Rob Gordon

From: Lisa Helps (Mayor)
Sent: July 10, 2019 8:26 AM
To: Fraser Work
Subject: Re: JSB Bridge Update (Confidential)

Thanks very much for the comprehensive update.

--
Lisa Helps, City of Victoria Mayor
Lekwungen Territory
250-661-2708
www.lisahelpsvictoria.ca

"Grown-up politics means accepting the tensions and complexities of our lives together without pretending there are easy solutions, universal rules ... That means relearning the habits of complexity against the siren calls of a soundbite, quick-fix culture." - Jonathan Sacks

---

From: Fraser Work <FWork@victoria.ca>
Date: Tuesday, July 9, 2019 at 10:42 PM
To: Councillors <Councillors@victoria.ca>
Cc: Jonathan Huggett <jhuggett@jrhuggettco.com>, Mike Frost <MFrost@victoria.ca>, Brian Murphy <bmurphy@victoria.ca>, Colleen Mycroft <cmycroft@victoria.ca>, Jocelyn Jenkyns <JJenkyns@victoria.ca>, Bill Eisenhauer <beisenhauer@victoria.ca>, Tom Zworski <tzworski@victoria.ca>, Jas Paul <JPaul@victoria.ca>, Philip Bellefontaine <pbellefontaine@victoria.ca>, Susanne Thompson <sthompson@victoria.ca>
Subject: JSB Bridge Update (Confidential)

Good evening Council,

This email is an update on the JSB hydraulic system maintenance.
This information should be treated as confidential, as it relates to legal/warranty considerations between the City and PCL.

Background:

- The hydraulic system is a critical bridge system, which actuates the bridge in the vertical direction.
- City staff recently completed JSB hydraulic oil filter changes and filter inspections due to indications of high system pressures, after filters had been in service for over a year.
- Leading up to this observation, condition-based maintenance routines had been completed as per specification.
    - All oil samples and conditions collected each month had been within standards for any water, condition and/or wear metals.
- During inspection of the hydraulic oil system filters, staff noted premature breakdown of the filter housing and o-rings seals. These issues were brought to the immediate attention of the manufacturer and PCL.

- After meeting with City staff, restrictions were placed on the bridge to reduce the risk of any damage to system machinery and components.
    - Restrictions reduced numbers of lifts to 2 per day and reduced the speed of the bridge lift/ lowering, to minimize hydraulic oil system pressures.
- EHM subsequently arrived in Victoria to help trouble-shoot and analyse the problem, with PCL support.
- Last Friday, PCL, the City and the hydraulic system designer (EHM) completed a full oil filtration / cleaning of the system to ensure the system was completely free of debris.
    - Note: hydraulic systems are particularly sensitive to any debris in the oil, so ensuring a clean system was required before removing any restrictions.
- Based on the cleanliness of the oil, EHM and PCL were happy to un-restrict the number of bridge lifts, as well as increase the lift/lowering speed (now at half the normal speed).
- Constant communications with marine users was required to manage marine traffic needs, during the period of restrictions.
    - All marine users responded to the City's needs in a positive and engaged manner.

Next Steps:

- EHM, PCM and filter manufacturers are completing an engineering analysis of the hydraulic system design and operating parameters (including filter design), in order to build a rectification plan after completing their root-cause-analysis of the filter degradation issue.
- Further City inspection, flushing and monitoring requirements are to be provided by PCL.
    - Note: City resources are required to do such checks and maintenance, which may impact fleet maintenance programs.
- The City will coordinate any hydraulic oil system repairs/modifications, once PCL presents their plan.
- Staff continue to monitor and assess hydraulic system performance and liaise directly with PCL and EHM.
- S. 14

Please let me know if you have any comments/questions.

Best,

Fraser

Fraser Work
Director, Engineering & Public Works
Chief Sustainability Officer
City of Victoria
C 778.677.2209

Rob Gordon

From: Jocelyn Jenkyns
Sent: July 9, 2019 10:25 PM
To: Fraser Work
Cc: Colleen Mycroft; Brian Murphy
Subject: Re: JSB Bridge Update

Looks great to me Fraser!

Sent from my iPhone

On Jul 9, 2019, at 4:24 PM, Fraser Work <FWork@victoria.ca> wrote:

> Hey JJ -
> For your comment before sending to Council.
> I'll send to JH in the communique.
>
> Council,
>
> This email is an update on the JSB hydraulic system maintenance.
> This information should be treated as confidential, as it relates to legal/warranty considerations between the City and PCL.
>
> **Background**:
> - The hydraulic system is a critical bridge system, which actuates the bridge in the vertical direction.
> - City staff recently completed JSB hydraulic oil filter changes and filter inspections due to indications of high system pressures, after filters had been in service for over a year.
> - Leading up to this observation, condition-based maintenance routines had been completed as per specification.
> - All oil samples and conditions collected each month had been within standards for any water, condition and/or wear metals.
> - During inspection of the hydraulic oil system filters, staff noted premature breakdown of the filter housing and o-rings seals. These issues were brought to the immediate attention of the manufacturer and PCL.
> - After meeting with City staff, restrictions were placed on the bridge to reduce the risk of any damage to system machinery and components.
> - Restrictions reduced numbers of lifts to 2 per day and reduced the speed of the bridge lift/ lowering, to minimize hydraulic oil system pressures.
> - EHM subsequently arrived in Victoria to help trouble-shoot and analyse the problem, with PCL support.
> - Last Friday, PCL, the City and the hydraulic system designer (EHM) completed a full oil filtration / cleaning of the system to ensure the system was completely free of debris.
> - Note: hydraulic systems are particularly sensitive to any debris in the oil, so ensuring a clean system was required before removing any restrictions.
> - Based on the cleanliness of the oil, EHM and PCL were happy to un-restrict the number of bridge lifts, as well as increase the lift/lowering speed (now at half the normal speed).

- Constant communications with marine users was required to manage marine traffic needs, during the period of restrictions.
    - All marine users responded to the City's needs in a positive and engaged manner.

Next Steps:

- EHM, PCM and filter manufacturers are completing an engineering analysis of the hydraulic system design and operating parameters (including filter design), in order to build a rectification plan after completing their root-cause-analysis of the filter degradation issue.
- Further City inspection, flushing and monitoring requirements are to be provided by PCL.
    - Note: City resources are required to do such checks and maintenance, which may impact fleet maintenance programs.
- The City will coordinate any hydraulic oil system repairs/modifications, once PCL presents their plan.
- Staff continue to monitor and assess hydraulic system performance and liaise directly with PCL and EHM.
- S. 14

Please let me know if you have any comments/questions.

Best,

Fraser

Fraser Work
Director, Engineering & Public Works
Chief Sustainability Officer
City of Victoria
C 778.677.2209

<image001.gif> <image002.png><image003.gif> <image004.gif> <image005.gif>

Rob Gordon

Subject:	JSB Hydraulics - Next Steps
Location:	Skype Meeting
Start:	Tue 2019-07-23 3:00 PM
End:	Tue 2019-07-23 4:00 PM
Show Time As:	Tentative
Recurrence:	(none)
Meeting Status:	Not yet responded
Organizer:	Brian Murphy
Required Attendees:	Ryan Andrews; Mike Hanley - Electro Hydraulic Machinery (mhanley@ehmcompany.com); Fraser Work; Taaj Daliran; Mike Frost; Philip Bellefontaine

Now Tuesday July 23rd 3pm Pacific
Proposed time for roundtable discussion on next steps for JSB Hydraulics / Filters
Let me know if this day / time has unavoidable conflicts.
Thanks! Brian

.....

Join Skype Meeting

Trouble Joining? Try Skype Web App

Join by phone

Toll number: S. 15 (Dial-in Number) English (United States)

Find a local number

Conference ID: S. 15

Forgot your dial-in PIN? | Help

.....

Rob Gordon

From: Brian Murphy
Sent: July 9, 2019 8:57 AM
To: Michael Hanley; Ryan Andrews
Cc: Fraser Work; Taaj Daliran; Mike Frost; Philip Bellefontaine
Subject: RE: JSB Hydraulics - Next Steps

I think it's important that we set up regular check-ins to ensure there's progress and for everyone's due diligence. We do have a few items to still discuss at this stage. Let's try for the Tuesday, I will re-issue the meeting notice.

From: Michael Hanley <mhanley@ehmcompany.com>
Sent: July 9, 2019 6:57 AM
To: Ryan Andrews <rtandrews@pcl.com>; Brian Murphy <bmurphy@victoria.ca>
Cc: Fraser Work <FWork@victoria.ca>; Taaj Daliran <TDaliran@victoria.ca>; Mike Frost <MFrost@victoria.ca>; Philip Bellefontaine <pbellefontaine@victoria.ca>
Subject: RE: JSB Hydraulics - Next Steps

I'll be traveling that day to another project.
Why don't we schedule a meeting after Parker has had a chance to weigh in on filter problems.

Michael Hanley

Electro Hydraulic Machinery
2501 John P. Lyons Lane
Pembroke Park, FL 33009
954-981-0023 ph
954-981-4022 fx
www.ehmcompany.com

From: Ryan Andrews <rtandrews@pcl.com>
Sent: Monday, July 8, 2019 10:31 PM
To: Brian Murphy <bmurphy@victoria.ca>
Cc: Michael Hanley <mhanley@ehmcompany.com>; Fraser Work <FWork@victoria.ca>; Taaj Daliran <TDaliran@victoria.ca>; Mike Frost <MFrost@victoria.ca>; Philip Bellefontaine <pbellefontaine@victoria.ca>
Subject: Re: JSB Hydraulics - Next Steps

Can we do 9am? I have a conflict at 10am.

Ryan Andrews
PCL Constructors Westcoast, Inc.

On Jul 8, 2019, at 5:20 PM, Brian Murphy <bmurphy@victoria.ca> wrote:

Proposed time for roundtable discussion on next steps for JSB Hydraulics / Filters
Let me know if this day / time really doesn't work for Ryan or Mike H (eg. Vacation plans)
Thanks! Brian

.....
Join Skype Meeting<https://urldefense.proofpoint.com/v2/url?u=https-3A__meet.lync.com_cityvictoria_bmurphy_KL8M8F0B&d=DwMFAg&c=4omPBNFyZh6fxjwjTzbsfA&r=A64KUMdGU_ZTIj0RnbmG1-PvVIcFYwdCkXVI5Ujzv0E&m=KoZpQC54AOq22O-upuWng6dzoYbLitgByBmW1ablTHA&s=Z2iDRTYNPnnLuGLtPJFGjeiBq2fZsFOuUkbN080Dxfk&e=>
Trouble Joining? Try Skype Web App<https://urldefense.proofpoint.com/v2/url?u=https-3A__meet.lync.com_cityvictoria_bmurphy_KL8M8F0B-3Fsl-3D1&d=DwMFAg&c=4omPBNFyZh6fxjwjTzbsfA&r=A64KUMdGU_ZTIj0RnbmG1-PvVIcFYwdCkXVI5Ujzv0E&m=KoZpQC54AOq22O-upuWng6dzoYbLitgByBmW1ablTHA&s=cR3-hr8V7kxV-bz1oaur_P21PG05d2Kzz18d35ChDRg&e=>
Join by phone

Toll number: S. 15 # (Dial-in Number) English (United States)

Find a local number<https://urldefense.proofpoint.com/v2/url?u=https-3A__dialin.lync.com_938347de-2D7560-2D45dc-2D91f0-2D90fde1301ea8-3Fid-3D50357837&d=DwMFAg&c=4omPBNFyZh6fxjwjTzbsfA&r=A64KUMdGU_ZTIj0RnbmG1-PvVIcFYwdCkXVI5Ujzv0E&m=KoZpQC54AOq22O-upuWng6dzoYbLitgByBmW1ablTHA&s=8FHdpIYa4NQZLzbA8swkTdXEeHUYJR821wyrvjl6RtI&e=>

Conference ID: S. 15
Forgot your dial-in PIN?<https://urldefense.proofpoint.com/v2/url?u=https-3A__mysettings.lync.com_pstnconferencing&d=DwMFAg&c=4omPBNFyZh6fxjwjTzbsfA&r=A64KUMdGU_ZTIj0RnbmG1-PvVIcFYwdCkXVI5Ujzv0E&m=KoZpQC54AOq22O-upuWng6dzoYbLitgByBmW1ablTHA&s=8VbniILBvJDIkfHNilBTw5KjBCjpHdPpLZWCsaUhTBU&e=>
|Help<https://urldefense.proofpoint.com/v2/url?u=http-3A__go.microsoft.com_fwlink_-3FLinkId-3D389737&d=DwMFAg&c=4omPBNFyZh6fxjwjTzbsfA&r=A64KUMdGU_ZTIj0RnbmG1-PvVIcFYwdCkXVI5Ujzv0E&m=KoZpQC54AOq22O-upuWng6dzoYbLitgByBmW1ablTHA&s=cdyD8Xvqt9aBPFtgco6nPZ8Tjcf7GvZgHr2vdiVINv0&e=>

[!OC([1033])!]
.....

<meeting.ics>

Rob Gordon

From: Brian Murphy
Sent: July 8, 2019 5:06 PM
To: Ryan Andrews; Mike Hanley - Electro Hydraulic Machinery (mhanley@ehmcompany.com)
Cc: Taaj Daliran; Mike Frost; Fraser Work; Jonathan Huggett; Philip Bellefontaine
Subject: JSB Hydraulics - Summary - Hydraulics Flushing + Next Steps (July 5 - 7th)

Hi Ryan, Mike H,

We would like to submit the following as a record of the recent maintenance on the filters / hydraulics system at the Johnson Street Bridge. Not intended to be exhaustive. Please identify any concerns with what is noted or missed.

A summary of steps that were taken on Friday July 5 and subsequently Sunday July 7, 2019.

Friday July 5 2019
Locked out hydraulic system.
Rotated main filters – A1, B1, C1 to align all main filters to filter in the raise direction only. Removed filter delta pressure sensors and installed temporary sensor plugs to allow rotation.
Connected the main hydraulic supply lines on each of the 4 hydraulic drive motors forming 4 loops to allow operation of 3 main drive pumps without causing bridge movement
Shut off 6 ball valves below drive motors leaving 2 open to allow fluid flow through only one motor loop
Removed and inspected all main filter elements prior to filtering – all main filter housings were found to be clean, top and bottom filter 0 – rings were found to be intact, no visible signs of contamination on filter elements, no signs of contamination on reverse flow valves.
Reinstalled main filters, ran charge pumps to remove air from main filters, refilled hydraulic reservoir. Bypassed bridge controls to enable running of main pumps without lifting bridge.
Stopped vehicle and pedestrian traffic at this time as a precautionary measure. Ran main pumps in the raise direction for a 1-minute test. Determined test was successful, span locks stayed engaged and there was no bridge movement. Discussed and decided it was safe to perform flush without stopping vehicle or pedestrian traffic.
Adjusted all 3 drive pumps to 45 hz and began flushing in raise direction through first drive motor loop. Flushed first loop for 5 minutes, then opened 2nd loop ball valves, then closed first loop ball valves and flushed 2nd loop for 5 minutes. Repeated steps for loops 3 and 4.
Shut down drive pumps and charge pumps, locked out system. Rotated all 6 main filter housings to align all main filters to filter in the lower direction only. Run charge pumps to remove air and refill reservoir. Run all 3 drive pumps in lower direction through first drive motor loop for 5 minutes, open 2nd motor loop ball valves, close first loop ball valves and run for 5 minutes. Repeated steps for loops 3 and 4.
Shut down main and charge pumps. Rotate main filter housings A2, B2, C2 to original orientation. Reinstalled filter pressure indicators.
Removed and inspected all main filter elements – all main filter housings were found to be clean, top and bottom filter 0 – rings were found to be intact, no signs of contamination on reverse flow valves, no visible signs of contamination on filter elements A1, A2, B1, B2. Some “blackspot” contamination found on inside of filter cartridges C1 and C2.
Replaced filter cartridges in housings C1 and C2 with new elements. Reinstalled existing elements in remaining 4 housings.
Ran charge pumps to remove air from main filters, refilled reservoir.
Set main drive pump controllers to 40 hz. Performed test lifts and monitored pressure gauges and visual indicators. All gauge readings and visual indicators normal.
It is to be noted that the oil temperature at the time of test lifts was approx. 100 deg. Fahrenheit due to the heat generated during the flushing process.

Bridge returned to 'unrestricted' lifts pending periodic inspections of the filters (to be defined and agreed)

July 07 2019
Monitored visual indicators during 2 bridge lifts. All 8 visual indictors triggered immediately upon activation of charge pumps, prior to opening of lift solenoids. After beginning lift all visual indicators return to normal after approx. 30 seconds except for indicator B2. B2 remained triggered longer but did return to normal before full lift achieved.
On lowering all indicators remained normal except for B1. B1 triggered as the span was slowing down prior to seating but did not trigger during period of high pump speed.
With charge pumps running charge pressure was 400 psi. Prior to lift raise pressure gauge showed 400 psi, while the lower pressure gauge indicated 0 psi. Upon commencing lift lower gauge changed to 400 psi. All gauge readings remained normal for the duration of the lift and lower.
Ben Krop discussed indicators and readings with Mike Hanley from EHM, and examined hydraulic schematics, the reading of 0 psi on the lower pressure gauge prior to lift commencement will happen occasionally depending on what position Pump A stops in. The position Pump A stops in determines whether charge pressure can reach both the raise and lower gauges prior to raise solenoid opening.
Since all pressures return to normal readings as soon as lift begins Mike Hanley indicates this is not a concern. City Victoria in agreement at this time.

Next steps
The warning indicators on the filter housings will likely continue to trigger. Do we continue to acknowledge the warnings as they occur while continuing with unrestricted bridge operations? How long before this becomes a concern? Should City of Victoria plan for periodic monitoring of the visual indicators during a lift (eg. Monthly?) to ensure the filters are not actually clogging.
This monitoring would need to continue until a permanent solution is achieved.
City of Victoria suggests we consider alternate sensors that will reset the warning lights when the visual indicators reset, if possible.
The parties need to establish and agree on a reasonable period for inspections of the filters within the system.
Next steps regarding the filters and design suitability within the overall hydraulics system (ie. Long term solution)

Please review and let us know if you have any concerns with this record or discrepancies.
I will schedule a follow-up phone conference call for continuing discussions on the long term upgrades to filters / hydraulics.
Thanks for making the travels and your assistance this past week in getting the bridge back to less restricted operations.

Thanks
Brian

Brian Murphy, P.Eng.
Assistant Director, Public Works
Engineering and Public Works Department
417 Garbally Rd. Victoria B.C. V8T 2J9
T 250-361-0476

Rob Gordon

From: Brian Murphy
Sent: July 5, 2019 7:25 PM
To: Fraser Work; Jocelyn Jenkyns; Jonathan Huggett; Philip Bellefontaine; Bill Eisenhauer; Taaj Daliran
Subject: Re: JSB Hydraulics - 17:30 Friday 5th

All maintenance successful. Three test lifts performed with no issues. Bridge operations retuned to normal operations (24 hours).

Bridge lift time is approximately 2 mins 30 seconds in each direction (up / down). This is about a minute longer than previous standard but about half the time we were operating at over the past week.

As stated back to normal operations for lift procedures and staffing.

Thanks! Brian

Brian Murphy
Assistant Director, Public Works
City of Victoria

From: Brian Murphy
Sent: Friday, July 5, 2019 5:31:08 PM
To: Fraser Work; Jocelyn Jenkyns; Jonathan Huggett; Philip Bellefontaine; Bill Eisenhauer; Taaj Daliran
Subject: JSB Hydraulics - 17:30 Friday 5th

Hello everyone,

The full flushing and external filtering of the hydraulics is complete and the final stage of inspecting the filters that were in the system is underway with replacement of the filters as required.

Once completed, final checks and then test lifts which will be after 6pm.

We will then determine operating parameters for the bridge over the weekend with further discussions on Monday.

No requests for any lifts this evening which is fortunate and nothing requested until late Saturday currently.

Fingers crossed for the test lifts..

Thanks

Brian

Brian Murphy

Assistant Director, Public Works

City of Victoria

Rob Gordon

From: Brian Murphy
Sent: July 3, 2019 4:44 PM
To: Fraser Work; Jocelyn Jenkyns; Jonathan Huggett; Taaj Daliran; Mike Frost; Bill Eisenhauer; Phil Banton; Philip Bellefontaine
Subject: Re: JSB Hydraulics - Update 16:30 Wednesday July 3rd 2019

Constantly evolving it seems...
Some parts not arriving until Thursday, hopefully by mid-day. So we'll have to see about starting the flushing Thursday afternoon (assuming the 18:10 lift can be moved up to before 3pm) otherwise defer the work until Friday.
Stay tuned!
Thanks
Brian

Brian Murphy
Assistant Director, Public Works
City of Victoria

From: Brian Murphy
Sent: Wednesday, July 3, 2019 4:30:45 PM
To: Fraser Work; Jocelyn Jenkyns; Jonathan Huggett; Taaj Daliran; Mike Frost; Bill Eisenhauer; Phil Banton; Philip Bellefontaine
Subject: RE: JSB Hydraulics - Update 16:30 Wednesday July 3rd 2019

Hi everyone,

We have a plan for flushing the hydraulics working with PCL and EHM tomorrow.

There will be a bridge lift at 05:30am Thursday
Parties will gather at 0600am to begin preparations and proceedings for the hydraulic flushing.
Current estimated timeframe is only 4 hours to complete the flushing. Up to eight hours with contingency.
Window for completing the flushing is between 05:30 lift and 18:10 lift, which is 12 hours. This should be more than sufficient time to complete the flushing during a day shift.
All required parts were due to arrive today – they will need to be delivered to JSB for 06:00 tomorrow.

Ryan (PCL) will confirm plans with Mike H (EHM) tonight and send out a final confirmation of the plan.

That should cover it! Fingers crossed?

Thanks
Brian

From: Brian Murphy
Sent: July 2, 2019 4:34 PM
To: Fraser Work <FWork@victoria.ca>; Jocelyn Jenkyns <JJenkyns@victoria.ca>; Jonathan Huggett <jhuggett@jrhuggettco.com>; Taaj Daliran <TDaliran@victoria.ca>; Mike Frost <MFrost@victoria.ca>; Bill Eisenhauer

<beisenhauer@victoria.ca>
Subject: RE: JSB Hydraulics - Update 16:30 Tuesday July 2 2019

Updates already…

No requests for 0530am lift at this point. As below, PWSP will take calls overnight and perform lift if required at 0530 Wednesday.
June 20 2019 "pre" filter change oil sample analysis received - no concerns flagged

Thanks
Brian

From: Brian Murphy
Sent: July 2, 2019 4:31 PM
To: Fraser Work <FWork@victoria.ca>; Jocelyn Jenkyns <JJenkyns@victoria.ca>; Jonathan Huggett <jhuggett@jrhuggettco.com>; Taaj Daliran <TDaliran@victoria.ca>; Mike Frost <MFrost@victoria.ca>; Bill Eisenhauer <beisenhauer@victoria.ca>
Subject: JSB Hydraulics - Update 16:30 Tuesday July 2 2019

End of day update – Tuesday July 2, 2019

- Tuesday 0530am Bridge Lift was successful. Similar hydraulics system warnings were observed (briefly) as noted in previous lifts.
- EHM onsite – next step for EHM is to have detailed discussions with Parker Filters
- Gathering components, equipment and personnel availability for full system hydraulics flushing and filtering. Estimated Thursday potential start.
- Maritime users have been given heads up about a potential up to 24 hours closure to lifts – start time to be confirmed
- Re-assigning after hours phone calls and bridge lifts to Public Works Service Person (ie. 0530 lifts) – on duty PWSP will be given training information from Senior Bridge Operator (Lino) on what to observe and expect etc.
- No mechanical room observations for 18:10 bridge lift today (mechanic requires rest break - Mike H available if observations are required)
- Same for 05:30 Bridge Lift Wednesday AM – no mechanical observations planned
- Update conference call scheduled for 08:30am Wednesday – subject to change

Thanks
Brian

Brian Murphy, P.Eng.
Assistant Director, Public Works
Engineering and Public Works Department
417 Garbally Rd. Victoria B.C. V8T 2J9
T 250-361-0476

Rob Gordon

From: Jocelyn Jenkyns
Sent: July 3, 2019 4:34 PM
To: Brian Murphy; Fraser Work; Jonathan Huggett; Taaj Daliran; Mike Frost; Bill Eisenhauer; Phil Banton; Philip Bellefontaine
Subject: RE: JSB Hydraulics - Update 16:30 Wednesday July 3rd 2019

Thanks Brian – will be sending all good thoughts your way!

Jocelyn Jenkyns
City Manager
City of Victoria
1 Centennial Square, Victoria BC V8W 1P6

T 250.361.0563 **F** 250.361.0248

From: Brian Murphy
Sent: Wednesday, July 3, 2019 4:31 PM
To: Fraser Work <FWork@victoria.ca>; Jocelyn Jenkyns <JJenkyns@victoria.ca>; Jonathan Huggett <jhuggett@jrhuggettco.com>; Taaj Daliran <TDaliran@victoria.ca>; Mike Frost <MFrost@victoria.ca>; Bill Eisenhauer <beisenhauer@victoria.ca>; Phil Banton <pbanton@victoria.ca>; Philip Bellefontaine <pbellefontaine@victoria.ca>
Subject: RE: JSB Hydraulics - Update 16:30 Wednesday July 3rd 2019

Hi everyone,

We have a plan for flushing the hydraulics working with PCL and EHM tomorrow.

There will be a bridge lift at 05:30am Thursday
Parties will gather at 0600am to begin preparations and proceedings for the hydraulic flushing.
Current estimated timeframe is only 4 hours to complete the flushing. Up to eight hours with contingency.
Window for completing the flushing is between 05:30 lift and 18:10 lift, which is 12 hours. This should be more than sufficient time to complete the flushing during a day shift.
All required parts were due to arrive today – they will need to be delivered to JSB for 06:00 tomorrow.

Ryan (PCL) will confirm plans with Mike H (EHM) tonight and send out a final confirmation of the plan.

That should cover it! Fingers crossed?

Thanks
Brian

From: Brian Murphy
Sent: July 2, 2019 4:34 PM

To: Fraser Work <FWork@victoria.ca>; Jocelyn Jenkyns <JJenkyns@victoria.ca>; Jonathan Huggett <jhuggett@jrhuggettco.com>; Taaj Daliran <TDaliran@victoria.ca>; Mike Frost <MFrost@victoria.ca>; Bill Eisenhauer <beisenhauer@victoria.ca>
Subject: RE: JSB Hydraulics - Update 16:30 Tuesday July 2 2019

Updates already…

No requests for 0530am lift at this point. As below, PWSP will take calls overnight and perform lift if required at 0530 Wednesday.
June 20 2019 "pre" filter change oil sample analysis received - no concerns flagged

Thanks
Brian

From: Brian Murphy
Sent: July 2, 2019 4:31 PM
To: Fraser Work <FWork@victoria.ca>; Jocelyn Jenkyns <JJenkyns@victoria.ca>; Jonathan Huggett <jhuggett@jrhuggettco.com>; Taaj Daliran <TDaliran@victoria.ca>; Mike Frost <MFrost@victoria.ca>; Bill Eisenhauer <beisenhauer@victoria.ca>
Subject: JSB Hydraulics - Update 16:30 Tuesday July 2 2019

End of day update – Tuesday July 2, 2019

- Tuesday 0530am Bridge Lift was successful. Similar hydraulics system warnings were observed (briefly) as noted in previous lifts.
- EHM onsite – next step for EHM is to have detailed discussions with Parker Filters
- Gathering components, equipment and personnel availability for full system hydraulics flushing and filtering. Estimated Thursday potential start.
- Maritime users have been given heads up about a potential up to 24 hours closure to lifts – start time to be confirmed
- Re-assigning after hours phone calls and bridge lifts to Public Works Service Person (ie. 0530 lifts) – on duty PWSP will be given training information from Senior Bridge Operator (Lino) on what to observe and expect etc.
- No mechanical room observations for 18:10 bridge lift today (mechanic requires rest break - Mike H available if observations are required)
- Same for 05:30 Bridge Lift Wednesday AM – no mechanical observations planned
- Update conference call scheduled for 08:30am Wednesday – subject to change

Thanks
Brian

Brian Murphy, P.Eng.
Assistant Director, Public Works
Engineering and Public Works Department
417 Garbally Rd. Victoria B.C. V8T 2J9
T 250-361-0476

Rob Gordon

From: Mike Frost
Sent: July 3, 2019 2:27 PM
To: Brian Murphy; Fraser Work; Philip Bellefontaine; Taaj Daliran
Subject: RE: JSB parts update - preparation for oil flushing

Updates

First bullet should read …" filter housing plugs"

Last bullet on parts - Parker oil flushing pump filters have been installed and is ready to go for use tomorrow

Mike

From: Mike Frost
Sent: Wednesday, July 3, 2019 1:57 PM
To: Brian Murphy <bmurphy@victoria.ca>; Fraser Work <FWork@victoria.ca>; Philip Bellefontaine <pbellefontaine@victoria.ca>; Taaj Daliran <TDaliran@victoria.ca>
Subject: JSB parts update - preparation for oil flushing

All

Update as of 1 hour ago

inventory /parts

- The filter housing are en-route to us today – they left lower mainland yesterday so should be here by end of day. ***Low risk***
- 15 pails of Rando 32 hydraulic oil being collected to day (should not require too much but it is a risk mitigation step to re stock our inventory levels) – NOTE: 8 pails of incorrect and unopened oil is being removed from the site this week***. NO risk***
- Two main and additional back up brake filter landed in Vancouver today – ***should*** be with us sometime tomorrow – this will allow us to perform a complete filter replacement (all 8 filters) POST hydraulic oil flush process. ***Medium risk***
- Parker filters for the oil flush pump still awaiting delivery here ***– low risk***

Staff

Ben is willing to support flushing activity, second mechanic Gregg also willing and able. Due to staff illness, and vacations, result would likely be that the PM shift of the shop Thursday will either require

- a shift change for day time mechanic to go to PM shift to be acting lead hand
- or cancel the PM shift on Thursday night and close the shop from 3pm.

Will let you know when we know more

Mike

Mike Frost P.Eng. PMP
Manager of Fleet
Engineering & Public works Dept.
City of Victoria
417 Garbally Rd. Victoria B.C. V8T 2J9
T 250.361 0419

Rob Gordon

Subject:	JSB Hydraulics - Update Call
Location:	Skype Meeting
Start:	Wed 2019-07-03 4:00 PM
End:	Wed 2019-07-03 4:30 PM
Show Time As:	Tentative
Recurrence:	(none)
Meeting Status:	Not yet responded
Organizer:	Brian Murphy
Required Attendees:	Taaj Daliran; Mike Frost; mhanley@ehmcompany.com; Fraser Work; Ryan Andrews; Jonathan Huggett

Join Skype Meeting

Trouble Joining? Try Skype Web App

Join by phone

Toll number: S. 15 # (Dial-in Number) English (United States)

Find a local number

Conference ID: S. 15

Forgot your dial-in PIN? | Help

Rob Gordon

From: Jocelyn Jenkyns
Sent: July 2, 2019 5:09 PM
To: Brian Murphy
Cc: Fraser Work; Jonathan Huggett; Taaj Daliran; Mike Frost; Bill Eisenhauer
Subject: Re: JSB Hydraulics - Update 16:30 Tuesday July 2 2019

Thanks Brian!

Sent from my iPhone

On Jul 2, 2019, at 4:31 PM, Brian Murphy <bmurphy@victoria.ca> wrote:

End of day update – Tuesday July 2, 2019

- Tuesday 0530am Bridge Lift was successful. Similar hydraulics system warnings were observed (briefly) as noted in previous lifts.
- EHM onsite – next step for EHM is to have detailed discussions with Parker Filters
- Gathering components, equipment and personnel availability for full system hydraulics flushing and filtering. Estimated Thursday potential start.
- Maritime users have been given heads up about a potential up to 24 hours closure to lifts – start time to be confirmed
- Re-assigning after hours phone calls and bridge lifts to Public Works Service Person (ie. 0530 lifts) – on duty PWSP will be given training information from Senior Bridge Operator (Lino) on what to observe and expect etc.
- No mechanical room observations for 18:10 bridge lift today (mechanic requires rest break - Mike H available if observations are required)
- Same for 05:30 Bridge Lift Wednesday AM – no mechanical observations planned
- Update conference call scheduled for 08:30am Wednesday – subject to change

Thanks
Brian

Brian Murphy, P.Eng.
Assistant Director, Public Works
Engineering and Public Works Department
417 Garbally Rd. Victoria B.C. V8T 2J9
T 250-361-0476

<image001.gif> <image002.png><image003.gif> <image004.gif> <image005.gif>

Rob Gordon

From: Mike Frost
Sent: July 2, 2019 11:12 AM
To: Fraser Work; Brian Murphy; Taaj Daliran; Philip Bellefontaine
Subject: Interim report JSB oil filters - observations to date - July 2nd , 2019

Importance: High

Gents

report showing my observations and processes performed to date – please excuse any typos or grammar , this is being put together pretty quickly here…

Mike

Mike Frost P.Eng. PMP
Manager of Fleet
Engineering & Public works Dept.
City of Victoria
417 Garbally Rd. Victoria B.C. V8T 2J9
T 250.361 0419

Rob Gordon

From: Brian Murphy
Sent: July 2, 2019 10:44 AM
To: Lino Lazaro; Alastair Campbell; Bob Amundrud; bruce@fasseafood.com; daveb@unitedengineering.ca; David Eggert; Ian Maxwell; jseabrook@ppa.gc.ca; Kevin Ashley; Mariah McCooey; marinedispatch@ledcor.com; Marty Palkovsky; Michael C. Fournier; mmossey@schn.com; Polden, Zoe; Riccardo Regosa; Rob Menzies; sageberryman@ralmax.com; Zane Bourk; Victoria MCTS VTS Supervisor (Victoria.MCTS@dfo-mpo.gc.ca); Ben Krop
Cc: Fraser Work; Bill Eisenhauer; Taaj Daliran; Philip Bellefontaine; Phil Banton
Subject: RE: John Street Bridge Marine Traffic Closure - Update #4

Dear Marine Users,

Maintenance work continues on the Johnson Street Bridge and we appreciate your patience and cooperation during this time period. Please be advised that there will be an upcoming period of active maintenance this week which will require a full closure to lifts for a period of up to 24 hours. We will announce the time and dates of this closure in advance as soon as the schedule is finalized. In the meantime, we ask that you continue to log upcoming requests for lifts as far in advance as possible, so that we may potentially take these requests into consideration as we plan this outage.

Outside of this upcoming closure period, the scheduled lifts remain at 05:30am and 18:10 daily until further notice.

Please continue to register all requests for transit by calling the Johnson Street Bridge main phone 250.385.5717 .

Regards,
Brian Murphy

Brian Murphy, P.Eng.
Assistant Director, Public Works
City of Victoria
417 Garbally Rd. Victoria B.C. V8T 2J9
T 250-361-0400

From: Lino Lazaro <llazaro@victoria.ca>
Sent: June 29, 2019 7:21 PM
To: Brian Murphy <bmurphy@victoria.ca>; Alastair Campbell <acampbell@pointhopemaritime.com>; Bob Amundrud <bob.amundrud@ledcor.com>; bruce@fasseafood.com; daveb@unitedengineering.ca; David Eggert <dave@salts.ca>; Ian Maxwell <ianmaxwell@ralmax.com>; jseabrook@ppa.gc.ca; Kevin Ashley <kashley@seaspan.com>; Mariah McCooey <mariah.mccooey@tc.gc.ca>; marinedispatch@ledcor.com; Marty Palkovsky <mpalkovsky@schn.com>; Michael C. Fournier <michaelfournier@ralmax.com>; mmossey@schn.com; Polden, Zoe <zoe.polden@tc.gc.ca>; Riccardo Regosa <rregosa@pointhopemaritime.com>; Rob Menzies <robmenzies@salishseaind.com>; sageberryman@ralmax.com; Zane Bourk <zbourk@victoria.ca>; Victoria MCTS VTS Supervisor (Victoria.MCTS@dfo-mpo.gc.ca) <Victoria.MCTS@dfo-mpo.gc.ca>; Ben Krop <BKrop@victoria.ca>
Cc: Fraser Work <FWork@victoria.ca>; Bill Eisenhauer <beisenhauer@victoria.ca>; Taaj Daliran <TDaliran@victoria.ca>; Philip Bellefontaine <pbellefontaine@victoria.ca>; Phil Banton <pbanton@victoria.ca>
Subject: Re: John Street Bridge Marine Traffic Closure - Update #4

Hello everyone,

Currently we have no registered requests for raising the bridge on Sunday June 30.

Schedule has been set for Monday July 1st as follows:

JSB will be raised 09:00 and at 17:00

Schedule has also been set for Tuesday July 2nd as follows:

JSB will be raised 05:30 and at 18:00

Please continue to register all requests for transit by calling the Johnson Street Bridge main phone **250.385.5717**. Times mentioned above have been set by marine operators whom have registered, please be sure to make the appropriate arrangements for your transit.

I would also like to thank all marine operators for your patience and understanding.

Kind Regards,

Lino Lazaro
Senior Bridge Operator – Johnson Street Bridge
Public Works – Roads and Bridges
JSB-Office: 250.385.5717 JSB-Cell: 250.883.0756
Cell: S. 22 Email: llazaro@victoria.ca

Get Outlook for iOS

From: Brian Murphy
Sent: Friday, June 28, 2019 7:16:42 PM
To: Alastair Campbell; Bob Amundrud; bruce@fasseafood.com; daveb@unitedengineering.ca; David Eggert; Ian Maxwell; jseabrook@ppa.gc.ca; Kevin Ashley; Mariah McCooey; marinedispatch@ledcor.com; Marty Palkovsky; Michael C. Fournier; mmossey@schn.com; Polden, Zoe; Riccardo Regosa; Rob Menzies; sageberryman@ralmax.com; Zane

Bourk; Victoria MCTS VTS Supervisor (Victoria.MCTS@dfo-mpo.gc.ca)
Cc: Fraser Work; Bill Eisenhauer; Taaj Daliran; Lino Lazaro; Philip Bellefontaine
Subject: Re: John Street Bridge Marine Traffic Closure - Update #3

Dear Marine Users,

The lift at 6pm this evening was successful. The next scheduled lifts are 9:30am Saturday and 6pm Saturday. These times may shift depending on consensus of all involved operators. Please continue to register all requests for passage through the Johnson Street Bridge main phone including for Sunday and Monday and onwards.

Regards,
Brian Murphy

Brian Murphy
Assistant Director, Public Works
City of Victoria

From: Brian Murphy
Sent: Friday, June 28, 2019 3:45:59 PM
To: Alastair Campbell; Bob Amundrud; bruce@fasseafood.com; daveb@unitedengineering.ca; David Eggert; Ian Maxwell; jseabrook@ppa.gc.ca; Kevin Ashley; Mariah McCooey; marinedispatch@ledcor.com; Marty Palkovsky; Michael C. Fournier; mmossey@schn.com; Polden, Zoe; Riccardo Regosa; Rob Menzies; sageberryman@ralmax.com; Zane Bourk; Victoria MCTS VTS Supervisor (Victoria.MCTS@dfo-mpo.gc.ca)
Cc: Fraser Work; Bill Eisenhauer; Taaj Daliran; Lino Lazaro; Philip Bellefontaine
Subject: RE: John Street Bridge Marine Traffic Closure - Update #3

Johnson Street Bridge Lift Update # 3 for Marine Users

As discussed in the 3pm conference call today, please be advised of the following:

The Johnson Street Bridge hydraulic lift system is restored to limited operation.

There will be a scheduled lift at 6 p.m. today for vessels that are currently registered (six total – four outbound; two inbound)

Marine traffic will be coordinated with the Harbour Master and marine operators (MCTS) to coordinate the transit and the order of entry and exit

The Johnson Street Bridge will have limited capability to perform a limited number of lifts only (based on current conditions). Lifts will be performed under a monitoring mode and a limited number of lifts will be performed only at scheduled times. The time(s) will likely be established and notified as a fixed schedule (to be determined). This will be the procedure through the weekend and into next week.

- The bridge operator will be work with the Harbour Master, marine operations, and marine operators to coordinate the daily lift(s)
- We will continue to work to increase the capabilities to allow for an increased number of lifts. Any changes will be communicated with marine operators
- Vessels should call into the bridge as they normally would to log their needs and to be entered onto the registry for the next scheduled lift

Thank you for your patience and understanding.

Regards,

Brian Murphy

Brian Murphy

Assistant Director, Public Works

City of Victoria
417 Garbally Rd. Victoria B.C. V8T 2J9
T 250-361-0476

From: Brian Murphy
Sent: June 28, 2019 1:01 PM
To: Alastair Campbell <acampbell@pointhopemaritime.com>; Bob Amundrud <bob.amundrud@ledcor.com>; bruce@fasseafood.com; daveb@unitedengineering.ca; David Eggert <dave@salts.ca>; Ian Maxwell <ianmaxwell@ralmax.com>; jseabrook@ppa.gc.ca; Kevin Ashley <kashley@seaspan.com>; Mariah McCooey <mariah.mccooey@tc.gc.ca>; marinedispatch@ledcor.com; Marty Palkovsky <mpalkovsky@schn.com>; Michael C. Fournier <michaelfournier@ralmax.com>; mmossey@schn.com; Polden, Zoe <zoe.polden@tc.gc.ca>; Riccardo Regosa <rregosa@pointhopemaritime.com>; Rob Menzies <robmenzies@salishseaind.com>; sageberryman@ralmax.com; Zane Bourk <zbourk@victoria.ca>
Cc: Fraser Work <FWork@victoria.ca>; Bill Eisenhauer <beisenhauer@victoria.ca>; Taaj Daliran <TDaliran@victoria.ca>; Lino Lazaro <llazaro@victoria.ca>
Subject: John Street Bridge Marine Traffic Closure - Update #2
Importance: High

Johnson Street Bridge Lift Update # 2 for Marine Users

Dear Marine Users,

Staff are completing their inspection and maintenance of the hydraulic system and we will be able to confirm at 3pm today if and when we will be able to schedule a coordinated bridge lift today and the outlook for scheduled bridge lifts over the weekend. We recognize the impact the temporary closure is having on your operations. Everyone is working hard to address this situation as quickly as possible.

We are working towards a scheduled coordinated bridge lift at approximately 6 pm today and will confirm details as soon as the inspection is complete. Until this bridge lift is confirmed, this is a planned lift only and is not yet confirmed. If this bridge lift goes ahead as anticipated, your cooperation with marine traffic coordination will be critical.

We will hold a conference call at 3:00pm for those who would like to get an update and answers to any questions.

Please call S. 15 to connect. The Access Code is S. 15 #

Please continue to log all lift requests through Lino Lazaro and these requests will be taken into consideration when bridge lift functionality is restored.

Regards,

Brian Murphy

Brian Murphy

Assistant Director, Public Works

City of Victoria
417 Garbally Rd. Victoria B.C. V8T 2J9
T 250-361-0476

From: Brian Murphy
Sent: June 27, 2019 4:55 PM
To: Alastair Campbell <acampbell@pointhopemaritime.com>; Bob Amundrud <bob.amundrud@ledcor.com>; marinedispatch@ledcor.com; David Eggert <dave@salts.ca>; jseabrook@ppa.gc.ca; Kevin Ashley <kashley@seaspan.com>; Mariah McCooey <mariah.mccooey@tc.gc.ca>; Michael C. Fournier <michaelfournier@ralmax.com>; Riccardo Regosa <rregosa@pointhopemaritime.com>; Zane Bourk <zbourk@victoria.ca>; Taaj Daliran <TDaliran@victoria.ca>; Polden, Zoe <zoe.polden@tc.gc.ca>; river_dispatch@Seaspan.com; egd-sj@frpd.com; gfonda@pactow.com; Phil Banton <pbanton@victoria.ca>; Lino Lazaro <llazaro@victoria.ca>
Cc: Sheldon Johnson <sjohnson@victoria.ca>
Subject: RE: EFFECTIVE IMMEDIATELY - Johnson Street Bridge Closure

Dear Marine Users,

As stated below, the Johnson Street Bridge is closed for bridge lifts due to maintenance effective immediately for all marine transit users, until further notice.

We recognize the impact of this step to marine operations and are reviewing options to restore lift capability in the shortest timeline. At this time, we do not have an estimated return to service timeline for bridge lifts including the next 24 hours. However, we are committed to providing regular updates as soon as they are available.

In the meantime, please log all lift requests through Lino Lazaro and these requests will be taken into consideration when bridge lift functionality is restored.

Lino Lazaro

Senior Bridge Operator – Johnson Street Bridge

Public Works – Roads and Bridges

JSB-Office: 250.385.5717 JSB-Cell: 250.883.0756

Cell: S. 22 Email: llazaro@victoria.ca

Regards,

Brian Murphy

Brian Murphy

Assistant Director, Public Works

Engineering and Public Works Department
417 Garbally Rd. Victoria B.C. V8T 2J9
T 250-361-0476

From: Zane Bourk <zbourk@victoria.ca>
Sent: June 27, 2019 2:31 PM
To: Alastair Campbell <acampbell@pointhopemaritime.com>; Bob Amundrud <bob.amundrud@ledcor.com>; marinedispatch@ledcor.com; David Eggert <dave@salts.ca>; jseabrook@ppa.gc.ca; Kevin Ashley <kashley@seaspan.com>; Mariah McCooey <mariah.mccooey@tc.gc.ca>; Michael C. Fournier <michaelfournier@ralmax.com>; Riccardo Regosa <rregosa@pointhopemaritime.com>; Taaj Daliran <TDaliran@victoria.ca>; Polden, Zoe <zoe.polden@tc.gc.ca>; river_dispatch@Seaspan.com; egd-sj@frpd.com; gfonda@pactow.com; Brian Murphy <bmurphy@victoria.ca>; Phil Banton <pbanton@victoria.ca>; Lino Lazaro <llazaro@victoria.ca>
Subject: EFFECTIVE IMMEDIATELY - Johnson Street Bridge Closure
Importance: High

Good afternoon,

Due to unforeseen mechanical maintenance,

EFFECTIVE IMMEDIATELY the Johnson Street Bridge will be CLOSED to all marine transit users requiring a bridge lift for access in and out of the Upper Harbour.

We are sorry for the inconvenience and we'll notify all marine transit users when the bridge is fully operational again. Please contact Brian Murphy, Assistant Director – Public Works, with any questions, comments, or concerns at 250-883-6489.

Regards,

Zane Bourk

Supervisor - Roads and Bridges

Public Works

T 250.361.0230 C 778.350.2947

Rob Gordon

From: Brian Murphy
Sent: July 1, 2019 10:10 AM
To: Ryan Andrews
Cc: Michael Hanley; Fraser Work; Jonathan Huggett; Mike Frost; Taaj Daliran; Stephen Hanley
Subject: Re: JSB Hydraulics Flushing Preps

Hi Ryan,

According to Ben on-site, the rotating of the filter housings will not be straightforward given the sensor port on the top (which can't be plugged) and other considerations. We need to either get someone from your team on site with Ben tomorrow morning to start figuring these aspects out (preferred) or at least you'll need to have a conversation with Ben to understand the complications. Please let us know the plan.

Ben Krop
236 464-0653

Thanks
Brian

Brian Murphy
Assistant Director, Public Works
City of Victoria

From: Ryan Andrews <rtandrews@pcl.com>
Sent: Monday, July 1, 2019 9:05:44 AM
To: Brian Murphy
Cc: Michael Hanley; Fraser Work; Jonathan Huggett; Mike Frost; Taaj Daliran; Stephen Hanley
Subject: Re: JSB Hydraulics Flushing Preps

Yes, ehm and PCL will take over coordination with the Parker rep.

> **Ryan Andrews**
> Manager, Civil Projects
> PCL Constructors Westcoast, Inc.
> **p** 604-241-5350 | **c** 250-507-8528
> mailto:rtandrews@pcl.com
> www.pcl.com
> Connect with us on: LinkedIn, Facebook, Twitter, YouTube
> **Together we build success.**

On Jul 1, 2019, at 8:42 AM, Brian Murphy <bmurphy@victoria.ca> wrote:

> I'll ask Ben to discuss with you the filter assembly.
> Ryan - are you able to follow up with the Parker rep?
>
> Thanks

Brian Murphy
Assistant Director, Public Works
City of Victoria

From: Michael Hanley <mhanley@ehmcompany.com>
Sent: Monday, July 1, 2019 3:23:01 AM
To: Brian Murphy; Ryan Andrews; Fraser Work
Cc: Jonathan Huggett; Mike Frost; Taaj Daliran; Stephen Hanley
Subject: RE: JSB Hydraulics Flushing Preps

Brian,

We use our filter cart for dirty oil transfer as well. Is it possible to clean the unit and install new filter elements?

Also, did you determine the number of available filter elements you have?

Lastly, has anyone scheduled the visit from the Parker rep?

Michael Hanley

Electro Hydraulic Machinery
2501 John P. Lyons Lane
Pembroke Park, FL 33009
954-981-0023 ph
954-981-4022 fx
www.ehmcompany.com

From: Brian Murphy <bmurphy@victoria.ca>
Sent: Sunday, June 30, 2019 9:04 PM
To: Ryan Andrews <rtandrews@pcl.com>; Fraser Work <FWork@victoria.ca>
Cc: Jonathan Huggett <jhuggett@jrhuggettco.com>; Mike Frost <MFrost@victoria.ca>; Michael Hanley <mhanley@ehmcompany.com>; Taaj Daliran <TDaliran@victoria.ca>; Stephen Hanley <shanley@ehmcompany.com>
Subject: Re: JSB Hydraulics Flushing Preps

Hi Ryan.

The issue is that our filtering equipment is only used in dirty service, for transferring used oil, not actually for filtering. It would be inadvisable to use for this application given its dirty service use.

Hope that makes sense.
Brian

Brian Murphy
Assistant Director, Public Works
City of Victoria

From: Ryan Andrews <rtandrews@pcl.com>
Sent: Sunday, June 30, 2019 4:58:35 PM
To: Fraser Work
Cc: Jonathan Huggett; Mike Frost; Brian Murphy; Michael Hanley (mhanley@ehmcompany.com); Taaj Daliran; Steve Hanley - Electro Hydraulic Machinery Company (EHM) (shanley@ehmcompany.com)
Subject: Re: JSB Hydraulics Flushing Preps

Fraser,
As a follow up, below are some planning elements. Note ehm has travel plans to arrive around midnight on Monday - they depart at 2pm Monday. Mike Hanley has mentioned that the city does not want us using the their flushing equipment. I'm not sure where this is coming from, however it will potentially take us a couple days to round one up (Per Mike Hanley). I'm asking that the city allow us to use their flushing equipment otherwise we will need to delay ehm travel until we can locate one and confirm availability. Goes without saying, but the more we work together the faster this will get resolved.

I would also like to get clarification from you on the cities interest in helping with manpower, tools, etc. If the city is going to have people there to supervise or involved in the hpu room in some capacity, then it make sense (to me) to have them be a part of the 4 man crew - no sense in having anymore than 4 in the room at once anyway since it's tight quarters. If not, then I'll plan on mobilizing some folks from Vancouver. Same goes for tools. If you have some handy great, otherwise I'll mobe from Vancouver/buy in Victoria. Just need to know the cities interest by tmw morning please.

Below are the items we estimate needing at this time and approximate timelines which are dependent on the city allowing us to use their flushing equipment.

Supplies:
6 – Clean 5-gallon buckets
2 – small drip pans (5-liter)
1 – bundle of cloth rags (disposable type)
2 – Bundle absorbent pads
1 – 10k bag of stardust oil absorber
Small can/tube grease (all-purpose type)

Tools:
Open end wrenches up to 2.5"
Hand tools
Oil transfer filter cart with 5-10micron element
Flushing block 1.5"-code 62

Activities/Manpower:
Rotate three filters 180 degrees – 4 men/1hour
Install Flushing plate at first motor and flush – 2 men/1hr X 4 places = 4 hrs
Rotate six filters 180 degrees – 4 men/2 hours
Install Flushing plate at first motor and flush – 2 men/1hr X 4 places = 4 hrs
Rotate three filters 180 degrees – 4 men/1 hour
Replace six filter elements – 4 men 2 hours
Top off reservoir – 2 men 1 hour
Operate system, testing, adjustments 2-4 hours many lifts.

Ryan Andrews
Manager, Civil Projects
PCL Constructors Westcoast, Inc.
p 604-241-5350 | **c** 250-507-8528
mailto:rtandrews@pcl.com
www.pcl.com
Connect with us on: LinkedIn, Facebook, Twitter, YouTube
Together we build success.

On Jun 30, 2019, at 12:32 PM, Ryan Andrews <rtandrews@pcl.com> wrote:

Hi Fraser,
Yes we are working on these arrangements, but please understand it's difficult to make much progress over the long weekend (many people are out of contact), which is why our immediate plan was to get the bridge operating over the weekend to give us sometime to further diagnose with Parker and come up with these plans and a ultimate fix.

Come Tuesday we will have an update that should provide some timelines for PCL /ehm/Parker arrival onsite and subsequent steps, but we will need Monday (not a holiday in the US) to allow EHM to make the necessary contact with Parker, organize equipment, etc.

Ryan Andrews
Manager, Civil Projects
PCL Constructors Westcoast, Inc.
p 604-241-5350 | **c** 250-507-8528
mailto:rtandrews@pcl.com
www.pcl.com
Connect with us on: LinkedIn, Facebook, Twitter, YouTube
Together we build success.

On Jun 30, 2019, at 10:51 AM, Fraser Work <FWork@victoria.ca> wrote:

Ryan,

I just wanted to confirm that PCL is making plans/preps for the hydraulic flushing rigs/machinery to support EHM's arrival and the necessary inspection/repairs to the JSB system.

I think it's important that we confirm your plans, the people required, the equipment and setup/staging requirements, as well as any test lifts or bridge movements.

While some of that may only be determined on tues, I wanted to touch base with you now to see if you were progressing all of the flushing equipment and coordination plans.

Please let us know your plans and what the City will have to support,

best,

Fraser

From: Ryan Andrews <rtandrews@pcl.com>
Sent: Saturday, June 29, 2019 10:43 AM
To: Brian Murphy
Cc: Mike Frost; Fraser Work; Jonathan Huggett; Michael Hanley (mhanley@ehmcompany.com); Taaj Daliran; Steve Hanley - Electro Hydraulic Machinery Company (EHM) (shanley@ehmcompany.com)
Subject: External - Re: JSB Hydraulics - Conference Call

Good news. Thx Brian.

Ryan Andrews
Manager, Civil Projects
PCL Constructors Westcoast, Inc.
p 604-241-5350 | **c** 250-507-8528
mailto:rtandrews@pcl.com
www.pcl.com
Connect with us
on: LinkedIn, Facebook, Twitter, YouTube
Together we build success.

On Jun 29, 2019, at 10:18 AM, Brian Murphy <bmurphy@victoria.ca> wrote:

Another successful lift this morning. Here's the report:

Another lift performed.
Up time 4:52m
down time 5:00
total closure time 25:00
4 crossing
All pressure indicators are cleared and no warning.
No unusual noise or vibration.

We dont have any more lift request for today as of yet.

Thanks!
Brian

Brian Murphy
Assistant Director, Public Works
City of Victoria

From: Ryan Andrews <rtandrews@pcl.com>
Sent: Saturday, June 29, 2019 7:57:25 AM
To: Brian Murphy
Cc: Mike Frost; Fraser Work; Jonathan Huggett; Michael Hanley (mhanley@ehmcompany.com); Taaj Daliran; Steve Hanley - Electro Hydraulic Machinery Company (EHM) (shanley@ehmcompany.com)
Subject: Re: JSB Hydraulics - Conference Call

PCL and EHM are in agreement.

Ryan Andrews
Manager, Civil Projects
PCL Constructors Westcoast, Inc.
p 604-241-5350 | **c** 250-507-8528
mailto:rtandrews@pcl.com
www.pcl.com
Connect with us on: LinkedIn, Facebook, Twitter, YouTube
Together we build success.

On Jun 28, 2019, at 4:29 PM, Brian Murphy <bmurphy@victoria.ca> wrote:

Thanks everyone for the efforts over the past couple days and the discussions today.

Our understanding of what was agreed this afternoon was that, given the City's verbal reports back from yesterday's and today's inspection and replacement of the five (5) filters, the parties are in general agreement that the level of risk appears to be acceptable to operate bridge lifts under the following parameters:

- Put the bridge back in service using pumps B&C only
- Turn B&C VFD's down to 20Hz
- Do not operate bridge more than twice a day until system can be flushed of all particles

The first planned bridge lift will be attempted at 6pm today (June 28) with support available from Steve Hanley from EHM by phone and City personnel on-site. City personnel will make reasonable efforts to observe and record data regarding the following

parameters during the first lift and subsequent lifts over the weekend (as personnel availability permits)

1) Speed of the lift / consistency of lift time from lift to lift
2) Pressures observed at new speed settings during bridge lifts up / down
3) Filter indicators - warnings
4) General physical observations - eg. Motor vibrations

There will be a follow-up discussion on Tuesday July 2nd at 9am Pacific regarding next steps including the intermediate step of flushing the system.

I hope this summary is consistent with everyone's understanding. Please indicate asap if there are any discrepancies or clarifications required.

Regards,
Brian Murphy

Brian Murphy
Assistant Director, Public Works
City of Victoria
417 Garbally Rd. Victoria B.C. V8T 2J9
T 250-361-0476

From: Ryan Andrews <rtandrews@pcl.com>
Sent: June 28, 2019 8:39 AM
To: Taaj Daliran <TDaliran@victoria.ca>
Cc: Brian Murphy <bmurphy@victoria.ca>; Mike Frost <MFrost@victoria.ca>; Fraser Work <FWork@victoria.ca>; Jonathan Huggett <jhuggett@jrhuggettco.com>; Michael Hanley (mhanley@ehmcompany.com) <mhanley@ehmcompany.com>
Subject: Re: JSB Hydraulics - Conference Call

Gentlemen,

Below are the discussion topics for the call. Please note that I'm boarding a ferry at 8:50 and have no idea what cell reception will be like on my end, so I apologize in advance if I get cut off. In the event I lose reception, Mike with ehm will be able to talk through the points and I will call when I have reception to get up to speed with the call and steps forward.

Major issues:

Filter O-rings are coming off of main system pressure filters
Filter plastic end caps are degrading
Filter clogging Indicators are showing bypass with new clean elements

Immediate plan:

Put the bridge back in service using pumps B&C only
Turn B&C VFD's down to 20Hz
Do not operate bridge more than twice a day until system can be flushed of all particles
Order/obtain 6 new pressure filter elements
Get flushing plate to connect motor hoses together for flushing
Get filter pump for transferring oil from 55-gallon drums to reservoir
Time frame for flushing 6-8 hours
Tentative date to flush system (As soon as tools and equipment in place)

Long range plan:

Make a plan to rectify filter issues for long term operation

Ryan Andrews
Manager, Civil Projects
PCL Constructors Westcoast, Inc.
p 604-241-5350 | **c** 250-507-8528
mailto:rtandrews@pcl.com
www.pcl.com

Connect with us on: LinkedIn, Facebook, Twitter, YouTube
Together we build success.

On Jun 28, 2019, at 8:18 AM, Taaj Daliran <TDaliran@victoria.ca> wrote:

FYI.

Warm Regards,
Taaj Daliran
Manager, Civic Services
Engineering & Public Works
City of Victoria
T: (250) 361-0459, C: (250) 883-0747

Please consider the environment before printing this email.

-----Original Appointment-----
From: Brian Murphy <bmurphy@victoria.ca>
Sent: June 27, 2019 5:53 PM
To: Brian Murphy; Taaj Daliran; Mike Frost; Fraser Work; Ryan Andrews; Jonathan Huggett; Michael Hanley (mhanley@ehmcompany.com)
Subject: JSB Hydraulics - Conference Call
When: June 28, 2019 9:00 AM-10:30 AM (UTC-08:00)

Pacific Time
(US & Canada).
Where:
Microsoft
Teams Meeting

Please join
teleconference
below at 9AM
Pacific

_____
_____
_____
_____
_____
_____
_____

Join Microsoft Teams Meeting

S. 15

Canada,
Vancouver (Toll)

Conference ID:
S. 15 #

Local numbers | Reset PIN | Learn more about Teams | Meeting options

_____
_____
_____
_____
_____
_____
_____

<JSB - Hydraulic
Components.pdf>

Rob Gordon

From: Lino Lazaro
Sent: June 30, 2019 4:02 PM
To: Brian Murphy; Alastair Campbell; Bob Amundrud; bruce@fasseafood.com; David Eggert; daveb@unitedengineering.ca; Ian Maxwell; jseabrook@ppa.gc.ca; Kevin Ashley (kashley@seaspan.com); Mariah McCooey; marinedispatch@ledcor.com; Michael C. Fournier; mmossey@schn.com; Polden, Zoe; Riccardo Regosa (rregosa@pointhopemaritime.com); Rob Menzies; sageberryman@ralmax.com; Zane Bourk; Victoria MCTS VTS Supervisor (Victoria.MCTS@dfo-mpo.gc.ca); greendylan@me.com; Ben Krop
Cc: Phil Banton; Fraser Work; Philip Bellefontaine; Bill Eisenhauer; Taaj Daliran
Subject: Update #5 JSB Marine traffic closure

Attention to all marine operators,

During this time of minimal JSB functions, through consultation with City of Victoria officials and Marine Operators, in order supply to access In and Out of the Upper Harbour the following schedule has been set. If everyone could coordinate their transit at these scheduled times it would be appreciated.

Schedule has been set for **Monday July 1st** as follows:
JSB will be raised at **09:00** and **16:00**

Schedule has been set for **Tuesday July 2nd** as follows:
JSB will be raised at **05:30** and **18:10**

Schedule will be updated again sometime on Tuesday.

Please continue to register all requests for transit by calling the Johnson Street Bridge main phone **250.385.5717**. Times mentioned above have been set by marine operators whom have registered, please be sure to make the appropriate arrangements for your transit.

Thanks, Lino

Lino Lazaro
Senior Bridge Operator – Johnson Street Bridge
Public Works – Roads and Bridges

JSB-Office: 250.385.5717 JSB-Cell: 250.883.0756

Cell: S. 22 Email: llazaro@victoria.ca

Rob Gordon

From: Brian Murphy
Sent: June 30, 2019 12:06 PM
To: Fraser Work; Philip Bellefontaine; Taaj Daliran
Subject: Re: John Street Bridge Marine Traffic Closure - Update #4

Sure we can set the lift at 6:10pm starting Tuesday. I'll let Lino know.

Brian Murphy
Assistant Director, Public Works
City of Victoria

From: Fraser Work
Sent: Sunday, June 30, 2019 10:46:38 AM
To: Brian Murphy; Philip Bellefontaine; Taaj Daliran
Subject: Re: John Street Bridge Marine Traffic Closure - Update #4

Ah yes. That makes sense. Thanks fo that.
We may want to ensure we push for 6:10 and not earlier. Marine vessels coming early at 550pm continues to be a problem.
Now that we have a new dialogue with the users, we may want to shoot for the slightly later timing.
Discuss more on tuesday!
Thanks,
Fraser

From: Brian Murphy
Sent: Sunday, June 30, 2019 9:37 AM
To: Fraser Work; Philip Bellefontaine; Taaj Daliran
Subject: Re: John Street Bridge Marine Traffic Closure - Update #4

This was discussed but the issue is the Coho at 6:50pm and congestion with multiple vessels. So really the options are 6pm (maybe 6:10) or after 7:15pm.

Brian Murphy
Assistant Director, Public Works
City of Victoria

From: Fraser Work
Sent: Sunday, June 30, 2019 8:13:16 AM
To: Brian Murphy; Philip Bellefontaine; Taaj Daliran
Subject: Re: John Street Bridge Marine Traffic Closure - Update #4

Brian,
Ideally, we would push the workday evening lifts to 6:30.

The traffic implications at 6pm are still having a big impact, due to the Bay Street bridge works.

If we feel we are in a rhythm to dictate the timings and that marine operators will be ok with the adjustment, let's go ahead and change.

If too disruptive for the Tuesday, then maybe we push the wed-Friday evening lift back 30mins.

Bridge operations and test lifts with EHM here will also have to be carefully coordinated, especially in the afternoon hours.

Please Let me know your thoughts.

Fraser

Get Outlook for iOS

From: Lino Lazaro
Sent: Saturday, June 29, 2019 7:21:24 PM
To: Brian Murphy; Alastair Campbell; Bob Amundrud; bruce@fasseafood.com; daveb@unitedengineering.ca; David Eggert; Ian Maxwell; jseabrook@ppa.gc.ca; Kevin Ashley; Mariah McCooey; marinedispatch@ledcor.com; Marty Palkovsky; Michael C. Fournier; mmossey@schn.com; Polden, Zoe; Riccardo Regosa; Rob Menzies; sageberryman@ralmax.com; Zane Bourk; Victoria MCTS VTS Supervisor (Victoria.MCTS@dfo-mpo.gc.ca); Ben Krop
Cc: Fraser Work; Bill Eisenhauer; Taaj Daliran; Philip Bellefontaine; Phil Banton
Subject: Re: John Street Bridge Marine Traffic Closure - Update #4

Hello everyone,

Currently we have no registered requests for raising the bridge on Sunday June 30.

Schedule has been set for Monday July 1st as follows:
JSB will be raised 09:00 and at 17:00

Schedule has also been set for Tuesday July 2nd as follows:
JSB will be raised 05:30 and at 18:00

Please continue to register all requests for transit by calling the Johnson Street Bridge main phone **250.385.5717**. Times mentioned above have been set by marine operators whom have registered, please be sure to make the appropriate arrangements for your transit.

I would also like to thank all marine operators for your patience and understanding.

Kind Regards,
Lino Lazaro
Senior Bridge Operator – Johnson Street Bridge
Public Works – Roads and Bridges
JSB-Office: 250.385.5717 JSB-Cell: 250.883.0756
Cell: S. 22 Email: llazaro@victoria.ca

Get Outlook for iOS

From: Brian Murphy
Sent: Friday, June 28, 2019 7:16:42 PM
To: Alastair Campbell; Bob Amundrud; bruce@fasseafood.com; daveb@unitedengineering.ca; David Eggert; Ian Maxwell; jseabrook@ppa.gc.ca; Kevin Ashley; Mariah McCooey; marinedispatch@ledcor.com; Marty Palkovsky; Michael C. Fournier; mmossey@schn.com; Polden, Zoe; Riccardo Regosa; Rob Menzies; sageberryman@ralmax.com; Zane Bourk; Victoria MCTS VTS Supervisor (Victoria.MCTS@dfo-mpo.gc.ca)
Cc: Fraser Work; Bill Eisenhauer; Taaj Daliran; Lino Lazaro; Philip Bellefontaine
Subject: Re: John Street Bridge Marine Traffic Closure - Update #3

Dear Marine Users,

The lift at 6pm this evening was successful. The next scheduled lifts are 9:30am Saturday and 6pm Saturday. These times may shift depending on consensus of all involved operators. Please continue to register all requests for passage through the Johnson Street Bridge main phone including for Sunday and Monday and onwards.

Regards,
Brian Murphy

Brian Murphy
Assistant Director, Public Works
City of Victoria

From: Brian Murphy
Sent: Friday, June 28, 2019 3:45:59 PM
To: Alastair Campbell; Bob Amundrud; bruce@fasseafood.com; daveb@unitedengineering.ca; David Eggert; Ian Maxwell; jseabrook@ppa.gc.ca; Kevin Ashley; Mariah McCooey; marinedispatch@ledcor.com; Marty Palkovsky; Michael C. Fournier; mmossey@schn.com; Polden, Zoe; Riccardo Regosa; Rob Menzies; sageberryman@ralmax.com; Zane Bourk; Victoria MCTS VTS Supervisor (Victoria.MCTS@dfo-mpo.gc.ca)
Cc: Fraser Work; Bill Eisenhauer; Taaj Daliran; Lino Lazaro; Philip Bellefontaine
Subject: RE: John Street Bridge Marine Traffic Closure - Update #3

Johnson Street Bridge Lift Update # 3 for Marine Users

As discussed in the 3pm conference call today, please be advised of the following:

The Johnson Street Bridge hydraulic lift system is restored to limited operation.
There will be a scheduled lift at 6 p.m. today for vessels that are currently registered (six total – four outbound; two inbound)
Marine traffic will be coordinated with the Harbour Master and marine operators (MCTS) to coordinate the transit and the order of entry and exit

The Johnson Street Bridge will have limited capability to perform a limited number of lifts only (based on current conditions). Lifts will be performed under a monitoring mode and a limited number of lifts will be performed only at scheduled times. The time(s) will likely be established and notified as a fixed schedule (to be determined). This will be the procedure through the weekend and into next week.

- The bridge operator will be work with the Harbour Master, marine operations, and marine operators to coordinate the daily lift(s)
- We will continue to work to increase the capabilities to allow for an increased number of lifts. Any changes will be communicated with marine operators
- Vessels should call into the bridge as they normally would to log their needs and to be entered onto the registry for the next scheduled lift

Thank you for your patience and understanding.

Regards,
Brian Murphy

Brian Murphy
Assistant Director, Public Works
City of Victoria
417 Garbally Rd. Victoria B.C. V8T 2J9
T 250-361-0476

From: Brian Murphy
Sent: June 28, 2019 1:01 PM
To: Alastair Campbell <acampbell@pointhopemaritime.com>; Bob Amundrud <bob.amundrud@ledcor.com>; bruce@fasseafood.com; daveb@unitedengineering.ca; David Eggert <dave@salts.ca>; Ian Maxwell <ianmaxwell@ralmax.com>; jseabrook@ppa.gc.ca; Kevin Ashley <kashley@seaspan.com>; Mariah McCooey <mariah.mccooey@tc.gc.ca>; marinedispatch@ledcor.com; Marty Palkovsky <mpalkovsky@schn.com>; Michael C. Fournier <michaelfournier@ralmax.com>; mmossey@schn.com; Polden, Zoe <zoe.polden@tc.gc.ca>; Riccardo Regosa <rregosa@pointhopemaritime.com>; Rob Menzies <robmenzies@salishseaind.com>; sageberryman@ralmax.com; Zane Bourk <zbourk@victoria.ca>
Cc: Fraser Work <FWork@victoria.ca>; Bill Eisenhauer <beisenhauer@victoria.ca>; Taaj Daliran <TDaliran@victoria.ca>; Lino Lazaro <llazaro@victoria.ca>
Subject: John Street Bridge Marine Traffic Closure - Update #2
Importance: High

Johnson Street Bridge Lift Update # 2 for Marine Users

Dear Marine Users,

Staff are completing their inspection and maintenance of the hydraulic system and we will be able to confirm at 3pm today <u>if and when</u> we will be able to schedule a coordinated bridge lift today and the outlook for <u>scheduled</u> bridge lifts over the weekend. We recognize the impact the temporary closure is having on your operations. Everyone is working hard to address this situation as quickly as possible.

We are working towards a scheduled coordinated bridge lift at approximately 6 pm today and will confirm details as soon as the inspection is complete. Until this bridge lift is confirmed, this is a planned lift only and is <u>not yet confirmed</u>. If this bridge lift goes ahead as anticipated, your cooperation with marine traffic coordination will be critical.

We will hold a conference call at 3:00pm for those who would like to get an update and answers to any questions.
Please call S. 15 to connect. The Access Code is S. 15 #

Please continue to log all lift requests through Lino Lazaro and these requests will be taken into consideration when bridge lift functionality is restored.

Regards,
Brian Murphy

Brian Murphy
Assistant Director, Public Works
City of Victoria
417 Garbally Rd. Victoria B.C. V8T 2J9
T 250-361-0476

From: Brian Murphy
Sent: June 27, 2019 4:55 PM
To: Alastair Campbell <acampbell@pointhopemaritime.com>; Bob Amundrud <bob.amundrud@ledcor.com>; marinedispatch@ledcor.com; David Eggert <dave@salts.ca>; jseabrook@ppa.gc.ca; Kevin Ashley <kashley@seaspan.com>; Mariah McCooey <mariah.mccooey@tc.gc.ca>; Michael C. Fournier <michaelfournier@ralmax.com>; Riccardo Regosa <rregosa@pointhopemaritime.com>; Zane Bourk <zbourk@victoria.ca>; Taaj Daliran <TDaliran@victoria.ca>; Polden, Zoe <zoe.polden@tc.gc.ca>; river_dispatch@Seaspan.com; egd-sj@frpd.com; gfonda@pactow.com; Phil Banton <pbanton@victoria.ca>; Lino Lazaro <llazaro@victoria.ca>
Cc: Sheldon Johnson <sjohnson@victoria.ca>
Subject: RE: EFFECTIVE IMMEDIATELY - Johnson Street Bridge Closure

Dear Marine Users,

As stated below, the Johnson Street Bridge is closed for bridge lifts due to maintenance effective immediately for all marine transit users, until further notice.

We recognize the impact of this step to marine operations and are reviewing options to restore lift capability in the shortest timeline. At this time, we do not have an estimated return to service timeline for bridge lifts including the next 24 hours. However, we are committed to providing regular updates as soon as they are available.

In the meantime, please log all lift requests through Lino Lazaro and these requests will be taken into consideration when bridge lift functionality is restored.

Lino Lazaro
Senior Bridge Operator – Johnson Street Bridge
Public Works – Roads and Bridges
JSB-Office: 250.385.5717 JSB-Cell: 250.883.0756
Cell: S. 22 Email: llazaro@victoria.ca

Regards,
Brian Murphy

Brian Murphy
Assistant Director, Public Works

Engineering and Public Works Department
417 Garbally Rd. Victoria B.C. V8T 2J9
T 250-361-0476

From: Zane Bourk <zbourk@victoria.ca>
Sent: June 27, 2019 2:31 PM
To: Alastair Campbell <acampbell@pointhopemaritime.com>; Bob Amundrud <bob.amundrud@ledcor.com>; marinedispatch@ledcor.com; David Eggert <dave@salts.ca>; jseabrook@ppa.gc.ca; Kevin Ashley <kashley@seaspan.com>; Mariah McCooey <mariah.mccooey@tc.gc.ca>; Michael C. Fournier <michaelfournier@ralmax.com>; Riccardo Regosa <rregosa@pointhopemaritime.com>; Taaj Daliran <TDaliran@victoria.ca>; Polden, Zoe <zoe.polden@tc.gc.ca>; river_dispatch@Seaspan.com; egd-sj@frpd.com; gfonda@pactow.com; Brian Murphy <bmurphy@victoria.ca>; Phil Banton <pbanton@victoria.ca>; Lino Lazaro <llazaro@victoria.ca>
Subject: EFFECTIVE IMMEDIATELY - Johnson Street Bridge Closure
Importance: High

Good afternoon,

Due to unforeseen mechanical maintenance,

EFFECTIVE IMMEDIATELY the Johnson Street Bridge will be CLOSED to all marine transit users requiring a bridge lift for access in and out of the Upper Harbour.

We are sorry for the inconvenience and we'll notify all marine transit users when the bridge is fully operational again. Please contact Brian Murphy, Assistant Director – Public Works, with any questions, comments, or concerns at 250-883-6489.

Regards,

Zane Bourk
Supervisor - Roads and Bridges
Public Works
T 250.361.0230 C 778.350.2947

Rob Gordon

From: Jocelyn Jenkyns
Sent: June 29, 2019 10:20 AM
To: Councillors
Cc: Brian Murphy; Fraser Work; Bill Eisenhauer; Colleen Mycroft; Susanne Thompson
Subject: JSB Update — Successful lift this am

Good morning Council. Public Works staff have just reported that the bridge lift this morning was conducted successfully with no issues.

Have a great weekend!

Regards,
Jocelyn

Sent from my iPhone

Rob Gordon

From: Taaj Daliran
Sent: June 29, 2019 10:08 AM
To: Fraser Work; Brian Murphy; Jonathan Huggett; Mike Frost
Subject: Re: JSB Hydraulics - Conference Call

Hi,

Another lift performed.
Up time 4:52m
down time 5:00
total closure time 25:00
4 crossing
All pressure indicators are cleared and no warning.
No unussual noise or vibration.

We dont have any more lift request for today as of yet.

Regards,
Taaj Daliran
Sent from my mobile device

From: Fraser Work
Sent: Saturday, June 29, 2019 8:51:18 AM
To: Brian Murphy; Jonathan Huggett; Mike Frost; Taaj Daliran
Subject: Re: JSB Hydraulics - Conference Call

Good morning gents,
I hope all had some well deserved rest.

A few comments as we move forward into the next phase of bridge management:

1. **System Logging**: Please ensure we are logging important parameters during bridge lifts until fixes are in place. The operators should be documenting any parameters (pressures, warnings, etc), so that we can provide a comprehensive list of daily system parameters, for EHM to review when they arrive or any time we could have an issue. This may be possible via the control system, but we may have to do visual or manual gauge readings....not sure.
2. S. 17

3.

4. S. 13, S. 17

5.

Thanks for all the hard work.
I'll talk more with Jonathan on the above, and we will regroup next week with EHM here, to discuss these matters and define the asset management details that need to be firmed-up.

Have a good wknd and please let me know by phone if anything changes.

best,
Fraser

From: Brian Murphy
Sent: Friday, June 28, 2019 4:29 PM
To: Ryan Andrews
Cc: Mike Frost; Fraser Work; Jonathan Huggett; Michael Hanley (mhanley@ehmcompany.com); Taaj Daliran; Steve Hanley - Electro Hydraulic Machinery Company (EHM) (shanley@ehmcompany.com)
Subject: RE: JSB Hydraulics - Conference Call

Thanks everyone for the efforts over the past couple days and the discussions today.

Our understanding of what was agreed this afternoon was that, given the City's verbal reports back from yesterday's and today's inspection and replacement of the five (5) filters, the parties are in general agreement that the level of risk appears to be acceptable to operate bridge lifts under the following parameters:

- Put the bridge back in service using pumps B&C only
- Turn B&C VFD's down to 20Hz
- Do not operate bridge more than twice a day until system can be flushed of all particles

The first planned bridge lift will be attempted at 6pm today (June 28) with support available from Steve Hanley from EHM by phone and City personnel on-site. City personnel will make reasonable efforts to observe and record data regarding the following parameters during the first lift and subsequent lifts over the weekend (as personnel availability permits)

1) Speed of the lift / consistency of lift time from lift to lift
2) Pressures observed at new speed settings during bridge lifts up / down
3) Filter indicators - warnings
4) General physical observations - eg. Motor vibrations

There will be a follow-up discussion on Tuesday July 2nd at 9am Pacific regarding next steps including the intermediate step of flushing the system.

I hope this summary is consistent with everyone's understanding. Please indicate asap if there are any discrepancies or clarifications required.

Regards,
Brian Murphy

Brian Murphy
Assistant Director, Public Works
City of Victoria
417 Garbally Rd. Victoria B.C. V8T 2J9
T 250-361-0476

From: Ryan Andrews <rtandrews@pcl.com>
Sent: June 28, 2019 8:39 AM
To: Taaj Daliran <TDaliran@victoria.ca>
Cc: Brian Murphy <bmurphy@victoria.ca>; Mike Frost <MFrost@victoria.ca>; Fraser Work <FWork@victoria.ca>; Jonathan Huggett <jhuggett@jrhuggettco.com>; Michael Hanley (mhanley@ehmcompany.com) <mhanley@ehmcompany.com>
Subject: Re: JSB Hydraulics - Conference Call

Gentlemen,
Below are the discussion topics for the call. Please note that I'm boarding a ferry at 8:50 and have no idea what cell reception will be like on my end, so I apologize in advance if I get cut off. In the event I lose reception, Mike with ehm will be able to talk through the points and I will call when I have reception to get up to speed with the call and steps forward.

Major issues:
Filter O-rings are coming off of main system pressure filters
Filter plastic end caps are degrading
Filter clogging Indicators are showing bypass with new clean elements

Immediate plan:
Put the bridge back in service using pumps B&C only
Turn B&C VFD's down to 20Hz
Do not operate bridge more than twice a day until system can be flushed of all particles
Order/obtain 6 new pressure filter elements
Get flushing plate to connect motor hoses together for flushing
Get filter pump for transferring oil from 55-gallon drums to reservoir
Time frame for flushing 6-8 hours
Tentative date to flush system (As soon as tools and equipment in place)

Long range plan:
Make a plan to rectify filter issues for long term operation

Ryan Andrews

Manager, Civil Projects
PCL Constructors Westcoast, Inc.
p 604-241-5350 | **c** 250-507-8528
mailto:rtandrews@pcl.com
www.pcl.com
Connect with us on: LinkedIn, Facebook, Twitter, YouTube
Together we build success.

On Jun 28, 2019, at 8:18 AM, Taaj Daliran <TDaliran@victoria.ca> wrote:

FYI.

Warm Regards,
Taaj Daliran
Manager, Civic Services
Engineering & Public Works
City of Victoria
T: (250) 361-0459, C: (250) 883-0747

Please consider the environment before printing this email.

-----Original Appointment-----
From: Brian Murphy <bmurphy@victoria.ca>
Sent: June 27, 2019 5:53 PM
To: Brian Murphy; Taaj Daliran; Mike Frost; Fraser Work; Ryan Andrews; Jonathan Huggett; Michael Hanley (mhanley@ehmcompany.com)
Subject: JSB Hydraulics - Conference Call
When: June 28, 2019 9:00 AM-10:30 AM (UTC-08:00) Pacific Time (US & Canada).
Where: Microsoft Teams Meeting

Please join teleconference below at 9AM Pacific

Join Microsoft Teams Meeting

S. 15 Canada, Vancouver (Toll)

Conference ID: S. 15

Local numbers | Reset PIN | Learn more about Teams | Meeting options

---

<JSB - Hydraulic Components.pdf>

Rob Gordon

From: Taaj Daliran
Sent: June 28, 2019 7:11 PM
To: Brian Murphy; Mike Frost; Dennis Galisky; Ben Krop; Lino Lazaro
Cc: Fraser Work; Phil Banton; Zane Bourk
Subject: Re: Bridge lift - 6 pm tonight Friday 28th June 2019

Hi Brian

The 6 pm lift was performed:
time going up 4:45
time going down 4:56
drive pumps pressure was normal
pressure pump did not show any pressure
all pressure indicators stayed green
no unusual noise or viberation
after the lift Stephen Hanley guided us to disconnect pump A solenoid
we did another partial lift to check the charge pump pressure no change
at the end Stephen confirmed that we can perform two lifts per day until Michael arrives on Monday.

Regards,
Taaj Daliran
Sent from my mobile device

From: Brian Murphy
Sent: Friday, June 28, 2019 4:31:39 PM
To: Mike Frost; Dennis Galisky; Ben Krop; Taaj Daliran; Lino Lazaro
Cc: Fraser Work; Phil Banton; Zane Bourk
Subject: RE: Bridge lift - 6 pm tonight Friday 28th June 2019

Thanks Mike and everyone.

Note our commitment is to monitor the following parameters during the first lift and subsequent lifts over the week, as much as reasonably possible:

1) Speed of the lift / consistency of lift time from lift to lift
2) Pressures observed at new speed settings during bridge lifts up / down
3) Filter indicators - warnings
4) General physical observations - eg. Motor vibrations

Please establish a physical log for this.

Thanks
Brian

From: Mike Frost <MFrost@victoria.ca>
Sent: June 28, 2019 4:09 PM
To: Dennis Galisky <dgalisky@victoria.ca>; Ben Krop <BKrop@victoria.ca>; Taaj Daliran <TDaliran@victoria.ca>; Lino Lazaro <llazaro@victoria.ca>; Brian Murphy <bmurphy@victoria.ca>
Cc: Fraser Work <FWork@victoria.ca>; Phil Banton <pbanton@victoria.ca>; Zane Bourk <zbourk@victoria.ca>
Subject: Bridge lift - 6 pm tonight Friday 28th June 2019
Importance: High

All

The plan is in place for tonight's bridge lift;

- Attending are Taaj, Dennis , Ben and Lino. Stephen from EHM is on standby – Taaj has the contact details
- The primary Motor A has been 'locked out' and isolated as per EHM request, Lino and Zane are key holders for the locked motor only.
- The VFD settings have been changed from original 50Hz down to 20 Hz as per EHM/PLC instructions , ***the bridge lift is estimated to take 2.5 times as long as usual***
- Ben has been advised to be in the hydraulic room during the lift and return cycle and document /monitor the pressure gauges in the room
- Lino please begin logging bridge 'lift times'. The goal is to begin the build a performance log of the bridge behaviour under the new operating parameters

NOTE: Ben has offered to be available to support mechanical systems during bridge lifts over the weekend to continue monitoring pressures during bridge lifts – thanks Ben for the support, much appreciated.

Thanks all for a great team effort this week

Mike

Mike Frost P.Eng. PMP
Manager of Fleet
Engineering & Public works Dept.
City of Victoria
417 Garbally Rd. Victoria B.C. V8T 2J9
T 250.361 0419

Rob Gordon

From: Brian Murphy
Sent: June 28, 2019 6:34 PM
To: Taaj Daliran; Fraser Work; Bill Eisenhauer; Philip Bellefontaine; Jocelyn Jenkyns; Colleen Mycroft
Cc: Daniel Atkinson
Subject: Re: JSB - Check-in

Hi everyone,

Quick update - bridge lift was successful and traffic is restored. There was a fault however which needs to be resolved before the next lift.

Next lift planned for 9am tomorrow but that will need to be confirmed based on this fault.

Thanks
Brian

From: Brian Murphy
Sent: June 28, 2019 4:43 PM
To: Taaj Daliran; Fraser Work; Bill Eisenhauer; Philip Bellefontaine; Jocelyn Jenkyns; Colleen Mycroft
Cc: Daniel Atkinson
Subject: JSB - Check-in
When: June 29, 2019 2:00 PM-2:45 PM.
Where: Skype Meeting

.....

Join Skype Meeting

Trouble Joining? Try Skype Web App

Join by phone

Toll number: S. 15 # (Dial-in Number) English (United States)

Find a local number

Conference ID: S. 15

Forgot your dial-in PIN? | Help

.....

Proposed conference call to compare notes on path forward after the 6pm lift Friday and a planned 1pm lift Saturday.

Rob Gordon

From: Jocelyn Jenkyns
Sent: June 28, 2019 3:39 PM
To: Councillors
Cc: Bill Eisenhauer; Fraser Work; Colleen Mycroft; Susanne Thompson
Subject: Updated KMs for JSB

Council — see below for Key Messages re: JSB.

Regards,
Jocelyn

Sent from my iPhone

Begin forwarded message:

> **From:** Bill Eisenhauer <beisenhauer@victoria.ca>
> **Date:** June 28, 2019 at 3:27:13 PM PDT
> **To:** Brian Murphy <bmurphy@victoria.ca>, Fraser Work <FWork@victoria.ca>, Colleen Mycroft <cmycroft@victoria.ca>, Jocelyn Jenkyns <JJenkyns@victoria.ca>
> **Cc:** Bridget Frewer <bfrewer@victoria.ca>, Sheldon Johnson <sjohnson@victoria.ca>
> **Subject: Updated KMs**
>
> - The Johnson Street Bridge hydraulic lift system is back in operation.
> - We will hold a scheduled lift at 6 p.m. today for vessels.
> - We are working with the harbour master and marine operators to coordinate the transit. My understanding right now is that there are 6 vessels to transit – four vessels outbound and two vessels inbound.
> - We have capability to provide lifts, but lifts will be operating in a monitoring mode. There will be a limited number of lifts and these lifts will be at scheduled times. This will be the procedure through the weekend and into next week.
> - We will be working with the Harbour Master and marine operators to coordinate the lift daily.
> - As capabilities increase we will increase the number of lifts and be communicating this with marine operators.
> - Vessels should call into the bridge as they normally would to log their needs and get on the registry for the next scheduled lift.
>
> Bill Eisenhauer
> Head of Engagement
> City of Victoria
> 627 Pandora Ave, Victoria BC V8W 1N8
>
> **T** 250.361.0210 **C** 250.858.1061

Rob Gordon

From: Bill Eisenhauer
Sent: June 28, 2019 3:24 PM
To: Colleen Mycroft; Jocelyn Jenkyns
Cc: Brian Murphy; Fraser Work; Bridget Frewer; Sheldon Johnson
Subject: KMs

I am going to do some media now with this messaging so it is on the evening TV news and radio.
Jocelyn / Colleen you can use to update Council. We will also prep social to go out shortly then again just as lift begins and when complete.

- The Johnson Street Bridge hydraulic lift system is back in operation.
- We will hold a scheduled lift at 6 p.m. today for vessels.
- We are working with the harbour master and marine operators to coordinate the transit. My understanding right now is that there are 5 vessels to transit – four vessels outbound and two vessels inbound. We estimate this will take approximately 30 minutes. Drivers, pedestrians and cyclists are advised to plan alternative routes if they can.
- We have capability to provide lifts, but lifts will be operating in a monitoring mode. There will be a limited number of lifts and these lifts will be at scheduled times. This will be the procedure through the weekend and into next week.
- We will be working with the Harbour Master and marine operators to coordinate the lift daily.
- As capabilities increase we will increase the number of lifts and be communicating this with marine operators.

Bill Eisenhauer
Head of Engagement
City of Victoria
627 Pandora Ave, Victoria BC V8W 1N8

T 250.361.0210 **C** 250.858.1061

Rob Gordon

From: Charlayne Thornton-Joe (Councillor)
Sent: June 28, 2019 3:04 PM
To: Jocelyn Jenkyns; Councillors
Cc: Bill Eisenhauer; Fraser Work; Susanne Thompson; Colleen Mycroft
Subject: Re: Update on JSB

I am on CBC talking about Canada day is they ask me about the bridge...can I say any of this.

Get Outlook for iOS

From: Jocelyn Jenkyns
Sent: Friday, June 28, 2019 1:24:23 PM
To: Councillors
Cc: Bill Eisenhauer; Fraser Work; Susanne Thompson; Colleen Mycroft
Subject: Update on JSB

Good afternoon Council.

Staff are completing their inspection and maintenance of the hydraulic system and we will be able to confirm in a couple hours if and when we will be able to schedule a coordinated bridge lift today and what the plan will be for over the weekend.

Staff are working hard with PCL and the hydraulic lift system designers to get the system back online as quickly as possible. We have been working directly with the Harbour Master and marine operators to keep everyone informed of progress and the plan for today.

The problem was discovered during routine maintenance yesterday. The hydraulic system is currently under warranty. This is the first time we have had this issue with the hydraulic system.

The bridge remains open as usual to vehicles, pedestrians and cyclists.

We will provide another update later this afternoon once plans are confirmed.

Regards,
Jocelyn

Sent from my iPhone

Rob Gordon

Subject: JSB Filter Change Update
Location: Skype Meeting

Start: Fri 2019-06-28 1:15 PM
End: Fri 2019-06-28 2:15 PM
Show Time As: Tentative

Recurrence: (none)

Meeting Status: Not yet responded

Organizer: Brian Murphy
Required Attendees: Fraser Work; Mike Frost; Bill Eisenhauer; Philip Bellefontaine

Please join asap if you can

Join Skype Meeting

Trouble Joining? Try Skype Web App

Join by phone

Toll number: S. 15 # (Dial-in Number) English (United States)

Find a local number

Conference ID: S. 15

Forgot your dial-in PIN? | Help

S. 14

From: Fraser Work <FWork@victoria.ca>
Sent: Thursday, June 27, 2019 5:42 PM
To: Brian Murphy <bmurphy@victoria.ca>; Jocelyn Jenkyns <JJenkyns@victoria.ca>; Philip Bellefontaine <pbellefontaine@victoria.ca>; Jonathan Huggett <jhuggett@jrhuggettco.com>; Bill Eisenhauer <beisenhauer@victoria.ca>
Cc: Jas Paul <JPaul@victoria.ca>; Tom Zworski <tzworski@victoria.ca>; Colleen Mycroft <cmycroft@victoria.ca>; Taaj Daliran <TDaliran@victoria.ca>; Mike Frost <MFrost@victoria.ca>; Sheldon Johnson <sjohnson@victoria.ca>
Subject: Re: Johnson Street Bridge Lifts - Closed to Marine Transit
Importance: High

Jocelyn et al,

As you know - the failure of the bridge hydraulic filters has raised concerns about its safe and effective operation, and we have direction from both PCL and EHM to avoid any bridge lifts until further notice.

Staff had recently replaced the filters and found some evidence of non-normal degradation, and took action to engage EHM and PCL with our findings.

There are significant concerns that we could impose damage if we operated the bridge in its current state due to S. 17

The bridge remains closed until we can remedy the issue, and gain assurance that operating won't damage the bridge structure, components, or have it fail stuck in a partial/open position.

The following points / next steps are important for our consideration:

1. Marine users have been informed, and will be impacted more severely with any prolonged operations. We are aware of the increased risks to continued closures of the marine channel, and are reaching out to those users to assess the risk of a prolonged marine closure.
2. We have asked PCL to assemble a team and get over here ASAp to coordinate inspection/repairs.
3. S. 14

4. We are still awaiting direction from the system designer EHM, who has yet to offer definitive guidance, direction, and trouble shooting. They are reviewing the information and are supposed to be back in touch with direction tomorrow. They are in Flordia (EST).
5. Staff will obtain a more fulsome risk assessment from PCL and EHM to determine the risks of failure of the bridge during a lift, so we can assess likelihood and severity of a bridge being stuck partially or fully open, versus any loss of bridge control during a lift operation, and potential structural damage.
6. Staff are trying to help source a local hydraulic flushing rig, which may be available at local shipyard (DND, VicShip or Point Hope) - in case we need that tomorrow to flush the system and remove debris. PCL should be able to do on their own, but we will suss out options.
7. Staff is also trying to get a hold of Justin Sieg (PCL) who project managed the bridge construction, and who is very familiar with the system. In case he has insights/pointers.
8. With PCL, Staff will inspect the new filtered oil currently on the JSB, to see if there's any sign of increased debris and wear.
9. Staff will work with PCL and EHM to assess any options to inspect the motors for any signs of wear/debris.
10. Staff are assessing what overall system performance monitoring could be required, in the event of a bridge operation, in degraded mode (temps/pressures/flow/vibration/etc).
11. Staff will work to rule-out any other control system anomalies to ensure we have isolated the fault to only the hydraulic mechanical system.
12. Staff should pull the health-monitoring data from the equipment data logs and see if there's any evidence of bridge performance changes / degradation, over time, that could help in our trouble-shooting and options analysis.
13. Staff (philip) - please assess the option to fully open the bay street bridge to road traffic, in case we determine a partial opening of the JSB is prudent, or if we can't recover from an opening. What would be required to safely open the bay street bridge if we lost the JSB to road traffic (in case!).
14. S. 14

15. S. 13

16. **Comms Support: Continued and delicate comms with marine users and potentially the public will be required. I suggest a single point of contact in engagement to do this, while the E&PW work on technical issues. Bill - for yours to consider. Some marine users may have to relocate into the inner harbour, which could require coordination with GVHA and TC Harbour Master. I would suggest a full comms plan and sheldon being the point of contact to reduce risks to business, and to the City. thoughts?
17. Draft BN / note to Council - just below for Jocelyn to review and send, where appropriate.

Brian - please include me and PCL on that call tomorrow (and Jonathan Huggest) to review the above and any/all investigation, risk analysis, and options analysis considerations. I will be avail for that call. Please send details via outlook meeting request.

Friday before a long weekend. Work and resources will have to be planned adequately to ensure we can reopen as soon as possible.

Based on what happens tomorrow am, I will reassess whether I have to get back to Vic.

Thanks

Fraser

Note to Council:

Council,
A recent JSB hydraulic oil system inspection has revealed increased wear on system components and debris entrained in the oil, which poses risk of damage and/or fault to the bridge during lifting and machinery operation.
Based on guidance from PCL and hydraulic system designers, we have removed the bridge from service until a reasonable mitigation and repair plan has been put in place.

The road and pathways remains fully serviceable.
City staff continue to work with marine users to mitigate risks of delay and disruptions posed by closure of the marine channel.

Staff are working with Jonathan Hugget, PCL and the OEM, and will provide updates when more information is available.

All parties continue to work through the problem as a top priority.

best,

Fraser

Rob Gordon

From: Taaj Daliran
Sent: June 28, 2019 12:04 PM
To: Mariah McCooey (Mariah.McCooey@tc.gc.ca)
Cc: Brian Murphy; Fraser Work; Lino Lazaro
Subject: JSB - Crossing

Importance: High

Hi Mariah,

Following our phone conversation, here is the list of marine crossing requests;
As mentioned by 2pm we will know if we can lift the bridge, and if decided to proceed, then considering the long weekend road traffic flow, we aim for one lift at 6pm today.
I thank you in advance for coordinating the marine traffic flow to minimize the JSB opening time while planning priority for safe crossing of the vessels.

Inbound

- **Leroy S. Ledcor (gravel barge) Kyle or Dustin** S. 22
- **Ocean Pearl (fishing vessel) Art** S. 22

Outbound

- **Pacific Swift (tall ships) Dave Eggert** S. 22
- **Pacific Grace (tall ships) Dave Eggert** S. 22
- **Nordic Spirit (fishing vessel) Alec** S. 22

Regards,
Taaj Daliran
Manager, Civic Services
Engineering & Public Works
City of Victoria
417 Garbally Rd. Victoria B.C. V8T 2J9
T: (250) 361-0459, F: (250) 361-0453, C: (250) 883-0747
http://www.victoria.ca/
Please consider the environment before printing this email.

Rob Gordon

Subject:	Canceled: JSB Hydraulics - Conference Call
Location:	Microsoft Teams Meeting
Start:	Fri 2019-06-28 9:00 AM
End:	Fri 2019-06-28 10:30 AM
Show Time As:	Free
Recurrence:	(none)
Meeting Status:	Not yet responded
Organizer:	Brian Murphy
Required Attendees:	Jonathan Huggett; Fraser Work; Taaj Daliran; Bill Eisenhauer; Ryan Andrews
Importance:	High

Join Microsoft Teams Meeting

S. 15 Canada, Vancouver (Toll)

Conference ID: S. 15

Local numbers | Reset PIN | Learn more about Teams | Meeting options

---

Rob Gordon

From: Brian Murphy
Sent: June 28, 2019 9:18 AM
To: Bill Eisenhauer
Cc: Fraser Work; Sheldon Johnson
Subject: RE: KMs - JSB Maintenance

New call in coming shortly

From: Bill Eisenhauer <beisenhauer@victoria.ca>
Sent: June 28, 2019 8:53 AM
To: Brian Murphy <bmurphy@victoria.ca>
Cc: Fraser Work <FWork@victoria.ca>; Sheldon Johnson <sjohnson@victoria.ca>
Subject: Re: KMs - JSB Maintenance

I just received our first media inquiry from CFAX.

Bill Eisenhauer
Head of Engagement
City of Victoria
1 Centennial Square
Victoria, BC V8W 1P6
250.361.0210 office
250.858.1061 mobile

On Jun 28, 2019, at 8:49 AM, Brian Murphy <bmurphy@victoria.ca> wrote:

> Bill we have a conference call at 9am. Will have to talk after that.
>
> ---
>
> **From:** Bill Eisenhauer <beisenhauer@victoria.ca>
> **Sent:** June 28, 2019 8:49 AM
> **To:** Fraser Work <FWork@victoria.ca>
> **Cc:** Brian Murphy <bmurphy@victoria.ca>; Sheldon Johnson <sjohnson@victoria.ca>
> **Subject:** Re: KMs - JSB Maintenance
>
> Brian, I'll call you at 9 for a status update. We can prepare for what we can communicate to marine users as an update. Comms plan yesterday included call arounds to the user group and keeping that up will be much appreciated. Especially if special arrangements need to be made for coordinated transit.
>
> Bill
>
> Bill Eisenhauer
> Head of Engagement
> City of Victoria
> 1 Centennial Square
> Victoria, BC V8W 1P6
> 250.361.0210 office
> 250.858.1061 mobile

On Jun 28, 2019, at 7:44 AM, Fraser Work <FWork@victoria.ca> wrote:

Thanks Bill.

I think we need to get into a rhythm where we are regularly informing the marine user group of the updates/ issues, and the way ahead, and hear / understand their risks/issues.

Lino will have a list of calls he's received from any mariner.

a conf call or regular update via email with harbour master and marine operators / stakeholder Would be a good plan, to meet their needs and reduce media churn. I'm sure they'd like a call....rather than just email.

Today, We may end up in a situation where we can provide a controlled bridge lift, where all mariners will need to be coordinated to exit and enter the upper harbour. Order, timing and duration would have to be orchestrated carefully to reduce risks and impacts to all bridge users. The importance of getting this right on a Friday of Canada Day wknd cannot be understated.

Let's plan for an update to all mariners just after 10am, if possible.

Fraser

Get Outlook for iOS

From: Bill Eisenhauer <beisenhauer@victoria.ca>
Sent: Thursday, June 27, 2019 10:33 PM
To: Fraser Work
Cc: Brian Murphy; Sheldon Johnson
Subject: FW: KMs - JSB Maintenance

Fraser, we've worked this up to hold us over tomorrow with questions from marine users and the media if it comes to that. Let us know what you think.

S. 13

Sheldon is in interviews most of day tomorrow so I will be stickhandling this one. Until you are back I can be the media spokesperson, with Brian's help to prep me. Depending on JH's availability we can also consider that as option, depending on nature of enquiries and timing (as he's in different time zone right now).

I can keep evolving this tomorrow as new info from the site comes in.

-Bill

Bill Eisenhauer
Head of Engagement

City of Victoria
627 Pandora Ave, Victoria BC V8W 1N8

T 250.361.0210 **C** 250.858.1061

<image001.gif> <image002.png><image003.gif> <image004.gif> <image005.gif>

Rob Gordon

From: Bill Eisenhauer
Sent: June 28, 2019 8:57 AM
To: Jonathan Huggett
Cc: Fraser Work; Jocelyn Jenkyns
Subject: Re: EFFECTIVE IMMEDIATELY - Johnson Street Bridge Closure

We have our first media enquiry just in from CFAX. I will join the 9 am conference call.

Bill Eisenhauer
Head of Engagement
City of Victoria
1 Centennial Square
Victoria, BC V8W 1P6
250.361.0210 office
250.858.1061 mobile

On Jun 28, 2019, at 12:20 AM, Jonathan Huggett <jhuggett@jrhuggettco.com> wrote:

> Bill
>
> Sorry to spring this on you. We need to get on top of the communications and media issues as a matter of urgency
>
> Thanks
>
> Jonathan
>
> Jonathan R. Huggett P.Eng (BC, Alberta, Ont)
> Tel (604) 531-0441
> Cell: (604) 671-2359
> E-Mail: jhuggett@jrhuggettco.com
>
> ---
>
> **From:** Ian Maxwell <ianmaxwell@ralmax.com>
> **Date:** Thursday, June 27, 2019 at 8:14 PM
> **To:** Jonathan Huggett <jhuggett@jrhuggettco.com>, Sage Berryman <sageberryman@ralmax.com>
> **Subject:** FW: EFFECTIVE IMMEDIATELY - Johnson Street Bridge Closure
>
> Jonathan what is going on?
> This makes it hard to be supportive after we were trapped outside the bridge for two hours earlier this week.
>
> Ian
>
> ---
>
> **From:** Sage Berryman
> **Sent:** June 27, 2019 7:27 PM
> **To:** Riccardo Regosa

Cc: Ian Maxwell
Subject: Re: EFFECTIVE IMMEDIATELY - Johnson Street Bridge Closure

Is this all the notice you were given?

On Jun 27, 2019, at 5:57 PM, Riccardo Regosa <rregosa@pointhopemaritime.com> wrote:

> Not effecting us immediately as was the next vessel is planned to come mid-July.
> We have some clients which cannot leave…..
>
> Kind regards,
>
> Riccardo
>
> ---
>
> **From:** Brian Murphy <bmurphy@victoria.ca>
> **Sent:** June 27, 2019 4:55 PM
> **To:** Alastair Campbell <acampbell@pointhopemaritime.com>; Bob Amundrud <bob.amundrud@ledcor.com>; marinedispatch@ledcor.com; David Eggert <dave@salts.ca>; jseabrook@ppa.gc.ca; Kevin Ashley <kashley@seaspan.com>; Mariah McCooey <mariah.mccooey@tc.gc.ca>; Michael C. Fournier <michaelfournier@ralmax.com>; Riccardo Regosa <rregosa@pointhopemaritime.com>; Zane Bourk <zbourk@victoria.ca>; Taaj Daliran <TDaliran@victoria.ca>; Polden, Zoe <zoe.polden@tc.gc.ca>; river_dispatch@Seaspan.com; egd-sj@frpd.com; gfonda@pactow.com; Phil Banton <pbanton@victoria.ca>; Lino Lazaro <llazaro@victoria.ca>
> **Cc:** Sheldon Johnson <sjohnson@victoria.ca>
> **Subject:** RE: EFFECTIVE IMMEDIATELY - Johnson Street Bridge Closure
>
> Dear Marine Users,
>
> As stated below, the Johnson Street Bridge is closed for bridge lifts due to maintenance effective immediately for all marine transit users, until further notice.
>
> We recognize the impact of this step to marine operations and are reviewing options to restore lift capability in the shortest timeline. At this time, we do not have an estimated return to service timeline for bridge lifts including the next 24 hours. However, we are committed to providing regular updates as soon as they are available.
>
> In the meantime, please log all lift requests through Lino Lazaro and these requests will be taken into consideration when bridge lift functionality is restored.
>
> **Lino Lazaro**
> Senior Bridge Operator – Johnson Street Bridge
> Public Works – Roads and Bridges
> JSB-Office: 250.385.5717 JSB-Cell: 250.883.0756
> Cell: S. 22 Email: llazaro@victoria.ca
>
> Regards,
> Brian Murphy

Brian Murphy
Assistant Director, Public Works
Engineering and Public Works Department
417 Garbally Rd. Victoria B.C. V8T 2J9
T 250-361-0476

<image001.gif> <image002.png><image003.gif> <image004.gif> <image005.gif>

From: Zane Bourk <zbourk@victoria.ca>
Sent: June 27, 2019 2:31 PM
To: Alastair Campbell <acampbell@pointhopemaritime.com>; Bob Amundrud <bob.amundrud@ledcor.com>; marinedispatch@ledcor.com; David Eggert <dave@salts.ca>; jseabrook@ppa.gc.ca; Kevin Ashley <kashley@seaspan.com>; Mariah McCooey <mariah.mccooey@tc.gc.ca>; Michael C. Fournier <michaelfournier@ralmax.com>; Riccardo Regosa <rregosa@pointhopemaritime.com>; Taaj Daliran <TDaliran@victoria.ca>; Polden, Zoe <zoe.polden@tc.gc.ca>; river_dispatch@Seaspan.com; egd-sj@frpd.com; gfonda@pactow.com; Brian Murphy <bmurphy@victoria.ca>; Phil Banton <pbanton@victoria.ca>; Lino Lazaro <llazaro@victoria.ca>
Subject: EFFECTIVE IMMEDIATELY - Johnson Street Bridge Closure
Importance: High

Good afternoon,

Due to unforeseen mechanical maintenance,

EFFECTIVE IMMEDIATELY the Johnson Street Bridge will be CLOSED to all marine transit users requiring a bridge lift for access in and out of the Upper Harbour.

We are sorry for the inconvenience and we'll notify all marine transit users when the bridge is fully operational again. Please contact Brian Murphy, Assistant Director – Public Works, with any questions, comments, or concerns at 250-883-6489.

Regards,

Zane Bourk
Supervisor - Roads and Bridges
Public Works
T 250.361.0230 C 778.350.2947

Rob Gordon

From: Taaj Daliran
Sent: June 28, 2019 8:41 AM
To: Brian Murphy; Mike Frost; Fraser Work; Ryan Andrews; Jonathan Huggett; Michael Hanley (mhanley@ehmcompany.com)
Subject: RE: JSB Hydraulics - Conference Call

FYI.

-----Original Appointment-----
From: Brian Murphy <bmurphy@victoria.ca>
Sent: June 27, 2019 5:53 PM
To: Brian Murphy; Taaj Daliran; Mike Frost; Fraser Work; Ryan Andrews; Jonathan Huggett; Michael Hanley (mhanley@ehmcompany.com)
Subject: JSB Hydraulics - Conference Call
When: June 28, 2019 9:00 AM-10:30 AM (UTC-08:00) Pacific Time (US & Canada).
Where: Microsoft Teams Meeting

I would like to be on the call, but someone will have to patch me in by my cell - 6046712359

Please join teleconference below at 9AM Pacific

Join Microsoft Teams Meeting

S. 15 Canada, Vancouver (Toll)

Conference ID: S. 15 #

Local numbers | Reset PIN | Learn more about Teams | Meeting options

---

Rob Gordon

From: Taaj Daliran
Sent: June 28, 2019 8:18 AM
To: Brian Murphy; Mike Frost; Fraser Work; Ryan Andrews; Jonathan Huggett; Michael Hanley (mhanley@ehmcompany.com)
Subject: RE: JSB Hydraulics - Conference Call

FYI.

Warm Regards,
Taaj Daliran
Manager, Civic Services
Engineering & Public Works
City of Victoria
T: (250) 361-0459, C: (250) 883-0747

Please consider the environment before printing this email.

-----Original Appointment-----
From: Brian Murphy <bmurphy@victoria.ca>
Sent: June 27, 2019 5:53 PM
To: Brian Murphy; Taaj Daliran; Mike Frost; Fraser Work; Ryan Andrews; Jonathan Huggett; Michael Hanley (mhanley@ehmcompany.com)
Subject: JSB Hydraulics - Conference Call
When: June 28, 2019 9:00 AM-10:30 AM (UTC-08:00) Pacific Time (US & Canada).
Where: Microsoft Teams Meeting

Please join teleconference below at 9AM Pacific

Join Microsoft Teams Meeting

S. 15 Canada, Vancouver (Toll)

Conference ID: S. 15

Local numbers | Reset PIN | Learn more about Teams | Meeting options

---

Rob Gordon

From: Sheldon Johnson
Sent: June 28, 2019 7:55 AM
To: Fraser Work; Bill Eisenhauer
Cc: Brian Murphy
Subject: Re: KMs - JSB Maintenance

Agreed Fraser. We can reinforce and demonstrate the three rules for Crisis comms.

Tell them what you know.
Tell them what you don't know.
And tell them when you'll talk to them again.

The last one is really important to - as you say - rescue churn.

SJ

Get Outlook for iOS

From: Fraser Work
Sent: Friday, June 28, 2019 7:44:14 AM
To: Bill Eisenhauer
Cc: Brian Murphy; Sheldon Johnson
Subject: Re: KMs - JSB Maintenance

Thanks Bill.

I think we need to get into a rhythm where we are regularly informing the marine user group of the updates/ issues, and the way ahead, and hear / understand their risks/issues.

Lino will have a list of calls he's received from any mariner.

a conf call or regular update via email with harbour master and marine operators / stakeholder Would be a good plan, to meet their needs and reduce media churn. I'm sure they'd like a call....rather than just email.

Today, We may end up in a situation where we can provide a controlled bridge lift, where all mariners will need to be coordinated to exit and enter the upper harbour. Order, timing and duration would have to be orchestrated carefully to

reduce risks and impacts to all bridge users. The importance of getting this right on a Friday of Canada Day wknd cannot be understated.

Let's plan for an update to all mariners just after 10am, if possible.

Fraser

Get Outlook for iOS

From: Bill Eisenhauer <beisenhauer@victoria.ca>

Sent: Thursday, June 27, 2019 10:33 PM

To: Fraser Work

Cc: Brian Murphy; Sheldon Johnson

Subject: FW: KMs - JSB Maintenance

Fraser, we've worked this up to hold us over tomorrow with questions from marine users and the media if it comes to that. Let us know what you think.

S. 13

Sheldon is in interviews most of day tomorrow so I will be stickhandling this one. Until you are back I can be the media spokesperson, with Brian's help to prep me. Depending on JH's availability we can also consider that as option, depending on nature of enquiries and timing (as he's in different time zone right now).

I can keep evolving this tomorrow as new info from the site comes in.

-Bill

Bill Eisenhauer
Head of Engagement
City of Victoria
627 Pandora Ave, Victoria BC V8W 1N8

T 250.361.0210 **C** 250.858.1061

S. 14

S. 14

On Jun 27, 2019, at 5:49 PM, J R Huggett Company Corp <jhuggett@jrhuggettco.com> wrote:

Sent from my iPhone

Begin forwarded message:

From: Ryan Andrews <rtandrews@pcl.com>
Date: June 27, 2019 at 9:32:27 PM GMT+1
To: Brian Murphy <bmurphy@victoria.ca>
Cc: Fraser Work <FWork@victoria.ca>, Taaj Daliran <TDaliran@victoria.ca>, Jonathan Huggett <jhuggett@jrhuggettco.com>, Mike Frost <MFrost@victoria.ca>, Philip Bellefontaine <pbellefontaine@victoria.ca>, "Mike Hanley - Electro Hydraulic Machinery (mhanley@ehmcompany.com)" <mhanley@ehmcompany.com>
Subject: Re: Urgent (JSB bridge - filter replacement observations)

Mike is best to speak to that on the call.

Ryan Andrews
Manager, Civil Projects
PCL Constructors Westcoast, Inc.
p 604-241-5350 | **c** 250-507-8528
mailto:rtandrews@pcl.com
www.pcl.com
Connect with us on: LinkedIn, Facebook, Twitter, YouTube
Together we build success.

On Jun 27, 2019, at 1:29 PM, Brian Murphy <bmurphy@victoria.ca> wrote:

There is a call between Mike H, Mike Frost and Ben coming up shortly.

Please provide more info regarding: 1) operate the bridge at lower speeds which would reduce the flow of oil, thus reducing the risk of any particles making it into the motors.

How much reduction in risk? Difficult question, I know. But if we can do at least one scheduled lift that could really help manage the marine traffic situation.

Thanks
Brian

Brian Murphy, P.Eng.
Assistant Director, Public Works
Engineering and Public Works Department
417 Garbally Rd. Victoria B.C. V8T 2J9
T 250-361-0476

<image002.gif> <image003.png><image004.gif> <image005.gif> <image006.gif>

From: Ryan Andrews <rtandrews@pcl.com>
Sent: June 27, 2019 1:20 PM
To: Fraser Work <FWork@victoria.ca>; Taaj Daliran <TDaliran@victoria.ca>; Brian Murphy <bmurphy@victoria.ca>; Jonathan Huggett <jhuggett@jrhuggettco.com>
Cc: Mike Frost <MFrost@victoria.ca>; Philip Bellefontaine <pbellefontaine@victoria.ca>; Mike Hanley - Electro Hydraulic Machinery (mhanley@ehmcompany.com) <mhanley@ehmcompany.com>
Subject: RE: Urgent (JSB bridge - filter replacement observations)

Gentlemen,
After connecting with EHM and a discussion amongst myself, EHM, and Jonathan Huggett, below are some points of emphasis:

- Mike Hanley, EHM, needs to be able to communicate directly with Mike Frost and Ben Krop of the City. Mike needs their cooperation in gaining information and the same goes for any others in the city that are technically knowledgeable with the system and or hydraulics. So whomever needs to give these two gentlemen permission to correspond with Mike Hanley freely, please do so. Please note these two individuals are only being mentioned as Mike Hanley has indicated they have been the only ones who been able to give him the necessary information thus far.
- There are potentially still particles in the system.
- There is potential the bridge has been operated with the particles in the system w/o a major failure.
- If particles still exist in the system, there is a risk with these particles getting into the motors which could cause damage to the motors where the magnitude of impact would be significant to bridge operations. This is the main risk we are concerned about that is influencing the next steps.
- Mike Hanley, EHM, is currently working on a action plan that requires information from the city and information from the filter manufacturer, Parker.
- Based on risk noted above, we discussed two immediate solutions to avoid potential damage to the motors, (1) operate the bridge at lower speeds which would reduce the flow of oil, thus reducing the risk of any particles making it into the motors,

and (2) halt bridge operations until more information can be gathered and risk fully assessed.

- Since there is a potentially significant risk if particles get into the motors and we currently don't know if particles are still present in the system, our immediate recommendation is to halt bridge operation until more information is gathered and a action plan can be developed.
- Depending on which has less impacts (to marine users, or traveling impact), the city should decide if it makes more sense to leave the bridge in the 'up' position or the 'down' position. Leaving in the 'up' position would impact the traveling public but not the marine users, which could be facilitated by a detour to point elice bridge. Leaving in the 'down' position would impact marine users but not the travelling public. If the city decides to leave in the 'up' position, the bridge should be operated at a reduced speed and Mike Hanley should be consulted before doing so. Obviously the city is to decide which of these is less impacts, but sharing discussion points.
- We are endeavoring to have a plan in place and communicated tmw.
- As for timeline, we are unable to give a definitive timeline until we further develop the action plan. We will endeavor to provide more details on timeline

These are the key points of our discussion and what we are working towards. We will report back tmw with additional details and next steps.

Ryan Andrews
Manager, Civil Projects
PCL Constructors Westcoast, Inc.
p 604-241-5350 | **c** 250-507-8528
mailto:rtandrews@pcl.com
www.pcl.com
Connect with us on: LinkedIn, Facebook, Twitter, YouTube
Together we build success.

From: Fraser Work <FWork@victoria.ca>
Sent: Thursday, June 27, 2019 11:31 AM
To: Taaj Daliran <TDaliran@victoria.ca>; Brian Murphy <bmurphy@victoria.ca>; Ryan Andrews <rtandrews@pcl.com>; Jonathan Huggett <jhuggett@jrhuggettco.com>
Cc: Mike Frost <MFrost@victoria.ca>; Philip Bellefontaine <pbellefontaine@victoria.ca>
Subject: Re: Urgent (JSB bridge - filter replacement observations)

Taaj, Brian, Jonathan-

If we are all on the same page and there is a REAL risk that debris could be entrained in the system, then we need to take some action quickly.

My directions are as fol:
1. ***immediately Restrict any bridge lifts until we are confident we can operate without risk of damage/system failure.
2. Communicate with marine operators. Let Bill E know and manage media risks.
3. Immediately convene a meeting with Jonathan, Ben, Mike and team and review the hydraulic drawings, filter debris evidence, and earimate/quantify the risk of debris that could pass filtration and enter any control valve.
4. Get EHM and PCL on a call to discuss in detail and come to an agreed way ahead.
5. Reconsider the bridge restrictions and alleviate or solidify, where necessary.
6. Facilitate repairs and/or checks.

Please put this into motion immediately and let me know the outcomes of each step.

Fraser

Get Outlook for iOS

From: Taaj Daliran
Sent: Thursday, June 27, 2019 11:04:09 AM
To: Mike Frost; Brian Murphy; Phil Banton; Ryan Andrews; Ben Krop
Cc: Jonathan Huggett; Fraser Work
Subject: RE: Urgent (JSB bridge - filter replacement observations)

Dear Colleagues,

Considering EHM response, please allow all the communication to be directed to me.
I will contact Fraser ASAP and have an update for you soon.

Warm Regards,
Taaj Daliran
Manager, Civic Services
Engineering & Public Works
City of Victoria
T: (250) 361-0459, C: (250) 883-0747

Please consider the environment before printing this email.

From: Michael Hanley <mhanley@ehmcompany.com>
Sent: June 27, 2019 10:51 AM
To: Taaj Daliran <TDaliran@victoria.ca>; Stephen Hanley <shanley@ehmcompany.com>
Cc: Mike Frost <MFrost@victoria.ca>; Brian Murphy <bmurphy@victoria.ca>; Phil Banton <pbanton@victoria.ca>; Ryan Andrews <rtandrews@pcl.com>; Ben Krop <BKrop@victoria.ca>; Jonathan Huggett

<jhuggett@jrhuggettco.com>
Subject: RE: Urgent (JSB bridge - filter replacement observations)

Taaj,

You are correct this is a serious issue. You should stop running the bridge until we get a resolution. Ben has been providing me the necessary information to get help from factory. I'll be talking with Parker more today and will get back to you as soon as possible.

Regards,

Michael Hanley

Electro Hydraulic Machinery
2501 John P. Lyons Lane
Pembroke Park, FL 33009
954-981-0023 ph
954-981-4022 fx
www.ehmcompany.com
<image007.jpg>

From: Taaj Daliran <TDaliran@victoria.ca>
Sent: Thursday, June 27, 2019 12:11 PM
To: Michael Hanley <mhanley@ehmcompany.com>; Stephen Hanley <shanley@ehmcompany.com>
Cc: Mike Frost <MFrost@victoria.ca>; Brian Murphy <bmurphy@victoria.ca>; Phil Banton <pbanton@victoria.ca>; Stephen Hanley <shanley@ehmcompany.com>; Ryan Andrews <rtandrews@pcl.com>; Ben Krop <BKrop@victoria.ca>; Jonathan Huggett <jhuggett@jrhuggettco.com>
Subject: RE: Urgent (JSB bridge - filter replacement observations)
Importance: High

Hi Michel,

I am wondering if the debris/fragments travel inside the main control block and cause this issue and other malfunctions?
If this is a possibility, it may cause complete breakdown of the hydraulic system. what steps should we take to prevent this?

Warm Regards,
Taaj Daliran
Manager, Civic Services
Engineering & Public Works
City of Victoria
T: (250) 361-0459, C: (250) 883-0747

Please consider the environment before printing this email.

From: Taaj Daliran
Sent: June 25, 2019 9:12 AM
To: Michael Hanley (mhanley@ehmcompany.com) <mhanley@ehmcompany.com>; Stephen Hanley (shanley@ehmcompany.com) <shanley@ehmcompany.com>
Subject: FW: Urgent (JSB bridge - filter replacement observations)
Importance: High

Hi again,

Could the debris/fragments travel inside the main control block and cause this issue and other malfunctions?

Warm Regards,
Taaj Daliran
Manager, Civic Services
Engineering & Public Works
City of Victoria
T: (250) 361-0459, C: (250) 883-0747

Please consider the environment before printing this email.

From: Taaj Daliran
Sent: June 25, 2019 8:24 AM
To: Jonathan Huggett <jhuggett@jrhuggettco.com> <jhuggett@jrhuggettco.com>; Ryan Andrews <rtandrews@pcl.com>; Michael Hanley (mhanley@ehmcompany.com) <mhanley@ehmcompany.com>
Cc: Fraser Work (FWork@victoria.ca) <FWork@victoria.ca>; Brian Murphy (bmurphy@victoria.ca) <bmurphy@victoria.ca>
Subject: Urgent (JSB bridge - filter replacement observations)
Importance: High

Gentlemen,

Please review the attached report and advise at your earliest convenience time.

Warm Regards,
Taaj Daliran
Manager, Civic Services
Engineering & Public Works
City of Victoria
T: (250) 361-0459, C: (250) 883-0747

Please consider the environment before printing this email.

From: Mike Frost <MFrost@victoria.ca>
Sent: June 24, 2019 5:10 PM
To: Fraser Work <FWork@victoria.ca>; Brian Murphy <bmurphy@victoria.ca>; Taaj Daliran <TDaliran@victoria.ca>; Phil Banton <pbanton@victoria.ca>
Cc: Ben Krop <BKrop@victoria.ca>
Subject: JSB bridge - filter replacement observations

Gents

Attached is the summary of the observations and question we have following the filter changes.

It should be noted that based on the location of the 'O rings' fragments found, based on our high level understanding of the hydraulic circuit, there is a high likelihood that some O ring fragments may have contaminated the main circuit; what risks are associated with these fragments being in the circuit/valve block assembly?

This should be clarified as a matter of urgency.

Thanks

Mike

Mike Frost P.Eng. PMP
Manager of Fleet
Engineering & Public works Dept.
City of Victoria
417 Garbally Rd. Victoria B.C. V8T 2J9
T 250.361 0419

<image002.gif> <image003.png><image004.gif> <image005.gif> <image006.gif>

CITY OF VICTORIA

PROJECT E-NOTE **Department: Engineering** **Start Date/Duration: July 27, 2019** **Spokesperson: TBD**	**JSB Maintenance**

KEY MESSAGES & PROJECT HIGHLIGHTS:

- **Johnson Street Bridge lifts have been temporarily suspended for marine users while maintenance [*to add for media*: of the hydraulic lift system] is completed.**
- **We recognize the impact of this step to marine operations and our maintenance team is working to restart bridge lifts as soon as possible.**
- **We are working closely with the Harbour Master and marine operators to keep them informed of progress to assist them in planning their operations.**
- **At this time, we do not have an estimated return-to-service timeline for bridge lifts.**

S. 13

BACKGROUND:
CONFIDENTIAL

A recent routine inspection of the bridge's hydraulic oil system identified a mechanical problem which requires further assessment and inspection. As a result, bridge lifts have been suspended while this work is completed.

Marine users have been notified and City staff are working with them to mitigate risks of delay and disruptions posed by closure of the marine channel.

The road and pathways remain fully functional.

Staff are working with PCL and the hydraulic lift system designers to get the system back online as quickly as possible.

Sign Off:

Engagement:	Sheldon Johnson/Ryan Shotton	
Engineering and Public Works:	Subject Matter Expert/Spokesperson	250.xxx.xxxx
File Created:	July 27, 2019	
File Updated:	July 27, 2019	

S. 15

PAGES 84 TO 95 ARE WITHHELD UNDER SECTION 15(1)(b) OF FOIPPA - SCHEMATICS