

*11:00 A.M. to 1:00 P.M. EST, Monday June 14<sup>th</sup>, 2021 – WEBEX*

**Present:**

|                       |          |                  |          |
|-----------------------|----------|------------------|----------|
| Jason Sherwood, Chair | Atlantic | Mike Williamson  | Hubb-Cap |
| Terry Dunn            | Atlantic | Kamran Derayeh   | AMD      |
| Dennis Park           | Atlantic | David Newbigging | AMD      |
| Randy McDonald        | Atlantic | Byron Nelson     | Leland   |
| Jason Johnston        | Armtec   | Hank Mathews     | CC       |
| Sam Mitra             | Armtec   | Mike Mounts      | Valfilm  |
| Liz Bouchard          | Armtec   | Todd Gray        | ACI      |
| Scott MacRae          | Armtec   | RJ Fryan         | ACI      |
| Jason Sutton          | Armtec   | Mike McGough     | NCSPA    |
| Bruce Matheson        | Frontier | Diana Brooks     | NCSPA    |
| Chris Flickinger      | Frontier | Ray Wilcock      | CSPI     |

**1. AISI Antitrust Guidelines - Ray**

Ray presented the AISI Antitrust Guidelines that are in effect for all CSPI meetings.

**2. Welcome and Opening Remarks – Jason**

Jason opened the meeting and welcomed all members. Attendance was taken and is recorded above.

**3. Review Minutes from November 23<sup>rd</sup>, 2020 and Approve**

Minutes were reviewed and accepted. A motion for approval was made by **Mike Williamson**, second by **Bruce Matheson**.

**4. Strategic Plan Overview**

**a) Market focus - DOT and key municipalities**

Covered under the KPI results below.

**b) Educate colleges and university students (in person / webinars)**

Covered under the KPI results below.

### c) Review top 10 reasons – why steel?

Discussion:

Reason #1: Add comparison to Concrete study

Reason #3: Move 1<sup>st</sup> arrow to intersect pipe

Drop 2<sup>nd</sup> arrow into granular

Reason #4: Space between 900 & MM, 1500 & MM

Change MM to mm

Change 4.3% of to 95.7% less

Add Carbon Comparison to RCP

Reason #5: Space between number & mm

Reason #8: Bury not Burry

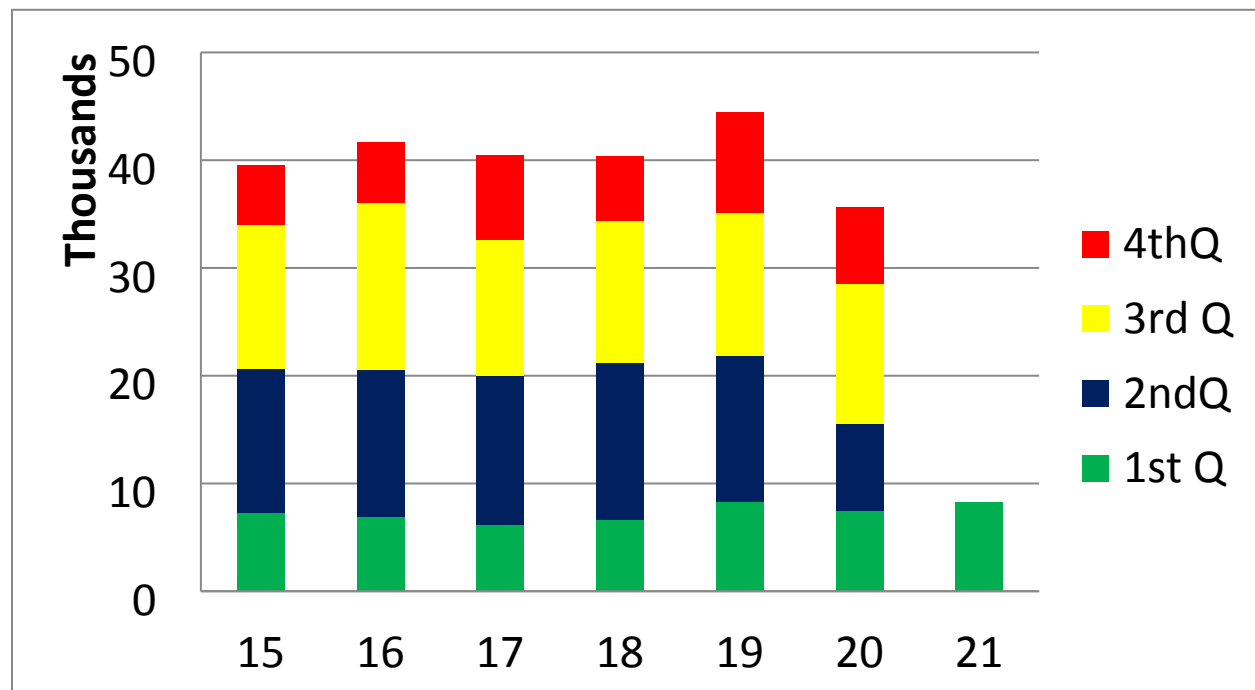
Other: Have Matt Lloyd polish up slides giving a more professional / consistent look

Use for education

## 5. Key Performance Indicators (KPI)

### a) Tonnage reporting

CSP Tons 2015 – 2021 by Q



## **b) DOT & Municipality Update**

- NF** New Chief Engineer appointed. Provided input on standards in March. Updates included polymer and NZF3000 bolts. Until published materials will be included in the addendums on future tenders.
- PEI DOT** Standard proposals sent in 2020. Accepted Galvanized S.P. in bridge standards and Aluminized Type II in culverts. Polymer laminated and coated will be in next update.
- NB** Serge Gagnon has requested polymer laminated / coated projects within NB. Have reached out to members for projects.
- NS** Latest standards published include polymer coated plate.
- MTQ** Drafted recommendations for Tome III – polymer 75 years-service life. Working with a flexible pipe consortium group (CSPI, ADS & Soleno). Translation of bolt test report into English.
- MTO** Introduced a new website to coordinate with all partners which CSPI participated in Beta trials.
- MIT** Recommendations submitted – Danielle Salem now in charge. Future discussions to take place.
- Kawartha Lakes ON** Presented storm sewer on March 17<sup>th</sup> with 10 regional staff attending.
- Hamilton ON** Responded to city's refusal to allow SRP in standards. Work with AMD.
- Calgary** City confirmed that CETA has had no impact on product approvals at this time. (Canadian / European Trade Agreement)

## **c) Key Market Product Standards Submissions**

### **DOT's**

| Owner | Gal. CSP | AL2 CSP | PL CSP | Gal. SP | TP SP | HDPE   | RCP | Certification | Value Eng. |
|-------|----------|---------|--------|---------|-------|--------|-----|---------------|------------|
| NL    | No       | Yes     | YES    | Yes     | YES   | <600mm | Yes | YES           | Yes        |
| PEI   | Yes      | YES     | No     | YES     | No    | Yes    | Yes | Submitted     | No         |
| NS    | Yes      | Yes     | No     | Yes     | YES   | Yes    | Yes | Submitted     | Yes        |
| NB    | No       | Yes     | No     | Yes     | No    | Yes    | Yes | Submitted     | Yes        |
| QC    | Yes      | Yes     | Yes    | Yes     | Yes   | Yes    | Yes | Yes - CSP     | Yes        |

|    |     |     |     |     |     |     |     |     |     |
|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| ON | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| MB | Yes | No  | No  | Yes | No  | ?   | Yes | No  | Yes |
| SK | Yes | YES | YES | Yes | YES | Yes | Yes | Yes | Yes |
| AB | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| BC | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| NT |     |     |     |     |     |     |     |     |     |
| YT |     |     |     |     |     |     |     |     |     |
| NU |     |     |     |     |     |     |     |     |     |

### **Municipalities**

| Municipality                           | Gal. CSP   | AL2 CSP   | PL CSP    | HDPE/<br>PVC           | RCP        | Value<br>Eng. |
|----------------------------------------|------------|-----------|-----------|------------------------|------------|---------------|
| Vancouver<br>Storm Sewer<br>Culverts   | No<br>No   | No<br>No  | No<br>No  | ?<br>?                 | Yes<br>Yes |               |
| Langley                                | Follow Van |           |           |                        |            |               |
| Victoria                               |            |           |           |                        |            |               |
| Edmonton<br>Storm Sewer<br>Culverts    | No<br>Yes  | No<br>No  | No<br>No  | PVC<br>PVC             | Yes<br>Yes |               |
| Calgary<br>Storm Sewer*<br>Culverts    | Yes<br>Yes | Yes<br>No | Yes<br>No | PVC & PE<br>App. Req.  | Yes<br>No  |               |
| Saskatoon                              |            |           |           |                        |            |               |
| Regina<br>Storm Sewer<br>Culverts      | No<br>Yes  | No<br>Yes | No<br>Yes | PVC<450mm<br>HDPE      | ?<br>Yes   |               |
| Winnipeg                               | Pending    | No        | No        | PVC<900mm              | Yes        |               |
| Thunder Bay<br>Storm Sewer<br>Culverts | No<br>No   | No<br>Yes | No<br>No  | PVC<375mm<br>HDP<900mm | Yes<br>No  |               |
| Sudbury                                |            |           |           |                        |            |               |
| Toronto<br>Storm Sewer<br>Culvert      | No         | No        | No        | PVC                    | Yes        |               |
| Hamilton<br>Storm Sewer<br>Culvert     | No<br>Yes  | No<br>Yes | No<br>No  | PVC<br>HDPE            | Yes<br>Yes |               |
| London                                 | No         | No        | No        | Yes                    | Yes        |               |
| Windsor                                |            |           |           |                        |            |               |

|                                     |           |           |           |                  |            |  |
|-------------------------------------|-----------|-----------|-----------|------------------|------------|--|
| Storm Sewer Culverts                | Yes<br>No | Yes<br>No | Yes<br>No | Yes<br>PVC & PE  | Yes<br>Yes |  |
| Reg. Waterloo Storm Sewer Culverts  | No<br>No  | No<br>No  | No<br>No  | PVC<br>Yes<600mm | Yes<br>Yes |  |
| St. Catharines Storm Sewer Culverts | No<br>Yes | No<br>Yes | No<br>Yes | Yes<br>Yes       | Yes<br>Yes |  |
| Kingston                            | No        | No        | No        | PVC              | Yes        |  |
| Ottawa                              |           |           |           |                  |            |  |
| Oshawa                              |           |           |           |                  |            |  |
| Montreal                            |           |           |           |                  |            |  |
| Sherbrooke                          |           |           |           |                  |            |  |
| Quebec City                         |           |           |           |                  |            |  |
| Trois- Rivieres                     |           |           |           |                  |            |  |
| Saguenay                            |           |           |           |                  |            |  |
| Fredericton Storm Sewer Culverts    | No<br>No  | No<br>No  | No<br>No  | Yes<br>No        | Yes<br>Yes |  |
| Moncton                             |           |           |           |                  |            |  |
| Halifax Storm Sewer Culverts        | No<br>No  | No<br>No  | No<br>No  | Yes<br>HDPE/PE   | Yes<br>Yes |  |
| St. Johns                           | No        | No        | No        | Yes              | Yes        |  |

\* Mains only, requires approval from Water Resources on a case-by-case basis

**d) Number of Students/Institutions presented in last 12 months**

| <b><u>Date</u></b> | <b><u>University / College</u></b> | <b><u># of Students</u></b> |
|--------------------|------------------------------------|-----------------------------|
| Nov 10th           | OGRA Storm Sewer School            | 20                          |
| Nov 27th           | SAIT College in Calgary            | 10                          |
| Dec 3rd            | Western University ON              | 40                          |
| Jan 25th           | University of BC                   | 100                         |
| Feb 1st            | BCIT BC                            | 10                          |
| Feb 3rd            | Lakehead University T.B.           | 12                          |
| Feb 3rd            | York University ON                 | 80                          |
| Feb 4th            | University of BC (Forestry)        | 16                          |
| Feb 8th            | Niagara College ON                 | 14                          |
| Feb 8th            | Sask Polytech SK                   | 33                          |
| Feb 23rd           | University of Waterloo ON          | 105                         |
| Feb 25th           | Ryerson University ON              | 65                          |
| Mar 1st            | St. Clair College ON               | 30                          |
| Mar 2nd            | RMC University ON                  | 10                          |

|          |                          |    |
|----------|--------------------------|----|
| Apr 6th  | University of Guelph ON  | 23 |
| May 21st | University of Windsor ON | 60 |

**16 Guest Lectures      628 Students**

## **6. Assessment**

### **a.      Feedback from DOT's & Municipalities**

| <b><u>DOT</u></b> | <b><u>Date</u></b> | <b><u>Comments</u></b>                                                                                                                                                                                                                                                                                    |
|-------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NL                | Mar 2021           | New Chief Engineer appointed. Provided input on standards in March. Updates included polymer and NZF3000 bolts. Until published materials will be included in the addendums on future tenders.                                                                                                            |
| PEI               | Jun 2021           | Standard proposals sent in 2020. Accepted Galvanized S.P. in bridge standards & Aluminized Type II in culverts. Polymer laminated and coated will be in next update.                                                                                                                                      |
| NS                | Dec 2020           | Latest standards published include polymer coated plate.                                                                                                                                                                                                                                                  |
| NB                | Nov 2020           | Serge Gagnon has requested polymer laminated / coated projects within NB. Have reached out to members for projects.                                                                                                                                                                                       |
| MTQ               | May 2021           | Drafted recommendations for Tome III – polymer 75 years-service life. Working with a flexible pipe consortium group (CSPI, ADS & Soleno). Translation of bolt test report into English.                                                                                                                   |
| MTO               | Mar 2021           | Introduced a new website to coordinate with all partners which CSPI participated in Beta trials. Will reach out to new management.                                                                                                                                                                        |
| MIT               | Nov 2020           | Recommendations submitted – Danielle Salem now in charge. Future discussions to take place.                                                                                                                                                                                                               |
| SK                | Jul 2020           | Accepted material updates (A2 and PL) to standards. First PL project released. Outstanding items include: 1) 2010 report on maximum lengths of CSP, 2) study on unbalanced skews C.D. Smith's book                                                                                                        |
| AT                | Oct 2020           | Bridge Fabrication Inspection Guidelines to include an appendix for diameters >1500mm. AT accepted the majority of our recommendations.                                                                                                                                                                   |
| BC                | Jul 2020           | Updates accepted from G401 to CSP & SPCS standards. Letter to David Woolford & Gary Farnden covering "Future direction of Proprietary Structures". Offered assistance in updating the process for all buried plate structures. Will conduct a conference call with David and members to discuss progress. |

## Municipality Feedback

| <u>Municipality</u> | <u>Date</u> | <u>Comments</u>                                                                                                                                                                                                                                                |
|---------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| St. John's NL       | Mar 2020    | <i>"Our position at this time on CSP is that we will use structural plate for structures but have not moved towards using it for storm sewers or culverts."</i>                                                                                                |
| Halifax NS          | Sep 2019    | Refused our application (not interested). Subsequent follow ups have received zero attention. Sent letter to Mayor – heard from G.M. Evasive and dismissive and quite rude.                                                                                    |
| Fredericton NB      | Mar 2020    | Met with Jody Boone on Mar 11 <sup>th</sup> . Documents sent on March 22 <sup>nd</sup> . Follow up cancelled due to COVID.                                                                                                                                     |
| Hamilton ON         | May 2021    | Responded to city's refusal to allow SRP in standards. Work with AMD.                                                                                                                                                                                          |
| Kingston ON         | Jul 2020    | Product application sent. No response to date.                                                                                                                                                                                                                 |
| Windsor ON          | Dec 2019    | Application sent along with backup documents. Follow ups have received no feedback. Elevate.                                                                                                                                                                   |
| London ON           | Dec 2019    | Application sent along with backup documents. Informed that committee has not met yet. Followed up with Jane Fullick who passed it on to Marcus Schaum. Waiting to hear back. F/U.                                                                             |
| St. Catharines ON   | Dec 2019    | Application sent along with backup documents. No response from Dan Dillon who retired. Made contact with replacement, Anthony Martuccio. Waiting for response. F/U.                                                                                            |
| Thunder Bay ON      | Jul 2020    | Storm sewer presentation to Rick Harms and staff. AIL & Armtec attended. Positive feedback. Will f/u.                                                                                                                                                          |
| Waterloo Region ON  | Aug 2019    | Storm sewer presentation to the committee on May 14 <sup>th</sup> . Received email on Aug 30 <sup>th</sup> that our application had been denied. Sent email to William Kinnaird requesting a reason for their decision. Will be discussed in PPC/TAC meetings. |
| Welland ON          | Aug2020     | Storm sewer presentation to Marvin Ingebrigsten and staff. AIL & AMD attended. Well received. Suggested trial runs. Members to f/u.                                                                                                                            |
| Winnipeg MB         | Jul 2020    | Application and documents mailed on Dec 21 <sup>st</sup> 2018. Spoke with Tyler Phillips in Dec 2019, the committee has yet to review our application. Will follow up in 2021.                                                                                 |

| <u>Municipality</u> | <u>Date</u> | <u>Comments</u>                                                                                                                                                          |
|---------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Calgary AB          | Feb 2021    | City confirmed that CETA has had no impact on product approvals at this time. (Canadian / European Trade Agreement).                                                     |
| Vancouver BC        | Mar 2020    | Met with Dane Doleman on Mar 29 <sup>th</sup> . Standards are in disarray and are being consolidated. He asked if we would wait until published. Will follow up in 2021. |

**b) Storm sewer market issues – SWAT Team Feedback**

- **Objective: Develop a strategy to penetrate municipal storm sewer market.**
- **16 Members on the Team**
- **3 Meetings held thus far in 2021**

Ideas under discussion:

1. Target municipal associations and educate.
2. Significant campaign which includes elected officials. Political campaign targeted to cost savings and carbon footprint.
3. Using 3/8" neoprene gaskets to improve water tight joints.
4. Case studies – one-page snapshots of polymer projects. (CSP, SRP & SPCS)
5. Focus on municipalities where installations have taken place.
6. Reinforce time savings of installation and transportation versus RCP
7. Urban – polymer laminated only.

**c) Academic Education feedback**

Discussion on virtual lectures may be the way of the future. There may be a combination depending upon the university / college. Time will tell.

**7. Discussion / New Business / Old Business**

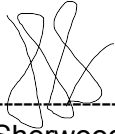
1. EPD – how to promote? Include Stan Lipkowski (AMD) to produce a one-page sales document. CSPI needs to lobby politicians at the highest level similar to the LEEDS program in buildings. To be discussed further at the committee level.

**8. Strategic Plan Adjustments**

No change to current strategy of targeting DOT's, Municipalities and education.

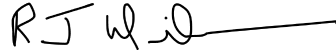
### **9. Adjourn & Next Meeting**

The meeting was adjourned at **12.22pm EST** with a motion from **Kamran Derayeh**, second by **Bruce Matheson**. The next meeting will be held in November 2021 at a place, date and time to be determined.



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Jason Sherwood  
Chair



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Ray Wilcock  
Executive Director