2**	0.372180	**15.5**	0.009822	**0.41**	0.023136	**1.0**	0.000867
-2%		**-2%**		**-9%**		**-9%**		**-8%**	
52.6	0.106768	**4.4**	0.319138	**13.3**	0.008420	**0.35**	0.016366	**0.7**	0.000613
Max Load	0.039639	**Max Load**	1.264638	**Max Load**	0.033370	**Max Load**	0.030611	**Max Load**	0.001146
#VALUE!		**#VALUE!**		**#VALUE!**		**#VALUE!**		**#VALUE!**	
FB	0.035712	**FB**	0.000000	**FB**	0.000064	**FB**	0.000028	**FB**	0.000002

Cobalt (ng/m3) uncertainty	Nickel (µg/filter)	Nickel (ng/m3)	Nickel (µg/filter) uncertainty	Nickel (ng/m3) uncertainty	Arsenic (µg/filter)	Arsenic (ng/m3)	Arsenic (µg/filter) uncertainty	Arsenic (ng/m3) uncertainty	Selenium (µg/filter)
0.0333	0.193043	**8.0**	0.003045	**0.1267**	0.483273	**20.1**	0.024248	**1.0087**	0.317805
0.0360	0.192664	**8.0**	0.003039	**0.1264**	0.514504	**21.4**	0.025816	**1.0739**	0.344154
-8%		**0%**		**0%**		**-6%**		**-6%**	
0.0255	0.119905	**5.0**	0.001892	**0.0787**	0.920397	**38.3**	0.046181	**1.9210**	0.995504
Max Load	0.742832	**Max Load**	0.011718	**Max Load**	0.008116	**Max Load**	0.000408	**Max Load**	0.000000
#VALUE!		**#VALUE!**		**#VALUE!**		**#VALUE!**		**#VALUE!**	
FB	0.000000	**FB**	0.000010	**FB**	0.000000	**FB**	0.000094	**FB**	0.000000

Selenium (ng/m3)	Selenium (µg/filter) uncertainty	**Selenium (ng/m3) uncertainty**	Cadmium (µg/filter)	**Cadmium (ng/m3)**	Cadmium (µg/filter) uncertainty	**Cadmium (ng/m3) uncertainty**	Lead (µg/filter)	**Lead (ng/m3)**	Lead (µg/filter) uncertainty
13.2	0.020119	**0.8369**	0.206074	**8.6**	0.001100	**0.0457**	0.780619	**32.5**	0.008573
14.3	0.021560	**0.8968**	0.220369	**9.2**	0.001175	**0.0489**	0.826969	**34.4**	0.009082
-8%		**-7%**		**-7%**		**-7%**		**-6%**	
41.4	0.057188	**2.3789**	0.585271	**24.3**	0.003120	**0.1298**	2.105037	**87.6**	0.023117
Max Load	0.001874	**Max Load**	0.001458	**Max Load**	0.000012	**Max Load**	0.000000	**Max Load**	0.000053
#VALUE!		**#VALUE!**		**#VALUE!**		**#VALUE!**		**#VALUE!**	
FB	0.002348	**FB**	0.000859	**FB**	0.000005	**FB**	0.000000	**FB**	0.000059

Lead
(ng/m3)
uncertain
ty

0.3566

0.3778

-6%

0.9616

Max Load

#VALUE!

FB

Table 3

Validation Flag	Sub Flag	Description
b		Blank.
	b1	Field/-dynamic blank.
	b2	Laboratory blank.
	b3	Distilled-deionized water blank.
	b4	Method blank.
	b5	Extract/-solution blank.
	b6	Transport blank.
c		Analysis result reprocessed or recalculated.
	c1	XRF spectrum reprocessed using manually adjusted background.
	c2	XRF spectrum reprocessed using interactive deconvolution
d		Sample dropped.
f		Filter damaged or ripped.
	f1	Filter damaged, outside of analysis area.
	f2	Filter damaged, within analysis area.
	f3	Filter wrinkled.
	f4	Filter stuck to PetriSlide.
	f5	Teflon membrane separated from support ring.
	f6	Pinholes in filter.
g		Filter deposit damaged.
	g1	Deposit scratched or scraped, causing a thin line in the deposit.
	g2	Deposit smudged, causing a large area of deposit to be displaced.
	g3	Filter deposit side down in PetriSlide.
	g4	Part of deposit appears to have fallen off; particles on inside of PetriSlide.
	g5	Ungloved finger touched filter.
	g6	Gloved finger touched filter.
h		Filter holder assembly problem.
	h1	Deposit not centered.
	h2	Sampled on wrong side of filter.
	h4	Filter support grid upside down- deposit has widely spaced stripes or grid pattern.
	h5	Two filters in PetriSlide- analyzed separately.
i		Inhomogeneous sample deposit.
	i1	Evidence of impaction - deposit heavier in center of filter.
	i2	Random areas of darker or lighter deposit on filter.
	i3	Light colored deposit with dark specks.
	i4	Non-uniform deposit near edge - possible air leak.
m		Analysis results affected by matrix effect.
	m1	Organic/elemental carbon split undetermined due to an apparent color change of non-carbon particles during analysis; all measured carbon reported as organic.
	m2	Non-white (red) carbon punch after carbon analysis, indicative of mineral particles in deposit.
	m3	A non-typical, but valid, laser response was observed during TOR analysis. This phenomena may result in increased uncertainty of the organic/elemental carbon split. Total carbon measurements are likely unaffected.
	m4	FID drift quality control failure
	m5	Non-white (grey) carbon punch after carbon analysis.
n		Foreign substance on sample.
	n1	Insects on deposit, removed before analysis.
	n2	Insects on deposit, not all removed.
	n3	Metallic particles observed on deposit.
	n4	Many particles on deposit much larger than cut point of inlet.
	n5	Fibers or fuzz on filter.
	n6	Oily-looking droplets on filter.
	n7	Shiny substance on filter.
	n8	Particles on back of filter.
	n9	Discoloration on deposit.
q		Standard.
	q1	Quality control standard.
	q2	Externally prepared quality control standard.
	q3	Second type of externally prepared quality control standard.
	q4	Calibration standard.
r		Replicate analysis.
	r1	First replicate analysis on the same analyzer.
	r2	Second replicate analysis on the same analyzer.
	r3	Third replicate analysis on the same analyzer.
	r4	Sample re-analysis.
	r5	Replicate on different analyzer.
	r6	Sample re-extraction and re-analysis.
	r7	Sample re-analyzed with same result, original value used.
s		Suspect analysis result.
v		Invalid (void) analysis result.
	v1	Quality control standard check exceeded ± 10% of specified concentration range.
	v2	Replicate analysis failed acceptable limit specified in SOP.
	v3	Potential contamination.
	v4	Concentration out of expected range.
	v5	Instrument hardware error
	v6	Operator error
	v7	Instrument software error
w		Wet Sample.
	w1	Deposit spotted from water drops.
y		Data normalized
	y1	XRF data normalized to a sulfate/sulfur ratio of three
	y2	Each species reported as a percentage of the measured species sum

	TID	ELPF		Volume	Beryllium (µg/filter)	**Beryllium (ng/m3)**
	F52226	685	6-Oct-2015	24.04	0.001490	**0.062**
	F52220	720	7-Oct-2015	24.04	0.000295	**0.012**
	F52221	685	9-Oct-2015	24.04	0.000434	**0.018**
	F52231	720	10-Oct-2015	24.04	0.000176	**0.007**
prim	F52211	720	12-Oct-2015	24.04	0.000360	**0.015**
Dup	F52212	685	12-Oct-2015	24.04	0.000407	**0.017**
	F52230	685	14-Oct-2015	24.04	0.000197	**0.008**
	F52232	720	15-Oct-2015	24.04	0.000718	**0.030**
	F52224	685	17-Oct-2015	24.04	0.000290	**0.012**
	F52217	720	18-Oct-2015	24.04	0.000186	**0.008**
	F52228	685	20-Oct-2015	24.04	0.000204	**0.008**
	F52215	720	21-Oct-2015	24.04	0.000479	**0.020**
	F52229	685	23-Oct-2015	24.04	0.000310	**0.013**
	F52222	720	24-Oct-2015	24.04	0.000694	**0.029**
	F52218	685	26-Oct-2015	24.04	0.000239	**0.010**
	F52214	720	27-Oct-2015	24.04	0.000457	**0.019**
	F52219	685	29-Oct-2015	24.04	0.000215	**0.009**
	F52227	720	30-Oct-2015	24.04	0.000163	**0.007**
prim	F52213	720	2-Nov-2015	24.04	0.000162	**0.007**
Dup	F52225	685	2-Nov-2015	**Inst. Malf**	0.000247	**Inst. Malf**
	average					**0.016**
	Maximum					**0.062**
	F52216	685		FB	0.000149	**FB**

TID	Teflon filter ID
ELPF	ICP Analysis flag
BEPC	Beryllium concentration (µg/filter)
BEPU	Beryllium concentration (µg/filter) uncertainty
CRPC	Chromium concentration (µg/filter)
CRPU	Chromium concentration (µg/filter) uncertainty
MNPC	Manganese concentration (µg/filter)
MNPU	Manganese concentration (µg/filter) uncertainty
COPC	Cobalt concentration (µg/filter)
COPU	Cobalt concentration (µg/filter) uncertainty
NIPC	Nickel concentration (µg/filter)
NIPU	Nickel concentration (µg/filter) uncertainty
ASPC	Arsenic concentration (µg/filter)
ASPU	Arsenic concentration (µg/filter) uncertainty
SEPC	Selenium concentration (µg/filter)
SEPU	Selenium concentration (µg/filter) uncertainty
CDPC	Cadmium concentration (µg/filter)
CDPU	Cadmium concentration (µg/filter) uncertainty

PBPC	Lead concentration (µg/filter)
PBPU	Lead concentration (µg/filter) uncertainty
COMMENT	

Beryllium (µg/filter) uncertainty	**Beryllium (ng/m3) uncertainty**	Chromium (µg/filter)	**Chromium (ng/m3)**	Chromium (µg/filter) uncertainty	**Chromium (ng/m3) uncertainty**	Maanese (µg/filter)	**Manganese (ng/m3)**	Maanese (µg/filter) uncertainty
0.000147	**0.0061**	9.777139	**406.7**	0.826240	**34.4**	1.214065	**50.5**	0.032031
0.000029	**0.0012**	0.485409	**20.2**	0.041021	**1.7**	0.848040	**35.3**	0.022373
0.000043	**0.0018**	0.587165	**24.4**	0.049620	**2.1**	0.316061	**13.1**	0.008341
0.000017	**0.0007**	0.598764	**24.9**	0.050602	**2.1**	0.097215	**4.0**	0.002566
0.000036	**0.0015**	0.612148	**25.5**	0.051732	**2.2**	0.341501	**14.2**	0.009011
0.000040	**0.0017**	0.625653	**26.0**	0.052873	**2.2**	0.372180	**15.5**	0.009822
0.000019	**0.0008**	0.456096	**19.0**	0.038544	**1.6**	0.439205	**18.3**	0.011589
0.000071	**0.0029**	0.418755	**17.4**	0.035388	**1.5**	1.062385	**44.2**	0.028032
0.000029	**0.0012**	0.504036	**21.0**	0.042595	**1.8**	0.197484	**8.2**	0.005212
0.000018	**0.0008**	0.482091	**20.1**	0.040741	**1.7**	0.193051	**8.0**	0.005093
0.000020	**0.0008**	0.513931	**21.4**	0.043431	**1.8**	0.315963	**13.1**	0.008336
0.000047	**0.0020**	0.548455	**22.8**	0.046349	**1.9**	0.582408	**24.2**	0.015366
0.000031	**0.0013**	0.561294	**23.3**	0.047433	**2.0**	0.665881	**27.7**	0.017571
0.000068	**0.0028**	10.565750	**439.5**	0.892885	**37.1**	0.564558	**23.5**	0.014895
0.000024	**0.0010**	1.153036	**48.0**	0.097440	**4.1**	0.173329	**7.2**	0.004573
0.000045	**0.0019**	0.585933	**24.4**	0.049516	**2.1**	0.508412	**21.1**	0.013414
0.000021	**0.0009**	0.905609	**37.7**	0.076531	**3.2**	0.144379	**6.0**	0.003810
0.000016	**0.0007**	0.926290	**38.5**	0.078280	**3.3**	0.080552	**3.4**	0.002126
0.000016	**0.0007**	1.263408	**52.6**	0.106768	**4.4**	0.319138	**13.3**	0.008420
0.000024	**Inst. Malf**	0.469061	**Inst. Malf**	0.039639	**Inst. Malf**	1.264638	**Inst. Malf**	0.033370
	0.002		**69.119**		**5.841**		**18.469**	
	0.006		**439.507**		**37.142**		**50.502**	
0.000015	**FB**	0.422585	**FB**	0.035712	**FB**	0.000000	**FB**	0.000064

(µg/filter)	52211	52211	720
	52212	52212	685
	52213	52213	720
	52214	52214	720
	52215	52215	720
	52217	52217	720
	52218	52218	685
	52219	52219	685
	52220	52220	720
	52221	52221	685
	52222	52222	720
	52224	52224	685
	52225	52225	685
	52226	52226	685
	52227	52227	720
	52228	52228	685

52229	52229	685
52230	52230	685
52231	52231	720
52232	52232	720

Manganese (ng/m3) uncertainty	Cobalt (µg/filter)	**Cobalt (ng/m3)**	Cobalt (µg/filter) uncertainty	**Cobalt (ng/m3) uncertainty**	Nickel (µg/filter)	**Nickel (ng/m3)**	Nickel (µg/filter) uncertainty	**Nickel (ng/m3) uncertainty**
1.33	0.054318	**2.3**	0.002034	**0.0846**	0.408443	**17.0**	0.006443	**0.2680**
0.93	0.007399	**0.3**	0.000277	**0.0115**	0.082391	**3.4**	0.001300	**0.0541**
0.35	0.020704	**0.9**	0.000775	**0.0323**	0.200401	**8.3**	0.003162	**0.1315**
0.11	0.006547	**0.3**	0.000245	**0.0102**	0.055534	**2.3**	0.000876	**0.0365**
0.37	0.021369	**0.9**	0.000800	**0.0333**	0.193043	**8.0**	0.003045	**0.1267**
0.41	0.023136	**1.0**	0.000867	**0.0360**	0.192664	**8.0**	0.003039	**0.1264**
0.48	0.002557	**0.1**	0.000096	**0.0040**	0.033508	**1.4**	0.000529	**0.0220**
1.17	0.010155	**0.4**	0.000380	**0.0158**	0.084535	**3.5**	0.001334	**0.0555**
0.22	0.005426	**0.2**	0.000203	**0.0085**	0.070249	**2.9**	0.001108	**0.0461**
0.21	0.008747	**0.4**	0.000328	**0.0136**	0.177632	**7.4**	0.002802	**0.1166**
0.35	0.008065	**0.3**	0.000302	**0.0126**	0.069397	**2.9**	0.001095	**0.0455**
0.64	0.025995	**1.1**	0.000974	**0.0405**	0.163602	**6.8**	0.002581	**0.1074**
0.73	0.006332	**0.3**	0.000237	**0.0099**	0.103368	**4.3**	0.001631	**0.0678**
0.62	0.019358	**0.8**	0.000725	**0.0302**	0.170744	**7.1**	0.002694	**0.1120**
0.19	0.083590	**3.5**	0.003131	**0.1302**	0.046621	**1.9**	0.000736	**0.0306**
0.56	0.018330	**0.8**	0.000687	**0.0286**	0.220851	**9.2**	0.003484	**0.1449**
0.16	0.067175	**2.8**	0.002516	**0.1047**	0.110607	**4.6**	0.001745	**0.0726**
0.09	0.009627	**0.4**	0.000361	**0.0150**	0.034380	**1.4**	0.000543	**0.0226**
0.35	0.016366	**0.7**	0.000613	**0.0255**	0.119905	**5.0**	0.001892	**0.0787**
Inst. Malf	0.030611	**Inst. Malf**	0.001146	**Inst. Malf**	0.742832	**Inst. Malf**	0.011718	**Inst. Malf**
0.487		**0.909**		**0.034**		**5.556**		**0.088**
1.332		**3.477**		**0.130**		**16.990**		**0.268**
FB	0.000028	**FB**	0.000002	**FB**	0.000000	**FB**	0.000010	**FB**

Arsenic (µg/filter)	**Arsenic (ng/m3)**	Arsenic (µg/filter) uncertainty	**Arsenic (ng/m3) uncertainty**	Selenium (µg/filter)	**Selenium (ng/m3)**	Selenium (µg/filter) uncertainty	**Selenium (ng/m3) uncertainty**	Cadmium (µg/filter)
1.803122	**75.0**	0.090472	**3.7634**	0.234985	**9.8**	0.015588	**0.6484**	0.312144
0.072391	**3.0**	0.003632	**0.1511**	0.098170	**4.1**	0.008105	**0.3371**	0.053429
0.212310	**8.8**	0.010654	**0.4432**	1.097347	**45.6**	0.062759	**2.6106**	0.332168
0.487534	**20.3**	0.024464	**1.0176**	0.071354	**3.0**	0.006638	**0.2761**	4.698015
0.483273	**20.1**	0.024248	**1.0087**	0.317805	**13.2**	0.020119	**0.8369**	0.206074
0.514504	**21.4**	0.025816	**1.0739**	0.344154	**14.3**	0.021560	**0.8968**	0.220369
0.027602	**1.1**	0.001388	**0.0577**	0.000000	**0.0**	0.001901	**0.0791**	0.038373
0.027530	**1.1**	0.001384	**0.0576**	0.000000	**0.0**	0.001706	**0.0710**	0.064711
0.184350	**7.7**	0.009250	**0.3848**	0.018158	**0.8**	0.003728	**0.1551**	0.035416
0.162261	**6.7**	0.008142	**0.3387**	0.199185	**8.3**	0.013630	**0.5670**	0.106763
0.356410	**14.8**	0.017884	**0.7439**	0.294675	**12.3**	0.018853	**0.7843**	0.156271
2.430858	**101.1**	0.121969	**5.0736**	0.311687	**13.0**	0.019784	**0.8230**	0.279898
0.073123	**3.0**	0.003670	**0.1527**	0.000000	**0.0**	0.002483	**0.1033**	0.018624
0.085017	**3.5**	0.004267	**0.1775**	0.065133	**2.7**	0.006298	**0.2620**	0.026580
1.451589	**60.4**	0.072834	**3.0297**	6.517750	**271.1**	0.359250	**14.9439**	3.195142
0.383167	**15.9**	0.019227	**0.7998**	0.376118	**15.6**	0.023308	**0.9696**	0.258913
2.239859	**93.2**	0.112385	**4.6749**	5.287937	**220.0**	0.291981	**12.1456**	1.366799
2.337929	**97.3**	0.117307	**4.8796**	3.282050	**136.5**	0.182260	**7.5815**	1.001881
0.920397	**38.3**	0.046181	**1.9210**	0.995504	**41.4**	0.057188	**2.3789**	0.585271
0.008116	**Inst. Malf**	0.000408	**Inst. Malf**	0.000000	**Inst. Malf**	0.001874	**Inst. Malf**	0.001458
	31.205		**1.566**		**42.718**		**2.446**	
	101.117		**5.074**		**271.121**		**14.944**	
0.000000	**FB**	0.000094	**FB**	0.000000	**FB**	0.002348	**FB**	0.000859

Cadmium (ng/m3)	Cadmium (µg/filter) uncertainty	**Cadmium (ng/m3) uncertainty**	Lead (µg/filter)	**Lead (ng/m3)**	Lead (µg/filter) uncertainty	**Lead (ng/m3) uncertainty**
13.0	0.001663	**0.0692**	1.607603	**66.9**	0.017655	**0.7344**
2.2	0.000286	**0.0119**	0.140977	**5.9**	0.001548	**0.0644**
13.8	0.001770	**0.0736**	0.181630	**7.6**	0.001995	**0.0830**
195.4	0.025033	**1.0413**	0.130060	**5.4**	0.001428	**0.0594**
8.6	0.001100	**0.0457**	0.780619	**32.5**	0.008573	**0.3566**
9.2	0.001175	**0.0489**	0.826969	**34.4**	0.009082	**0.3778**
1.6	0.000205	**0.0085**	0.054054	**2.2**	0.000594	**0.0247**
2.7	0.000346	**0.0144**	0.150379	**6.3**	0.001651	**0.0687**
1.5	0.000189	**0.0079**	0.243870	**10.1**	0.002678	**0.1114**
4.4	0.000572	**0.0238**	0.181687	**7.6**	0.001995	**0.0830**
6.5	0.000835	**0.0347**	0.401609	**16.7**	0.004410	**0.1835**
11.6	0.001494	**0.0621**	1.458829	**60.7**	0.016021	**0.6664**
0.8	0.000100	**0.0042**	0.123936	**5.2**	0.001361	**0.0566**
1.1	0.000143	**0.0059**	0.195872	**8.1**	0.002151	**0.0895**
132.9	0.017021	**0.7080**	1.617265	**67.3**	0.017760	**0.7388**
10.8	0.001381	**0.0574**	0.245589	**10.2**	0.002697	**0.1122**
56.9	0.007283	**0.3029**	5.969062	**248.3**	0.065551	**2.7267**
41.7	0.005338	**0.2221**	2.990152	**124.4**	0.032837	**1.3659**
24.3	0.003120	**0.1298**	2.105037	**87.6**	0.023117	**0.9616**
Inst. Malf	0.000012	**Inst. Malf**	0.000000	**Inst. Malf**	0.000053	**Inst. Malf**
28.367		**0.151**		**42.484**		**0.467**
195.425		**1.041**		**248.297**		**2.727**
FB	0.000005	**FB**	0.000000	**FB**	0.000059	**FB**

Sample Number	Equipment S/N	Set up Date	& Time	Sample Date	& Time	Total Run Time	Flow Rate (lpm)	Volume ($M^{3)}$	Retrieval Date	& Time	Sample Type	Valid/ Void	Operator Initials
52211	720	11-Oct-2015	18:28	12-Oct-2015	0:01	1440	16.7	24.04	13-Oct-2015	10:22	Both	valid	JB/MK
52212	685	11-Oct-2015	18:22	12-Oct-2015	0:01	1440	16.7	24.04	13-Oct-2015	10:17	P2	valid	JB/MK
52213	720	31-Oct-2015	16:43	2-Nov-2015	0:01	1440	16.7	24.04	3-Nov-2015	13:23	Both	valid	JB/MK
52214	720	25-Jan-1900	11:26	27-Oct-2015	0:01	1440	16.7	24.04	28-Oct-2015	18:03	P2	valid	JB/MK
52215	720	19-Oct-2015	16:55	21-Oct-2015	0:01	1440	16.7	24.04	22-Oct-2015	11:23	P2	valid	JB/MK
52216	685	16-Oct-2015		NA	NA	NA	NA	NA	16-Oct-2015		P1	valid	JB/MK/CBM
52217	720	16-Oct-2015	14:41	18-Oct-2015	0:01	1440	16.7	24.04	19-Oct-2015	16:53	P2	valid	JB/MK
52218	685	25-Oct-2015	11:23	26-Oct-2015	0:01	1440	16.7	24.04	28-Oct-2015	17:58	P1	valid	JB/MK
52219	685	28-Oct-2015	18:01	29-Oct-2015	0:01	1440	16.7	24.04	31-Oct-2015	16:35	P1	valid	JB/MK
52220	720	5-Oct-2015	14:18	7-Oct-2015	0:01	1440	16.7	24.04	8-Oct-2015	12:35	P2	valid	JB/MK
52221	685	8-Oct-2015	12:37	9-Oct-2015	0:01	1440	16.7	24.04	11-Oct-2015	18:19	P1	valid	JB/MK
52222	720	22-Oct-2015	11:28	24-Oct-2015	0:01	1440	16.7	24.04	25-Oct-2015	11:25	P2	valid	JB/MK
52224	685	16-Oct-2015	14:39	17-Oct-2015	0:01	1440	16.7	24.04	19-Oct-2015	16:49	P1	valid	JB/MK/CBM
52225	685	31-Oct-2015	16:38	2-Nov-2015	0:01	------	16.7	Max Load	2-Nov-2015	13:20	Both	void	JB/MK
52226	685	5-Oct-2015	14:15	6-Oct-2015	0:01	1440	16.7	24.04	8-Oct-2015	12:31	P1	valid	JB/MK
52227	720	28-Oct-2015	18:05	30-Oct-2015	0:01	1440	16.7	24.04	31-Oct-2015	16:41	P2	valid	JB/MK
52228	685	19-Oct-2015	16:51	20-Oct-2015	0:01	1440	16.7	24.04	22-Oct-2015	11:21	P1	valid	JB/MK
52229	685	22-Oct-2015	11:24	23-Oct-2015	0:01	1440	16.7	24.04	25-Oct-2015	11:20	P1	valid	JB/MK
52230	685	13-Oct-2015	10:19	14-Oct-2015	0:01	1440	16.7	24.04	16-Oct-2015	14:13	P1	valid	JB/MK
52231	720	8-Oct-2015	12:47	10-Oct-2015	0:01	1440	16.7	24.04	11-Oct-2015	18:25	P2	valid	JB/MK
52232	720	13-Oct-2015	10:24	15-Oct-2015	0:01	1440	16.7	24.04	16-Oct-2015	14:35	P2	valid	JB/MK

24.048

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TID	ELPF	BEPC	BEPU
		ug/filter Ug/m3	
F52211		0.000360	0.000036
F52212		0.000407	0.000040
F52213		0.000162	0.000016
F52214		0.000457	0.000045
F52215		0.000479	0.000047
F52216		0.000149	0.000015
F52217		0.000186	0.000018
F52218		0.000239	0.000024
F52219		0.000215	0.000021
F52220		0.000295	0.000029
F52221		0.000434	0.000043
F52222		0.000694	0.000068
F52224		0.000290	0.000029
F52225		0.000247	0.000024
F52226		0.001490	0.000147
F52227		0.000163	0.000016
F52228		0.000204	0.000020
F52229		0.000310	0.000031
F52230		0.000197	0.000019
F52231		0.000176	0.000017
F52232		0.000718	0.000071

micrograms per filter

TID	Teflon filter ID
ELPF	ICP Analysis flag
BEPC	Beryllium Filter mass (µg/filter)
BEPU	Beryllium Filter mass (µg/filter) uncertainty
CRPC	Chromium Filter mass (µg/filter)
CRPU	Chromium Filter mass (µg/filter) uncertainty
MNPC	Manganese Filter mass (µg/filter)
MNPU	Manganese Filter mass (µg/filter) uncertainty
COPC	Cobalt Filter mass (µg/filter)
COPU	Cobalt Filter mass (µg/filter) uncertainty
NIPC	Nickel Filter mass (µg/filter)
NIPU	Nickel Filter mass (µg/filter) uncertainty
ASPC	Arsenic Filter mass (µg/filter)
ASPU	Arsenic Filter mass (µg/filter) uncertainty
SEPC	Selenium Filter mass (µg/filter)
SEPU	Selenium Filter mass (µg/filter) uncertainty
CDPC	Cadmium Filter mass (µg/filter)
CDPU	Cadmium Filter mass (µg/filter) uncertainty
PBPC	Lead Filter mass (µg/filter)
PBPU	Lead Filter mass (µg/filter) uncertainty
COMMENT	

CRPC	CRPU	MNPC	MNPU	COPC	COPU
0.612148	0.051732	0.341501	0.009011	0.021369	0.000800
0.625653	0.052873	0.372180	0.009822	0.023136	0.000867
1.263408	0.106768	0.319138	0.008420	0.016366	0.000613
0.585933	0.049516	0.508412	0.013414	0.018330	0.000687
0.548455	0.046349	0.582408	0.015366	0.025995	0.000974
0.422585	0.035712	0.000000	0.000064	0.000028	0.000002
0.482091	0.040741	0.193051	0.005093	0.008747	0.000328
1.153036	0.097440	0.173329	0.004573	0.083590	0.003131
0.905609	0.076531	0.144379	0.003810	0.067175	0.002516
0.485409	0.041021	0.848040	0.022373	0.007399	0.000277
0.587165	0.049620	0.316061	0.008341	0.020704	0.000775
10.565750	0.892885	0.564558	0.014895	0.019358	0.000725
0.504036	0.042595	0.197484	0.005212	0.005426	0.000203
0.469061	0.039639	1.264638	0.033370	0.030611	0.001146
9.777139	0.826240	1.214065	0.032031	0.054318	0.002034
0.926290	0.078280	0.080552	0.002126	0.009627	0.000361
0.513931	0.043431	0.315963	0.008336	0.008065	0.000302
0.561294	0.047433	0.665881	0.017571	0.006332	0.000237
0.456096	0.038544	0.439205	0.011589	0.002557	0.000096
0.598764	0.050602	0.097215	0.002566	0.006547	0.000245
0.418755	0.035388	1.062385	0.028032	0.010155	0.000380

NIPC	NIPU	ASPC	ASPU	SEPC
0.193043	0.003045	0.483273	0.024248	0.317805
0.192664	0.003039	0.514504	0.025816	0.344154
0.119905	0.001892	0.920397	0.046181	0.995504
0.220851	0.003484	0.383167	0.019227	0.376118
0.163602	0.002581	2.430858	0.121969	0.311687
0.000000	0.000010	0.000000	0.000094	0.000000
0.177632	0.002802	0.162261	0.008142	0.199185
0.046621	0.000736	1.451589	0.072834	6.517750
0.110607	0.001745	2.239859	0.112385	5.287937
0.082391	0.001300	0.072391	0.003632	0.098170
0.200401	0.003162	0.212310	0.010654	1.097347
0.170744	0.002694	0.085017	0.004267	0.065133
0.070249	0.001108	0.184350	0.009250	0.018158
0.742832	0.011718	0.008116	0.000408	0.000000
0.408443	0.006443	1.803122	0.090472	0.234985
0.034380	0.000543	2.337929	0.117307	3.282050
0.069397	0.001095	0.356410	0.017884	0.294675
0.103368	0.001631	0.073123	0.003670	0.000000
0.033508	0.000529	0.027602	0.001388	0.000000
0.055534	0.000876	0.487534	0.024464	0.071354
0.084535	0.001334	0.027530	0.001384	0.000000

SEPU	CDPC	CDPU	PBPC	PBPU	COMMENT
0.020119	0.206074	0.001100	0.780619	0.008573	
0.021560	0.220369	0.001175	0.826969	0.009082	
0.057188	0.585271	0.003120	2.105037	0.023117	
0.023308	0.258913	0.001381	0.245589	0.002697	
0.019784	0.279898	0.001494	1.458829	0.016021	
0.002348	0.000859	0.000005	0.000000	0.000059	
0.013630	0.106763	0.000572	0.181687	0.001995	
0.359250	3.195142	0.017021	1.617265	0.017760	
0.291981	1.366799	0.007283	5.969062	0.065551	
0.008105	0.053429	0.000286	0.140977	0.001548	
0.062759	0.332168	0.001770	0.181630	0.001995	
0.006298	0.026580	0.000143	0.195872	0.002151	
0.003728	0.035416	0.000189	0.243870	0.002678	
0.001874	0.001458	0.000012	0.000000	0.000053	
0.015588	0.312144	0.001663	1.607603	0.017655	
0.182260	1.001881	0.005338	2.990152	0.032837	
0.018853	0.156271	0.000835	0.401609	0.004410	
0.002483	0.018624	0.000100	0.123936	0.001361	
0.001901	0.038373	0.000205	0.054054	0.000594	
0.006638	4.698015	0.025033	0.130060	0.001428	
0.001706	0.064711	0.000346	0.150379	0.001651	

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From: Leefers, Kristin
Sent: Fri 2/5/2016 10:21:28 PM
Subject: RE: Bullseye Glass draft desk statement and draft responses to Congressman Blumenauer

Ex. 5 - Attorney Client

Thanks Judy for your work on this. Please send out the updated draft when you have a chance for the groups final review.

Kris

Kris Leefers

206-553-1532

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Cc: Franklin, Richard <Franklin.Richard@epa.gov>; Koprowski, Paul <Koprowski.Paul@epa.gov>; Downey, Scott <Downey.Scott@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; Wroble, Julie <Wroble.Julie@epa.gov>; Holsman, Marianne <Holsman.Marianne@epa.gov>; Schuster, Cindy <Schuster.Cindy@epa.gov>; Philip, Jeff <Philip.Jeff@epa.gov>; Skadowski, Suzanne <Skadowski.Suzanne@epa.gov>; MacIntyre, Mark <Macintyre.Mark@epa.gov>; Leefers, Kristin <Leefers.Kristin@epa.gov>
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Please review this draft EPA desk statement regarding the metal emissions issue in SE Portland and let me know of any changes that are needed. Thanks, Judy

Desk Statement: SE Portland - Metals Contamination from Bullseye Glass

Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process

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Judy Smith, EPA

Public Affairs Specialist

503-326-6994 desk

503-545-2540 cell

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<image001.png> <image002.png> <image003.png> <image004.png> <image005.png><image006.png>

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Desk Statement: SE Portland - Metals Contamination from Bullseye Glass

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Judy Smith, EPA

Public Affairs Specialist

503-326-6994 desk

503-545-2540 cell
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Desk Statement: SE Portland - Metals Contamination from Bullseye Glass

Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process

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Judy Smith, EPA

Public Affairs Specialist

503-326-6994 desk

503-545-2540 cell

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To: McClintock, Katie[McClintock.Katie@epa.gov]; Smith, Judy[Smith.Judy@epa.gov]; Koprowski, Paul[Koprowski.Paul@epa.gov]; Downey, Scott[Downey.Scott@epa.gov]; Narvaez, Madonna[Narvaez.Madonna@epa.gov]; Wroble, Julie[Wroble.Julie@epa.gov]
Cc: Holsman, Marianne[Holsman.Marianne@epa.gov]; Schuster, Cindy[Schuster.Cindy@epa.gov]; Philip, Jeff[Philip.Jeff@epa.gov]; Skadowski, Suzanne[Skadowski.Suzanne@epa.gov]; MacIntyre, Mark[Macintyre.Mark@epa.gov]; Leefers, Kristin[Leefers.Kristin@epa.gov]
From: Franklin, Richard
Sent: Fri 2/5/2016 8:43:14 PM
Subject: RE: Bullseye Glass draft desk statement and draft responses to Congressman Blumenauer

Ex. 5 - Deliberative Process

From: McClintock, Katie
Sent: Friday, February 05, 2016 12:36 PM
To: Franklin, Richard <Franklin.Richard@epa.gov>; Smith, Judy <Smith.Judy@epa.gov>; Koprowski, Paul <Koprowski.Paul@epa.gov>; Downey, Scott <Downey.Scott@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; Wroble, Julie <Wroble.Julie@epa.gov>
Cc: Holsman, Marianne <Holsman.Marianne@epa.gov>; Schuster, Cindy <Schuster.Cindy@epa.gov>; Philip, Jeff <Philip.Jeff@epa.gov>; Skadowski, Suzanne <Skadowski.Suzanne@epa.gov>; MacIntyre, Mark <Macintyre.Mark@epa.gov>; Leefers, Kristin <Leefers.Kristin@epa.gov>
Subject: RE: Bullseye Glass draft desk statement and draft responses to Congressman Blumenauer

Ex. 5 - Deliberative Process

From: Franklin, Richard
Sent: Friday, February 05, 2016 12:32 PM
To: Smith, Judy <Smith.Judy@epa.gov>; Koprowski, Paul <Koprowski.Paul@epa.gov>; Downey, Scott <Downey.Scott@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Wroble, Julie <Wroble.Julie@epa.gov>
Cc: Holsman, Marianne <Holsman.Marianne@epa.gov>; Schuster, Cindy

<Schuster.Cindy@epa.gov>; Philip, Jeff <Philip.Jeff@epa.gov>; Skadowski, Suzanne <Skadowski.Suzanne@epa.gov>; MacIntyre, Mark <Macintyre.Mark@epa.gov>
Subject: RE: Bullseye Glass draft desk statement and draft responses to Congressman Blumenauer

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Thanks Judy.

From: Smith, Judy
Sent: Friday, February 05, 2016 11:41 AM
To: Koprowski, Paul <Koprowski.Paul@epa.gov>; Downey, Scott <Downey.Scott@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Franklin, Richard <Franklin.Richard@epa.gov>; Wroble, Julie <Wroble.Julie@epa.gov>
Cc: Holsman, Marianne <Holsman.Marianne@epa.gov>; Schuster, Cindy <Schuster.Cindy@epa.gov>; Philip, Jeff <Philip.Jeff@epa.gov>; Skadowski, Suzanne <Skadowski.Suzanne@epa.gov>; MacIntyre, Mark <Macintyre.Mark@epa.gov>
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Judy Smith, EPA

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To: Franklin, Richard[Franklin.Richard@epa.gov]; Smith, Judy[Smith.Judy@epa.gov]; Koprowski, Paul[Koprowski.Paul@epa.gov]; Downey, Scott[Downey.Scott@epa.gov]; Narvaez, Madonna[Narvaez.Madonna@epa.gov]; Wroble, Julie[Wroble.Julie@epa.gov]
Cc: Holsman, Marianne[Holsman.Marianne@epa.gov]; Schuster, Cindy[Schuster.Cindy@epa.gov]; Philip, Jeff[Philip.Jeff@epa.gov]; Skadowski, Suzanne[Skadowski.Suzanne@epa.gov]; MacIntyre, Mark[Macintyre.Mark@epa.gov]; Leefers, Kristin[Leefers.Kristin@epa.gov]
From: McClintock, Katie
Sent: Fri 2/5/2016 8:35:39 PM
Subject: RE: Bullseye Glass draft desk statement and draft responses to Congressman Blumenauer

Ex. 5 - Deliberative Process

From: Franklin, Richard
Sent: Friday, February 05, 2016 12:32 PM
To: Smith, Judy <Smith.Judy@epa.gov>; Koprowski, Paul <Koprowski.Paul@epa.gov>; Downey, Scott <Downey.Scott@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Wroble, Julie <Wroble.Julie@epa.gov>
Cc: Holsman, Marianne <Holsman.Marianne@epa.gov>; Schuster, Cindy <Schuster.Cindy@epa.gov>; Philip, Jeff <Philip.Jeff@epa.gov>; Skadowski, Suzanne <Skadowski.Suzanne@epa.gov>; MacIntyre, Mark <Macintyre.Mark@epa.gov>
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Cc: Holsman, Marianne <Holsman.Marianne@epa.gov>; Schuster, Cindy

<Schuster.Cindy@epa.gov>; Philip, Jeff <Philip.Jeff@epa.gov>; Skadowski, Suzanne <Skadowski.Suzanne@epa.gov>; MacIntyre, Mark <Macintyre.Mark@epa.gov>
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Judy Smith, EPA

Public Affairs Specialist

503-326-6994 desk

503-545-2540 cell

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To: Smith, Judy[Smith.Judy@epa.gov]; Koprowski, Paul[Koprowski.Paul@epa.gov]; Downey, Scott[Downey.Scott@epa.gov]; Narvaez, Madonna[Narvaez.Madonna@epa.gov]; McClintock, Katie[McClintock.Katie@epa.gov]; Wroble, Julie[Wroble.Julie@epa.gov]
Cc: Holsman, Marianne[Holsman.Marianne@epa.gov]; Schuster, Cindy[Schuster.Cindy@epa.gov]; Philip, Jeff[Philip.Jeff@epa.gov]; Skadowski, Suzanne[Skadowski.Suzanne@epa.gov]; MacIntyre, Mark[Macintyre.Mark@epa.gov]
From: Franklin, Richard
Sent: Fri 2/5/2016 8:31:42 PM
Subject: RE: Bullseye Glass draft desk statement and draft responses to Congressman Blumenauer

Ex. 5 - Deliberative Process

Thanks Judy.

From: Smith, Judy
Sent: Friday, February 05, 2016 11:41 AM
To: Koprowski, Paul <Koprowski.Paul@epa.gov>; Downey, Scott <Downey.Scott@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Franklin, Richard <Franklin.Richard@epa.gov>; Wroble, Julie <Wroble.Julie@epa.gov>
Cc: Holsman, Marianne <Holsman.Marianne@epa.gov>; Schuster, Cindy <Schuster.Cindy@epa.gov>; Philip, Jeff <Philip.Jeff@epa.gov>; Skadowski, Suzanne <Skadowski.Suzanne@epa.gov>; MacIntyre, Mark <Macintyre.Mark@epa.gov>
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503-326-6994 desk

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To: Smith, Judy[Smith.Judy@epa.gov]; Koprowski, Paul[Koprowski.Paul@epa.gov]; Downey, Scott[Downey.Scott@epa.gov]; Narvaez, Madonna[Narvaez.Madonna@epa.gov]; McClintock, Katie[McClintock.Katie@epa.gov]; Wroble, Julie[Wroble.Julie@epa.gov]
Cc: Holsman, Marianne[Holsman.Marianne@epa.gov]; Schuster, Cindy[Schuster.Cindy@epa.gov]; Philip, Jeff[Philip.Jeff@epa.gov]; Skadowski, Suzanne[Skadowski.Suzanne@epa.gov]; MacIntyre, Mark[Macintyre.Mark@epa.gov]
From: Franklin, Richard
Sent: Fri 2/5/2016 7:56:24 PM
Subject: RE: Bullseye Glass draft desk statement and draft responses to Congressman Blumenauer

Judy – I'm not sure if or how you want to handle this, but we have already briefed up the chain to make EPA Superfund management is aware of the issue. So perhaps its already addressed in the royal "we" as in EPA. But I guess my point is that several EPA R10 offices have been informed……

From: Smith, Judy
Sent: Friday, February 05, 2016 11:41 AM
To: Koprowski, Paul <Koprowski.Paul@epa.gov>; Downey, Scott <Downey.Scott@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Franklin, Richard <Franklin.Richard@epa.gov>; Wroble, Julie <Wroble.Julie@epa.gov>
Cc: Holsman, Marianne <Holsman.Marianne@epa.gov>; Schuster, Cindy <Schuster.Cindy@epa.gov>; Philip, Jeff <Philip.Jeff@epa.gov>; Skadowski, Suzanne <Skadowski.Suzanne@epa.gov>; MacIntyre, Mark <Macintyre.Mark@epa.gov>
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Judy Smith, EPA

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Judy Smith, EPA
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Public Affairs Specialist

503-326-6994 desk

503-545-2540 cell

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To: Smith, Judy[Smith.Judy@epa.gov]; Koprowski, Paul[Koprowski.Paul@epa.gov]; Downey, Scott[Downey.Scott@epa.gov]; Narvaez, Madonna[Narvaez.Madonna@epa.gov]; McClintock, Katie[McClintock.Katie@epa.gov]; Franklin, Richard[Franklin.Richard@epa.gov]
Cc: Holsman, Marianne[Holsman.Marianne@epa.gov]; Schuster, Cindy[Schuster.Cindy@epa.gov]; Philip, Jeff[Philip.Jeff@epa.gov]; Skadowski, Suzanne[Skadowski.Suzanne@epa.gov]; MacIntyre, Mark[Macintyre.Mark@epa.gov]; Stifelman, Marc[Stifelman.Marc@epa.gov]
From: Wroble, Julie
Sent: Fri 2/5/2016 7:54:11 PM
Subject: RE: Bullseye Glass draft desk statement and draft responses to Congressman Blumenauer

I'm looping Marc Stifelman in on this as he's a metals/tox expert.

I've added some comments in below.

From: Smith, Judy
Sent: Friday, February 05, 2016 11:41 AM
To: Koprowski, Paul <Koprowski.Paul@epa.gov>; Downey, Scott <Downey.Scott@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Franklin, Richard <Franklin.Richard@epa.gov>; Wroble, Julie <Wroble.Julie@epa.gov>
Cc: Holsman, Marianne <Holsman.Marianne@epa.gov>; Schuster, Cindy <Schuster.Cindy@epa.gov>; Philip, Jeff <Philip.Jeff@epa.gov>; Skadowski, Suzanne <Skadowski.Suzanne@epa.gov>; MacIntyre, Mark <Macintyre.Mark@epa.gov>
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Judy Smith, EPA
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Public Affairs Specialist

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To: Smith, Judy[Smith.Judy@epa.gov]
Cc: Koprowski, Paul[Koprowski.Paul@epa.gov]; Downey, Scott[Downey.Scott@epa.gov]; Narvaez, Madonna[Narvaez.Madonna@epa.gov]; Franklin, Richard[Franklin.Richard@epa.gov]; Wroble, Julie[Wroble.Julie@epa.gov]; Holsman, Marianne[Holsman.Marianne@epa.gov]; Schuster, Cindy[Schuster.Cindy@epa.gov]; Philip, Jeff[Philip.Jeff@epa.gov]; Skadowski, Suzanne[Skadowski.Suzanne@epa.gov]; MacIntyre, Mark[Macintyre.Mark@epa.gov]
From: McClintock, Katie
Sent: Fri 2/5/2016 7:53:57 PM
Subject: RE: Bullseye Glass draft desk statement and draft responses to Congressman Blumenauer

I made a few edits below, in addition -

Ex. 5 - Deliberative Process

Thanks for working on this.

Katie

From: Smith, Judy
Sent: Friday, February 05, 2016 11:41 AM
To: Koprowski, Paul <Koprowski.Paul@epa.gov>; Downey, Scott <Downey.Scott@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Franklin, Richard <Franklin.Richard@epa.gov>; Wroble, Julie <Wroble.Julie@epa.gov>
Cc: Holsman, Marianne <Holsman.Marianne@epa.gov>; Schuster, Cindy <Schuster.Cindy@epa.gov>; Philip, Jeff <Philip.Jeff@epa.gov>; Skadowski, Suzanne <Skadowski.Suzanne@epa.gov>; MacIntyre, Mark <Macintyre.Mark@epa.gov>
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Judy Smith, EPA

Public Affairs Specialist

503-326-6994 desk

503-545-2540 cell

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To: Koprowski, Paul[Koprowski.Paul@epa.gov]; Downey, Scott[Downey.Scott@epa.gov]; Narvaez, Madonna[Narvaez.Madonna@epa.gov]; McClintock, Katie[McClintock.Katie@epa.gov]; Franklin, Richard[Franklin.Richard@epa.gov]; Wroble, Julie[Wroble.Julie@epa.gov]
Cc: Holsman, Marianne[Holsman.Marianne@epa.gov]; Schuster, Cindy[Schuster.Cindy@epa.gov]; Philip, Jeff[Philip.Jeff@epa.gov]; Skadowski, Suzanne[Skadowski.Suzanne@epa.gov]; MacIntyre, Mark[Macintyre.Mark@epa.gov]
From: Smith, Judy
Sent: Fri 2/5/2016 7:40:52 PM
Subject: Bullseye Glass draft desk statement and draft responses to Congressman Blumenauer

Please review this draft EPA desk statement regarding the metal emissions issue in SE Portland and let me know of any changes that are needed. Thanks, Judy

Desk Statement: SE Portland - Metals Contamination from Bullseye Glass

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Judy Smith, EPA

Public Affairs Specialist

503-326-6994 desk

503-545-2540 cell

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To: Downey, Scott[Downey.Scott@epa.gov]
From: McClintock, Katie
Sent: Fri 2/5/2016 12:34:04 AM
Subject: RE: Heads up on emerging issue in PDX. fyi

Thanks!

From: Downey, Scott
Sent: Thursday, February 04, 2016 4:03 PM
To: McClintock, Katie <McClintock.Katie@epa.gov>
Subject: FW: Heads up on emerging issue in PDX. fyi
Importance: High

I'll continue to forward any messages on this topic that you're not getting.

~~~~~~~~~~~~~~~~~~~~~~~~

Scott Downey, Manager

Air and RCRA Compliance Unit

EPA Region 10, OCE-101

1200 6th Ave, Suite 900

Seattle, WA 98101, (206) 553-0682

From: Narvaez, Madonna
Sent: Thursday, February 04, 2016 12:44 PM
To: Hastings, Janis <Hastings.Janis@epa.gov>; Bray, Dave <Bray.Dave@epa.gov>; Dossett, Donald <Dossett.Donald@epa.gov>; Downey, Scott <Downey.Scott@epa.gov>
Cc: Koprowski, Paul <Koprowski.Paul@epa.gov>
Subject: FW: Heads up on emerging issue in PDX. fyi
Importance: High

I'm going to be talking to Susan tomorrow. I have been getting my emails to ODEQ returned. Are they having trouble with their server?
~~~~~~~~~~~~~~~~~~~~~~~~

From: Fairchild, Susan
Sent: Thursday, February 04, 2016 12:11 PM
To: Narvaez, Madonna <Narvaez.Madonna@epa.gov>
Subject: RE: Heads up on emerging issue in PDX.

1-Does bullseye operate a Continuous furnace? If yes, does it

2-Produce at least 50 TPY of glass containing any of the following:

Arsenic, cadmium, chromium, lead, manganese, nickel? If yes, it is subject to SSSSSS (6S)

3- Is it an area source (i.e., emitting less than major amounts) of HAP? - *btw, this is one place where the article steered the reader wrong. It appeared from reading that article, that glass manufacturing was only subject to a MACT standard, which is INCORRECT. Glass manufacturing was issued as an Area Source Rule.*

I've attached the final rule with highlights.

Also,

Lead in glass is regulated under Part 60 Subpart CC

Arsenic in glass is regulated under Part 63, subpart N.

Susan Fairchild

Senior Environmental Scientist

(919) 541-5167

USPS Address:

OAQPS/SPPD/MMG

Mail Code D 243-04

Research Triangle Park, NC 27711

From: Narvaez, Madonna
Sent: Thursday, February 04, 2016 2:14 PM
To: Fairchild, Susan <Fairchild.Susan@epa.gov>
Subject: FW: Heads up on emerging issue in PDX.
Importance: High

Hi, Susan. When ODEQ conducted the monitoring for the School Air Toxics Initiative, cadmium showed up. They were able to do additional monitoring to try to determine the source of the cadmium emissions. At the time, it looked as if the glass company might have been the source, but the additional monitoring was not conclusive. Recently, the FS had developed a monitoring method using moss, and those results are just coming out. I saw that Bullseye was on the original list of potential sources when the area source rule was being developed.

Ex. 5 - Deliberative Process

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This is the article that was published in the Portland Mercury: http://blogtown.portlandmercury.com/BlogtownPDX/archives/2016/02/03/arsenic-cadmium-levels-near-two-se-portland-schools-are-alarmingly-high-state-finds

This is the discharge permit I have been able to find: http://www.deq.state.or.us/nwr/permits/26-3135-P-041511-AQ.pdf

Are you in tomorrow? Would you have some time to talk about this? Thanks!

From: Hastings, Janis
Sent: Thursday, February 04, 2016 10:56 AM
To: Dossett, Donald <Dossett.Donald@epa.gov>
Cc: Bray, Dave <Bray.Dave@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>
Subject: Fw: Heads up on emerging issue in PDX.

Don, could you or Madonna give your OAR contacts a heads up by forwarding to them the news articles. Let them know that the Region is working this issue, which has just come to our attention this week. We are in the process of looking at what actions make sense, and we will keep HQ-OAR informed.

Scott Downey is working through Paul Koprowski to find out if the state or EPA emergency response might be taking any immediate action.

Please copy Dave and me.

Thanks!

Jan

From: Holsman, Marianne
Sent: Thursday, February 4, 2016 10:46 AM
To: McLerran, Dennis; Pirzadeh, Michelle; Dunbar, Bill
Cc: Hastings, Janis; Smith, Judy; Downey, Scott
Subject: Heads up on emerging issue in PDX.

OCE and AWT are working on a hot issues write up on this and we are going to draft a reactive desk statement for press calls. I understand we are talking with ODEQ today on this matter. Stand by for more information. There are several other clips on this as a result of a DEQ news release of yesterday (attached).

http://www.portlandmercury.com/BlogtownPDX/archives/2016/02/03/arsenic-cadmium-levels-near-two-se-portland-schools-are-alarmingly-high-state-finds

	State Finds Alarmingly High Arsenic, Cadmium Levels Near Two SE Portland Schools

www.portlandmercury.com

GoogleA portion of the Bullseye Glass facility in SE Portland Within days, state officials are slated to release the alarming results of a monitoring program...

State Finds Alarmingly High Arsenic, Cadmium Levels Near Two SE Portland Schools

Posted by Daniel Forbes on Wed, Feb 3, 2016 at 2:06 PM

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Ex. 4 - copyright

Ex. 4 - copyright

Ex. 4 - copyright

Ex. 4 - copyright

Daniel Forbes is the author of **Derail this Train Wreck**. *He lives in Portland, and can be reached at ddanforbes@aol.com.*

Marianne Holsman

Public Affairs Director

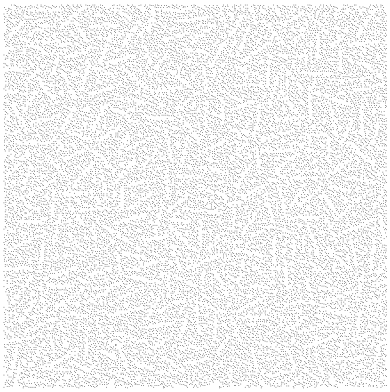
EPA Region 10

Desk: 206-553-1237

Cell: 206-450-5895

Follow us!

To: Leefers, Kristin[Leefers.Kristin@epa.gov]
From: McClintock, Katie
Sent: Thur 2/11/2016 9:48:53 PM
Subject: RE: Bullseye glass Portland OR CBI information



Thanks for looking into it!

From: Leefers, Kristin
Sent: Thursday, February 11, 2016 11:11 AM
To: McClintock, Katie <McClintock.Katie@epa.gov>
Cc: McFadden, Kelly <McFadden.Kelly@epa.gov>; Downey, Scott <Downey.Scott@epa.gov>; Matthews, Julie <Matthews.Juliane@epa.gov>
Subject: RE: Bullseye glass Portland OR CBI information

Hi Katie-

I spoke with Bob, and neither of us know the answer as to who is the CBI Officer in R10 for CAA. Apparently each Region operates a little differently, and it sounds like HQ will not release anything unless it is to the CAA CBI Officer. We may not have one in R10. I'm cc-ing Scott and Kelly to see if they is aware of who the CBI Officer is, or if there is possibly someone in a non-air enforcement unit who is a CBI Officer.

I'm also cc-ing Julie Matthews so she is aware of the issue when she gets back into the office on Monday.

Kris

Kris Leefers

206-553-1532

From: McClintock, Katie
Sent: Thursday, February 11, 2016 7:34 AM
To: Leefers, Kristin <Leefers.Kristin@epa.gov>
Subject: FW: Bullseye glass Portland OR CBI information

Can you help them figure this out so we can get the data?

From: Purifoy, Tiffany
Sent: Thursday, February 11, 2016 6:44 AM
To: Whitmire, Yvette <whitmire.yvette@epa.gov>
Cc: Barnett, Keith <Barnett.Keith@epa.gov>; Fairchild, Susan <Fairchild.Susan@epa.gov>; Chambers, Katrina <Chambers.Katrina@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>
Subject: RE: Bullseye glass Portland OR CBI information

Hello Yvette,

I am the Document Control Officer for the Office of Air Quality Planning and Standards and we are currently trying to locate a point of contact in Region 10, who is authorized to receive Clean Air Act Confidential Business Information. I see that you are the Records Management POC for Region 10. Are you cleared to access CBI? If not, can you point us in the direction of the appropriate Region 10 POC for this request?

Thanks,

Tiffany Purifoy

Government Information Specialist

Office of Air Quality Planning & Standards

Environmental Protection Agency

919-541-0878

From: Fairchild, Susan
Sent: Thursday, February 11, 2016 9:12 AM
To: Purifoy, Tiffany <Purifoy.Tiffany@epa.gov>; Chambers, Katrina <Chambers.Katrina@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>
Cc: Barnett, Keith <Barnett.Keith@epa.gov>
Subject: FW: Bullseye glass Portland OR CBI information

Katie, Tiffany and Katrina,

Could you all get a chance to connect today or tomorrow and figure out who in Region 10 is authorized to receive CBI under the Clean Air Act?

I am not authorized to transmit this information. It has to go from a CBI officer to another CBI officer. I am sure that there is one in Region 10's office.

Susan Fairchild

Senior Environmental Scientist

(919) 541-5167

USPS Address:

OAQPS/SPPD/MMG

Mail Code D 243-04

Research Triangle Park, NC 27711

From: McClintock, Katie
Sent: Thursday, February 11, 2016 1:12 AM
To: Narvaez, Madonna <Narvaez.Madonna@epa.gov>; Fairchild, Susan <Fairchild.Susan@epa.gov>; Hartman, Bob <Hartman.Bob@epa.gov>; Chambers, Katrina <Chambers.Katrina@epa.gov>
Subject: RE: Bullseye glass Portland OR CBI information

Nope. I have never heard of it and I handle cbi often. Not to be grouchy (and I've worked over 12 hours today so that is a given), but this seems like we are making this harder than it needs to be. I went to the source and asked for a bunch of stuff today so it would be useful to be able to compare it with the older info they sent.

From: Narvaez, Madonna
Sent: Wednesday, February 10, 2016 11:43 AM
To: Fairchild, Susan <Fairchild.Susan@epa.gov>; Hartman, Bob <Hartman.Bob@epa.gov>; Chambers, Katrina <Chambers.Katrina@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>
Subject: RE: Bullseye glass Portland OR CBI information
Importance: High

I just found out that R10 doesn't have a CBI officer per se. It is up to the programs to get the training and certification. Katie, since you probably need the information more, do you have the CBI training and certification?

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To: Hartman, Bob <Hartman.Bob@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>; Chambers, Katrina <Chambers.Katrina@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>
Subject: RE: Bullseye glass Portland OR CBI information

Hi Bob,

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This facility is not subject to the area source NESHAP for glass manufacturing.

I was the project lead on that rulemaking (2003-2007), and received comments and CBI from Bullseye glass. That information is now of interest to the folks conducting the investigation.

I would like for my CBI officer (Katrina Chambers) to transfer the CBI information to your Region's CBI officer for the use and information of the persons conducting the investigation (Katie and Madonna).

The question is: how do we go about doing that?

Susan Fairchild

Senior Environmental Scientist

(919) 541-5167

USPS Address:

OAQPS/SPPD/MMG

Mail Code D 243-04

Research Triangle Park, NC 27711

From: Hartman, Bob
Sent: Wednesday, February 10, 2016 12:06 PM

To: Narvaez, Madonna <Narvaez.Madonna@epa.gov>; Fairchild, Susan <Fairchild.Susan@epa.gov>; Chambers, Katrina <Chambers.Katrina@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>
Subject: RE: Bullseye glass Portland OR CBI information

Hi all,

Just to clarify, I am the legal contact for CBI issues, thanks.

Robert Hartman

Assistant Region Counsel

U.S.Environmental Protection Agency

Region 10, ORC-158

1200 Sixth Ave., Suite 900

Seattle, WA 98101

(206) 553-0029

hartman.bob@epa.gov

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Cc: Hartman, Bob <Hartman.Bob@epa.gov>
Subject: RE: Bullseye glass Portland OR CBI information

Bob Hartman is the R10 CBI person.

From: Fairchild, Susan
Sent: Wednesday, February 10, 2016 7:03 AM
To: Chambers, Katrina <Chambers.Katrina@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>; Narvaez, Madonna <Narvaez.Madonna@epa.gov>
Subject: Bullseye glass Portland OR CBI information

Katrina,

Please add Katie McClintock and Madonna Narvaez in EPA Region 10 to the list of persons authorized to access this CBI.

Katie and Madonna,

Please advise Katrina in our CBI office of the name of your Region 10 CBI person(s). Katrina can then send this information to your CBI person.

Thanks

Susan Fairchild

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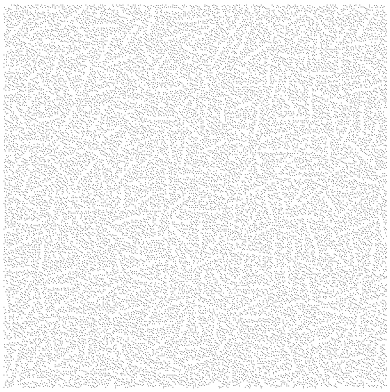
Research Triangle Park, NC 27711

To: Leefers, Kristin[Leefers.Kristin@epa.gov]
From: McClintock, Katie
Sent: Thur 2/11/2016 3:33:41 PM
Subject: FW: Bullseye glass Portland OR CBI information



Can you help them figure this out so we can get the data?

From: Purifoy, Tiffany
Sent: Thursday, February 11, 2016 6:44 AM
To: Whitmire, Yvette <whitmire.yvette@epa.gov>
Cc: Barnett, Keith <Barnett.Keith@epa.gov>; Fairchild, Susan <Fairchild.Susan@epa.gov>; Chambers, Katrina <Chambers.Katrina@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>
Subject: RE: Bullseye glass Portland OR CBI information

Hello Yvette,

I am the Document Control Officer for the Office of Air Quality Planning and Standards and we are currently trying to locate a point of contact in Region 10, who is authorized to receive Clean Air Act Confidential Business Information. I see that you are the Records Management POC for Region 10. Are you cleared to access CBI? If not, can you point us in the direction of the appropriate Region 10 POC for this request?

Thanks,

Tiffany Purifoy

Government Information Specialist

Office of Air Quality Planning & Standards

Environmental Protection Agency

919-541-0878

From: Fairchild, Susan
Sent: Thursday, February 11, 2016 9:12 AM
To: Purifoy, Tiffany <Purifoy.Tiffany@epa.gov>; Chambers, Katrina <Chambers.Katrina@epa.gov>; McClintock, Katie <McClintock.Katie@epa.gov>
Cc: Barnett, Keith <Barnett.Keith@epa.gov>
Subject: FW: Bullseye glass Portland OR CBI information

Katie, Tiffany and Katrina,

Could you all get a chance to connect today or tomorrow and figure out who in Region 10 is authorized to receive CBI under the Clean Air Act?

I am not authorized to transmit this information. It has to go from a CBI officer to another CBI officer. I am sure that there is one in Region 10's office.

Susan Fairchild

Senior Environmental Scientist

(919) 541-5167

USPS Address:

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Mail Code D 243-04

Research Triangle Park, NC 27711

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Sent: Thursday, February 11, 2016 1:12 AM
To: Narvaez, Madonna <Narvaez.Madonna@epa.gov>; Fairchild, Susan <Fairchild.Susan@epa.gov>; Hartman, Bob <Hartman.Bob@epa.gov>; Chambers, Katrina <Chambers.Katrina@epa.gov>
Subject: RE: Bullseye glass Portland OR CBI information

Nope. I have never heard of it and I handle cbi often. Not to be grouchy (and I've worked over 12 hours today so that is a given), but this seems like we are making this harder than it needs to be. I went to the source and asked for a bunch of stuff today so it would be useful to be able to compare it with the older info they sent.

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Mail Code D 243-04

Research Triangle Park, NC 27711

From: McClintock, Katie
Location: Your place
Importance: Normal
Subject: FW: Quick Demo of Colored Glass OneDrive Site
Start Date/Time: Wed 3/2/2016 6:00:00 PM
End Date/Time: Wed 3/2/2016 6:30:00 PM

Including Yvette and Kris in case they are interested.

-----Original Appointment-----
From: Kercheval, Stephanie
Sent: Tuesday, March 01, 2016 4:51 PM
To: Kercheval, Stephanie; McClintock, Katie; Vitellaro, Chandra
Subject: Quick Demo of Colored Glass OneDrive Site
When: Wednesday, March 02, 2016 10:00 AM-10:30 AM (UTC-08:00) Pacific Time (US & Canada).
Where: Your place

Hi Katie,

I would appreciate a few minutes of your time to see how you use OneDrive or SharePoint for your group record collection site.