

Sprado, Tobe ENV:EX

From: Sprado, Tobe ENV:EX
Sent: Thursday, August 9, 2018 2:52 PM
To: Doyle, Chris J ENV:EX
Subject: FW: Acid Spill Kootenays

F.Y.I.

Inspector Tobe Sprado

OIC Okanagan Region | Conservation Officer Service | Ministry of Environment and Climate Change Strategy
102 Industrial Place, Penticton, BC V2A 7C8
Telephone: 250-490-8269

From: Lipsett, Kandis ENV:EX
Sent: Thursday, August 9, 2018 2:39 PM
To: Sprado, Tobe ENV:EX; Novosad, Veron ENV:EX
Cc: Beetlestone, Ben ENV:EX; Caravetta, Joe ENV:EX; Poss, Angie ENV:EX
Subject: RE: Acid Spill Kootenays

Veron is in the process of initiating an IRF for both April 10 and May 23. Both for introduction of a business waste and possible failure to report a spill. s.13,s.15
s.13,s.15

Regards,



Kandis Lipsett, BSc. PChem

Senior Environmental Emergency Response Officer
Environmental Emergencies Program
Southern Interior Region/Penticton
250-490-8243 | 250-488-5429 Kandis.Lipsett@gov.bc.ca
Report a spill: 1-800-663-3456

From: Sprado, Tobe ENV:EX
Sent: August-09-18 1:43 PM
To: Lipsett, Kandis ENV:EX; Novosad, Veron ENV:EX
Cc: Beetlestone, Ben ENV:EX; Caravetta, Joe ENV:EX
Subject: Acid Spill Kootenays

Kandis/Veron – there has been some follow up by the media regarding these acid spills in Trail a few months back – see below s.15
s.15

Thanks

Inspector Tobe Sprado

OIC Okanagan Region | Conservation Officer Service | Ministry of Environment and Climate Change Strategy
102 Industrial Place, Penticton, BC V2A 7C8
Telephone: 250-490-8269

As per the story below about a couple of sulphuric acid spills earlier this spring (April 10th and May 23rd) on Hwy 3B near Trail:

<https://www.columbiavalleypioneer.com/news/cars-being-junked-after-acid-spill-on-kootenay-highway/>

- Were any fines/penalties levied by MoE?
- If fines haven't been levied yet, will they be in the future?)
- Is there any mechanism to alert drivers who may have driven through the area while acid was on the road, so they can see if there vehicles were impacted?

APPROVED RESPONSE:

April 10, 2018

s.13

- The Ministry monitored the cleanup through EMBC updates during the spill clean up.

s.13

- Traffic control personnel were on scene and directed traffic away from the spill ~~as soon as possible~~.

May 23, 2018

- The Environmental Emergency Program did not receive any reports of an acid report in the area on May 23.
- The Spill Reporting Regulation requires a spiller to report all corrosive material spills over five litres or five kilograms to the spill reporting line as soon as possible after the spill occurs.
- The ministry will be looking into the incident.

Sprado, Tobe ENV:EX

From: Sprado, Tobe ENV:EX
Sent: Thursday, August 9, 2018 2:47 PM
To: Beetlestone, Ben ENV:EX
Subject: FW: Acid Spill Kootenays

Sorry dude.

From: Lipsett, Kandis ENV:EX
Sent: Thursday, August 9, 2018 2:39 PM
To: Sprado, Tobe ENV:EX; Novosad, Veron ENV:EX
Cc: Beetlestone, Ben ENV:EX; Caravetta, Joe ENV:EX; Poss, Angie ENV:EX
Subject: RE: Acid Spill Kootenays

Veron is in the process of initiating an IRF for both April 10 and May 23. Both for introduction of a business waste and possible failure to report a spill. s.13,s.15
s.13,s.15

Regards,



Kandis Lipsett, BSc. PChem

Senior Environmental Emergency Response Officer
Environmental Emergencies Program
Southern Interior Region/Penticton
250-490-8243 | 250-488-5429 Kandis.Lipsett@gov.bc.ca
Report a spill: 1-800-663-3456

From: Sprado, Tobe ENV:EX
Sent: August-09-18 1:43 PM
To: Lipsett, Kandis ENV:EX; Novosad, Veron ENV:EX
Cc: Beetlestone, Ben ENV:EX; Caravetta, Joe ENV:EX
Subject: Acid Spill Kootenays

Kandis/Veron – there has been some follow up by the media regarding these acid spills in Trail a few months back – see below. s.15
s.15

Thanks

Inspector Tobe Sprado

OIC Okanagan Region | Conservation Officer Service | Ministry of Environment and Climate Change Strategy
102 Industrial Place, Penticton, BC V2A 7C8
Telephone: 250-490-8269

Sprado, Tobe ENV:EX

From: Sprado, Tobe ENV:EX
Sent: Friday, August 3, 2018 8:22 PM
To: Ito, Miwa ENV:EX
Cc: Beetlestone, Ben ENV:EX; Forsdick, Doug O ENV:EX; Caravetta, Joe ENV:EX
Subject: Re: QUESTION: FOR APPROVAL: Media Request: Acid Spill - Kootenays

Sorry Miwa - I forgot to get back to you on this. No - there is no COORS file with any of these spills . COS were not made aware of it.

FYI

Tobe

Sent from my iPhone

On Aug 3, 2018, at 10:44 AM, Sprado, Tobe ENV:EX <Tobe.Sprado@gov.bc.ca> wrote:

Hi Miwa – this would be a West Kootenay file. I noted that both acting Sgt. Beetlestone and CO Thin are DOR's. I contacted CO Smienk if he is aware of it, he did not know. So, I have left a voice mail for acting Sgt. Beetlestone to contact me. I reviewed the IRF site for the Kootenay Region, there is no request for an investigation by the EERO's which is supported by what Kandis Lipsett indicated in her e-mail below. I suspect that the COS does not have a COORS file, but will confirm with acting Sgt. Beetlestone once he contacts me. I can search the COORS data base if need be, but I suspect you already did that.

F.Y.I.

Inspector Tobe Sprado

OIC Okanagan Region | Conservation Officer Service | Ministry of Environment and Climate Change Strategy

102 Industrial Place, Penticton, BC V2A 7C8

Telephone: 250-490-8269

From: Ito, Miwa ENV:EX
Sent: Friday, August 3, 2018 9:51 AM
To: Chretien, Denny ENV:EX; Milne, Andrew ENV:EX; Beetlestone, Ben ENV:EX
Cc: Forsdick, Doug O ENV:EX; Caravetta, Joe ENV:EX; Sprado, Tobe ENV:EX
Subject: FW: QUESTION: FOR APPROVAL: Media Request: Acid Spill - Kootenays

Hi all,

Can you please confirm if any cases in COORS related to this in Kootenay region and let me know?

Thanks,
Miwa

From: Jonker, Jennifer B ENV:EX
Sent: Friday, August 3, 2018 9:18 AM
To: Forsdick, Doug O ENV:EX; Beninger, Sue J ENV:EX; Ito, Miwa ENV:EX
Subject: RE: QUESTION: FOR APPROVAL: Media Request: Acid Spill - Kootenays

Hi All –

Hoping you might be able to tag someone who can confirm. See below email.

From: Jonker, Jennifer B ENV:EX
Sent: August 2, 2018 4:04 PM
To: Forsdick, Doug O ENV:EX <Doug.Forsdick@gov.bc.ca>
Cc: Jonker, Jennifer B ENV:EX <Jennifer.Jonker@gov.bc.ca>
Subject: QUESTION: FOR APPROVAL: Media Request: Acid Spill - Kootenays

Hi Doug,

Media request and response below. I'm hoping someone in COS can assist confirming the "fines" piece, highlighted in yellow. EELR was saying they don't issue fines, can you confirm if the below is true?

REQUEST:

As per the story below about a couple of sulphuric acid spills earlier this spring (April 10th and May 23rd) on Hwy 3B near Trail:

- Were any fines/penalties levied by MoE?
- If fines haven't been levied yet, will they be in the future?)
- Is there any mechanism to alert drivers who may have driven through the area while acid was on the road, so they can see if there vehicles were impacted?

<https://www.columbiavalleepioneer.com/news/cars-being-junked-after-acid-spill-on-kootenay-highway/>

RESPONSE:

April 10, 2018
s.13

- The Ministry monitored the cleanup through EMBC updates during the spill clean up.
s.13
- Traffic control personnel were on scene and directed traffic away from the spill as soon as possible.

May 23, 2018

- The Ministry has no reports of any acid spills in May in the Kootenay area.

From: Lipsett, Kandis ENV:EX
Sent: August 1, 2018 1:50 PM
To: Griffin, Ebony ENV:EX <Ebony.Griffin@gov.bc.ca>
Cc: Novosad, Veron ENV:EX <Veron.Novosad@gov.bc.ca>
Subject: RE: Media Request: Acid Spill - Kootenays

Hi Ebony,

I spoke with all of the Southern Interior Response officers and I have found out the following information with respect to the media inquiry and the acid spill in the Kootenays.

There are no known DGIR's reporting an acid spill in May and Veron is going to follow-up with the company to make sure a spill did not go unreported. He will take all actions necessary once the details of the claim are verified and fact checked.

The spill report from April, DGIR 180118, was assessed by an RO at the time of report and at the time of the report there was no mention of cars driving through the acid. Since the spill response company was known to responders to be trained and equipped to deal with acid spills the RO determined the incident low risk and did not conduct a site visit. However, they continued to monitor the spill cleanup through EMBC and the updates.

s.13

The mechanism to alert drivers to warn them of driving through acid spills when there is a release and traffic control has not yet arrived on scene would depend solely on the level of awareness of the public. If they were able to recognize that this transport truck was carrying acid by understanding and noticing placards, or recognizing container shapes and being able to identify that they were hauling acids therefore triggering them to think that the substance on the ground was acid would be the only mechanism that would signal to drivers that this was an acid spill and therefore to not drive through it.

Please give me a call if you need further clarification.

Regards,

<image001.jpg>

Kandis Lipsett, BSc. PChem

Senior Environmental Emergency Response Officer
Environmental Emergencies Program
Southern Interior Region/Penticton
250-490-8243 | 250-483-5429 Kandis.Lipsett@gov.bc.ca
Report a spill: 1-800-663-3456

From: Griffin, Ebony ENV:EX
Sent: July-31-18 3:48 PM
To: Lipsett, Kandis ENV:EX
Subject: FW: Media Request: Acid Spill - Kootenays

Hi Kandis,

A reporter is asking the following questions about sulphuric acid spills from earlier this spring near Trail. One spill is from April 10th (DGIR 180118) The reporter also references another spill on May 23, but I couldn't find the DGIR for that one.

- Were any fines/penalties levied by MoE?
- If fines haven't been levied yet, will they be in the future?)

- Is there any mechanism to alert drivers who may have driven through the area while acid was on the road, so they can see if there vehicles were impacted?

The reporter references this story: <https://www.columbiavalleypioneer.com/news/cars-being-junked-after-acid-spill-on-kootenay-highway/>

It looks like Allan responded to the April 10th one but I wanted to touch base with you before reaching out to Allan. I'll give you a call first thing tomorrow morning.

Cheers,
Ebony

From: Jonker, Jennifer B ENV:EX
Sent: July 31, 2018 2:37 PM
To: Nelless, Brady ENV:EX <Brady.Nelless@gov.bc.ca>; Griffin, Ebony ENV:EX <Ebony.Griffin@gov.bc.ca>
Cc: Jonker, Jennifer B ENV:EX <Jennifer.Jonker@gov.bc.ca>
Subject: RE: Media Request: Acid Spill - Kootenays

Thanks Brady. I wasn't sure when that pass off happens, so I did cc Ebony originally. I thought because they mentioned fines etc, it would have moved over to your group.

Ebony – can you assist?

From: Nelless, Brady ENV:EX
Sent: July 31, 2018 2:08 PM
To: Jonker, Jennifer B ENV:EX <Jennifer.Jonker@gov.bc.ca>
Cc: Griffin, Ebony ENV:EX <Ebony.Griffin@gov.bc.ca>
Subject: RE: Media Request: Acid Spill - Kootenays

Good afternoon Division Manager Jonker,
I suspect Spills would have been involved in this and not us. I will double check but unless you hear otherwise I would say check with the Spill folks.

Thanks,
Brady

Brady Nelless RPBio
Director, Compliance

Regional Operations Branch
Environmental Protection Division
Ministry of Environment and Climate Change Strategy
Office: 250 565-6401
Cell: 778 349-6051

24-hour Spill/Environmental Emergency Reporting: 1-800-663-3456 (Provincial Emergency Program)
24-hour RAPP (Report All Poachers and Polluters) tip-line: 1-877-952-7277 (Conservation Officer Service)
www.gov.bc.ca/env

From: Jonker, Jennifer B ENV:EX
Sent: Tuesday, July 31, 2018 11:52 AM
To: Nelles, Brady ENV:EX
Cc: Jonker, Jennifer B ENV:EX; Griffin, Ebony ENV:EX
Subject: FW: Media Request: Acid Spill - Kootenays

Hi Brady

I'm just running into a meeting...I didn't have a chance to scan DGIRs. Please see media request below.

From: Bell, Danielle L GCPE:EX
Sent: July 31, 2018 11:38 AM
To: Jonker, Jennifer B ENV:EX <Jennifer.Jonker@gov.bc.ca>
Subject: Media Request: Acid Spill - Kootenays

Hello,

Reporter

Liza Yuzda, Reporter
CKNW AM 980

Deadline as soon as possible please

Request

As per the story below about a couple of sulphuric acid spills earlier this spring (April 10th and May 23rd) on Hwy 3B near Trail:

- Were any fines/penalties levied by MoE?
- If fines haven't been levied yet, will they be in the future?)
- Is there any mechanism to alert drivers who may have driven through the area while acid was on the road, so they can see if there vehicles were impacted?

<https://www.columbiavalleypioneer.com/news/cars-being-junked-after-acid-spill-on-kootenay-highway/>

From: [Novosad, Veron ENV:EX](#)
To: [Environmental Compliance ENV:EX](#)
Subject: Fwd: DGIR 171566 - SEA - SULPHURIC ACID PH 95%
Date: Monday, August 7, 2017 9:43:33 PM

Sent from my Samsung Galaxy smartphone.

----- Original message -----

From: "Environmental Emergencies Spill Reports ENV:EX" <EESR@gov.bc.ca>
Date: 2017-08-06 11:53 PM (GMT-07:00)
To: "Novosad, Veron ENV:EX" <Veron.Novosad@gov.bc.ca>
Subject: FW: DGIR 171566 - SEA - SULPHURIC ACID PH 95%

From: SGPEP.ECC1@gov.bc.ca
Sent: Sunday, August 06, 2017 10:52:59 PM (UTC-08:00) Pacific Time (US & Canada)
To: Environmental Emergencies Spill Reports ENV:EX
Subject: DGIR 171566 - SEA - SULPHURIC ACID PH 95%

DGIR 171566
PEP Task Number: 182583

Incident Date: 2017-08-06 20:00
Incident Time: 2017-08-06 20:00
Report Date: 2017-08-06
Report Time: 22:12

Spiller: WESTCAN BULK TRANSPORT

Caller 1 / Agency:
BRUCE BENNETT / SAFETY SUPER - Cellular: 250-571-6634 - :

Caller 2 / Agency:
/ - : - :

Location: 9550 STATION RD, TRAIL
Area: TRAIL
PEP Region: SEA
MOE Region: Kootenay Region

Affected Env: Ground
Spill Type: Human Error
Sector: Industrial , Commercial
Jurisdictions:
1: Federal

2: Provincial

Material: SULPHURIC ACID PH 95% EST 600 L

Details:

Accidental release from a line that was not correctly attached resulted in material spilling to the ground around the truck. No waterways affected, contained on site and has been neutralized with lime. Clean up will be underway shortly.

Response:

Notifications:

22:26 briefed Ryan Fuller, MOE RO LML/Interior region. Fed Prov Code 1

22:32 briefed PDM/NEEC

22:33 emailed MOE Surrey/Cranbrook.

Report Compiled By: PERRY Operations 1 ECC - 2017-08-06 22:12

Environmental Emergency Response Officer:

Date:

Notification Coding: Code 1 / Code 2

MOE Response: Exercise / Potential / No Field Response / Field Response /

IMT Activation

Notes:

Category : Code 1
Incident Date Time : 2017-12-13 21:30
MCTS # :

Spiller : WESTCAN BULK TRANSPORT			
Location : 9550 STATION RD, TRAIL			
Area : TRAIL	EMBC Region : SEA	MOE Region : Kootenay Region	
Material(s): SULPHURIC ACID 93%			
Amount(s): UNDER 200 LITRES			
Received From:			
Caller A : MIKE AQUIN		Caller B :	
Org : TERMINAL MANAGER		Org :	
Phone : Business 250-367-7778		Phone :	
Alternate :		Alternate :	
Time :		Time :	
Received by EMBC Operations Officer : PERRY		When Received : 2017-12-14 02:06	
Affected Environment : Ground		Other :	
Type of Spilling : Human Error		Other Spill Type :	
Accidents:			
Sector: Industrial Commercial			
Cause :			
The driver hooked up the hose to the trailer for transfer of material, however it was not secured properly and when the valve was opened the pressure popped it off. Material spilled to ground around the trailer, lime rock was applied to neutralize the solution. The lime rock will be cleaned up and it will be passed to New Alta for disposal.			
Response :			
Jurisdiction : Provincial			
Task # : 184905	Amount : \$50	Issued To : RYAN FULLER	
Notification :			
02:11 left message on cell of Ryan Fuller, MOE RO LML/Interior Region.			
02:15 briefed Ryan. Prov Code 1			
02:18 briefed PDM			
02:18 emailed MOE Surrey/Cranbrook, Canutec			
2017-12-14 02:34 Email to EC (ec.cnue-neec.ec@canada.ca) sent from SGPEP.ECC1@gov.bc.ca			
2017-12-14 02:34 Email to MOE (eesr@gov.bc.ca) sent from SGPEP.ECC1@gov.bc.ca			

From: [Lipsett, Kandis ENV:EX](#)
To: [Sprado, Tobe ENV:EX](#); [Novosad, Veron ENV:EX](#)
Cc: [Beetlestone, Ben ENV:EX](#); [Caravetta, Joe ENV:EX](#); [Poss, Angie ENV:EX](#)
Subject: RE: Acid Spill Kootenays
Date: August 9, 2018 2:38:47 PM

Veron is in the process of initiating an IRF for both April 10 and May 23. Both for introduction of a business waste and possible failure to report a spill. **s.13,s.15**
s.13,s.15

Regards,



Kandis Lipsett, BSc. PChem

Senior Environmental Emergency Response Officer
Environmental Emergencies Program
Southern Interior Region/Penticton
250-490-8243 | 250-488-5429 Kandis.Lipsett@gov.bc.ca
Report a spill: 1-800-663-3456

From: Sprado, Tobe ENV:EX
Sent: August-09-18 1:43 PM
To: Lipsett, Kandis ENV:EX; Novosad, Veron ENV:EX
Cc: Beetlestone, Ben ENV:EX; Caravetta, Joe ENV:EX
Subject: Acid Spill Kootenays

Kandis/Veron – there has been some follow up by the media regarding these acid spills in Trail a few months back – see below **s.15**
s.15

Thanks

Inspector Tobe Sprado

OIC Okanagan Region | Conservation Officer Service | Ministry of Environment and Climate Change Strategy
102 Industrial Place, Penticton, BC V2A 7C8
Telephone: 250-490-8269

As per the story below about a couple of sulphuric acid spills earlier this spring (April 10th and May 23rd) on Hwy 3B near Trail:

<https://www.columbiavalleypioneer.com/news/cars-being-junked-after-acid-spill-on-kootenay->

highway/

- Were any fines/penalties levied by MoE?
- If fines haven't been levied yet, will they be in the future?)
- Is there any mechanism to alert drivers who may have driven through the area while acid was on the road, so they can see if there vehicles were impacted?

APPROVED RESPONSE:

April 10, 2018

s.13

- The Ministry monitored the cleanup through EMBC updates during the spill clean up.

s.13

- Traffic control personnel were on scene and directed traffic away from the spill ~~as soon as possible~~ possible.

May 23,2018

- The Environmental Emergency Program did not receive any reports of an acid report in the area on May 23.
- The Spill Reporting Regulation requires a spiller to report all corrosive material spills over five litres or five kilograms to the spill reporting line as soon as possible after the spill occurs.
- The ministry will be looking into the incident.

From: [Jonker, Jennifer B ENV:EX](#)
To: [Karn, David GCPE:EX](#); [Sprado, Tobe ENV:EX](#)
Cc: [Beetlestone, Ben ENV:EX](#); [Milne, Andrew ENV:EX](#); [Caravetta, Joe ENV:EX](#); [Ito, Miwa ENV:EX](#); [Cotton, Brian GCPE:EX](#)
Subject: RE: Review Request: Media Request - CKNW - Acid Spill Kootenays
Date: August 9, 2018 3:39:41 PM

Same request. I have been working with everyone to make sure we had all the correct info. Thanks for checking.

From: Karn, David GCPE:EX
Sent: August 9, 2018 1:39 PM
To: Sprado, Tobe ENV:EX <Tobe.Sprado@gov.bc.ca>
Cc: Jonker, Jennifer B ENV:EX <Jennifer.Jonker@gov.bc.ca>; Beetlestone, Ben ENV:EX <Ben.Beatlestone@gov.bc.ca>; Milne, Andrew ENV:EX <Andrew.Milne@gov.bc.ca>; Caravetta, Joe ENV:EX <Joe.Caravetta@gov.bc.ca>; Ito, Miwa ENV:EX <Miwa.Ito@gov.bc.ca>; Cotton, Brian GCPE:EX <Brian.Cotton@gov.bc.ca>
Subject: RE: Review Request: Media Request - CKNW - Acid Spill Kootenays

Thanks, Tobe.

From: Sprado, Tobe ENV:EX
Sent: Thursday, August 9, 2018 1:36 PM
To: Karn, David GCPE:EX
Cc: Jonker, Jennifer B ENV:EX; Beetlestone, Ben ENV:EX; Milne, Andrew ENV:EX; Caravetta, Joe ENV:EX; Ito, Miwa ENV:EX
Subject: FW: Review Request: Media Request - CKNW - Acid Spill Kootenays

David – last week, Miwa Ito had sought this same information on behalf of Jennifer Jonker, Division Issues Manager for Environmental Protection. Not sure if there is duplication occurring here or not, but you should run this by her. The COS had no involvement with any of these two acid spills nor has the COS been requested by Environmental Protection to look into these two spill incidents. There may be a communications breakdown between COS and EP. Environmental Protection is the program that should be responding to this media request as I am under the impression their Environmental Emergency Response officers were made aware of these spills.

Thanks

Inspector Tobe Sprado

OIC Okanagan Region | Conservation Officer Service | Ministry of Environment and Climate Change Strategy
102 Industrial Place, Penticton, BC V2A 7C8
Telephone: 250-490-8269

From: Milne, Andrew ENV:EX
Sent: Thursday, August 9, 2018 1:24 PM

To: Sprado, Tobe ENV:EX
Subject: FW: Review Request: Media Request - CKNW - Acid Spill Kootenays

From: Karn, David GCPE:EX
Sent: Thursday, August 9, 2018 11:34 AM
To: Murai, Launa Y ENV:EX
Subject: Media Request - CKNW - Acid Spill Kootenays

Launa,

Just want to run this past COS. To whom should I send it.

Reporter

Liza Yuzda, Reporter
CKNW AM 980

Deadline as soon as possible please

Request

As per the story below about a couple of sulphuric acid spills earlier this spring (April 10th and May 23rd) on Hwy 3B near Trail:

<https://www.columbiavalleypioneer.com/news/cars-being-junked-after-acid-spill-on-kootenay-highway/>

- Were any fines/penalties levied by MoE?
- If fines haven't been levied yet, will they be in the future?)
- Is there any mechanism to alert drivers who may have driven through the area while acid was on the road, so they can see if there vehicles were impacted?

APPROVED RESPONSE:

April 10, 2018
s.13

- The Ministry monitored the cleanup through EMBC updates during the spill clean up.

s.13

- Traffic control personnel were on scene and directed traffic away from the spill ~~as soon as possible~~.

May 23, 2018

- The Environmental Emergency Program did not receive any reports of an acid report in the area on May 23.
- The Spill Reporting Regulation requires a spiller to report all corrosive material spills over five litres or five kilograms to the spill reporting line as soon as possible after the spill occurs.
- The ministry will be looking into the incident.



Category : Code 1
Incident Date Time : 2013-04-21 21:30
MCTS # :

Spiller :	WESTCAN BULK TRANSPORT		
Location :	9550 STATION ROAD - QUIRK SPUR		
Area :	TRAIL	EMBC Region : SEA	MOE Region : Kootenay Region
Material(s):	SULPHURIC ACID		
Amount(s):	LESS THAN 100 LITERS		
Received From:			
Caller A :	BRUCE BENNETT	Caller B :	
Org :	WESTCAN BULK TRANSPORT	Org :	
Phone :	Cellular 1-866-374-7787 EXT 227	Phone :	
Alternate :		Alternate :	
Time :		Time :	
Received by EMBC Operations Officer : ERIN		When Received : 2013-04-22 10:47	
Affected Environment : Ground		Other :	
Type of Spilling : Equipment Failure		Other Spill Type :	
Accidents:			
Sector:	Unknown		
Cause :			
Calling to report a spill of sulphuric acid in the work yard. The material leaked as a result of a damaged transfer line. Soda ash was immediately applied to the spill site to inert the acid. It was confined to company property and no waterways were impacted. IRL will be attending today to clean up the spill and transfer it to the Tech Cominco site.			
Response :			
Jurisdiction : Provincial			
Task # :	Amount : \$	Issued To :	
Notification :			
10:56 briefed MOE RO Veron Novosad - Code 1 Prov			
10:58 faxed MOE Cranbrook			
2013-04-22 11:09 Email to EC (emergencies.pyr@ec.gc.ca) sent from SGPEP.ECC1@gov.bc.ca			
2013-04-22 11:09 Email to MOE (eesr@gov.bc.ca) sent from SGPEP.ECC1@gov.bc.ca			



DGIR 180118 - UPDATE # 1

Type : INLAND UPDATE
Subject : SULPHURIC ACID
Task # :
Assigned To :
Incident Area : TRAIL

Original Entry Logged : 2018-04-10 10:16
Amount : \$
ASE Number :
EMBC Region : SEA
MOE Region : Kootenay Region
MCTS# :

Location : HWY 22

Caller : ANDY JOHNSON
Organization : TECK METALS
Primary No : Cellular 250-364-4901
Alt No :

This Update Logged : 2018-04-10 10:40
EMBC Operations Officer : JACOB

Details :

Advised that a WestCan Trucking Company transport vehicle (unknown size) was transporting sulphuric acid from Teck Metals (25 Aldrige Ave) to the WestCan facility (7 Mile Dam Rd Trail Highway 22A - 250-367-7778) travelling southbound down Highway 22, 3B and 22A. They suspect that a valve was left open during transport causing an unknown amount of sulphuric acid to spill to the ground while en route to the WestCan Facility.

Teck Metals activated their full time fire department to neutralize any puddles with limerock starting at their facility and moving south down Highway 22 toward the WestCan facility. Teck Metals has also mobilized their emergency response team to take command of the situation and oversee the response. WestCan is applying limerock to puddles starting at their location and working toward the Teck Metals facility. RCMP has been notified and is mobilizing EMCON services for traffic control (MOTI aware and has been working on getting individuals on scene, roads NOT shut down but will be having work done on them).

Notification :

10:38 LM MOE RO Veron Novosad
10:42 Briefed PDM Rod Allen
11:26 Briefed MOE RO Veron Novosad
11:28 Emailed MOE Cranbrook



DGIR 180118 - UPDATE # 2

Type : INLAND UPDATE
Subject : SULPHURIC ACID
Task # :
Assigned To :
Incident Area : TRAIL

Original Entry Logged : 2018-04-10 10:16
Amount : \$
ASE Number :
EMBC Region : SEA
MOE Region : Kootenay Region
MCTS# :

Location : HWY 22

Caller : ANDY JOHNSON
Organization : TECK METALS
Primary No : 250-364-4901
Alt No :

This Update Logged : 2018-04-10 14:57
EMBC Operations Officer : JACOB

Details :

Advised 220 liters total sulphuric acid spilled. Limerock operation was ceased and power/water trucks were used in conjunction with a sweeper and PH strips along the way. Sent samples to onsite office to ensure all acid was neutralized.

Notification :

14:59 Briefed MOE RO Josh Watts
15:01 Briefed PDM Rod Allen
15:02 Emailed MOE Penticton/Cranbrook



Category : Code 1
Incident Date Time : 2018-04-10 09:30
MCTS # :

Spiller : WESTCAN BULK TRANSPORT	
Location : HWY 22	
Area : TRAIL	EMBC Region : SEA
MOE Region : Kootenay Region	
Material(s): SULPHURIC ACID	
Amount(s): UNKNOWN	
Received From:	
Caller A : MIKE AQUIN	Caller B :
Org : WESTCAN BULK TRANSPORT	Org :
Phone : Business 250-367-7778	Phone :
Alternate :	Alternate :
Time :	Time :
Received by EMBC Operations Officer : KAREN	
When Received : 2018-04-10 10:16	
Affected Environment : Ground	
Other :	
Type of Spilling :	
Other Spill Type :	
Equipment Failure	
Accidents:	
Sector: Unknown	
Cause :	
Reporting that some sulphuric acid leaked out of the truck from a ball valve, down the highway. Soda ash and lime rock is being put down. No waterways impacted.	
Response :	
Jurisdiction :	
Task # :	Amount : \$
Issued To :	
Notification :	
1020 - briefed MOE RO Veron Novosad, Prov code 1	
1021 - briefed PDM Allen	
1023 - emailed MOE Cranbrook	



DGIR 180711 - UPDATE # 1

Type : INLAND UPDATE
Subject : SULFURIC ACID
Task # : 191008
Assigned To : JOSH WATTS
Incident Area : TRAIL

Original Entry Logged : 2018-05-23 19:30
Amount : \$50
ASE Number :
EMBC Region : SEA
MOE Region : Kootenay Region
MCTS# :

Location : TRAIL OPERATIONS PLANT 3KM INTO GLENMARY SUBDIVISION

Caller : LEO
Organization : CANUTEC
Primary No : Business 1-888-226-8832
Alt No :

This Update Logged : 2018-05-23 20:05
EMBC Operations Officer : NICO

Details :

Updating that there is alternating traffic on hwy 3. The Fire Department on scene advised there is no impact to waterways. The spill is currently contained, and clean up is being completed. The leak was from a faulty air valve in the top of the truck.

Notification :

2015-briefed MOE RO Watts. Add \$50 to task.
2054-briefed PDM Allen.
2059-emailed MOE Penticton/Cranbrook.



Category : Code 1

Incident Date Time : 2018-05-23 19:00

MCTS # :

Spiller :	WEST CAN TRUCKING		
Location :	TRAIL OPERATIONS PLANT 3KM INTO GLENMARY SUBDIVISION		
Area :	TRAIL	EMBC Region : SEA	MOE Region : Kootenay Region
Material(s):	SULFURIC ACID		
Amount(s):	UNKNOWN		
Received From:			
	Caller A : BRETT CHOBANUK	Caller B :	
	Org : TECK FIRE DEPT	Org :	
	Phone : Business 250-364-4901	Phone :	
	Alternate :	Alternate :	
	Time :	Time :	
Received by EMBC Operations Officer : NATALIE		When Received : 2018-05-23 19:30	
Affected Environment : Ground		Other :	
Type of Spilling : Unknown		Other Spill Type :	
Accidents:			
Sector: Unknown			
Cause : Reporting a tanker truck was leaking when he left the property, no further details at this time.			
Response : Crews are spreading lime rock to neutralize and wash down, regional fire rescue on scene, Teck Fire on scene, emerg response team mobilized, RCMP on scene, and West Can Trucking on scene.			
Jurisdiction : Provincial, Municipal			
Task # : 191008	Amount : \$50	Issued To : JOSH WATTS	
Notification : 19:38 Briefed MOE RO Josh Watts, code 1 prov/muni 19:39 Briefed PDM Rod Allen 19:42 Emailed MOE Penticton / Cranbrook			

From: Investigation Referrals - Homepage
To: [Beetlestone, Ben ENV:EX](#)
Subject: Investigation Referral Form ("IRF") - Kootenay Region - NOVOSAD, Veron
Date: Thursday, August 9, 2018 3:00:33 PM

[Investigation Referrals - Homepage](#)

NOVOSAD, Veron has been added

Modify my alert settings	View NOVOSAD, Veron	View Investigation Referral Form ("IRF") - Kootenay Region	Mobile View
--	-------------------------------------	--	-----------------------------

SECTION A - PURPOSE OF IRF:	Request for COS Investigation
Date Created (m/d/yyyy):	8/9/2018
Status of Referral:	Initiated
Initiator:	NOVOSAD, Veron
Ministry/Program:	MoE - EERO
SECTION B - CONTRAVENTION(S) SUMMARY:	See the case file for complete details.
COORS #:	
Party:	Unknown
Contravention(s):	Introduction of Hazardous waste into environment; and Failure to report a spill
Act:	Select one...
Regulation:	Spill Reporting Regulation
Section:	EMA 7(2); and SRR 2(1)
Date of Contravention - Start (m/d/yyyy):	5/23/2018
Date of Contravention - End (m/d/yyyy):	5/23/2018
Site:	Reportedly in the Trail area
Licence / Permit # / Approval:	
Incident Summary:	Incident unreported therefore unable to provide details
Photo(s) Attached?:	Select one...
Compliance History:	Unknown
Decision Matrix - Level of Impact:	Level 3: moderate, temporary impact or threat to env. or human health
Decision Matrix - Likelihood of Compliance:	Category B: Indications of future and ongoing compliance are uncertain
Comments - Initiator:	ONLY became aware of incident via media inquiry
SECTION C - RESPONSE TO REFERRAL:	Select one...
Name of COS Sergeant / Program Section Head:	
Date Request Approved/Not Approved (m/d/yyyy):	
Has the "Initiator" of this form been notified?:	Select one...
Comments - COS or Program:	
SECTION D - PRE-INVESTIGATION REVIEW:	Select one...
Investigation Review Team (IRT) Members:	
Date Reviewed by IRT (m/d/yyyy):	
Is the investigation supported by the IRT?:	Select one...
Name of Lead Investigator:	
Other Staff Assigned to Investigation:	
Other Resources Required:	

Comments - IRT:**SECTION E - REFERRAL TO REGIONAL
MANAGEMENT TEAM (RMT):**

Select one...

Regional Management Team Members:**Date Reviewed by RMT (m/d/yyyy):****Is the investigation supported by the RMT?:**

Select one...

Comments - RMT:**SECTION F: OUTCOMES:**

See the case file for complete details.

Did the investigation proceed?:

-

Outcome:

Last Modified 8/9/2018 2:57 PM by Novosad, Veron ENV:EX

From: [Environmental Emergencies Spill Reports ENV:EX](#)
To: [Lipsett, Kandis ENV:EX](#)
Subject: FW: DGIR 182286 - SEA - SULFURIC ACID
Date: September-22-18 7:55:07 PM

From: SGPEP.ECC1@gov.bc.ca
Sent: Saturday, September 22, 2018 7:54:55 PM (UTC-08:00) Pacific Time (US & Canada)
To: Environmental Emergencies Spill Reports ENV:EX
Subject: DGIR 182286 - SEA - SULFURIC ACID

DGIR 182286
PEP Task Number: 193354

Incident Date: 2018-09-22 18:10
Incident Time: 2018-09-22 18:10
Report Date: 2018-09-22
Report Time: 19:20

Spiller: TECK TRAIL OPERATIONS

Caller 1 / Agency:
ANDY JOHNSON / TECK METALS - Business: 250-364-4901 - :

Caller 2 / Agency:
/ - : - :

Location: HWY 22A / HWY 3B / 9550 STATION RD
Area: TRAIL
PEP Region: SEA
MOE Region: Kootenay Region

Affected Env: Ground
Spill Type: Unknown
Sector: Unknown
Jurisdictions:
1: Provincial
2: Municipal

Material: SULFURIC ACID LESS THAN 1/4 CUP

Details:
Reporting a Trimac truck with sulfuric acid drove to Hwy 22A/Hwy 3B to Quirk Siding (9550 Station Rd) and after unloading discovered the lead trailer was leaking sulfuric acid underneath the trailer and onto the ground. The supervisor inspected the nearby road on Station Rd and the test results were for a low PH. IRM is the company that owns the acid, and is the one that reported to Teck Metals.

Response:

Local FD and RCMP have been notified and Kootenay Boundary Regional Fire Rescue FD has taken command, and Teck Metals emergency response has been notified.

Notifications:

19:29 Briefed MOE RO Ashley Robertson, code 1 prov/muni

19:32 Briefed PDM Derek Sommerville

19:35 emailed MOE Surrey / Cranbrook / Admin road safety

Report Compiled By: NATALIE Operations 3 ECC - 2018-09-22 19:20

Environmental Emergency Response Officer:

Date:

Notification Coding: Code 1 / Code 2

MOE Response: Exercise / Potential / No Field Response / Field Response /

IMT Activation

Notes:

From: Environmental Emergencies Spill Reports ENV:EX
To: Lipsett, Kandis ENV:EX
Subject: FW: DGIR 182286 UPDATE 1 - SEA
Date: September-22-18 8:42:07 PM

From: SGPEP.ECC1@gov.bc.ca
Sent: Saturday, September 22, 2018 8:41:55 PM (UTC-08:00) Pacific Time (US & Canada)
To: Environmental Emergencies Spill Reports ENV:EX
Subject: DGIR 182286 UPDATE 1 - SEA

PEP Task Number: 193354

Incident Date: 2018-09-22
Incident Time: 19:20
Location: HWY 22A / HWY 3B / 9550 STATION RD
Area: TRAIL
PEP Region: SEA
MOE Region: Kootenay Region

Caller / Agency:
ASHLEY ROBERTSON / MOE RO

Details:
By email - Kootenay Boundary Regional Fire reports spill may impact 14-16 km of roadway. 2 Teck Metals and 3 FD members conducting pH field testing.

Andy Johnson reports estimated volume was provided by Katy Gains (IRM), ERAP has been activated, CANUTEC has been notified, ERT mobilizes, Environmental Hygienist to assist with field testing.

Report Compiled By: PERRY Operations 1 ECC - 2018-09-22 20:22
DGIR 182286 UPDATE 1 - Subject: INLAND UPDATE

Notifications:
20:23 briefed PDM, Derek
20:23 briefed NEEC.
20:25 emailed MOE Surrey/Cranbrook, Admin Rd Safety, Canutec, Mines

Environmental Emergency Response Officer:
Date:
Notification Coding: Code 1 / Code 2
MOE Response: Exercise / Potential / No Field Response / Field Response /
IMT Activation
Notes:

From: [Environmental Emergencies Spill Reports ENV:EX](#)
To: [Lipsett, Kandis ENV:EX](#)
Subject: FW: DGIR 182286 UPDATE 2 - SEA
Date: September-23-18 12:06:08 AM

From: SGPEP.ECC1@gov.bc.ca
Sent: Sunday, September 23, 2018 12:05:56 AM (UTC-08:00) Pacific Time (US & Canada)
To: Environmental Emergencies Spill Reports ENV:EX
Subject: DGIR 182286 UPDATE 2 - SEA

PEP Task Number: 193354

Incident Date: 2018-09-22
Incident Time: 19:20
Location: HWY 22A / HWY 3B / 9550 STATION RD
Area: TRAIL
PEP Region: SEA
MOE Region: Kootenay Region

Caller / Agency:
ASHLEY ROBERTSON / MOE RO

Details:
by email - At 23:00 Kootenay Boundary Regional Fire reporter no pH hits along 16km of highway assessed. 2 isolated spills identified: at gate of loading site (described as the size of a fist) and at the station where the spill was identified. Teck crews are neutralizing the 2 spill sites.

Note: MOTI was engaged by KBRF during response.

Report Compiled By: PERRY Operations 1 ECC - 2018-09-22 23:53
DGIR 182286 UPDATE 2 - Subject: INLAND UPDATE

Notifications:
23:54 briefed PDM, Derek
23:54 emailed MOE Surrey/Cranbrook, Admin Rd Safety, Canutec, Mines

Environmental Emergency Response Officer:
Date:
Notification Coding: Code 1 / Code 2
MOE Response: Exercise / Potential / No Field Response / Field Response /
IMT Activation
Notes:

From: [Environmental Emergencies Spill Reports ENV:EX](#)
To: [Lipsett, Kandis ENV:EX](#)
Subject: FW: DGIR 182286 UPDATE 3 - SEA
Date: September-24-18 11:29:39 AM

From: SGPEP.ECC1@gov.bc.ca
Sent: Monday, September 24, 2018 11:29:11 AM (UTC-08:00) Pacific Time (US & Canada)
To: Environmental Emergencies Spill Reports ENV:EX
Subject: DGIR 182286 UPDATE 3 - SEA

PEP Task Number: 193354

Incident Date: 2018-09-22
Incident Time: 19:20
Location: HWY 22A / HWY 3B / 9550 STATION RD
Area: TRAIL
PEP Region: SEA
MOE Region: Kootenay Region

Caller / Agency:
EMAIL - ASHLEY ROBERTSON / MOE RO

Details:
Emailed request to add \$300 to task.

Report Compiled By: DAVID Admin ECC - 2018-09-24 11:15
DGIR 182286 UPDATE 3 - Subject: INLAND UPDATE

Notifications:
Emailed MOE Surrey

Environmental Emergency Response Officer:
Date:
Notification Coding: Code 1 / Code 2
MOE Response: Exercise / Potential / No Field Response / Field Response /
IMT Activation
Notes:

From: [Novosad, Veron ENV:EX](#)
To: [Lipsett, Kandis ENV:EX](#)
Cc: [Poss, Angie ENV:EX](#)
Subject: Media Request: Acid Spill - Kootenays - Use as you see fit
Date: August 9, 2018 11:18:42 AM

The BC spill Reporting Regulation sets the amount of material that needs to be spilled before it is a legal obligation to report a spill. In the case of sulphuric acid it is 5 litres.

The Ministry of environment can only speculate as to why a spill was not reported.

In this case, Teck was not in control of the chemical nor was it spilled on their property. Speculation: Teck was not informed of the spill nor do they escort their product to its destination.

With respect to the Responsible Party (RP), person in charge of the substance, the Ministry can only speculate the following:

1. The RP was not aware of the spill from their tanker(s);
2. The RP thought the amount spilled was below the reportable limit;
3. The RP did not report the spill hoping to not place any liability on their company;
4. Unknown reasons.

The mandate for investigation and enforcement within the Ministry of Environment is with the Conservation Officer Service (COS) and other parts of the Ministry initiate a request for investigation to the COS.

The investigation request procedure prioritizes investigations based on compliance with BC legislation and the impact to the public and environment. With respect to Teck, they have been historically compliant with all regulations even reporting smaller than legally required limits. Teck also has a team of responders specially trained for their products and dispatches them immediately to any location that has knowingly been impacted by one of their products. This shows that Teck looks to minimize any impacts from one of their products.

As for the Responsible Party, they are unknown at this time and therefore we do not have a compliance history to rely on nor the RP's response capabilities.

Unless directed otherwise, the investigation request procedure would place this type of investigation as medium-low to low.

Environmental Emergency Program response officers are a limited number in the field and not trained for investigations.

From: [Karn, David GCPE:EX](#)
To: [Fallows, Norm ENV:EX](#)
Cc: [Brach, Pader W ENV:EX](#); [Jackson, Vickie ENV:EX](#); [Cotton, Brian GCPE:EX](#); [Kelly, Suzannah GCPE:EX](#); [Novosad, Veron ENV:EX](#)
Subject: Media request - CBC Nelson - Trail Acid spill
Date: September 10, 2018 4:10:29 PM

Hi Norm. We'd like the DGIRs for both of these incidents (April 10 and May 23rd) please and any other documentation that may be helpful.

We're also working with COS and MoTI.

Reporter

Bob Keating, Reporter
CBC Radio - Nelson
bob.keating@cbc.ca
250-352-1642 c: 250-505-2393

Deadline ASAP

Request

There is all kinds of conflicting information about what happened in Trail April 10th and May 23rd. Teck says the first spill occurred between 8 and 9:30 AM April 10th. Yet I have had several eye witnesses tell me they saw acid on the road long before 8:00 AM and their cars are ruined.

Questions:

- 1) When was MOT or Environment notified of this first spill?
- 2) What action was taken?
- 3) How long was the highway closed?
- 4) Is Teck, IRM or Westcan facing any charges, if so what are they. If not, why not?
- 5) What was the provinces role in the closing the highway or the clean up?

On May 23rd there as a second leak between 7 and 7:30.

- 1) When was MOT or Environment notified of this second spill?
- 2) What action was taken?
- 3) How long was the highway closed?
- 4) Is Teck, IRM or Westcan facing any charges, if so what are they. If not, why not?
- 5) What was the province role in the closing the highway or the clean up?
- 6) Will the province facilitate or participate in a public meeting in Trail to discuss what happened there?

Recommendation

- 1) When was MOT or Environment notified of this first spill?
- 2) What action was taken?

s.13

The Ministry monitored the cleanup through EMBC updates during the spill clean up.

- 3) How long was the highway closed?
?

- 4) Is Teck, IRM or Westcan facing any charges, if so what are they. If not, why not?

s.13

- 5) What was the provinces role in the closing the highway or the clean up?
Traffic control personnel were on scene and directed traffic away from the spill.

On May 23rd there as a second leak between 7 and 7:30.

- 1) When was MOT or Environment notified of this second spill?

The Environmental Emergency Program did not receive any reports of an acid spill in the area on May 23.

The Spill Reporting Regulation requires a spiller to report all corrosive material spills over five litres or five kilograms to the spill reporting line as soon as possible after the spill occurs.

- 2) What action was taken?
The ministry is looking into this incident.

- 3) How long was the highway closed?
?

- 4) Is Teck, IRM or Westcan facing any charges, if so what are they. If not, why not?

- 5) What was the province role in the closing the highway or the clean up?
?

- 6) Will the province facilitate or participate in a public meeting in Trail to discuss what happened there?
?

- The ministry will be looking into the incident.

From: [Fallows, Norm ENV:EX](#)
To: [Lipsett, Kandis ENV:EX](#); [Novosad, Veron ENV:EX](#)
Cc: [Karn, David GCPE:EX](#)
Subject: Fw: Media request - CBC Nelson - Trail Acid spill
Date: September 10, 2018 4:21:03 PM

Kandis or Veron - can one of you respond back to David ASAP with the requested info below. David to be clear you are only requesting the DGIR reports. Is that correct?

Norm Fallows
Section Head, Response Section
Environmental Emergencies Program
BC Ministry of Environment

Sent from my BlackBerry

From: David.Karn@gov.bc.ca
Sent: September 10, 2018 16:10
To: Norm.Fallows@gov.bc.ca
Cc: Pader.Brach@gov.bc.ca; Vickie.Jackson@gov.bc.ca; Brian.Cotton@gov.bc.ca; Suzannah.Kelly@gov.bc.ca; Veron.Novosad@gov.bc.ca
Subject: Media request - CBC Nelson - Trail Acid spill

Hi Norm. We'd like the DGIRs for both of these incidents (April 10 and May 23rd) please and any other documentation that may be helpful.

We're also working with COS and MoTI.

Reporter

Bob Keating, Reporter
CBC Radio - Nelson
bob.keating@cbc.ca
250-352-1642 c: 250-505-2393

Deadline ASAP

Request

There is all kinds of conflicting information about what happened in Trail April 10th and May 23rd. Teck says the first spill occurred between 8 and 9:30 AM April 10th. Yet I have had several eye witnesses tell me they saw acid on the road long before 8:00 AM and their cars are ruined.

Questions:

- 1) When was MOT or Environment notified of this first spill?
- 2) What action was taken?
- 3) How long was the highway closed?
- 4) Is Teck, IRM or Westcan facing any charges, if so what are they. If not, why not?

5) What was the provinces role in the closing the highway or the clean up?

On May 23rd there as a second leak between 7 and 7:30.

- 1) When was MOT or Environment notified of this second spill?
- 2) What action was taken?
- 3) How long was the highway closed?
- 4) Is Teck, IRM or Westcan facing any charges, if so what are they. If not, why not?
- 5) What was the province role in the closing the highway or the clean up?
- 6) Will the province facilitate or participate in a public meeting in Trail to discuss what happened there?

Recommendation

- 1) When was MOT or Environment notified of this first spill?
- 2) What action was taken?

s.13

The Ministry monitored the cleanup through EMBC updates during the spill clean up.

- 3) How long was the highway closed?
?

- 4) Is Teck, IRM or Westcan facing any charges, if so what are they. If not, why not?

s.13

- 5) What was the provinces role in the closing the highway or the clean up?
Traffic control personnel were on scene and directed traffic away from the spill.

On May 23rd there as a second leak between 7 and 7:30.

- 1) When was MOT or Environment notified of this second spill?
The Environmental Emergency Program did not receive any reports of an acid spill in the area on May 23.
The Spill Reporting Regulation requires a spiller to report all corrosive material spills over five litres or five kilograms to the spill reporting line as soon as possible after the spill occurs.

- 2) What action was taken?
The ministry is looking into this incident.

3) How long was the highway closed?

?

4) Is Teck, IRM or Westcan facing any charges, if so what are they. If not, why not?

5) What was the province role in the closing the highway or the clean up?

?

6) Will the province facilitate or participate in a public meeting in Trail to discuss what happened there?

?

- The ministry will be looking into the incident.

From: [Karn, David GCPE:EX](#)
To: [Fallows, Norm ENV:EX](#); [Lipsett, Kandis ENV:EX](#); [Novosad, Veron ENV:EX](#)
Cc: [Cotton, Brian GCPE:EX](#); [Kelly, Suzannah GCPE:EX](#)
Subject: RE: Media request - CBC Nelson - Trail Acid spill
Date: September 10, 2018 4:24:40 PM

If anyone knows some of the answers:

April 10

3) How long was the highway closed?

May 23

5) What was the province role in the closing the highway or the clean up?

The DGIR should answer some of the others.

From: Fallows, Norm ENV:EX
Sent: Monday, September 10, 2018 4:21 PM
To: Lipsett, Kandis ENV:EX; Novosad, Veron ENV:EX
Cc: Karn, David GCPE:EX
Subject: Fw: Media request - CBC Nelson - Trail Acid spill

Kandis or Veron - can one of you respond back to David ASAP with the requested info below. David to be clear you are only requesting the DGIR reports. Is that correct?

Norm Fallows
Section Head, Response Section
Environmental Emergencies Program
BC Ministry of Environment

Sent from my BlackBerry

From: David.Karn@gov.bc.ca
Sent: September 10, 2018 16:10
To: Norm.Fallows@gov.bc.ca
Cc: Pader.Brach@gov.bc.ca; Vickie.Jackson@gov.bc.ca; Brian.Cotton@gov.bc.ca; Suzannah.Kelly@gov.bc.ca; Veron.Novosad@gov.bc.ca
Subject: Media request - CBC Nelson - Trail Acid spill

Hi Norm. We'd like the DGIRs for both of these incidents (April 10 and May 23rd) please and any other documentation that may be helpful.

We're also working with COS and MoTI.

Reporter

Bob Keating, Reporter
CBC Radio - Nelson
bob.keating@cbc.ca

Deadline ASAP

Request

There is all kinds of conflicting information about what happened in Trail April 10th and May 23rd.

Teck says the first spill occurred between 8 and 9:30 AM April 10th.

Yet I have had several eye witnesses tell me they saw acid on the road long before 8:00 AM and their cars are ruined.

Questions:

- 1) When was MOT or Environment notified of this first spill?
- 2) What action was taken?
- 3) How long was the highway closed?
- 4) Is Teck, IRM or Westcan facing any charges, if so what are they. If not, why not?
- 5) What was the provinces role in the closing the highway or the clean up?

On May 23rd there as a second leak between 7 and 7:30.

- 1) When was MOT or Environment notified of this second spill?
- 2) What action was taken?
- 3) How long was the highway closed?
- 4) Is Teck, IRM or Westcan facing any charges, if so what are they. If not, why not?
- 5) What was the province role in the closing the highway or the clean up?
- 6) Will the province facilitate or participate in a public meeting in Trail to discuss what happened there?

Recommendation

- 1) When was MOT or Environment notified of this first spill?
- 2) What action was taken?

s.13

The Ministry monitored the cleanup through EMBC updates during the spill clean up.

- 3) How long was the highway closed?
?

- 4) Is Teck, IRM or Westcan facing any charges, if so what are they. If not, why not?

s.13

5) What was the provinces role in the closing the highway or the clean up?
Traffic control personnel were on scene and directed traffic away from the spill.

On May 23rd there as a second leak between 7 and 7:30.

1) When was MOT or Environment notified of this second spill?

The Environmental Emergency Program did not receive any reports of an acid spill in the area on May 23.

The Spill Reporting Regulation requires a spiller to report all corrosive material spills over five litres or five kilograms to the spill reporting line as soon as possible after the spill occurs.

2) What action was taken?

The ministry is looking into this incident.

3) How long was the highway closed?

?

4) Is Teck, IRM or Westcan facing any charges, if so what are they. If not, why not?

5) What was the province role in the closing the highway or the clean up?

?

6) Will the province facilitate or participate in a public meeting in Trail to discuss what happened there?

?

- The ministry will be looking into the incident.

From: [Novosad, Veron ENV:EX](#)
To: [Karn, David GCPE:EX](#); [Fallows, Norm ENV:EX](#)
Cc: [Brach, Pader W ENV:EX](#); [Jackson, Vickie ENV:EX](#); [Cotton, Brian GCPE:EX](#); [Kelly, Suzannah GCPE:EX](#); [Fallows, Norm ENV:EX](#); [Lipsett, Kandis ENV:EX](#)
Subject: Re: Media request - CBC Nelson - Trail Acid spill
Date: September 10, 2018 4:27:26 PM

See below

Sent from my Samsung Galaxy smartphone.

----- Original message -----

From: "Karn, David GCPE:EX" <David.Karn@gov.bc.ca>
Date: 2018-09-10 4:10 PM (GMT-08:00)
To: "Fallows, Norm ENV:EX" <Norm.Fallows@gov.bc.ca>
Cc: "Brach, Pader W ENV:EX" <Pader.Brach@gov.bc.ca>, "Jackson, Vickie ENV:EX" <Vickie.Jackson@gov.bc.ca>, "Cotton, Brian GCPE:EX" <Brian.Cotton@gov.bc.ca>, "Kelly, Suzannah GCPE:EX" <Suzannah.Kelly@gov.bc.ca>, "Novosad, Veron ENV:EX" <Veron.Novosad@gov.bc.ca>
Subject: Media request - CBC Nelson - Trail Acid spill

Hi Norm. We'd like the DGIRs for both of these incidents (April 10 and May 23rd) please and any other documentation that may be helpful.

We're also working with COS and MoTI.

Reporter

Bob Keating, Reporter
CBC Radio - Nelson
bob.keating@cbc.ca
250-352-1642 c: 250-505-2393

Deadline ASAP

Request

There is all kinds of conflicting information about what happened in Trail April 10th and May 23rd. Teck says the first spill occurred between 8 and 9:30 AM April 10th. Yet I have had several eye witnesses tell me they saw acid on the road long before 8:00 AM and their cars are ruined.

Questions:

1) When was MOT or Environment notified of this first spill?

Same day it occurred

2) What action was taken?

Response was taken by Teck crews specially trained for acids

3) How long was the highway closed?

Will need to contact Teck and/or MoTI

4) Is Teck, IRM or Westcan facing any charges, if so what are they. If not, why not?

Consult with COS, CVSE and/or Transport Canada

5) What was the province's role in the closing the highway or the clean up?

MoE not involved, consult with MoTI

On May 23rd there was a second leak between 7 and 7:30.

1) When was MOT or Environment notified of this second spill?

Same day

2) What action was taken?

As above

3) How long was the highway closed?

As above

4) Is Teck, IRM or Westcan facing any charges, if so what are they. If not, why not?

As above

5) What was the province's role in the closing the highway or the clean up?

As above

6) Will the province facilitate or participate in a public meeting in Trail to discuss what happened there?

Consult with EEP HQ in Victoria

Recommendation

1) When was MOT or Environment notified of this first spill?

2) What action was taken?

s.13

The Ministry monitored the cleanup through EMBC updates during the spill clean up.

3) How long was the highway closed?
?

4) Is Teck, IRM or Westcan facing any charges, if so what are they. If not, why not?

s.13

5) What was the provinces role in the closing the highway or the clean up?
Traffic control personnel were on scene and directed traffic away from the spill.

On May 23rd there as a second leak between 7 and 7:30.

1) When was MOT or Environment notified of this second spill?

The Environmental Emergency Program did not receive any reports of an acid spill in the area on May 23.

The Spill Reporting Regulation requires a spiller to report all corrosive material spills over five litres or five kilograms to the spill reporting line as soon as possible after the spill occurs.

2) What action was taken?

The ministry is looking into this incident.

3) How long was the highway closed?

?

4) Is Teck, IRM or Westcan facing any charges, if so what are they. If not, why not?

5) What was the province role in the closing the highway or the clean up?

?

6) Will the province facilitate or participate in a public meeting in Trail to discuss what happened there?
?

- The ministry will be looking into the incident.

From: [Kryzanowski, Kelli ENV:EX](#)
To: [Fallows, Norm ENV:EX](#); [Novosad, Veron ENV:EX](#)
Cc: [Sinnemann, Christina ENV:EX](#)
Subject: FW: Request: Response to MLA Conroy question: Acid spill - reply from ED by Tuesday
Date: September 10, 2018 4:46:02 PM
Importance: High

Hi gentlemen,

Please see below for additional questions from MLA Conroy.

Can you please do your best to answer the questions below by 2:00PM tomorrow.

Thanks!

KK

From: Jackson, Vickie ENV:EX
Sent: September 10, 2018 4:41 PM
To: Kryzanowski, Kelli ENV:EX <Kelli.Kryzanowski@gov.bc.ca>
Subject: Request: Response to MLA Conroy question: Acid spill - reply from ED by Tuesday
Importance: High

Hi Kelli-

This one slipped on my end so I'm jamming you guys on time a bit. Sorry. Any chance I can get a response approved by you for tomorrow? If not, let me know.

Thanks,

Vickie

From: Brunner, Angelika [<mailto:Angelika.Brunner@leg.bc.ca>]
Sent: Saturday, September 1, 2018 10:41 AM
To: Lo, Reamick ENV:EX
Subject: RE: Acid spill Trail
Importance: High

Hi Reamick,

MLA Conroy has asked me to follow up with further questions.

1. Is there anything else you can tell us about the second incident? For example, what kind of follow up is Min Env doing as a result of not having been notified? Are there any consequences for the parties involved at not having reported it?
2. Secondly, we have been hearing reports from the public (unverified) that there is still acid in the road surface, which has been absorbed in some way. There are concerns that the acid is

still on the road and continues to do damage. Can you find out if this is true?

3. Can Min Env provide us with any solid scientific information that explains the effect of the acid on vehicles, roads, and other materials? In particular:

- How exactly did these spills get cleaned up?
- What effect might it have had on the sewers and the nearby river?
- We need to know more about the effect that driving through the acid has on vehicles and the vehicles' safety.

We are looking for some written points that can be shared with the public, but if it makes sense for Katrine to have a briefing by phone, we would welcome that as well.

Thank you in advance for tracking down this information.

s.22

I am most easily reached on my private line if you want to chat

Angelika Brunner, Constituency Assistant

Katrine Conroy, MLA | Kootenay West | #2, 1006 3rd Street | Castlegar, BC | V1N 3A9 | T: [250-304-2783](tel:250-304-2783) | F: 250-304-2655

From: Lo, Reamick ENV:EX [<mailto:Reamick.Lo@gov.bc.ca>]

Sent: Wednesday, August 15, 2018 11:37 AM

To: Conroy.MLA, Katrine <Katrine.Conroy.MLA@leg.bc.ca>

Subject: RE: Acid spill Trail

Hi Angelika,

Here is our response:

April 10, 2018

s.13

- The Ministry monitored the cleanup through EMBC updates during the spill clean up.

s.13

- Traffic control personnel were on scene and directed traffic away from the spill.

May 23, 2018

- The Environmental Emergency Program did not receive any reports of an acid spill in the area on May 23.
- The Spill Reporting Regulation requires a spiller to report all corrosive material spills over five litres or five kilograms to the spill reporting line as soon as possible after the spill occurs.
- The ministry will be looking into the incident.

Thanks again.

Warmly,

Reamick Lo

Executive Assistant to the **Honourable George Heyman**
Minister of Environment and Climate Change Strategy
P: 250-812-8642

From: Conroy.MLA, Katrine [<mailto:Katrine.Conroy.MLA@leg.bc.ca>]
Sent: Monday, August 13, 2018 11:10 AM
To: Lo, Reamick ENV:EX
Subject: Acid spill Trail

Hello Reamick,

The constituent's email below refers to two sulfuric acid transportation incidents in Trail, on April 10th and May 23rd. There was also one near-miss this past week in Rossland when a truck overturned but did not spill the acid.

Can you clarify Min.Env's role in these incidents? Do you know if Min.Env has an official response to these incidents? I have highlighted some specifics in the constituent's email that I think relate to Min.Env, and am contacting other agencies for the rest.

I am expecting a call back from IRM today, so hoping to get more info from them as well, especially about their public communication plan.

There are a lot of agencies and organizations involved with this!

- MoTI
- Min. Env.
- ICBC
- City of Trail
- City of Rossland
- RDKB
- Teck
- IRM (the owner of the product and responsible for safe transport once it leaves Trail Operations)
- Westcan (carrier of the product, retained by IRM)
- Others?

Please feel free to call if it's easier to chat.

Thanks Reamick.

Angelika

s.22

s.22

From:

Sent: Friday, August 10, 2018 6:02 PM

To: Conroy.MLA, Katrine <Katrine.Conroy.MLA@leg.bc.ca>

Subject: Acid spill Trail

Katrine I am asking why we seem to not be getting information on the 2 spills of acid in Trail on April 10 and May 23 2018 in Trail BC, Also why have not seen any indication of inspections on the road ways or bridge? Where has environmental people been to check on the situation. This seems to be covered up for awhile. No news from the City Council and Government departments. We should not be left in the dark on these situations. The people facing losses due to others faults? ICBC taking deductibles for others mistakes are they not going to sue the trucking company and those involved to get back dollars on all this? Are the people of the province now going to face covering the added costs of all this? Can you get some actual facts out on all this. What is being done that may affect travelling public through the town on the said days? How will these people know of possible problems. I hope you will contact me with some help as out area Rep. Thank You s.22

s.22

Sent from [Mail](#) for Windows 10

From: [Novosad, Veron ENV:EX](#)
To: [Kryzanowski, Kelli ENV:EX](#); [Fallows, Norm ENV:EX](#)
Cc: [Sinnemann, Christina ENV:EX](#); [Fallows, Norm ENV:EX](#); [Lipsett, Kandis ENV:EX](#)
Subject: Re: Request: Response to MLA Conroy question: Acid spill - reply from ED by Tuesday
Date: September 10, 2018 4:53:39 PM

See below

Sent from my Samsung Galaxy smartphone.

----- Original message -----

From: "Kryzanowski, Kelli ENV:EX" <Kelli.Kryzanowski@gov.bc.ca>
Date: 2018-09-10 4:46 PM (GMT-08:00)
To: "Fallows, Norm ENV:EX" <Norm.Fallows@gov.bc.ca>, "Novosad, Veron ENV:EX" <Veron.Novosad@gov.bc.ca>
Cc: "Sinnemann, Christina ENV:EX" <Christina.Sinnemann@gov.bc.ca>
Subject: FW: Request: Response to MLA Conroy question: Acid spill - reply from ED by Tuesday

Hi gentlemen,

Please see below for additional questions from MLA Conroy.

Can you please do your best to answer the questions below by 2:00PM tomorrow.

Thanks!

KK

From: Jackson, Vickie ENV:EX
Sent: September 10, 2018 4:41 PM
To: Kryzanowski, Kelli ENV:EX <Kelli.Kryzanowski@gov.bc.ca>
Subject: Request: Response to MLA Conroy question: Acid spill - reply from ED by Tuesday
Importance: High

Hi Kelli-

This one slipped on my end so I'm jamming you guys on time a bit. Sorry. Any chance I can get a response approve by you for tomorrow? If not, let me know.

Thanks,

Vickie

From: Brunner, Angelika [<mailto:Angelika.Brunner@leg.bc.ca>]
Sent: Saturday, September 1, 2018 10:41 AM
To: Lo, Reamick ENV:EX
Subject: RE: Acid spill Trail
Importance: High

Hi Reamick,

MLA Conroy has asked me to follow up with further questions.

Is there anything else you can tell us about the second incident? For example, what kind of follow up is Min Env doing as a result of not having been notified? Are there any consequences for the parties involved at not having reported it?

MoE was notified for both, Veron on the first and Josh on the second. Veron did not know that Josh took the second one.

Secondly, we have been hearing reports from the public (unverified) that there is still acid in the road surface, which has been absorbed in some way. There are concerns that the acid is still on the road and continues to do damage. Can you find out if this is true?

Acid will no longer be an issue over this length of time, if any, also the responders tested the road surface at time of clean up to ensure neutralization

Can Min Env provide us with any solid scientific information that explains the effect of the acid on vehicles, roads, and other materials? In particular:

- How exactly did these spills get cleaned up?

Using a neutralizer, in this case fly ash

- What effect might it have had on the sewers and the nearby river?

None, did not reach that far

- We need to know more about the effect that driving through the acid has on vehicles and the vehicles' safety.

Acid can erode metal as to what actually happened each vehicle will need to be analysed

We are looking for some written points that can be shared with the public, but if it makes sense for Katrine to have a briefing by phone, we would welcome that as well.

Thank you in advance for tracking down this information.

I am most easily reached on my private line if you want to chat: s.22

Angelika Brunner, Constituency Assistant

Katrine Conroy, MLA | Kootenay West | #2, 1006 3rd Street | Castlegar, BC | V1N 3A9 | T: [250-304-2783](tel:250-304-2783) | F: 250-304-2655

From: Lo, Reamick ENV:EX [<mailto:Reamick.Lo@gov.bc.ca>]

Sent: Wednesday, August 15, 2018 11:37 AM

To: Conroy.MLA, Katrine <Katrine.Conroy.MLA@leg.bc.ca>

Subject: RE: Acid spill Trail

Hi Angelika,

Here is our response:

April 10, 2018

s.13

- The Ministry monitored the cleanup through EMBC updates during the spill clean up.

s.13

- Traffic control personnel were on scene and directed traffic away from the spill.

May 23, 2018

- The Environmental Emergency Program did not receive any reports of an acid spill in the area on May 23.
- The Spill Reporting Regulation requires a spiller to report all corrosive material spills over five litres or five kilograms to the spill reporting line as soon as possible after the spill occurs.
- The ministry will be looking into the incident.

Thanks again.

Warmly,

Reamick Lo

Executive Assistant to the **Honourable George Heyman**

Minister of Environment and Climate Change Strategy

P: 250-812-8642

From: Conroy.MLA, Katrine [<mailto:Katrine.Conroy.MLA@leg.bc.ca>]

Sent: Monday, August 13, 2018 11:10 AM

To: Lo, Reamick ENV:EX

Subject: Acid spill Trail

Hello Reamick,

The constituent's email below refers to two sulfuric acid transportation incidents in Trail, on April 10th and May 23rd. There was also one near-miss this past week in Rossland when a truck overturned but did not spill the acid.

Can you clarify Min.Env's role in these incidents? Do you know if Min.Env has an official response to these incidents? I have highlighted some specifics in the constituent's email that I think relate to Min.Env, and am contacting other agencies for the rest.

I am expecting a call back from IRM today, so hoping to get more info from them as well, especially about their public communication plan.

There are a lot of agencies and organizations involved with this!

MoTI

Min. Env.

ICBC

City of Trail

City of Rossland

RDKB

Teck

IRM (the owner of the product and responsible for safe transport once it leaves Trail Operations)

Westcan (carrier of the product, retained by IRM)

Others?

Please feel free to call if it's easier to chat.

Thanks Reamick.

Angelika

s.22

From: s.22

Sent: Friday, August 10, 2018 6:02 PM

To: Conroy.MLA, Katrine <Katrine.Conroy.MLA@leg.bc.ca>

Subject: Acid spill Trail

Katrine I am asking why we seem to not be getting information on the 2 spills of acid in Trail on April 10 and May 23 2018 in Trail BC, Also why have not seen any indication of inspections on the road ways or bridge? Where has environmental people been to check on the situation. This seems to be covered up for awhile. No news from the City Council and Government departments. We should not be left in the dark on these situations. The people facing losses due to others faults? ICBC taking deductibles for others mistakes are they not going to sue the trucking company and those involved to get back dollars on all this? Are the people of the province now going to face covering the added costs of all this? Can you get some actual facts out on all this. What is being done that may affect travelling public through the town on the said days? How will these people know of possible problems. I hope you will contact me with some help as out area Rep. Thank You s.22

s.22

Sent from [Mail](#) for Windows 10

From: [Kelly, Suzannah GCPE:EX](#)
To: [Fallows, Norm ENV:EX](#); [Novosad, Veron ENV:EX](#)
Cc: [Cotton, Brian GCPE:EX](#); [Karn, David GCPE:EX](#)
Subject: A question about sulphuric acid
Date: September 11, 2018 11:49:43 AM
Attachments: [Products-Sulphuric-Acid-SDS-2015.pdf](#)

Hi Norm and Veron,

I'm the new PAO for EPD, so I look forward to working with you both. I'm catching up on the Teck Trail spill and have a question: how do we know there was no environmental damage?

Does the explanation below make sense? I've made up that the materials were collected because that's what Teck's SDS says should happen – but I'm not sure. The DGIRs refer to wash-downs. Does that mean the acid-soaked lime rock was washed off the road? Is that safe?

s.13

No acid left the roadway and none affected waterways. Sulphuric acid is not very volatile, but it is corrosive. To neutralize it, materials with alkali are applied. When the spill was discovered, Teck Metals sent its fire department to spread lime rock on the acid puddles, working from the Teck facility toward the acid's destination, WestCan. At the same time, Westcan crews applied lime rock to puddles, working in the opposite direction. These efforts neutralized all the acid. The materials were then collected and disposed of according to regulations.

Any feedback on this blurb will be gratefully received.

Signed,
Really new to all this.
(AKA Suzannah)

Suzannah Kelly

Public Affairs Officer

*Government Communications & Public Engagement
Ministry of Environment and Climate Change Strategy*
O: 778-698-8244 | C: 778.584.2589

SULPHURIC ACID SAFETY DATA SHEET

SECTION 1. IDENTIFICATION

Product Identity: Sulphuric Acid (93 percent).

Trade Names and Synonyms: Oil of vitriol, electrolyte acid, battery acid, matting acid, H₂SO₄.

Manufacturer:

Teck Metals Ltd.
Trail Operations
Trail, British Columbia
V1R 4L8
Emergency Telephone: 250-364-4214

Supplier:

Teck Metals Ltd.
Trail Operations
Trail, British Columbia
V1R 4L8

Preparer:

Teck Metals Ltd.
Suite 3300 – 550 Burrard Street
Vancouver, British Columbia
V6C 0B3

Date of Last Revision: May 22, 2015.

Date of Last Edit: May 22, 2015.

Product Use: Used in the manufacture of chlorine dioxide (a pulp and paper bleaching chemical), in the manufacture of phosphate and sulphate fertilizers, in the manufacturing of metal sulphates, as a metal pickling chemical and as a component of lead storage batteries.

SECTION 2. HAZARDS IDENTIFICATION

CLASSIFICATION:

Health		Physical	Environmental
Acute Toxicity (Inhalation)	– Category 2	Corrosive to Metals – Category 1	Aquatic Toxicity – Short Term – Category 3
Skin Corrosion	– Category 1		
Eye Damage	– Category 1		
Specific Target Organ Toxicity			
Acute Exposure	– Category 3		
Chronic Exposure	– Category 2		

LABEL:

Symbols:		Signal Word: DANGER
Hazard Statements DANGER! Causes severe skin burns and serious eye damage. May cause respiratory irritation. May cause damage to teeth through prolonged and repeated exposure to sulphuric acid mists. Fatal if inhaled. May be corrosive to metals. Harmful to aquatic life.		Precautionary Statements: Wear protective gloves, protective clothing, eye and face protection. Wash exposed skin thoroughly after handling. Store and use only in a well-ventilated area. Keep containers tightly closed. In case of inadequate ventilation wear respiratory protection. Do not breathe mist. Avoid release to the environment. Absorb spillage. IF IN EYES: Rinse continuously with water for several minutes. Continue rinsing and immediately call a poison centre/doctor. Specific treatment is urgent. IF ON SKIN: Take off immediately all contaminated clothing. Rinse skin with water or shower. For large area burns, immediately call a poison centre/doctor. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Get medical attention if you feel unwell. Store in corrosion resistant container with a resistant inner liner.

Emergency Overview: A strong mineral acid present as a colourless and odourless oily liquid when pure but may appear yellow to dark brown when impure. Extremely corrosive to all body tissues, causing rapid tissue destruction and serious chemical burns. Skin or eye contact requires immediate first aid. Can decompose at high temperatures, forming toxic gases such as sulphur oxides. Non-flammable but reacts violently with water, generating large amounts of heat with potential for spattering of the acid. Can react with combustible materials to generate heat and ignition. Reacts with most metals, particularly when diluted with water, to form flammable hydrogen gas which may create an explosion hazard. It is highly toxic to aquatic organisms and plant life.

Potential Health Effects: Sulphuric acid is not very volatile and workplace exposures are therefore primarily due to accidental splashes or to processes or actions that generate an acid mist. It is extremely corrosive to all body tissues, causing rapid tissue destruction and serious chemical burns on contact with the skin or eyes. Skin or eye contact requires immediate first aid. Inhalation of sulphuric acid mist or fumes may produce irritation of the nose, throat and respiratory tract. High levels of acid mist are also irritating to the skin and eyes. Chronic inhalation of acid mist may cause pitting and erosion of tooth enamel. Sulphuric acid, per se, is not listed as a carcinogen by OSHA, NTP, IARC, or the ACGIH. However, IARC, the ACGIH and the NTP have concluded there is sufficient evidence that occupational exposure to strong inorganic acid mists containing sulphuric acid is carcinogenic or potentially carcinogenic to humans (see Toxicological Information, Section 11).

Potential Environmental Effects: Sulphuric acid is highly toxic to aquatic organisms and terrestrial plant life; however, it does not bioaccumulate or bioconcentrate through the food chain (see Ecological Information, Section 12).

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS	CAS Registry No.	CONCENTRATION (% wgt/wgt)
Sulphuric Acid	7664-93-9	93%

Note: See Section 8 for Occupational Exposure Guidelines.

SECTION 4. FIRST AID MEASURES

Eye Contact: *Symptoms:* Burning, pain, blurring. Avoid direct contact. Wear chemical protective gloves, if necessary. Quickly and gently blot excess acid off face. Immediately flush the contaminated eye(s) with lukewarm, gently flowing water, for at least 30 minutes, while holding the eyelid(s) open. If a contact lens is present, DO NOT delay irrigation or attempt to remove the lens. Neutral saline solution may be used as soon as it is available. DO NOT INTERRUPT FLUSHING. If necessary, continue flushing

during transport to emergency care facility. Take care not to rinse contaminated water into the unaffected eye or onto the face. Quickly transport victim to an emergency care facility.

Skin Contact: *Symptoms:* Burning, pain, ulceration. Avoid direct contact. Wear chemical protective clothing if necessary. As quickly as possible, remove contaminated clothing, shoes and leather goods (e.g., watchbands, belts), under shower if possible. Flush with lukewarm, gently flowing water for at least 30 minutes. DO NOT INTERRUPT FLUSHING. For acid splashes over large areas of the body transport quickly to an emergency care facility. If necessary, and if it can be done safely, continue flushing during transport to emergency care facility. Completely decontaminate clothing, shoes and leather goods before reuse or discard.

Inhalation: *Symptoms:* Nose throat and lung irritation, coughing, wheezing. Take precautions to ensure your own safety before attempting rescue (e.g., wear appropriate protective equipment, use the buddy system). Remove source of exposure or move person from exposure area to fresh air and keep comfortable for breathing. Call a Poison Centre/doctor or seek medical attention if you feel unwell.

Ingestion: *Symptoms:* Burning pain in mouth and throat. Have victim rinse mouth thoroughly with water. DO NOT INDUCE VOMITING. If vomiting occurs naturally, have person lie on their side in the recovery position. Have victim rinse mouth with water again. Quickly transport victim to an emergency care facility and bring a copy of this SDS.

SECTION 5. FIRE FIGHTING MEASURES

Fire and Explosion Hazards: Sulphuric acid is not flammable or combustible. However, fires may result from the heat generated by contact of concentrated sulphuric acid with combustible materials. Sulphuric acid reacts with most metals, especially when diluted with water, to produce hydrogen gas which can accumulate to explosive concentrations inside confined spaces. It reacts violently with water and organic materials evolving a considerable amount of heat and is very hazardous when in contact with carbides, cyanides, and sulfides.

Extinguishing Media: Use dry chemical or carbon dioxide extinguishers to extinguish small fires in surrounding combustible materials. Use water spray or fog to cool fire-exposed containers and to knock down large fires. Use water streams only if absolutely necessary and DO NOT USE WATER DIRECTLY ON ACID as a violent reaction may occur resulting in spattering of the acid. Do not release runoff from fire control methods to sewers or waterways.

Fire Fighting: Fire fighters must be fully-trained and wear full protective clothing including an approved, self-contained breathing apparatus which supplies a positive air pressure within a full face-piece mask. For fires close to a spill or where vapours are present, use acid-resistant personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Procedures for Cleanup: Control source of release if possible to do so safely. Contain spill, isolate hazard area, and deny entry to unauthorized personnel. Prevent from entering sewage or drainage systems and bodies of water. Dike area around spill and pump uncontaminated acid back to process if possible. Neutralize spilled material with alkali such as sodium carbonate or sodium bicarbonate, soda ash, lime or limestone granules. If neutralized with lime rock or soda ash, good ventilation is required during neutralization because of the release of carbon dioxide gas. Allow to stand for 1-2 hours to complete neutralization, then absorb any liquid in solid absorbent such as vermiculite or clay absorbents. Place spilled material in suitable (corrosion resistant) labeled containers for final disposal. Treat or dispose of waste spilled material and/or contaminated absorbent material in accordance with all local, regional and national regulations.

Personal Precautions: Acid resistant protective clothing and gloves. Sleeves and pant legs should be worn outside, not tucked into gloves and rubber boots. Use close-fitting safety goggles or a combination of safety goggles and a face shield where splashing is a possibility. Respiratory protection equipment should be worn where exposure to hazardous levels of mist or fume is possible.

Environmental Precautions: This product has the potential to pose ecological risks to organisms in both aquatic and terrestrial environments. Discharge of the product to soil and water should be prevented. Prevent spillage from entering sewers or natural watercourses.

SECTION 7. HANDLING AND STORAGE

Store in a dry, cool, well-ventilated area away from incompatible substances. Keep in tightly closed containers which are appropriately labeled. Do not allow contact with water. Do not store near alkaline substances.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Guidelines:

Component	ACGIH TLV	OSHA PEL	NIOSH REL
Sulphuric Acid	0.2 mg/m ³ Thoracic fraction	1 mg/m ³	1 mg/m ³

NOTE: OEGs for individual jurisdictions may differ from those given above. Check with local authorities for the applicable OEGs in your jurisdiction.

ACGIH - American Conference of Governmental Industrial Hygienists; OSHA - Occupational Safety and Health Administration; NIOSH - National Institute for Occupational Safety and Health. TLV – Threshold Limit Value, PEL – Permissible Exposure Limit, REL – Recommended Exposure Limit.

NOTE: The selection of the necessary level of engineering controls and personal protective equipment will vary depending upon the conditions of use and the potential for exposure. The following are therefore only general guidelines that may not fit all circumstances. Control measures to consider include:

Ventilation: Use adequate local or general ventilation to maintain the concentration of sulphuric acid aerosol mists below recommended occupational exposure limits.

Protective Clothing: Protective clothing and gloves as well as glasses, goggles or face shield. Appropriate protective clothing and gloves should be worn where any possibility exists that skin contact can occur. Use close-fitting safety goggles or a combination of safety goggles and a face shield where any possibility exists that eye contact can occur. An eyewash and quick drench shower should be provided near the work area. Workers should wash immediately whenever skin becomes contaminated.

Respirators: Where sulphuric acid mists are generated and cannot be controlled to within acceptable levels, use appropriate NIOSH-approved respiratory protection equipment (a combination of a 42CFR84 Class N, R or P-100 particulate filter and an acid gas cartridge). Note: sulphuric acid mist also causes eye irritation at high concentrations and a full face respirator or supplied air respirator may be necessary in some cases.

General Hygiene Considerations: Always practice good personal hygiene. Refrain from eating, drinking, or smoking in work areas. Thoroughly wash hands before eating, drinking, or smoking.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear, colourless, oily liquid (may turn yellowish to amber upon aging)	Odour: Odourless when cold; acrid odour upon heating	Odour Threshold: > 1 mg/m ³ (Acid mist will irritate the nose and may be sensed as a pungent odour)	pH: Concentration dependant <0.1 (93% Sol'n), 0.3 (5% or 1N Sol'n)
Vapour Pressure: <0.04 kPa (<0.3 mm Hg) @ 25°C	Vapour Density: 3.4 (air = 1)	Melting Point/Range: 280°C	Boiling Point/Range: -35°C
Relative Density (Water = 1): 1.84 (93% H ₂ SO ₄)	Evaporation Rate: Not Applicable	Coefficient of Water/Oil Distribution: No Data Available	Solubility: Completely soluble with generation of significant heat.
Flash Point: Not Flammable	Flammable Limits (LEL/UEL): Not Applicable	Auto-ignition Temperature: None	Decomposition Temperature: Not Applicable

SECTION 10. STABILITY AND REACTIVITY

Stability & Reactivity: Sulphuric acid is stable and not considered reactive under normal temperatures and pressures. Hazardous polymerization or runaway reactions will not occur. Decomposes at 340°C into sulphur trioxide and water. Extremely reactive with metals, alkalis, reducing agents and many other organic and inorganic chemicals. Hazardous gases such as hydrogen cyanide, hydrogen sulfide and acetylene are evolved on contact with chemicals such as cyanides, sulfides and carbides respectively. Contact with combustible organic matter may cause fire or explosion. Dilution with water generates excessive heat and spattering or boiling may occur. Always add acid to water, NEVER ADD WATER TO ACID. Corrosive to most metals including mild steel, copper, aluminum, zinc, etc., especially when diluted to below 90%.

Incompatibilities: Combustible materials, organic materials, reducing agents, amines, bases, water, excess heat, and metals.

Hazardous Decomposition Products: Sulphur dioxide, sulphur trioxide and sulphuric acid fumes.

SECTION 11. TOXICOLOGICAL INFORMATION

General: Concentrated sulphuric acid is a direct acting toxicant, producing local effects at the site(s) of contact but no systemic effect. It exerts a strong corrosive action on all tissues due to its severe dehydration action (removing water from tissues). The severity of the chemical burn produced by the concentrated acid is proportional to the strength of the acid and the duration of contact. Burns are deep but typically not severely painful.

Acute:

Skin/Eye: Splashes can cause severe eye burns and may cause irreversible eye injury and possible blindness. Skin contact results in severe burns and may result in permanent scarring. High levels of sulphuric acid mists and aerosols are also irritating to the eyes and skin.

Inhalation: Inhalation may cause severe irritation of the respiratory tract with sore throat, coughing, shortness of breath, laryngeal spasm and delayed lung edema. These symptoms may be aggravated by physical exertion. Asthmatics may be more sensitive to inhaling sulphuric acid mists and asthma may be aggravated by exposure to sulphuric acid.

Ingestion: Ingestion is unlikely in industrial use but would result in severe burns to the mouth, throat, esophagus and stomach which could lead to permanent damage to the digestive tract. Small amounts of acid can also enter the lungs during ingestion or subsequent vomiting and cause serious lung injury.

Chronic: Prolonged exposure to dilute solutions or mists may result in eye irritation (chronic conjunctivitis) and produce skin dermatitis. Exposure to high concentrations of acid mist has caused erosion and discolouration of the anterior teeth. Inhalation of sulphuric acid mist may decrease the ability of the respiratory tract to remove other small particles which may be inhaled. Sulphuric acid, per se, is not listed as a carcinogen by OSHA, the National Toxicology Program (NTP), the International Agency for Research on Cancer (IARC), or the ACGIH. IARC has concluded that there is sufficient evidence that occupational exposure to strong inorganic acid mists containing sulphuric acid is carcinogenic to humans, resulting in an increased incidence of primarily laryngeal cancers. The ACGIH lists strong inorganic acid mists containing sulphuric acid as a suspected human carcinogen (A2) and the NTP have classified strong inorganic acid mists containing sulphuric acid as a known human carcinogen. OSHA does not list sulphuric acid mist as a carcinogen.

Animal Toxicity:

<u>Hazardous Ingredient:</u>	<u>Acute Oral Toxicity:</u>	<u>Acute Dermal Toxicity:</u>	<u>Acute Inhalation Toxicity:</u>
Sulphuric Acid	2140 mg/kg [†]		255 mg/m ³ /4Hr [†]

[†] LD₅₀, Rat, Oral, [‡] LC₅₀, Rat, Inhalation, 4 hour

SECTION 12. ECOLOGICAL INFORMATION

Sulphuric acid is highly toxic to aquatic organisms and terrestrial plant life; however, it does not bioaccumulate or bioconcentrate through the food chain.

SECTION 13. DISPOSAL CONSIDERATIONS

Do not wash down drain or allow to reach natural watercourses. Dispose of neutralized waste consistent with regulatory requirements. If neutralized with lime rock or soda ash, good ventilation is required during neutralization because of the release of carbon dioxide gas.

SECTION 14. TRANSPORT INFORMATION

PROPER SHIPPING NAME TRANSPORT CANADA.....	Sulphuric Acid
PROPER SHIPPING U.S. DOT.....	Sulfuric Acid
TRANSPORT CANADA CLASSIFICATION.....	Class 8 Packing Group II
U.S. DOT CLASSIFICATION.....	Class 8 Packing Group II (RQ) – 1,000 lbs.
PRODUCT IDENTIFICATION NUMBER.....	UN1830
MARINE POLLUTANT.....	No
IMO CLASSIFICATION.....	Class 8

SECTION 15. REGULATORY INFORMATION

U.S.

INGREDIENTS LISTED ON TSCA INVENTORY..... Yes

HAZARDOUS UNDER HAZARD COMMUNICATION STANDARD..... Yes

CERCLA SECTION 103 HAZARDOUS SUBSTANCES Sulfuric Acid..... YesRQ: 1000 lbs. (454 kg.)

EPCRA SECTION 302 EXTREMELY HAZARDOUS SUBSTANCE YesRQ: 1000 lbs. (454 kg.)
Threshold Planning Quantity: 1000 lbs.

EPCRA SECTION 311/312 HAZARD CATEGORIES Immediate (Acute) Health Hazard - Corrosive
Immediate (Acute) Health Hazard - Highly Toxic

EPCRA SECTION 313 TOXIC RELEASE INVENTORY:..... Sulfuric AcidCAS NO. 7664-93-9
Percent by Weight: 93%

SECTION 16. OTHER INFORMATION

Date of Original Issue: January 9, 1998 **Version:** 01 (*First edition*)

Date of Latest Revision: May 22, 2015 **Version:** 13

The information in this Safety Data Sheet is based on the following references:

- American Conference of Governmental Industrial Hygienists, 2004, Documentation of the Threshold Limit Values and Biological Exposure Indices, Seventh Edition plus updates.
- American Conference of Governmental Industrial Hygienists, 2015, Guide to Occupational Exposure Values.
- American Conference of Governmental Industrial Hygienists, 2015, Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices.
- Bretherick's Handbook of Reactive Chemical Hazards, 20th Anniversary Edition. (P. G. Urben, Ed.) 1995.
- Canadian Centre for Occupational Health & Safety CHEMINFO Record No. 122 - Sulphuric Acid, 2009-04.
- Commission de la santé et la sécurité du travail, Service du Répertoire toxicologique, Acide Sulfurique, 2006-02-08.
- Industry Canada, SOR/2015-17, 30 January 2015 - Hazardous Products Regulations.
- International Agency for Research on Cancer (IARC), Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Man, 1972 – present, (multi-volume work), World Health Organization, Geneva.
- International Chemical Safety Cards (WHO/IPCS/ILO), ICSC:0362 – Sulphuric Acid (Revised Oct 2008).
- Merck & Co., Inc., 2001, The Merck Index, An Encyclopedia of Chemicals, Drugs, and Biologicals, Thirteenth Edition.
- National Industrial Chemicals Notification and Assessment Scheme (NICNAS), Sydney, Australia – Existing Chemicals Information Sheet – Sulphuric Acid, 30 June 2003.
- OECD Screening Information Data Base (SIDS) Initial Assessment Report – Sulphuric Acid, January 2001.
- Patty's Toxicology, Fifth Edition, 2001: E. Bingham, B. Cohns & C.H. Powell, Ed.
- Toxicology of the Eye, 2nd Ed. W. Morton Grant, MD, Charles C. Thomas, Publishers; Springfield. IL (1974).
- U.S. Dept. of Health and Human Services, National Institute for Occupational Safety and Health. NIOSH Pocket Guide to Chemical Hazards. CD-ROM Edition September 2005.
- U.S. Dept. of Health and Human Services, National Institute for Occupational Safety and Health, Registry of Toxic Effects of Chemical Substances (RTECS) CCOHS Web Access subscription.
- U.S. Dept. of Health and Human Services, Public Health Service, Agency for Toxic Substances and Disease Registry, Toxicological Profile for Sulfur Trioxide and Sulfuric Acid, December 1998.
- U.S. Occupational Safety and Health Administration, 1989, Code of Federal Regulations, Title 29, Part 1910.

Notice to Reader

Although reasonable precautions have been taken in the preparation of the data contained herein, it is offered solely for your information, consideration and investigation. Teck Metals Ltd. extends no warranty and assumes no responsibility for the accuracy of the content and expressly disclaims all liability for reliance thereon. This safety data sheet provides guidelines for the safe handling and processing of this product; it does not and cannot advise on all possible situations. Therefore, your specific use of this product should be evaluated to determine if additional precautions are required. Individuals exposed to this product should read and understand this information and be provided pertinent training prior to working with this product.

From: [Karn, David GCPE:EX](#)
To: [Fallows, Norm ENV:EX](#); [Kelly, Suzannah GCPE:EX](#); [Novosad, Veron ENV:EX](#)
Cc: [Cotton, Brian GCPE:EX](#); [Kryzanowski, Kelli ENV:EX](#); [Crebo, David GCPE:EX](#)
Subject: RE: A question about sulphuric acid
Date: September 11, 2018 2:01:46 PM

Norm, we don't think it's worth mentioning to media that COS is considering investigating. If there is no investigation (which seems likely) then we will just get more questions from media asking us to justify why there was no investigation.

We think this version works unless it's factually incorrect.

s.13

s.13 No acid left the roadway and none affected waterways. Sulphuric acid is not very volatile, but it is corrosive. To neutralize it, materials with alkali are applied. When the spill was discovered, Teck Metals sent its fire department to spread lime rock on the puddles, working from the Teck facility toward the acid's destination, WestCan. At the same time, WestCan crews applied lime rock to puddles, working in the opposite direction. These efforts neutralized all the acid. The materials were then disposed of according to regulations.

dk

From: Fallows, Norm ENV:EX
Sent: Tuesday, September 11, 2018 12:32 PM
To: Kelly, Suzannah GCPE:EX; Novosad, Veron ENV:EX
Cc: Cotton, Brian GCPE:EX; Karn, David GCPE:EX; Kryzanowski, Kelli ENV:EX
Subject: RE: A question about sulphuric acid

Hi Kelly – I revised some of the info in red below. Hope that Helps



Norm Fallows
Provincial Duty Manager
Environmental Emergency Program
Cell: 250-847-1290
DutyManager.EEP@gov.bc.ca
www.gov.bc.ca/spillsinfo  [@SpillsInfoBC](https://twitter.com/SpillsInfoBC)
Report a spill: 1-800-663-3456

From: Kelly, Suzannah GCPE:EX
Sent: Tuesday, September 11, 2018 11:50 AM
To: Fallows, Norm ENV:EX; Novosad, Veron ENV:EX

Cc: Cotton, Brian GCPE:EX; Karn, David GCPE:EX
Subject: A question about sulphuric acid

Hi Norm and Veron,

I'm the new PAO for EPD, so I look forward to working with you both. I'm catching up on the Teck Trail spill and have a question: how do we know there was no environmental damage?

Does the explanation below make sense? I've made up that the materials were collected because that's what Teck's SDS says should happen – but I'm not sure. The DGIRs refer to wash-downs. Does that mean the acid-soaked lime rock was washed off the road? Is that safe?

Conservation Officer Service is currently undertaking an investigation regarding the incident. The release of product appeared to be confined to the road right of way and no waterways were impacted. Sulphuric acid is a corrosive product and can be neutralized using alkali materials. When the spill was discovered, Teck Metals sent its emergency response team to address free product along the path where the product was released. Westcan also worked in conjunction with Tech Metals in the opposite direction to address free product.. These efforts neutralized all the acid. The materials were then collected and disposed of according to regulations.

Any feedback on this blurb will be gratefully received.

Signed,
Really new to all this.
(AKA Suzannah)

Suzannah Kelly

Public Affairs Officer

Government Communications & Public Engagement

Ministry of Environment and Climate Change Strategy

O: 778-698-8244 | C: 778.584.2589

From: [Lipsett, Kandis ENV:EX](#)
To: [Novosad, Veron ENV:EX](#)
Cc: [Fallows, Norm ENV:EX](#); [Sinnemann, Christina ENV:EX](#)
Subject: FW: Updated Joint IRM-Teck Fact Sheet - Information on Recent Sulphuric Acid Spills in Trail, BC
Date: September 24, 2018 12:34:21 PM
Importance: High

Hi Veron,

When you arrive in Nelson can you provide some background to the Teck Fact Sheet?

Regards,



Kandis Lipsett, BSc. PChem

Senior Environmental Emergency Response Officer
Environmental Emergencies Program
Southern Interior Region/Penticton
250-490-8243 | 250-488-5429 Kandis.Lipsett@gov.bc.ca
Report a spill: 1-800-663-3456

From: Fallows, Norm ENV:EX
Sent: September-24-18 12:14 PM
To: Sinnemann, Christina ENV:EX; Lipsett, Kandis ENV:EX
Subject: Re: Updated Joint IRM-Teck Fact Sheet - Information on Recent Sulphuric Acid Spills in Trail, BC

Kandis - could Veron follow up

Norm

Sent from my BlackBerry

From: Christina.Sinnemann@gov.bc.ca
Sent: September 24, 2018 11:52
To: Norm.Fallows@gov.bc.ca; Kandis.Lipsett@gov.bc.ca
Subject: FW: Updated Joint IRM-Teck Fact Sheet - Information on Recent Sulphuric Acid Spills in Trail, BC

Hi Norm and Kandis

I was talking with Jennifer Jacobsen today about the Drinking Water working group and she raised these sulphuric acid spills as a separate issue with me.

She does not recall IH being notified on either of the spills and also has concerns about the content of the Teck Fact Sheet (attached) which states: Due to the limited amount of material spilled and the

thorough cleanup process, no health or environmental impacts have been reported or are expected.

Can someone please determine if IHA was notified of these incidents in Trail in April and May and connect with Jennifer to discuss.

Kind regards
Christina

From: Jacobsen, Jennifer [mailto:Jennifer.Jacobsen@interiorhealth.ca]
Sent: Monday, September 24, 2018 11:28 AM
To: Sinnemann, Christina ENV:EX
Subject: FW: Updated Joint IRM-Teck Fact Sheet - Information on Recent Sulphuric Acid Spills in Trail, BC

Hi There – I would like to discuss the notification related to these with someone please.

Jen Jacobsen

Direct: (250) 770-5540 ext 31286 **note new phone number

Cell: (250) 462-2465

jennifer.jacobsen@interiorhealth.ca

~We are committed to being a trusted leader in creating the healthiest and safest environments in which we live, work, learn and play.~

This Email message, including any attachments, are intended solely for the use of the individual or entity to whom it is addressed and may contain information that is confidential and/or privileged. Any distribution, copying, disclosure, or other use is strictly prohibited. If you are not the intended recipient or have received this Email in error, please notify the sender immediately and permanently delete the message unread, including any attachments.

From: Johnson, Kayla [mailto:Kayla.Johnson@snclavalin.com]
Sent: Monday, September 10, 2018 2:04 PM
To: Matthes, Alexa; McCormick, Andrea; Enns, Bruce; Hall, Cindy; Ali Grieve; Brad McCandlish; Whittleton, Cheryl; Clare North; Dan Bouillon; Tomlin, Dawn; Gord DeRosa; Stefani, Jeannine; Linda Worley; Lisa Pasin; Marylynn Rakuson; Adams, Mike; Mike Martin; Ron Joseph; Shane Ferraro; Steve Como; Steve Hilts; Tiffany Armstrong
Subject: FW: Updated Joint IRM-Teck Fact Sheet - Information on Recent Sulphuric Acid Spills in Trail, BC

Hello everyone,

Please see the revised information sheet from teck.

Kayla Johnson
Administrative Assistant
Environment, BC-Trail, SAR

Infrastructure

Tel.: (250) 368-3256 x 53257

Cell.: (250) 921-5822

SNC-Lavalin

Trail Area Health and Environment Program Office (THEP)

From: Carrie G. Gaines [mailto:cgg@irm.com]

Sent: September 10, 2018 1:58 PM

Subject: Updated Joint IRM-Teck Fact Sheet - Information on Recent Sulphuric Acid Spills in Trail, BC

Attached please find an UPDATED Fact Sheet regarding the recent sulphuric acid spills in Trail, B.C. The purpose of the fact sheet is to make accurate information available to the public. This sheet contains information from a number of sources. We have become aware of an inaccuracy in the times for the May 23rd spill, and therefore, we are correcting and ensuring the updated Fact Sheet is promptly distributed.

Thank you,

Carrie Gaines

Manager Sulphuric Acid

International Raw Materials Ltd.

360-719-0222

From: [Novosad, Veron ENV:EX](#)
To: [Lipsett, Kandis ENV:EX](#)
Cc: [Fallows, Norm ENV:EX](#); [Sinnemann, Christina ENV:EX](#)
Subject: Re: Updated Joint IRM-Teck Fact Sheet - Information on Recent Sulphuric Acid Spills in Trail, BC
Date: September 24, 2018 2:46:21 PM

All spills to date have been to road surfaces without any impacts to waterbodies.

Sent from my Samsung Galaxy smartphone.

----- Original message -----

From: "Lipsett, Kandis ENV:EX" <Kandis.Lipsett@gov.bc.ca>
Date: 2018-09-24 12:34 PM (GMT-08:00)
To: "Novosad, Veron ENV:EX" <Veron.Novosad@gov.bc.ca>
Cc: "Fallows, Norm ENV:EX" <Norm.Fallows@gov.bc.ca>, "Sinnemann, Christina ENV:EX" <Christina.Sinnemann@gov.bc.ca>
Subject: FW: Updated Joint IRM-Teck Fact Sheet - Information on Recent Sulphuric Acid Spills in Trail, BC

Hi Veron,

When you arrive in Nelson can you provide some background to the Teck Fact Sheet?

Regards,



Kandis Lipsett, BSc. PChem

Senior Environmental Emergency Response Officer
Environmental Emergencies Program
Southern Interior Region/Penticton
250-490-8243 | 250-488-5429 Kandis.Lipsett@gov.bc.ca
Report a spill: 1-800-663-3456

From: Fallows, Norm ENV:EX
Sent: September-24-18 12:14 PM
To: Sinnemann, Christina ENV:EX; Lipsett, Kandis ENV:EX
Subject: Re: Updated Joint IRM-Teck Fact Sheet - Information on Recent Sulphuric Acid Spills in Trail, BC

Kandis - could Veron follow up

Norm

Sent from my BlackBerry

From: Christina.Sinnemann@gov.bc.ca
Sent: September 24, 2018 11:52
To: Norm.Fallows@gov.bc.ca; Kandis.Lipsett@gov.bc.ca
Subject: FW: Updated Joint IRM-Teck Fact Sheet - Information on Recent Sulphuric Acid Spills in Trail, BC

Hi Norm and Kandis

I was talking with Jennifer Jacobsen today about the Drinking Water working group and she raised these sulphuric acid spills as a separate issue with me.

She does not recall IH being notified on either of the spills and also has concerns about the content of the Teck Fact Sheet (attached) which states: Due to the limited amount of material spilled and the thorough cleanup process, no health or environmental impacts have been reported or are expected.

Can someone please determine if IHA was notified of these incidents in Trail in April and May and connect with Jennifer to discuss.

Kind regards
Christina

From: Jacobsen, Jennifer [mailto:Jennifer.Jacobsen@interiorhealth.ca]
Sent: Monday, September 24, 2018 11:28 AM
To: Sinnemann, Christina ENV:EX
Subject: FW: Updated Joint IRM-Teck Fact Sheet - Information on Recent Sulphuric Acid Spills in Trail, BC

Hi There – I would like to discuss the notification related to these with someone please.

Jen Jacobsen

Direct: (250) 770-5540 ext 31286 **note new phone number

Cell: (250) 462-2465

jennifer.jacobsen@interiorhealth.ca

~We are committed to being a trusted leader in creating the healthiest and safest environments in which we live, work, learn and play.~

This Email message, including any attachments, are intended solely for the use of the individual or entity to whom it is addressed and may contain information that is confidential and/or privileged. Any distribution, copying, disclosure, or other use is strictly prohibited. If you are not the intended recipient or have received this Email in error, please notify the sender immediately and permanently delete the message unread, including any attachments.

From: Johnson, Kayla [mailto:Kayla.Johnson@snclavalin.com]

Sent: Monday, September 10, 2018 2:04 PM

To: Matthes, Alexa; McCormick, Andrea; Enns, Bruce; Hall, Cindy; Ali Grieve; Brad McCandlish; Whittleton, Cheryl; Clare North; Dan Bouillon; Tomlin, Dawn; Gord DeRosa; Stefani, Jeannine; Linda Worley; Lisa Pasin; Marylynn Rakuson; Adams, Mike; Mike Martin; Ron Joseph; Shane Ferraro; Steve Como; Steve Hilts; Tiffany Armstrong

Subject: FW: Updated Joint IRM-Teck Fact Sheet - Information on Recent Sulphuric Acid Spills in Trail, BC

Hello everyone,

Please see the revised information sheet from teck.

Kayla Johnson

Administrative Assistant

Environment, BC-Trail, SAR

Infrastructure

Tel.: (250) 368-3256 x 53257

Cell.: (250) 921-5822

SNC-Lavalin

Trail Area Health and Environment Program Office (THEP)

From: Carrie G. Gaines [mailto:cgg@irm.com]

Sent: September 10, 2018 1:58 PM

Subject: Updated Joint IRM-Teck Fact Sheet - Information on Recent Sulphuric Acid Spills in Trail, BC

Attached please find an UPDATED Fact Sheet regarding the recent sulphuric acid spills in Trail, B.C. The purpose of the fact sheet is to make accurate information available to the public. This sheet contains information from a number of sources. We have become aware of an inaccuracy in the times for the May 23rd spill, and therefore, we are correcting and ensuring the updated Fact Sheet is promptly distributed.

Thank you,

Carrie Gaines

Manager Sulphuric Acid

International Raw Materials Ltd.

360-719-0222

From: [Novosad, Veron ENV:EX](#)
To: [Lipsett, Kandis ENV:EX](#)
Cc: [Fallows, Norm ENV:EX](#); [Sinnemann, Christina ENV:EX](#)
Subject: Re: Updated Joint IRM-Teck Fact Sheet - Information on Recent Sulphuric Acid Spills in Trail, BC
Date: September 24, 2018 2:47:59 PM

No attachment to review

Sent from my Samsung Galaxy smartphone.

----- Original message -----

From: "Lipsett, Kandis ENV:EX" <Kandis.Lipsett@gov.bc.ca>
Date: 2018-09-24 12:34 PM (GMT-08:00)
To: "Novosad, Veron ENV:EX" <Veron.Novosad@gov.bc.ca>
Cc: "Fallows, Norm ENV:EX" <Norm.Fallows@gov.bc.ca>, "Sinnemann, Christina ENV:EX" <Christina.Sinnemann@gov.bc.ca>
Subject: FW: Updated Joint IRM-Teck Fact Sheet - Information on Recent Sulphuric Acid Spills in Trail, BC

Hi Veron,

When you arrive in Nelson can you provide some background to the Teck Fact Sheet?

Regards,



Kandis Lipsett, BSc. PChem

Senior Environmental Emergency Response Officer
Environmental Emergencies Program
Southern Interior Region/Penticton
250-490-8243 | 250-488-5429 Kandis.Lipsett@gov.bc.ca
Report a spill: 1-800-663-3456

From: Fallows, Norm ENV:EX
Sent: September-24-18 12:14 PM
To: Sinnemann, Christina ENV:EX; Lipsett, Kandis ENV:EX
Subject: Re: Updated Joint IRM-Teck Fact Sheet - Information on Recent Sulphuric Acid Spills in Trail, BC

Kandis - could Veron follow up

Norm

Sent from my BlackBerry

From: Christina.Sinnemann@gov.bc.ca
Sent: September 24, 2018 11:52
To: Norm.Fallows@gov.bc.ca; Kandis.Lipsett@gov.bc.ca
Subject: FW: Updated Joint IRM-Teck Fact Sheet - Information on Recent Sulphuric Acid Spills in Trail, BC

Hi Norm and Kandis

I was talking with Jennifer Jacobsen today about the Drinking Water working group and she raised these sulphuric acid spills as a separate issue with me.

She does not recall IH being notified on either of the spills and also has concerns about the content of the Teck Fact Sheet (attached) which states: Due to the limited amount of material spilled and the thorough cleanup process, no health or environmental impacts have been reported or are expected.

Can someone please determine if IHA was notified of these incidents in Trail in April and May and connect with Jennifer to discuss.

Kind regards
Christina

From: Jacobsen, Jennifer [mailto:Jennifer.Jacobsen@interiorhealth.ca]
Sent: Monday, September 24, 2018 11:28 AM
To: Sinnemann, Christina ENV:EX
Subject: FW: Updated Joint IRM-Teck Fact Sheet - Information on Recent Sulphuric Acid Spills in Trail, BC

Hi There – I would like to discuss the notification related to these with someone please.

Jen Jacobsen

Direct: (250) 770-5540 ext 31286 **note new phone number

Cell: (250) 462-2465

jennifer.jacobsen@interiorhealth.ca

~We are committed to being a trusted leader in creating the healthiest and safest environments in which we live, work, learn and play.~

This Email message, including any attachments, are intended solely for the use of the individual or entity to whom it is addressed and may contain information that is confidential and/or privileged. Any distribution, copying, disclosure, or other use is strictly prohibited. If you are not the intended recipient or have received this Email in error, please notify the sender immediately and permanently delete the message unread, including any attachments.

From: Johnson, Kayla [mailto:Kayla.Johnson@snclavalin.com]

Sent: Monday, September 10, 2018 2:04 PM

To: Matthes, Alexa; McCormick, Andrea; Enns, Bruce; Hall, Cindy; Ali Grieve; Brad McCandlish; Whittleton, Cheryl; Clare North; Dan Bouillon; Tomlin, Dawn; Gord DeRosa; Stefani, Jeannine; Linda Worley; Lisa Pasin; Marylynn Rakuson; Adams, Mike; Mike Martin; Ron Joseph; Shane Ferraro; Steve Como; Steve Hilts; Tiffany Armstrong

Subject: FW: Updated Joint IRM-Teck Fact Sheet - Information on Recent Sulphuric Acid Spills in Trail, BC

Hello everyone,

Please see the revised information sheet from teck.

Kayla Johnson

Administrative Assistant

Environment, BC-Trail, SAR

Infrastructure

Tel.: (250) 368-3256 x 53257

Cell.: (250) 921-5822

SNC-Lavalin

Trail Area Health and Environment Program Office (THEP)

From: Carrie G. Gaines [mailto:cgg@irm.com]

Sent: September 10, 2018 1:58 PM

Subject: Updated Joint IRM-Teck Fact Sheet - Information on Recent Sulphuric Acid Spills in Trail, BC

Attached please find an UPDATED Fact Sheet regarding the recent sulphuric acid spills in Trail, B.C. The purpose of the fact sheet is to make accurate information available to the public. This sheet contains information from a number of sources. We have become aware of an inaccuracy in the times for the May 23rd spill, and therefore, we are correcting and ensuring the updated Fact Sheet is promptly distributed.

Thank you,

Carrie Gaines

Manager Sulphuric Acid

International Raw Materials Ltd.

360-719-0222