

SCREENINGS



The Publication of the **BC Stone, Sand & Gravel Association**

WINTER 2018

Inside this Issue

- 2** BCSSGA Committees
- 2** Membership Benefits
- 3** President's Message
- 3** BCSSGA Mission Statement
- 4** New Notice of Work Application Process
- 5** Legalized Marijuana:
One Month Post-Legalization
- 8** WorkSafe BC Case Study
- 13** Directive from the Chief Inspector
- 13** 2019 Meeting Schedule
- 15** Chief Inspector's Hazard Alert
- 17** Safety Committee Year-end Update
- 17** Membership Committee Year-end Update
- 17** Sustainability Committee Year-end Update
- 18** Government Relations Committee Year-end Update

Aggregates Build BC



COMMITTEE NAME	CHAIR	OTHER MEMBERS
Government Relations	Derek Holmes	Dani Miller, Barry McLean, Tyson Craiggs, Barry Chalmers
Financial Committee	Barry McLean	
Safety Committee	Barry McLean	Jeff Adams, Nikki Keith
Sustainability Committee	Kevin Tokarek	Dan Allard, Nelson Tome, Fred Shrimmer
Membership Committee	Erwin Spletzer	Jeff Adams, Kevin Spenst, Todd James

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Nikki Keith, CAIB – Vice President
nkeith@wmbeck.com or 604-437-6200

EMPLOYEE BENEFITS PLAN: WHAT'S IN IT FOR ME?

Our employee benefits program, with Tom Castonguay is now going into its fourth year with moderate success and your support is greatly appreciated... Thank you!

The program is a revenue generator for the BCSSGA and each time one of our members signs on, the BCSSGA receives a share of the ongoing commission. The additional revenues are a welcome supplement to membership fees and help fund operations and new initiatives.

In most cases your group can simply appoint 'Tom' as the broker on record of your existing plan—without changing insurance companies. Revenues are then redirected to support BCSSGA.

Your support is important as we take on more initiatives and is deeply valued.

SCREENINGS is published by the BCSSGA as a service to its members. Statements expressed herein do not necessarily reflect the views of the BCSSGA or its sponsors. To submit story ideas contact Cailey Murphy, Editor, info@gravelbc.ca

www.gravelbc.ca



President's Message

We've wrapped another year for the aggregate industry, despite the changes that inevitably occur with new municipal governments having been elected across much of British Columbia this October, and the new realities being faced by the industry under the impacts of the new Clean BC strategy that was recently announced by the provincial government.

Despite all this, the industry has prospered and grown in 2018, and safety remains a top priority for all aggregate producers and their suppliers for the balance of the year, into 2019 and beyond.

As I'm sure you know, the aggregate industry has long been and remains a vital part of British Columbia's economy. Without aggregate, you can't begin to build the projects that will move this economy forward.

I wanted to end with a note to you, your families and all of your co-workers, and wish you a wonderful Holiday Season, and a safe and prosperous New Year.

Thank you,

Derek Holmes, President
BC Stone, Sand and Gravel Association



Wishing You & Yours a Very Happy 2019!

BCSSGA Mission Statement

TO ENCOURAGE the formulation of Government policies that support investment in the sustainable development of British Columbia's Aggregate Resource.

TO PROVIDE a network for the effective exchange of information within the Aggregate Industry throughout British Columbia.

TO COMMUNICATE the economic importance and environmentally responsible nature of the Aggregate Industry to the Public and to Government.

TO PROMOTE the exchange of information between the various mining-related associations throughout Canada.

TO PROVIDE cost effective services to a broad range of Industry Members within British Columbia.



New Notice of Work Application Process Launched December 2018

Coming December 2018: a new and easier process to submit Notice of Work applications online for placer mining, aggregates and mineral exploration.

Applications submitted on the website – Natural Resource (NR) Online Services – are streamlined and self-serve from start to submission.

Notice of Work applications that have been submitted prior to the new process starting can be viewed through NR Online Services, but will continue to be managed through FrontCounter BC.

BENEFITS OF USING NR ONLINE SERVICES

NR Online Services will allow you to:

- Submit activity-based applications, bundled together, as a single package to government for review
- Apply for, track and pay online (both debit and credit) for your Notice of Work submissions
- Delegate others to submit on your behalf
- Store and retrieve documents and images that are associated with your application

NR Online Services website: portal.nrs.gov.bc.ca

HOW TO SET UP YOUR ACCOUNT

Before you can make online submissions you'll need to register for NR Online Services using a personal or business BCeID.

- A Business BCeID is required for organizations or their authorized representatives, doing business with the natural resource sector
- A Personal BCeID is required for individuals doing business directly with the government's natural resource ministries

BCeID website: bceid.ca

- If you have already registered for a Business BCeID, ensure that you have a business number, as this will be necessary to set up an account on NR Online Services. Business numbers are obtained through One Stop.

One Stop website: onestop.gov.bc.ca

WHAT'S BUNDLED TOGETHER?

The Notice of Work activity-based bundled submission on NR Online Services website will include:

- Explosive Magazine Storage and Use Permit (EMSUP)
- Occupant Licence to Cut (OLTC)
- Section 10 of the Water Sustainability Act (WSA) – Short Term Use of Water (previously known as Section 8)*

If required, stand-alone obligations for Notice of Work activities can also be submitted on NR Online Services. These include:

- Change Mine Manager
- Notification of Deemed Authorization
- Start-Stop work

**If a Water Permit, Land Use Authorization or a Section 11 of the WSA - Changes in and about a stream – is required, you will still need to apply with FrontCounter BC*

OTHER NR ONLINE SERVICES TOOLS

Already available on the website are the Explore features, to make sure you have the information and guidance you need to apply:

- Explore by Activity – receive guidance materials for your natural resource activity
- Explore by Location – see how land and resources are being used in a specific location in British Columbia using an interactive map

QUESTIONS?

FrontCounter BC offers you a single point of contact to assist with licences, permits, registrations and other authorizations required for natural resource activities in B.C.

- Call toll free **1-877-855-3222**
- Call outside North America **+1 778 372 0729**
- Send an email **FrontCounterBC@gov.bc.ca**
- Website: **www.frontcounterbc.gov.bc.ca**

If you have questions regarding registration for BCeID:

- Call toll free **1 888 356 2741**
- Contact BCeID using online form

LEARN MORE

B.C.'s natural resource ministries are working together to align legislation, processes, people and technology to allow for the integrated management of B.C.'s shared natural resources. NR Online Services is part of this work and is being supported by the Natural Resource Sector Transformation Secretariat.

- Send an email to the Secretariat:
nrpp@gov.bc.ca
- Visit the Natural Resource Permitting Project website:
www.gov.bc.ca/naturalresourcepermittingproject



Legalized Marijuana One month post-legalization

Submitted by the BC Construction Safety Alliance

When last we spoke with Dave Earle about the potential impact on the construction industry of legalizing recreational pot, he predicted that little, if anything, would change in terms of overall use.

As we approach the one-month mark of cannabis legalization in Canada, it appears that Earle's predictions were on the money. Outside of perhaps a slight uptick due to the novelty factor, those who have never used cannabis aren't starting, says the President of the BC Trucking Association, who is also an expert on impairment in the construction industry.

Neither has there been any change to Earle's standard message when it comes to marijuana (or anything else that impairs someone at work, for that matter): The most important thing employers can do is to have conversations about impairment in general and focus on how to support supervisors to effectively deal with problem situations.

Earle understands how difficult those conversations can be in an industry where impairment is in the culture. Alcohol, for example, has a long tradition of being used as a reward for a good day's work and to build camaraderie, he notes.

"But it's just a conversation, and it can give people the tools and confidence to try," he adds, stressing that it's also important to avoid overreacting if someone does admit to being impaired.

"If the immediate response is to send a worker home because they are impaired, then no one is going to admit anything if a supervisor asks about their behavior. Maybe a better way is to find something else that person can do for the day."

Overall, it's time for the industry to move forward by acknowledging the issue of impairment and challenging old assumptions, difficult as that might be at the beginning, says Earle, who has been speaking to contractors about marijuana and construction at various events, including BC Construction Safety Alliance's 2018 regional contractor events and Bridging the Gap (BTG) conference.

Earle related a story from BTG that sums up what he hopes will be the way forward for the industry: "A man was telling me that he is afraid to let his son watch TV or listen to the radio because of all the cannabis ads. So I asked him, 'Do you think he won't be exposed anyway?' By not addressing the issue, you allow others to have the conversation with your 14-year-old. It's the same for our industry. This, to me, represents the next level of OH&S, the last difficult piece: To engage with the workforce without cajoling or punishing."

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WorkSafe BC Case Study

Transcribed from an audio slideshow narrated by Nigel Corduff, WorkSafeBC Investigations Officer:

<https://www.worksafebc.com/en/resources/health-safety/slide-shows/worker-pulled-into-ground-by-quicksand-condition?lang=en>

At a city's sewer construction site, a quicksand condition developed, pulling a worker into the ground.

A new lift station was being built, lift stations facilitate the movement of wastewater by moving it from a lower to a higher elevation. The lift station was to be installed about seven meters below grade. The original engineering drawings for the project proposed an open cut excavation to a depth of just below the final construction. The city commissioned a geotechnical report, Report 1 for the project, but then put the project on hold. Years later when the project was restarted, the city commissioned report two, an updated geotechnical report that took into account report one.

To determine the soil layering, three boreholes had been drilled to 6.1 meters for report one and one borehole to 9.1 meters for report two. The reports gave the impression that down at the base of the proposed lift station, there would be a substantial layer of silt, and just above it, a layer of coarse sand. Groundwater was found at about 2.3 meters, making removal of water from the site, or what is known as dewatering, necessary.

The city provided project information including report two to Firm A, the prime contractor. The planning and construction decisions were based on the understanding of the understanding of the subsurface conditions provided by reports one and two. However, the boreholes had not gone deep enough, the data from them was inadequate for creating an effective dewatering plan. According to Groundwater Lowering in Construction: A Practical Guide, boreholes should penetrate to a depth of 1.5 to 2 times the depth of the excavation, based on the reports provided, Firm A conceived a dewatering and shoring concept using an open steel caisson instead of going with an open cut to full depth.

continued on page 10

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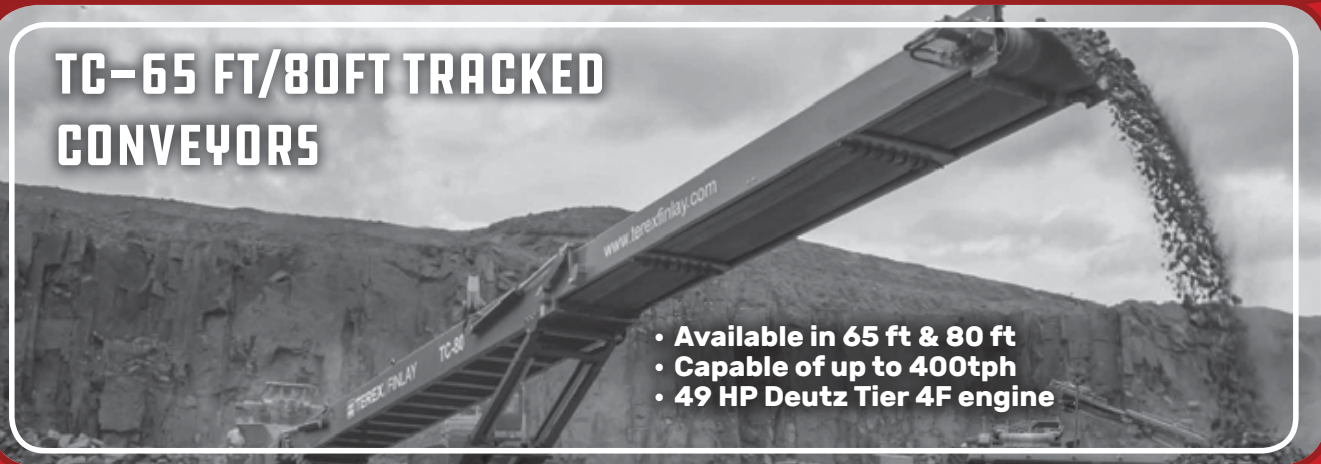
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An open cut was made to about two meters, just above the groundwater. Then a caisson, made up of three ring-shaped sections was driven into the soil, its walls created a barrier to prevent groundwater and soil from entering the sides of the caisson. The silt layer, being semi impervious, would reduce groundwater penetration from below. In addition to the caisson, the dewatering system had three other elements. Dozens of dewatering well points for pre-drainage, which is the lowering of groundwater levels before excavating. Two slotted steel pipes that were installed six meters deep for additional pre-drainage and to allow monitoring at the groundwater level. And two submersion pumps placed in the caisson to remove groundwater than leaked into it. The dewatering system pumped groundwater from the site continuously at high volume.

On the day of the incident, most of the soil had already been removed from inside the caisson. The submersion pumps were being run to lower the water level inside it. Crushed stone around the caisson provided a good walking surface. Worker 1 had been adjusting the pipes for the submersion pumps. Afterward, he saw that the water level had gone down to almost the bottom of the caisson. He took a step, his foot sank, and then he was pulled into the ground. Workers 2 and 3 saw the

water in the caisson start to “boil” and that the level of the water was rising quickly. They grabbed worker 1’s hands and arms, Worker 3 began to be pulled down, he released his hold on Worker 1, got out of the collapsing area, and then tried shoveling material away, but it kept collapsing into the hole. He then called 9-1-1 and went to shut down the pumps. Worker 4 arrived, minutes later, the top of worker 1’s head was about a meter below the surface, a lifting strap was looped under worker 1’s arms and tied to the dewatering manifold. Completely immobile, he was stretched between the strap and the weight of the material pulling him down. Eventually, he was able to wiggle his feet out of his boots and was free with the help of the other workers.

What led to this incident?

An aquifer is a naturally occurring underground layer of rock through which water can easily flow. Underneath the project area, there was not just one but two aquifers – an upper aquifer and a lower aquifer. Unlike the upper aquifer, the lower aquifer was under pressure.

The boreholes from reports one and two had detected the upper aquifer, but they hadn’t gone deep enough to detect the other one. As a result, the dewatering system was too shallow to reduce the water from the lower

continued on page 12

“We haven’t compromised on anything; why should you?”



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aquifer. Both aquifers had been identified in a third report, Report 3, but the city had failed to provide this report to firm A.

As the soil was removed from inside the caisson, a proportional amount of holding weight was removed from the soil at the bottom of the caisson. As this process continued, groundwater infiltrated the caisson, replacing the volume of removed soil. The water temporarily provided replacement holding weight for the lower-layer soils and also equalized the hydrostatic pressure between the caisson interior and the groundwater. Right before the incident, the water was pumped out of the caisson. This removed the holding weight and increased the hydrostatic pressure differential between the outside and the inside of the caisson. The pressure differential contributed to what happened next.

Several potential mechanisms or a combination of mechanisms may have led to the quicksand condition. One potential mechanism is that the caisson never fully penetrated the silt layer on the east side. Possibly because the layer was higher on the west side than the east and that the coarse sand layer bore the full force of the pressure differential deep below where the worker was standing, and it rapidly let go downwards.

Alternatively, the south layer may have heaved up, releasing localized pressure from the lower aquifer. Finally, the whole ground system may have been destabilized by the washing out of fine soil grains during the aggressive dewatering activities. Although the exact mechanism that resulted in the quicksand condition couldn't be determined. The differential between the hydrostatic pressure inside and outside the caisson was present in each case and was likely a factor.

Without the help of his coworkers, Worker 1's situation could have turned out much worse. His boots remain underground to this day. Whether your construction project is a lift station, a high rise, or other structure that relies on stable soil conditions. Know that the movement of groundwater can create potentially deadly hazards.

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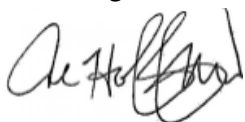
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**Directive from the Chief Inspector:
Handrail Height** Issued October 26, 2018

OBJECTIVE: To determine acceptable handrail height in the use of haul trucks in BC Mines.

The Chief Inspector of Mines has determined that haulage truck handrails that are designed and constructed to comply with (ISO 2867- Earth Moving Equipment Access System) are within the defined “standard handrail height” as outlined in the Health, Safety and Reclamation Code (Code) for Mines in BC. This design is therefore in compliance with the Code.



Al Hoffman, P.Eng Chief Inspector of Mines

**BCSSGA Meeting
Schedule** 2019

January 22 PRINCE GEORGE

March 6 VANCOUVER

May 8 – 10 VERNON

July 11 FRASER VALLEY

September 24 VANCOUVER

November 21 VICTORIA

Save the Date **BCSSGA MEMBERS MEETING**
Tuesday, January 22, 2019 11am – 2pm

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Ministry of
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HAZARD ALERT

Number 7

Mines and Mineral Resources Division: Mine.Safety@gov.bc.ca

September 2018

CHIEF INSPECTOR OF MINES' HAZARD ALERT

Portable Jaw Crushers

In June 2018, a mine worker in British Columbia was fatally injured after being hit from overhead falling rock, suspected to have been ejected from a portable jaw crusher unit at a gravel pit.

BACKGROUND

Portable jaw crusher units are used at various small to medium mine and quarrying operations throughout the province.

Many of these units have a safety gate installed above the jaw, designed by the manufacturer to deflect rocks into the mouth of the jaw as they are being crushed.



The safety gate is installed on a hinge to allow an open position during maintenance and a closed position over the jaw during operation.



Gate in open/servicing position



Gate in closed/operating position

When the safety gate is not securely attached with bolts in its operating position, it can be dislodged by rocks forcefully rejected by the jaw.



Ministry of
Energy, Mines and
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HAZARD ALERT

Number 7

Mines and Mineral Resources Division: Mine.Safety@gov.bc.ca

September 2018

RECOMMENDED HAZARD CONTROLS

- Ensure engineered safety mechanisms as installed by the manufacturer are in place, are being maintained and are used as designed.
- Identify and guard areas that could expose workers to falling hazards and provide appropriate signage to assist in hazardous area identification.
- Provide safe working procedures and ensure workers are trained.

REGULATORY COMPLIANCE

The Chief Inspector reminds mine managers of their responsibility to comply with the regulatory requirements to protect workers from inadvertent falling rocks from all crushing and conveyancing systems. In summary, these include but are not limited to:

Working Conditions - HSRC Part 1.9.1

- The manager shall take all reasonable and practicable measures to ensure that the workplace is free of conditions which could adversely affect the safety of the workers, and where practicable, institute controls at the source.

Conveyor Belts and Safe Work Procedures - HSRC Part 4.4.16(11)

- The manager shall develop safe work procedures for any work near moving conveyors.

Training - HSRC Part 1.11.1 & 1.11.2

- The manager shall ensure that workers are adequately trained to do their job or are working under the guidance of someone who has competency both in the job and in giving instruction, and ensure that all employees receive thorough orientation and basic instruction in safe work practices.
- The manager shall maintain a record of all training workers and supervisors have received, and make this record available to an inspector upon request.

Consult the Health Safety and Reclamation Code for Mines in BC for regulatory requirements.

Safety Committee Year End Update

Barry McLean, Chair – Safety Committee

The Safety Committee is pleased to be concluding the year with the finalization of the *Field Guide to the Health, Safety and Reclamation Code for Quarries*. This year-long project involved a complete audit of the HSRC for BC Mines.

Content that was relevant for quarry operators was pulled out and included in this new *Field Guide* to allow for easy, quick access to the information when you need it. I would like to give a big ‘Thank You’ to Dani Miller for her extraordinary efforts on this project and the BC Construction Safety Association (BCCSA) for being a partner in this project. The new *Field Guide* will be made available to BCSSGA members early in the New Year.

For 2019, the objective of the committee will be to collect and make available training and safety resources for the membership and provide opportunities to share information and best management practices amongst BCSSGA members.

We look forward to working with our partners at the BCCSA to share resources and develop a new safety manual for member companies, which will include documentation resources to help operators keep a record of their compliance. We are also looking into opportunities to offer training to new members as an added benefit of joining the BCSSGA.

We look forward to exploring these opportunities in the new year and continuing to add value to your membership.

Membership Committee Year End Update

Membership Committee

Following a strategic meeting of the Board of Directors in October, the BCSSGA struck a new membership committee to focus on growing the membership and reviewing the governance of how the organization represents its members. We have heard that members would like to see more regional representation, and we have listened.

For 2019, the objective of the Membership Committee will be to be an information receptacle for emerging issues, keeping the membership informed, and growing the membership ensuring regional representation.

We are actively looking for regional leads in BC’s five mining jurisdictions to ensure that the issues you are facing in your region are understood and represented around the table at the BCSSGA and during our regular communications with government. We are working on compiling a list of aggregate members from across the province and will undertake a comprehensive outreach initiative in the New Year.

We are also looking for new opportunities to provide benefit to our service and supply members. In May, we will be hosting the Annual General Meeting at a 2-day conference-style event at Predator Ridge in Vernon. The event will offer some workshops and social gatherings, as well as, an exhibitor gallery for suppliers to the industry to profile new innovations and technologies.

We look forward to connecting with you in the new year. Enquiries about BCSSGA membership can be sent to info@gravelbc.ca

Sustainability Committee Year End Update

Kevin Tokarek, Chair – Sustainability Committee

At the October Strategic Board Meeting, the Board of Directors restructured the Sustainability Committee. It was agreed that in order to build sustainable and growing operations, a renewed focus needed to be applied to community relations. The new objective of the BCSSGA Sustainability Committee is to work with municipalities and partners to build confidence within communities and constituencies to support industry sustainability.

The 2019 operational goals of the committee include developing a municipal outreach plan to raise awareness about our industry, how we operate, how we are regulated, and how we benefit our local communities. We will also be working on some educational resources for teachers and career counselors, to foster a better understanding of our industry and future opportunities within the sector.

We are proud to be a foundational building block of British Columbia and we are looking forward to sharing that story.

Government Relations Committee Year-end Update

Derek Holmes, President

With over a year under its belt, the provincial government has been rapidly advancing its commitments to British Columbians, along with a few unanticipated additions. Thanks to BCSSGA's GR committee, the Association is positioned like never before to represent your interests and concerns proactively with elected officials and senior government staff in what promises to be an equally busy year ahead.

Your GR committee continues to work on your behalf by actively monitoring the legislative and regulatory landscape to ensure that issues are identified early, that your voice is heard, and that your perspectives are considered in the development of new policies and changes to existing ones.

Starting 2018 off, the GR committee achieved a major success in exempting optional delivery charges on aggregate materials from PST. The Association's compelling submission granted this exemption to our sector only. This was followed by formal submissions and recommendations on the revitalization of BC's environmental assessment process, the development of water measurement and reporting regulations, and finished off with a formal presentation and written submission to the Select Standing Committee on Finance and Government Services on our recommendations for Budget 2019.

In the Fall, the GR committee also met with elected officials, deputy ministers and executive directors within the Ministry of Energy, Mines and Petroleum Resources and the Ministry of Transportation and Infrastructure to build upon the Association's reputation and role as a cornerstone of the Province's infrastructure, social service delivery and economy. Amongst others, these meetings resulted in the Province's commitment to work with the Association to improve support for our members in the permitting process.

Looking ahead to 2019, we foresee another busy government agenda and an increased profile for the Association. The current priorities for the GR committee include engaging in the development of regulations for the new Environmental Assessment legislation, tracking proposed changes to the Labour Relations Code, and changes to regulations to achieve the new Protections for Agricultural Land Reserves.

After a very busy year, we want to acknowledge the GR committee for its hard work and thank the members for their commitment to BCSSGA.

