

**Chemtrade Logistics-ERCO Worldwide-Univar Solutions-GFL Environmental
North Shore Community Advisory Panel (CAP)**

MEETING SUMMARY NOTES

Wild Bird Trust, 2649 Dollarton Highway, North Vancouver

Meeting 6:00 pm to 8:00 pm

Tuesday, June 14, 2022

Attendance

Owen Horn, Chemtrade Logistics
Dale Bossons, Chemtrade Logistics
Robin Lee, Univar Solutions
Brian Scott, ERCO Worldwide
Mark Maharaj, ERCO Worldwide

Ryan Benson, NSEM
Andrew Van Eden, Tsleil-Waututh
Nation
Babs Perowne, NV Can
John Miller, Lower Capilano Residents
Association
Barbara Rennie, Blueridge Community
Association
Lianne Payne, Wild Bird Trust
Stuart Porter-Hogan, Maplewood Area
Community Association (MACC)
Reverend Bob Bailey, Maplewood Area
Community Association (MACC)
Corrie Kost, Resident
Dave Mair, Resident
Sarah Dal Santo, Tsleil-Waututh Nation
Caroline Jackson, DNV

Regrets

Steve Spence, GFL Environmental
Arielle Dalley, DNV

Stuart Meyer, Miles Industries
Alex Adams, Blueridge Community
Association

1. Welcome and Introductions

Members introduced themselves and welcomed new attendees.

2. Review of April CAP meeting minutes

Members reviewed the April CAP meeting minutes. No edits to the original draft sent out after the meeting were noted. The facilitator will finalize the April meeting minutes and send to DNV to post on their CAP information webpage.

3. **Presentation:** Tsleil-Waututh Nation Climate Change Resilience Planning and DNV Climate Action Work

Tsleil-Waututh Nation Climate Change Resilience Planning presented by Sarah Dal Santo, Climate Action & Sustainability Manager, Public Works Department of TWN

- Introduction to Tsleil-Waututh Nation – means “People of the Inlet”. TWN have protected, governed and stewarded the lands and waters in and around Burrard Inlet since time immemorial.
- Tsleil-Waututh Nation Departments: Community Development, Economic Development, Health & Wellness, Administration, Public Works (PW), Treaty Lands & Resources (TLR)
- Two climate change streams:
 - PW - On ground climate change action (planning & capital works) to build TWN community resilience to climate change
 - TLR - Strategic/higher level work to inform climate change policy & decision-making that respects TWN Indigenous rights, title and stewardship laws
- TWN (PW) Climate Change Resilience Planning Process:
 - Vulnerability Assessment (2019)
 - Climate Action Plan (2020)
 - GHG Baseline Inventory (2020)
 - Collaborative Shoreline Visualization and Conceptualization (2021)
 - Climate Change & Community Health Plan (2021)
 - Community Energy Plan (2022)
 - Shoreline Adaptation Pilot Project (2023+)
- Climate forces and hazards that may impact TWN:
 - Sea level rise – coastal flooding and erosion, loss of intertidal area
 - Increased precipitation – creek flooding and erosion, overland flooding
 - Temperature changes – extreme heat, wildfire, air quality concerns
 - Ocean changes – ocean acidification, algal blooms

Shoreline Adaptation & Visualization project:

Meeting Summary Notes – June 14, 2022

2

North Shore Community Advisory Panel (CAP)

- Vision and principles for shoreline adaptation
- Collaborative approach with different agencies, such as Wild Bird Trust, the Port, DNV, Environment Canada, etc. informing opportunities, looking for common objectives/visions for the shoreline.
- Study area: Maplewood Mudflats all the way to Cates Park/Whey-ah-Wichen.

Some key principles to guide shoreline adaptation:

- Food security – critical issue, hope to continue the shellfish harvest in the future.
- Knowledge – incorporating Indigenous knowledge, science, technologies and stewardship into shoreline adaptation.

Suite of shoreline adaptation tools, e.g., oyster gardens, habitat islands, sediment fences, etc.

Next steps: Further engagement in Fall, planning for shoreline adaptation pilot project.

Questions

1) Who would do the work proposed? Volunteers?

Detailed design and construction will need professional engineers and contractors. As much as possible, TWN community members will be involved in informing the design, site planning, implementation, stewardship, planting and monitoring. Opportunity to reconnect TWN relationship with the shoreline. Coastal flooding and erosion protection benefits plus improving access to the shoreline and facilitating water quality improvements.

2) What is the timeline to complete the pilot and implement whole scale?

Implementing a pilot project will involve a phased approach – planning, design, construction, planting and monitoring. Will take several years.

3) Is the project learning from other case studies and solutions?

Yes. We have examined different case studies across the Lower Mainland (e.g. Boundary Bay), other areas of BC and in other regions. Also, TWN has already done a lot of science and monitoring in Burrard Inlet.

4) What is the impact of the new sewage treatment plant?

The new tertiary waste treatment plant will help reduce pollutants and improve water quality in Burrard Inlet.

5) What's causing the acidification?

Increasing levels of CO₂ levels in the atmosphere (from global warming and climate change) is contributing to lower pH and acidity in Burrard Inlet (which has a lower pH already). Ocean acidification makes it challenging for shellfish to access carbonates needed to form healthy shells.

6) What is the pH level?

5.5 – Answer from CAP member

DNV Climate Action Work presented by Caroline Jackson, Manager, Climate Action, Natural Systems and Biodiversity, District of North Vancouver

The District declared a climate and ecological emergency in 2019 and we are moving policies and actions forward towards achieving three main goals:

- Reduce emissions as a corporation and as a community
- Protect and enhance biodiversity
- Improve our community's resilience to climate change

There are six pathways to these goals:

- Corporate leadership
- Low carbon buildings
- Low carbon transport
- Zero waste
- Healthy ecosystems
- Climate adaptation

The 2017 climate adaptation strategy has 12 objectives and supporting actions.

Adaptation initiatives include:

- North Shore Sea Level Rise Strategy
A 1 metre rise is anticipated by 2100

There will be impacts to infrastructure, business, environment, social services, etc. and action needs to be taken through proactive planning.

The Sea Level Rise Strategy includes an Adaptation Measures Toolkit with 26 adaptation measures tailored to the North Shore. The Strategy has also identified 9 areas on the North Shore for future comprehensive adaptation planning zones.

- Geohazard and stormwater management

To capture debris and prevent flooding.

Creek daylighting at Argyle Secondary is an example of a nature-based solution to restore ecological function.

- Wildfire protection program

Likelihood of wildfires is low, but consequence would be high.

2007 plan included 52 recommendations and was updated in 2020.

- Resilient buildings

Policy development underway looking at air filtration, cooling for residential dwellings.

- Emergency preparedness and resilience (NSEM) – NSEM office working to increase preparedness and resilience across the North Shore.

- Urban tree canopy project

Email iwantatree@dnv.org for a free tree. Program runs in the fall. Videos can be found on the website for planting instructions.

Questions

1) Are there reports available?

Yes. They can be found here: [Climate action and environment | District of North Vancouver \(dnv.org\)](#)

2) Is DNV developing resources around the heat dome impacts in the plan?

Yes – NSEM has developed a North Shore Extreme Heat Response Plan Strategy that incorporates social policy considerations and resiliency adaptations, e.g. public education and messaging, establishing outdoor and indoor cooling spaces, working

with partners for outreach and wellness checks, etc.

A CAP member noted that heat pumps can have an alternate use for cooling.

3) Would it be possible to have a door-to-door campaign in Maplewood for the next heat dome?

NSEM is working on a strategy around public messaging, although any individual wellness checks would likely be carried out by community organizations for their clients. The province is also enhancing its alert systems / heat advisories to increase public awareness, including delivery of “broadcast intrusive” messages directly to cell phones in the case of an Extreme Heat Emergency level event (i.e. Heat Dome). There will be heat advisories in this case.

4. NSEM Update

Ryan Benson provided the following update:

Responses

- Silverlynn – fire in subsidized seniors complex; 30 currently displaced for up to a year; many systemic gaps identified i.e. ESS only for 3 days, some extensions but finite; ****ALWAYS GET INSURANCE!
- Seasonal Readiness session on May 4, municipal and agency partners heard subject matter expert presentations on potential hazards through the upcoming months, discussed and reviewed collaborative response planning

Volunteers

- Vaccination policy lifted

Staff

- Hiring for a Manager of Operational Readiness still in progress;
- Planning Coordinator at NSEM, Simon Als, is also finishing up his university thesis on the side and wrote about the CAP for this; investigating how risk is perceived amongst members, and how we at NSEM can inform about hazards; hoping to join for a meeting later this year and present his findings

What's coming up

Public Education

- Preparation of (limited) public education materials in Farsi / Cantonese
- Re-establishing in-person community public education events – several taking place in May / June with a variety of community groups

- Establishment of Eventbrite (self-registration) monthly NSEM online presentations for the general public
- Creation of Extreme Heat public presentation / materials; one scheduled for Wednesday, June 15 at 7PM (to register: nsem.ca/events)
- Continual promotion of Alertable emergency notification system

Heat

- Flurry of activity
- BC Launched Heat Alert Response System (HARS) PreparedBC guide
- NSEM issued a 2021 After Action Report, then drafted Response, Work and Communications plans
- Also working with partners (libraries, Rec, outdoors (parks, shipyards); community agencies)
- Extreme Heat communications products underway, North Shore specific; trifold brochure with broad set of information on preparedness and response, including heat illness symptoms, map of key cooling sites; poster with brief snapshot (main tips, symptoms); postcard, primarily for front line workers (parks, homeless, FD/PD/EMS) to have something small to share that can be portable, just symptoms and map
- Web will be primary North Shore resource for Extreme Heat events, with authoritative and trusted third party resources – preparedness, response, health, adaptation, education, target audiences (seniors, youth, Indigenous, multicultural), etc.

5. Update on Recently Submitted Development Applications

- There have been no new significant development applications in the Maplewood area and there are no updates to share on existing applications.
- However, the District is conducting engagement on housing options in single family neighbourhoods.
If you would like to find out more or participate, you can do so by visiting the website at: [DNV.org/housing-diversity](https://dnv.org/housing-diversity)

6. Reports from the Companies

a) Chemtrade Logistics

Owen Horn said there were no new Safety, Process Safety (ie. loss of containment of hazardous material), Environmental, Security or Transportation issues to report. The re-write of Chemtrade's ERP is in progress, with a draft copy anticipated to be ready for review soon. Chemtrade had an audit by its insurance provider with a revised Chlor-Alkali specific protocol.

Meeting Summary Notes – June 14, 2022

7

North Shore Community Advisory Panel (CAP)

There has been no change in status regarding COVID-19 with masks still required on site. Chemtrade received a Notice of Violation from Metro Vancouver regarding misreporting scrubber inspections as they hadn't submitted the correct forms. During the turnaround, there was an exceedance from the temporary portable testing unit for zinc at 30 ppb. This is not unusual as the Burrard inlet can sometimes be higher than 20 ppb which makes up the bulk of Chemtrade's effluent.

The turnaround was strong with no injuries and ended earlier than scheduled despite long lead times for materials, labour issues and other challenges. Pricing for all Chemtrade's products remains strong. The plant is running at maximum production and will continue to do so during the summer.

b) ERCO Worldwide

Brian Scott reported that ERCO employees and contractors continue to work safely. On June 14, 2022, NV employees have worked 709 days since last Recordable safety incident (July 7/20) and 4028 days since the last Lost Time Accident (Jan. 05/11).

ERCO NV continues to ensure WorkSafe BC communicable disease guidelines are followed by all employees, contractors, and visitors. Mask wearing stopped last week.

From June 6-10, ERCO NV plant participated in the companies "Safety Week" with activities including guest speaker Dr. Robert J. Cannon, Ergonomics and Body Mechanics Specialist.

It has been 390 days since last Reportable Environmental incident (May 21/21).

In April, the plant completed a 5-day shutdown coinciding with a BC Hydro power outage on the main transmission line 60L90 on April 25 and 26. During April and May, the plant operated at 70% of full load capacity due to high BC Hydro power costs.

ERCO Worldwide Sodium Chlorate Announcement April 28, 2022: "ERCO plans to actively pursue the sale of its North Vancouver, BC land on which its 100,000 MTPY sodium chlorate facility operates. ERCO will evaluate options concerning a sale of the land, based on the interest received."

A CAP member asked what the new uses of the land would be. Brian responded that there would be environmental assessments. There may be an option for ERCO to lease the land back from the buyer and continue to run the plant. Owen noted that Chemtrade also has land for sale, but it doesn't impact the plant as they are selling everything adjacent to the Port land.

c) Univar Solutions

Robin Lee reported that there have been 395 days since the last personal safety recordable, and 4181 days since the last DAWC (as of end of day June 13, 2022).

There have been no reportable EHS incidents since the previous CAP meeting.

Unplanned events reported include:

- near miss - caustic truck driving off scale prematurely – procedural root cause
- near miss - caustic car home shop stencil missed by one layer – procedural root cause
- near miss - valve position following maintenance incorrect – procedural root cause

There was a safety (first aid) incident when an electrician's hand was pierced by a wire. In the future, tape will be used to secure loose strands and any new electrician training will include communication of severity of hazard.

Equipment damage occurred to the barge dolphin infrastructure due to how Seaspan set the lines. A root cause investigation was conducted with Seaspan to review appropriate lines set up and how to prevent future issues.

Planning is still in process for summer maintenance projects. The site has been steady for some products, but irregular for others, possibly due to remaining global supply issues. They conducted longshoremen and Marine Surveyor update training. A new Marine Technical Specialist has been hired and begins on site on June 27. Robin will introduce him at the September CAP meeting.

COVID-19 challenges are continuing to ease with more visitors and on-site meetings. Univar Solutions globally has introduced official days off for staff to volunteer and support local communities.

d) GFL Environmental

Steve Spence was unable to attend the meeting. The report was provided after the meeting.

The refinery is currently running at 100% capacity, with a semi-annual shutdown completed between April 20 and May 6.

The facility continues to operate within permitted approvals. The second quarter groundwater and effluent testing was completed and meets the permitted specification. Metro Vancouver air emission permit was updated and converted to GFL.

The facility has operated lost time injury free since the last CAP report.

Forklift training updates are on-going over a period of 3 sessions and will end on June 22. Justice Institute fire fighter training has been booked for 3 sessions in May-June. Fall protection equipment training was completed on June 20.

7. CAP Evaluation

Due to time constraints, the facilitator will send out the evaluation via email as was done last year.

8. Meeting Close

The meeting ended at 8:20pm.

Andrew Van Eden noted it would be his last meeting as Nini Samra, TWN Emergency Management Coordinator, will be joining future meetings.

The next meeting will be held in September 2022. Details will be communicated to CAP members in early September.



Community Advisory Panel (CAP) June 14th Briefing Notes

Responsible Care – Safety, Security, & Environmental

- No new safety issues to report
- Re-write of our ERP continues with a draft copy being prepared and ready for review soon
- We had an audit by our insurance provider with a revised Chlor-Alkali specific protocol

Covid-19

- No change in status. Masks are still required.

Process Safety

- No new process safety incidents to report

Environmental

- We had a Notice of Violation from Metro Vancouver regarding misreporting scrubber inspections
- During the turnaround we had an exceedance from our temporary portable testing unit for Zn at 30 ppb. This is not unusual as the Burrard inlet can sometimes be higher than 20 ppb which makes up the bulk of our effluent.

Security

- No new security issues

Transportation

- No new transportation issues

Plant Operations

- We had a very strong turnaround with no injuries, we came back up several days ahead of schedule, this despite materials long lead times, labour issues, and other challenges

- Pricing continues to be very strong for all three of our products
- The plant is running at maximum production and will be throughout the summer



ERCO Worldwide

ERCO Worldwide Update - (since last CAP meeting on April 12, 2022)

Safety

- ERCO employees and contractors continue to work safely. On June 14th, 2022, NV employees have worked 709 days since last Recordable safety incident (July 7/20) & 4028 days since our last Lost Time Accident (Jan. 05/11).
- ERCO NV continues to ensure WorkSafe BC communicable disease guidelines are followed by all employees, contractors, and visitors.
- June 6-10th ERCO NV plant participated in the companies "Safety Week" with various activities throughout the week including guest speaker Dr. Robert J. Cannon – Ergonomics and Body Mechanics Specialist.

Environmental

- It has been 390 days since last Reportable Environmental incident (May 21/21).

Operations

- ERCO NV plant has run well since we last met on April 12th.
 - The plant has completed a 5-day shutdown in April coinciding with a BC Hydro power outage April 25, 26 on the main transmission line 60L90.
- During the months of April and May the plant operated at 70% of full load capacity due to high BC Hydro power costs.

Miscellaneous

- ERCO Worldwide Sodium Chlorate Announcement April 28, 2022
"ERCO plans to actively pursue the sale of its North Vancouver, BC land on which its 100,000 MTPY sodium chlorate facility operates. ERCO will evaluate options concerning a sale of the land, based on the interest received."

Brian Scott, P.Eng.

Plant Manager, North Vancouver

Meeting Summary Notes – June 14, 2022

13

North Shore Community Advisory Panel (CAP)

Univar Solutions report – June 14, 2022

Robin Lee reported that there have been 395 days since the last personal safety recordable, and 4181 days since the last DAWC (as of end of day June 13th, 2022).

EHS

- There have been no reportable EHS incidents since the previous CAP meeting.
- Unplanned events reported include
 - near miss - caustic truck driving off scale prematurely – procedural root cause
 - near miss - caustic car home shop stencil missed by one layer – procedural root cause
 - near miss - valve position following maintenance incorrect – procedural root cause
- Safety
 - First aid – electrician hand pierced by wire
 - In future tape will be used to secure loose strands and communication of severity of hazard will be part of any new electrician training
- Releases
 - Glycol release (approx. 1L) during last rail to ship transfer due to passing valve on railcar
 - Issue communicated to supplier
- Equipment Damage
 - Barge dolphin infrastructure damage
 - Procedural root cause with how Seaspan set the lines
 - RCI (root cause investigation) conducted with Seaspan to review appropriate lines set up and how to prevent future issues

Operational

- Steady for some products, but irregular for others
 - Potentially still global supply chain issues
- Still planning for summer maintenance projects
- Longshoremen and Marine Surveyor update training has taken place

- New Marine Technical Specialist hired and begins June 27th at site – will introduce him at the September meeting

Community

- Univar Solutions globally has introduced official days off for staff to volunteer and support local communities

COVID 19 challenges continue to ease with more visitors & on-site meetings.



Current Status / Schedule

- Refinery running at 100% capacity
- Semi-annual shutdown completed April 20 - May 6

Health, Safety and Environment

- Facility continues to operate within permitted approvals;
 - 2nd quarter groundwater and effluent testing completed, meets permitted specification
- Facility has operated lost time injury free since the last CAP report
- Metro Vancouver air emission permit updated and converted to GFL

Training and Audits

- Forklift training updates on-going over a period of 3 sessions, completing June 22
- Justice Institute fire fighter training booked for 3 sessions May-June
- Fall protection equipment training completed June 20