

**Chemtrade Logistics-ERCO Worldwide-Univar Canada-Terrapure Environmental
North Shore Community Advisory Panel (CAP)
MEETING SUMMARY NOTES
Chemtrade Logistics, 100 Amherst Street, North Vancouver
5:30 pm Dinner/Meeting 6:00 pm to 8:00 pm
Tuesday, November 20, 2018**

Attendance

Rob Schultz, Chemtrade Logistics
Steve Spence, Terrapure Environmental
Tracey Conrad, Terrapure Environmental
Tom Miller, ERCO Worldwide
Robin Lee, Univar
John Miller, Lower Capilano Residents
Association
Kevin Zhang, DNV
Calvin Tran, Miles Industries
Dave Mair, Resident
Val Hammerberg, Maplewood Area
Community Association (MACC)
Stuart Porter-Hogan, Maplewood Area
Community Association (MACC)
Alex McNeil, Blueridge Community
Association
Kevin Bell, Wild Bird Trust
Babs Perowne, NV Can
Sharon Porter, Resident
Lisa Richardson, Resident
Bruce Crowe, Inter River Community
Association
Jordan Conrad, Resident
Ronan Chester, Port of Vancouver

Regrets

Fiona Dercole, NSEM
Jocelyn Hewson, NSEM
Karen Rendek, DNV
Anastasia Ovodova, Port of Vancouver
Duncan Webb, Port of Vancouver
Cathy Brydon, Resident
Tracey Godin, Miles Industries

1. Introductions

CAP members introduced themselves and welcomed guests attending CAP for the first time.

2. Guest Presentation – Port of Vancouver

Ronan Chester from the Port of Vancouver gave a presentation outlining the various environmental initiatives that the Port is involved in. Please see the attached presentation for more information.

3. CAP Outreach

The Welcome Packages for new CAP members were presented for CAP members' review. Suggestions for changes included adding the year CAP was founded to the cover page, and information capturing the reason CAP was created and the mutual benefit of the CAP meetings for both the companies and the community.

The facilitator informed CAP members that there had been no enquiries from the advertisement in the *North Shore News*. It was agreed to place the ad again before the next CAP meeting and see if it generates any community interest this time.

4. Reports from the Companies

a) Chemtrade

Rob Schultz reported that there have been no Environmental, Security or Transportation incidents since the last CAP meeting. Chemtrade participated in the annual Shakeout BC drill on October 18th. They have incorporated Rapid Damage Assessment as part of the annual drill.

In response to a CAP member's question on the recent UN report on Climate Change, Rob clarified that the plant underwent a significant technology change in 2010, which significantly reduces their CO2 levels. In late 2015, further improvements were completed to further reduce the CO2 emission levels. CO2 emission levels have been reduced 90%, from approximately 65,000 tonnes/yr to 6,500 tonnes/yr since 2010.

Rob clarified that the emissions of ships moving Chemtrade's product would be captured in the Port's emissions, and that Chemtrade is unable to measure the emissions from trucks and rail used to transport goods as they are not owned by the plant. He explained that there is a tier of emissions, with the locomotive the highest, and that it is very costly to move to the next tier. They would look at when the lease expires and then go to the next phase.

An internal ISO 19001:2015 review was completed the week of October 9th. There were no major findings. The audit identified a number of opportunities for improvement that will be considered for implementation.

The plant is continuing to work on an ever-improving radio communication system with Mike Andrews of NSEM and the DNV Fire Department. NSEM has provided Chemtrade with a radio base station, and Chemtrade will now participate in monthly radio-drills to ensure the reliability of the emergency communication system.

The plant is undergoing two electrolyzer refurbishments this year, one completed in November and one scheduled for December.

b) ERCO Worldwide

Tom Miller reported that the plant ran well and near capacity except for early November when the Crystallizer agitator gearbox developed a noise. The plant was initially taken down to allow for inspection, and then shut down the following week for 48 hours to replace the unit. Other plant maintenance was done on this unscheduled outage.

ERCO employees and contractors continue to work safely, with 2.5 years since the last Recordable safety incident (05/17/16) and 2876 days since the last Lost Time Accident (01/05/11). On November 13th, a railway safety audit was conducted on site and identified a few minor opportunities for improvement.

ERCO Worldwide is collective bargaining with its union workforce for 3 weeks in October. Contract discussions will continue in early December. ERCO's United Way campaign occurs during the week of November 26th.

In response to a CAP member's question on ERCO's carbon footprint, Tom clarified that ERCO has 9 facilities and they do an annual carbon footprint that looks only at operations, not transportation. There is no natural gas or diesel burning on the site. The only improvement that could be made is to decrease diesel use in the trucks.

c) Univar

Robin Lee reported that there have been 952 days since the last Safety reportable. There have been no reportable incidents or first aids since the last CAP meeting.

Univar is preparing for winter through safety awareness, implementing winter switches for rail safety and salting the site. Robin mentioned that it is difficult to find new longshoremen to train and there are shortages across the waterfront.

Univar employees are considering supporting the REACH program through a 50/50 draw over the holiday period.

In response to a CAP member's question on carbon footprint, please see the attached presentation regarding site emissions. Univar globally has a Sustainability Report, which can be accessed here: https://s2.q4cdn.com/475668875/files/sustainability_reports/2018/

Robin provided the following clarifications from the previous minutes regarding the truck loading incident at Univar on September 26th:

The Univar Richmond driver had not followed procedure that required him to close the valves prior to leaving the site in the morning. Although the truck had been cleaned and steamed, valves are required to be closed prior to accessing railways. Originally there was no checklist to complete for this task. Univar Richmond has since implemented changes to the procedure in which the driver is required to complete a checklist.

The Univar NVDC operator had not completed the checklist prior to the incident occurring. A checklist was in place such that he should have completed a vacuum test on the valves/checked their position prior to truck loading. The documentation had not been completed.

In past self-assessments, there have been concerns as to how operators were completing the checklists. This is being addressed with increased audit frequency and incident review in tool box talks, safety meetings and foremen's meetings.

d) Terrapure Environmental

Steve Spence reported that Terrapure's semi-annual shutdown was completed with no accidents or injuries, and the facility is now back to full operating capacity.

On November 13th, Terrapure received a call from Metro Vancouver about an odor complaint from the public – the smell of rotten eggs coming from the facility.

The operations group determined the cause to be a vessel washout job associated with the shutdown. The odor was detected at the time of the washout, but did not persist. This information was communicated to Metro Vancouver, and no further communication has been received.

Terrapure continues to operate injury free, with over 5800 days since the last lost time injury. In November, Terrapure commissioned three fall protection structures that provide arial-harness restraint protection for three railcar loading locations along the North side of their property.

There is no data available on Terrapure's GHG emissions and carbon footprint at this time. Steve will look into annual emission data submitted to Metro Vancouver to see if they can

provide any general GHG data.

5. Summary of Recently Submitted Development Applications

Kevin Zhang from DNV provided an update in Karen Rendek's absence. He informed CAP members that there are no new applications at the moment. He mentioned that he could ask the environment team at DNV to look at their carbon footprint.

6. NSEM Update

Below is a synopsis of activity that has taken place as per the DNV Communication Plan, and subsequent feedback from Maplewood residents provided by Jocelyn Hewson, Public Education Coordinator at NSEM:

COMPLETED

- 1) **Postcard:** A double-sided post card featuring *Sheltering-In-Place* and *Rapid Notify* Information was designed, printed, and mailed to all Maplewood residents for early May (Emergency Preparedness week).
- 2) **Poster:** The *Be Prepared! Emergencies can happen anytime* poster was designed, printed, and provided to Stuart Porter who kindly offered (with the Community Association) to deliver to the local businesses. This also was done in May.
- 3) **Website Content:** NSEM refreshed / updated website content, particularly regarding Shelter-In-Place directions.

IN PROGRESS

- 1) **New Resident Package:** The components of the *New Resident Package* (Letter, Shelter-In-Place sticker 6" x 2.5") are print ready. We are finalizing the process (in conjunction with DNV) of verifying when a new building has become occupied.
- 2) **Shelter-In-Place Video:** During the refresh of the NSEM website content, it was determined that a new Shelter-In-Place video would be beneficial. This process is well underway; the script is complete and filming dates have been confirmed for the 2nd week of December. Note that the existing Shelter-In-Place video is still active on the NSEM website, and is accurate, however it was determined that a video that was shorter, current, and filmed with North Vancouver context would be of greater appeal.

OUTSTANDING

- 1) **Newsletter Article:** It was suggested that Fiona Dercole (Director) write an article for the Community newsletter. Please confirm if this is still of interest.

It's worth noting that NSEM is closely following EMBC and the BC Emergency Alerting System. A second test of Alert Ready is coming up on November 28th.

7. Meeting Evaluation and Close

The meeting ended at 8:35pm.

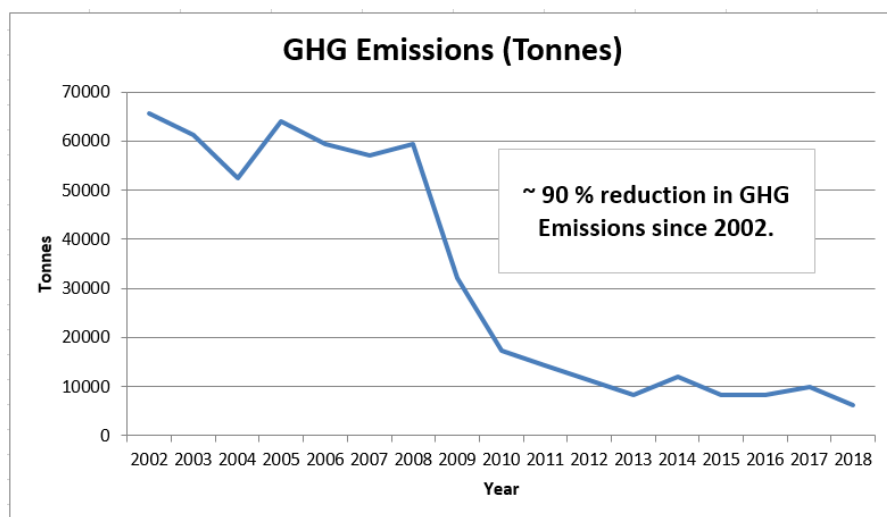
Community Advisory Panel (CAP)

November 20, 2018 Briefing Notes

Responsible Care – Safety, Security, & Environmental:

- Safety:
 - Since the last CAP meeting in October there have been no environmental incidents.
 - The plant participated in the annual Shakeout BC drill on October 18. We have incorporated Rapid Damage Assessment as part of the annual drill.

- Environmental:
 - Since the last CAP meeting there have been no Environmental reportable incidents.
 - A question was raised by a CAP member regarding the recent UN report on Climate Change.
 - The plant underwent a significant technology change in 2010 that made a significant reduction in our CO₂ emission levels. Further improvements were completed in late 2015 to further reduce the CO₂ emission levels. Since 2010 we have reduced CO₂ emission levels from ~65,000 tonnes/yr to ~6,500 tonnes/yr. This represents an emission reduction of ~90 %.



- Security: There have been no Security incidents since the last CAP meeting.
 - The plant has changed Security Service providers and is now utilizing Securiguard.

- Transportation: There have been no Transportation incidents since the last CAP meeting.

- The week of October 9 we completed an internal ISO 19001:2015 review. There were no major findings from the audit. A number of opportunities for improvement were identified and will be considered for implementation.

- Responsible Care in our Community:
 - The plant is continuing to work with Mike Andrews of NSEM and the DNV Fire Dept. on an ever-improving radio communication system. NSEM has now provided Chemtrade with a radio base stations, and the plant will now be participation in monthly radio drills-used to ensure the reliability of the emergency communication system.

Plant Operations:

- The plant is undergoing two electrolyzer refurbishments this year with one completed the week of November 5 and the second one scheduled for the week of December 10.
- The plant is currently running near capacity.



ERCO Worldwide Update

(since CAP meeting on October 11, 2018)

Operations

- Plant ran well and near capacity except early November when the Crystallizer agitator gearbox developed a noise. The plant was initially taken down to allow for inspection, and the plant then shut down for 48 hours on the following week to replace the unit. Other plant maintenance was done on this unscheduled outage.

Safety/Environmental

- ERCO employees and contractors continue to work safely. As of today, ERCO employees had worked 2.5 years (917 days) since last Recordable safety incident (05/17/16). The last Lost Time Accident was 2876 days ago (01/05/11).
- A railway safety audit occurred on site on November 13th – only a couple minor opportunities for improvement were identified.

Miscellaneous

- In October, ERCO Worldwide was in collective bargaining with our union workforce (PPWC Local 5) for 3 weeks. Contract discussions will continue in early December.
- ERCO's United Way campaign occurs during week of November 26th.

Tom Miller
November 20, 2018



Univar Canada update – November 2018

Environmental Health & Safety

- 952 days since last safety recordable
- No reportable incidents or first aids since last meeting

Maintenance & Operations

- Preparing for winter
 - Safety awareness, rail safety (winter switches), salting site
- Difficulty finding new longshoremen to train – shortages across the waterfront

Community

- Site employees considering supporting the REACH program by way of a 50/50 draw over the holiday period

Please see attached presentation regarding site emissions. As mentioned previously, Univar globally has a Sustainability Report – link as follows:

https://s2.q4cdn.com/475668875/files/sustainability_reports/2018/

Clarifications regarding previous minutes:

Regarding the truck loading incident at Univar Sept 26th.

- The Univar Richmond driver had not followed procedure that required him to close the valves prior to leaving site in the morning
 - Although the truck had been cleaned and steamed – valves are required to be closed prior to accessing roadways
 - Originally there was no checklist to complete for this task

- Univar Richmond has since implemented changes to the procedure in which a checklist is required to be completed by the driver
- The Univar NVDC operator had not completed the checklist prior to the incident occurring
 - A checklist was in place such that he should have completed a vacuum test on the valves / checked their position prior to truck loading
 - The documentation had not been completed
- In past self-assessments, there have been concerns as to how operators were completing the checklists and this is being addressed with increased audit frequency and incident review in tool box talks, safety meetings and foremen's meetings

Current status

- Facility is currently operating at full capacity
- Semi-annual shutdown completed last week
 - No accidents or injuries reported
 - 1 odor complaint reported
 - Nov 13 at 2:30pm, received call from Metro Vancouver relaying a call-in odor complaint from the public; smell of rotten eggs from our facility.
 - Operations group investigated and determined cause to be a vessel washout job associated with the shutdown. Odor was detected at the time of the washout, however the odor did not persist.
 - Information was relayed to Metro Vancouver and no further communication has been received.
- Reminder that our facility operates 24/7/365

Health, Safety and Environment

- Our facility continues to operate injury free, 5800+ days since our last lost time injury
- Follow up from our September 7 Mock Evacuation exercise:
 - Discussed details of the event at the last CAP meeting
 - Circulated our notification list for review to CAP members, suggested additions have been added to the list
- Commissioned 3 fall protection structures in November. Structures provide arial-harness restraint protection for 3 railcar loading locations along the North side of our property
- GHG emissions and Carbon Footprint – No data available at this time. Steve will look into annual emission data submitted to Metro Vancouver to see if they can provide any general GHG data.

Training and Audits

- No Audit activity over the Fall period.
Refinery fire-fighting training for our operations group scheduled this week at the Justice Institute.