

**Chemtrade Logistics-ERCO Worldwide-Univar Solutions-Terrapure Environmental
North Shore Community Advisory Panel (CAP)
MEETING SUMMARY NOTES
Online via Zoom**

**Meeting 6:00 pm to 8:00 pm
Tuesday, April 20, 2021**

Attendance

Tom Miller, ERCO Worldwide
Brian Scott, ERCO Worldwide
Robin Lee, Univar Solutions
Raman Mangat, Univar Solutions
Steve Spence, Terrapure
Environmental
Emily Dicken, NSEM
Arielle Dalley, DNV
John Miller, Lower Capilano Residents
Association
Val Hammerberg, Maplewood Area
Community Association (MACC)
Stuart Porter-Hogan, Maplewood Area
Community Association (MACC)
Sharon Porter, Resident
Paul Killeen, Blueridge Community
Association
Stuart Meyer, Miles Industries
Alejandro Paredes-Borjas, Wild Bird
Trust
Dave Mair, Resident
Matthew Leigh, CN-Rail BC South

Regrets

Rob Schultz, Chemtrade Logistics
Bruce Crowe, Inter-River Association
Lianne Payne, Wild Bird Trust
Babs Perowne, NV Can
Lisa Richardson, Resident

Cathy Brydon, Resident

1. Welcome and Introductions

Members introduced themselves and shared something they appreciate at the moment. CAP members welcomed Paul Killeen who is replacing Alex McNeil as the Blueridge Community Association representative. Alex served for many years on the CAP.

Members also expressed appreciation for the contributions of Tom Miller, Plant Manager of ERCO Worldwide, who will be retiring on June 1st after serving on the CAP for over 20 years.

2. Review of February CAP meeting minutes

Members reviewed the February CAP meeting minutes. No additions to the original draft sent out to members after the meeting were noted. Members were asked for further additions. No further additions were requested. The facilitator will finalize the February meeting minutes and send to DNV to post on their CAP information webpage.

3. CN Presentation on Rail Safety and Dangerous Goods

Matthew Leigh, Dangerous Goods Officer with CN-Rail BC South, highlighted that safety is a priority for CN and they are looking for new technology and adaptations to enhance safety.

Due to the previous high injury rate, now no one is allowed to get off a moving rail car. New hires go to Winnipeg for a training program where they simulate walking on snow, ice and uneven surfaces.

New technology is being invested in to mitigate risk. They have a new system of automated inspection portals. A range of detectors pick up issues with railcars before derailment occurs.

For example, the use of DED (Dragging Equipment Detector) to see if trains are dragging any equipment underneath. They also have rockslide detectors to be able to detect this hazard ahead of time. Switch heaters keep the ice/snow build up on white propane tanks to a minimum.

When duties and terrain permit, at least two crew members of a standing train and other employees along the right of way must inspect passing trains on the ground on both sides of the track.

CN also has detailed rules in place for securing unattended equipment.

Matthew explained that a Key Train is a train carrying:

1 or more

- Loads of spent nuclear fuel or high level radioactive waste

- Tank car loads containing a poison/toxic inhalation hazard

20 or more

- loaded DG shipments or intermodal portable tank loads having any combination of dangerous goods

Key trains are subject to speed restrictions.

The new TC-117 Tank Car has enhanced safety features including insulation, thermal protection which increases the survivability of tank cars during a fire, head shields on the front to protect the tank car from being punctured by equipment or collisions with adjacent rail cars in the event of excessive end impact or derailment, and protective housing. This leads to a decrease in the loss of product during derailment.

Derailment is defined as the wheel coming off at any point. Most derailments happen from low-speed yard impact.

7.5% of shipments moved by rail involve dangerous goods (industry average). 99.999% of all shipments by rail arrive at their destination without accidental release. There has been a 91% decrease in the dangerous goods accident rate since the 1980s.

The role of Dangerous Goods Officers is to:

- Immediately attend a DG incident
- Provide site assessment assistance
- Assemble a tactical plan

Canadian regulations require certain dangerous goods to have an Emergency Response Assistance Plan (ERAP) when transported in Canada. They must be approved by Transport Canada before shipping and include the equipment, personnel and procedures to be used during an incident. A Train Consist is on every Dangerous Goods car which lists what it is carrying, etc. This is now held electronically on tablets to be easily and quickly transferred to first responders as needed.

CN works closely with Emergency Response Assistance Canada (ERAC), the main holder of these plans. Contractors are assessed yearly with ERAC, including a practical component. There is also regional response team training with support and training for first responders in Flammable Liquid Firefighter Training. CN deploys a range of equipment if an incident occurs.

CN uses a System Protection Model for Dangerous Goods with a chain of communication proceeding down through the following personnel:

- Dangerous Goods Officer (DGO)
- Dangerous Goods Responder (DGR)
- Emergency Response Contractors
- Industry Partners / ERAP Holders

CN has an emergency response plan that was developed in 2016. A new one will be coming out soon.

ASKRAIL is an app developed in collaboration with AAR, Railinc, and North American Class I Railroads that is available to first responders on the scene of a railway accident to give them quick access to information.

For more information, visit the website: www.cn.ca/dg

CAP Members' questions:

-If a railcar with a commodity leaving a chemical plant has a release, what is the procedure in terms of contacting the plant?

The procedure would be for CN to call the 24-hour number and the ERAP number provided to notify the contractor.

Robin added that in Univar's case, caustic doesn't have an ERAP, so Matthew would call if they arrive on site. The CANUTEC number also goes down to Univar responders and someone is on call all the time to receive this. In such scenarios, plant staff would use their expertise to assist as subject matter experts, but CN would direct the operation.

-Do the workers inspecting passing trains on the ground on both sides of the track have training in Dangerous Goods?

Transportation personal and mechanical will have TDG, other departments will not have TDG training. These inspections are to ensure there is no damage, dragging of equipment, open doors or leaking cars. Nothing to specifically shipping of dangerous goods.

-Is CN using the new technology of the [Derail Light Smart Safety Device](#)?

This is not a part of Matthew's function, so he doesn't know. They may be using this or exploring its use.

-Does CN do any joint training with chemical companies and emergency response contractors to build trust?

There is ERAP training once a year and they are trying to get more in the field test assessment. There is not a lot with shippers doing collaborative training, though Chemtrade just did this with a transfer of chlorine.

4. Reports from the Companies

a) Chemtrade Logistics

Rob Schultz reported that there have been two safety Recordable Injuries since the last CAP meeting:

- A contractor exiting a tank after completing welding and grinding activities did not decontaminate his clothing before removing his PPE. As he was removing his PPE, he felt something go into his eye. He reported to first aid where his eye was flushed and examined. Nothing found in the eye, so he reported back to work and completed his shift. After leaving for the day, he still felt like there was material remaining in his eye, so he sought additional medical attention where he was prescribed eye drops.
- An employee preparing to take a sample in a chemical containment area slipped when he stepped on a piece of grating. The grating had been put down to provide a spot for employees to stand on to avoid getting their boots wet and was not a properly installed platform. When the employee reached out to break his fall, he twisted his ankle and jammed his thumb.

There have been no Environmental, Security or Transportation incidents since the last CAP meeting.

In terms of Covid-19 planning, the plant has added additional personal hygiene measures and reduced access to further ensure the continuing health of employees,

contractors and visitors. Chemtrade has inquired to Vancouver Coastal Health to see if they may qualify for the second round of vaccinations for essential workers. At present, there is no indication this will occur. There has been one positive Covid case when a worker's wife became infected and transmitted the virus to him. He was off work at the time and no exposure occurred to anyone working at the plant.

Markets are improving rapidly right now as demand for the plant's products is improving. Some of this demand is being driven by the winter freeze in the Texas area.

A two-day outage is planned for April 19th and 20th to complete some maintenance items to prepare for the higher peak demand period of the summer.

As Rob couldn't be at the meeting due to the outage, he requested any questions about the Chemtrade report be sent to the CAP facilitator.

b) ERCO Worldwide

Tom Miller reported that the severe shortage of containers and delays in ocean shipping caused plant load reductions in March. ERCO Worldwide North Vancouver took a 1 day scheduled shutdown for cell acidwashes and maintenance on Line 8 in February and April, and Line 7 in March. A multi-day plant outage to perform large scale maintenance activities is planned for September.

Tom noted that on April 20th, it has been 287 days since the last Recordable safety incident (July 7/20), and 3768 days (Jan 5/11) since the last Lost Time Accident. It has been 2866 days since the last Reportable Environmental incident (May15/13).

ERCO continues to ensure all employees, contractors and visitors follow COVID-19 safeguards. There has been no COVID case with an employee since the single Maintenance employee case reported in December 2020.

On April 9, 2020, Superior Plus Corporation announced that it has closed the sale of its Specialty Chemicals business (ERCO Worldwide) to Birch Hills Equity Partners. The business will continue to operate under the name of ERCO Worldwide. As a Responsible Care[®] company, ERCO will continue to be a leading global supplier of chemicals and technologies to the pulp and paper and water treatment industries; and continue to operate facilities in the same safe and environmentally sound manner as in the past.

Tom announced that on June 1st he is retiring from ERCO Worldwide after 32 years. He said it has been a pleasure participating on the CAP and meeting numerous dedicated community members (and CAP facilitators) in this period. His first exposure to the CAP was in 1995, when he was invited to make a presentation to the CAP as Production

Manager. He noted that Brian Scott, presently ERCO's Production Manager, has been promoted to Plant Manager, and will participate in CAP meetings going forward.

Noting the sale by two of the CAP companies at one meeting, a CAP member asked if this would impact employment at the current locations in the near future, and whether it is part of moving the plant operations to other locations by the acquiring companies. Tom responded that the staff team would remain the same and employment numbers would not change. The North Vancouver facility of ERCO Worldwide is key and there are no plans to sell it.

c) Univar Solutions

Robin Lee reported that there have been 1831 days since the last safety recordable and 3769 days since the last DAWC (as of end of day April 19th).

Since the last CAP meeting, no personal safety or environmental reportables have occurred. Other near miss or non-reportable incidents occurred as follows:

- Quality – cross contamination
 - o Minor amounts of caustic were found in the glycol piping that is used for clearing ship loading arms at the completion of marine loading
 - o The dedicated nitrogen hose had likely been contaminated with minor amounts of caustic due to leaking valves and in turn exposed the glycol piping to minor amounts of caustic. These valves were on schedule to be replaced but this had not yet been completed due to the complexity of the replacement procedure.
- The system was flushed and tested without issue.
- In future, dedicated product hoses for use with N2 system clearing will be used, one for glycol and a different one for caustic.

In March, Univar successfully passed their first Transport Canada railcar owner audit that reviewed all requirements and responsibilities associated with owning a fleet of railcars. This was done over a two-week period and was conducted remotely.

Upcoming projects for the site include Track Maintenance work, internal tank inspection with some coating upgrades, and dock upgrade work (including seismic improvements),

which will allow greater flexibility for ships' berthing. The site is also planning to add a small storage track accommodating up to 8 cars to facilitate railcar maintenance, CN delivery swings, and some small amount of throughput increase.

COVID 19 challenges continue with meetings and tool box talks held outside and/or via computer and visitors to the site extremely limited. However, the site was able to accommodate a Capilano University film crew coordinated outdoors in a non-restricted area.

Robin welcomed Raman Mangat in the newly created role of Marine Technical Specialist, responsible for EHS, Quality & Security. She noted he comes from an excellent marine regulatory and operational background, and the intent is for him to be the site's back up team member for the CAP, and so he was attending for the first time this evening.

d) Terrapure Environmental

Steve Spence reported that the refinery is running at 100% capacity and demand is currently outstripping supply. The facility's semi-annual shutdown is scheduled for May 31st to June 11th.

The facility has continued to operate lost time injury free since the last CAP report, and has no positive cases of COVID-19 to report for staff, visitors or contractors.

There is one minor incident to report since the last CAP meeting:

- Level 0 (<1,000L into containment) spill on April 16. The valve on a distillate oil tank did not close properly, partially obstructed by solidified polymer. When the polymer softened during the heat of the day, a stream of distillate oil ran out into the containment compound. Once the spill was detected, the oil was directed to a collection sump and pumped back to a used oil tank. This incident is a learning to make sure the valves are tightly closed going forward.

After six years of growth and expansion, Terrapure has signed an agreement to sell its Environmental Solutions business and Oil Recycling Services business to GFL Environmental. This includes the North Vancouver refinery. The sale is subject to customary closing conditions and the process is expected to take several months, with the deal likely closing in Q3 or Q4. GFL Environmental is the only major diversified environmental services company in North America offering services in solid waste management, liquid waste management, and infrastructure development. The North

Vancouver Refinery is a very strong strategic fit for GFL as they are currently Terrapure's largest competitor in the Western Canada used oil collection market.

Noting the sale by two of the CAP companies at one meeting, a CAP member asked if this would impact employment at the current locations in the near future, and whether it is part of moving the plant operations to other locations by the acquiring companies. Steve responded that Terrapure is strategically located and there are no plans for employment changes.

5. NSEM Update

Emily Dicken, Director of NSEM reported that NSEM is excited to welcome John Hawkes in the role of Manager, Planning & Resilience. He will be starting in early May and may join CAP meetings occasionally.

Alertable, a mass notification app, is being launched for use across the North Shore. The system has been fully operational since January 2, 2021 and has been used by Chemtrade for their monthly tests. NSEM will be using Emergency Preparedness Week (May 2-8) to promote the use of Alertable through a public education campaign. The hope is to get significant engagement and sign up.

Operationally, NSEM responded alongside the District of North Vancouver to the attack that occurred in Lynn Valley. A Wellness & Resilience Centre was set up and provided emotional support to over 60 people who visited the centre. Virtual support via phone will continue to be provided.

NSEM has also been working with Metro Vancouver on the Dam Emergency Response Plans for the Capilano River and Seymour River. As part of this process, Metro Vancouver is installing an audible alarm system along the Capilano River. Emily offered to make an introduction to have Metro Vancouver speak at a future CAP meeting.

6. Update on Recently Submitted Development Applications

Arielle Dalley from DNV reported that there are no recently submitted development applications.

7. Meeting Evaluation and Close

The meeting ended at 7:40pm with all CAP members thanking Tom Miller for his long-time contribution to CAP and wishing him well on his retirement.

The next CAP meeting will be on Tuesday, June 15, 2021.



Community Advisory Panel (CAP)

April 20, 2021 Briefing Notes

Responsible Care – Safety, Security, & Environmental:

➤ **Safety:**

- There have been two Recordable Injuries since the last CAP meeting.
 - A contractor exiting a tank after completing welding and grinding activities did not decontaminate his clothing before removing his PPE. As he was removing his PPE, he felt something go into his eye. He reported to first aid where his eye was flushed and examined. There was nothing found in the eye, so he reported back to work and completed his shift. After leaving for the day, he still felt like there was material remaining in his eye, so he sought additional medical attention where he was prescribed eye drops.
 - An employee preparing to take a sample in a chemical containment area slipped when he stepped on a piece of grating. The grating had been put down to provide a spot for employees to stand on to avoid getting their boots wet and was not a properly installed platform. The employee twisted his ankle and jammed his thumb when he reached out to break his fall.

➤ **Environmental:**

- There have been no new environmental incidents since the last CAP meeting.

➤ **Covid-19 Planning**

- Chemtrade North Vancouver has been designated an essential service and is continuing to operate but at reduced capacity.
 - No significant changes have been made to our Covid-19 planning.
 - Staff continue to work from home when possible.
 - We have added additional personal hygiene measures and reduced access to further ensure the continuing health of our employees, contractors and visitors.

- Employees are slowing being vaccinated at the plant as their age group comes up. We have inquired to Vancouver Coastal Health to see if we may qualify for the second round of vaccinations for essential workers. At this point, there is no indication this will occur.
 - We have now had one positive case when a worker's wife became infected and transmitted the virus to him. He was off work at the time and no exposure occurred to anyone working at the plant.
- **Security:**
- There have been no Security incidents since the last CAP meeting.
- **Transportation:**
- There have been no Transportation incidents since the last CAP meeting.
- **Plant Operations:**
- The plant is continuing to operate but at a reduced capacity due to market conditions brought on by COVID-19.
 - Markets are improving rapidly right now as demand for our products is improving. The winter freeze in the Texas area is driving some of this demand right now.
 - We are taking a planned two-day outage on April 19 & 20 to complete some maintenance items in preparation for the higher peak demand period of the summer.



ERCO Worldwide Update (since last CAP meeting on February 18, 2021)

Operations

- ERCO NV plant has run well since we met in February - however continued issues with global container shortage has caused plant load reductions in March due to the severe shortage of containers & delays in ocean shipping.
- The site has taken 1-day shutdowns for cell acidwashes and maintenance: Line 8 in February and April, and Line 7 in March.
- Currently planning a multi-day plant outage in September to perform large scale maintenance activities.

Safety/Environmental

- ERCO employees and contractors continue to work safely. On April 20th, NV employees have worked 287 days since last Recordable safety incident (July 7/20) & 3758 days since our last Lost Time Accident (Jan. 05/11).
- ERCO NV continues to ensure COVID safeguards are being followed by all employees, contractors, and visitors. ERCO has not had a COVID case with an employee since the single Maintenance employee case reported in December 2020.
- It has been 2866 days since last Reportable Environmental incident (May 15/13).

Miscellaneous

- On April 9, 2020 Superior Plus Corporation announced that it has closed the sale of its Specialty Chemicals business (ERCO Worldwide) to Birch Hills Equity Partners. I have attached the notification letter to this summary. The business will continue to operate under the name of ERCO Worldwide. As a Responsible Care[®] company, we will continue to be a leading global supplier of chemicals and technologies to the pulp and paper and water treatment industries; and continue to operate our facilities in the same safe and environmentally sound manner as we have in the past.
- I am retiring from ERCO Worldwide on June 1st after 32 years with ERCO. It has been a pleasure participating on the CAP and meeting numerous dedicated community members (and CAP facilitators) in this period. My first exposure to the CAP was in 1995, when as Production Manager, I was invited to make a presentation to the CAP. Brian Scott,

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presently ERCO's Production Manager, has been promoted to Plant Manager, and will participate in our CAP meetings going forward.

Tom Miller

April 20, 2021

April 9, 2021

Dear North Vancouver CAP members:

Superior Plus Corp. ("Superior") is pleased to confirm the completion of the previously announced sale of its Specialty Chemicals business ("ERCO") to Birch Hill Equity Partners ("Birch Hill"). Birch Hill is a Canadian mid-market private equity firm with a 26-year history and over \$4 billion in capital under management. The day-to-day operations will continue in the ordinary course, and you will continue to deal with the same ERCO contacts as you have in the past.

The business will continue to operate under the name **ERCO Worldwide**.

ERCO manufactures sodium chlorate, sodium chlorite, chlorine, sodium hydroxide, hydrochloric acid, and potassium hydroxide. Additionally, ERCO produces hydrogen as a by-product of the electrolysis processes. We own and operate production facilities across North America and in Chile. ERCO also designs and provides chlorine dioxide generators and related technology to the Pulp and Paper and Water Treatment industries.

Our telephone numbers and email addresses remain the same. The Canadian business now operates under the legal name ERCO Worldwide LP and in the interim, the current address for our Toronto based corporate office has changed to ERCO Worldwide LP, 335 Carlingview Drive, Toronto, Ontario, Canada M9W 5G8. We will not move to our new office at 5050 Satellite Dr., Suite 600, Mississauga, Ontario, L4W 0G1, until we receive clearance from Public Health. Please update your records to reflect the Carlingview address. There are no changes to the operations or company names in the United States or Chile.

As a Responsible Care® company, we will continue to be a leading global supplier of chemicals and technologies to the pulp and paper and water treatment industries; and continue to operate our facilities in the same safe and environmentally sound manner as we have in the past.

Our continued success is ultimately due to our channel partners, customers, and suppliers. We remain laser-focused and committed to drive our business forward. We thank you for your support and look forward to continuing our relationship.

For your reference, following is a link to the Superior Plus press release.

Link: [Superior Plus Announces Completion of the Sale of its Specialty Chemicals Business](#)

Yours sincerely,

Name: Tom Miller, P.Eng.

Title: Plant Manager, North Vancouver

Univar Solutions report – April 19, 2021

Robin Lee reported that there have been 1831 days since the last safety recordable and 3769 days since the last DAWC (as of end of day April 19th).

Since the last CAP meeting, no personal safety or environmental reportables have occurred. Other near miss or incidents that are non-reportables occurred as follows:

- Quality – cross contamination
 - o Minor amounts of caustic were found in the glycol piping that is used for clearing ship loading arms at the completion of marine loading
 - o The dedicated nitrogen hose had likely been contaminated with minor amounts of caustic due to leaking valves and in turn exposed the glycol piping to minor amounts of caustic
 - System was flushed & tested without issue
 - In future, dedicated product hoses for use with N2 system clearing will be used

In March Univar successfully passed a Transport Canada railcar owner audit that reviewed all requirements & responsibilities associated with owning a fleet of railcars. It was done entirely remotely over a two-week period.

Upcoming site projects include Track Maintenance work, internal tank inspection with some coating upgrades, and dock upgrade work (which will include seismic improvements). In addition, the site is planning to add a small storage track accommodating up to 8 cars to facilitate railcar maintenance, CN delivery swings, and some small amount of throughput increase.

COVID 19 challenges continue with meetings and tool box talks being held outside and/or via computer. Visitors to the site continue to be extremely limited.

The site was able to accommodate a Capilano University film crew however, with a small shoot being coordinated at an operational quiet time for the site, completely outdoors, and in a non-restricted area. The site was please to be able to assist the students.

Finally, Univar would like to welcome Raman Mangat in the newly created role of Marine Technical Specialist. He will be responsible for EHS, Quality & Security. He comes to us from an excellent marine regulatory and operational background, and the intent is that he will be the site's back up team member for the CAP. He joins us tonight for the first time.

Robin Lee (she/her/hers)

Terminal Manager

Univar Solutions

P: 604-904-3002

M: 604-209-8584

F: 604-688-2679

Current status / Schedule

- Refinery running at 100% capacity
- Semi-annual shutdown scheduled for May 31 – June 11

Health, Safety and Environment

- Facility continues to operate within permitted approvals
- Facility has operated lost time injury free since the last CAP report
- No positive cases of COVID-19 to report for facility staff, visitors or contractors. Terrapure continues to operate following all Provincial and Federal COVID-19 guidelines regarding worker and public safety.
- 1 minor incidents to report over the period:
 - Level 0 (<1,000L into containment) spill, April 16. Valve on a distillate oil tank did not close properly, partially obstructed by solidified polymer. When the polymer softened during the heat of the day, a stream of distillate oil ran out into the containment compound. Once the spill was detected, the oil was directed to a collection sump and pumped back to a used oil tank.

Training and Audits

- No Audit activity for this period
- Training over Q1 focused on online courses as well as in person courses including forklift training, First Aid and H2S Alive

News

After six years of growth and expansion, Terrapure has signed an agreement to sell its Environmental Solutions business and Oil Recycling Services business (includes the North Vancouver refinery) to GFL Environmental. The sale is subject to customary closing conditions and we currently expect this process to take several months and for the deal to close in Q3 or Q4.

GFL Environmental is the only major diversified environmental services company in North America offering services in solid waste management, liquid waste management, and infrastructure development. The North Vancouver Refinery is a very strong strategic fit for GFL as they are currently Terrapure's largest competitor in the Western Canada used oil collection market.