# **DGIR 214026 Fire Duncan**

From: Brian.Goetz@gov.bc.ca, Goetz, Brian P ENV:EX <Brian.Goetz@gov.bc.ca>

To: First authority <EPHS.afterhours@fnha.ca>

Sent: January 2, 2022 7:13:01 AM PST

Hi Dan.

I couldn't forward the report.

Here are the details. Fire at Kal complex 6482 Norcross Road in Duncan. Toxic runoff from fire fighting water heading down the ditch and towards Somenos Marsh to the southeast.

Sent from my iPad

## Re: DGIR 214026 Fire Duncan

From: Goetz, Brian P ENV:EX <Brian.Goetz@gov.bc.ca>

To: Greg Vos <Greg.Vos@fnha.ca>, Akhil Manne <Akhil.Manne@fnha.ca>,

alec.johnnie@cowichantribes.com, EPHS After Hours <ephs.afterhours@fnha.ca>

Cc: Karen Larson < Karen.Larson@fnha.ca>, HPES.Duncan@islandhealth.ca

Sent: January 2, 2022 10:29:34 AM PST Attachments: image002.jpg, image002.jpg

Thanks Dan:

fire is at ok tire facility. Ok tire and North Cowichan Fire have updated me. Ok tire, Emcon highway maintenance and North cowichan are continuing containment operations. Ok tire rep indicated black runoff appears to be mostly soot from building and roof fire. Fire is mostly out and an excavator is working on breaking up the structure. Some tires appeared to have been consumed in the fire and may be part of the runoff. Still waiting for environmental contractors and vacuum trucks. Ok tire will be developing a cleanup plan and investigating down stream effects today.

#### Get Outlook for iOS

From: EPHS After Hours <ephs.afterhours@fnha.ca>

Sent: Sunday, January 2, 2022 10:11:15 AM

**To:** Greg Vos <Greg.Vos@fnha.ca>; 'alec.johnnie@cowichantribes.com' <alec.johnnie@cowichantribes.com>; Akhil Manne@fnha.ca>

Cc: 'Goetz, Brian P ENV:EX' < Brian.Goetz@gov.bc.ca>; 'HPES.Duncan@islandhealth.ca' < HPES.Duncan@islandhealth.ca>;

Karen Larson < Karen.Larson@fnha.ca> Subject: RE: DGIR 214026 Fire Duncan

[EXTERNAL] This email came from an external source. Only open attachments or links that you are expecting from a known sender.

Hi Greg, Akhil and Alec, I'm passing this email along to you for your information and action as you deem necessary. I conclude from this Google Earth snapshot that Cowichan is likely the closest First Nation Community so I have copied Alec, the Public Works Manager. I'm hoping that the marsh is not a source of drinking water. I have also copied Island Health as a precautionary measure.

The MoE spill line can be contacted for more information at 1-800-663-3456.



Dan Ferguson Environmental Health Officer First Nations Health Authority Suite 770 - 175 2nd Ave Kamloops, BC V2C5W1

Office: 778-362-8184 Cell: 250-320-9480 Fax: 250-851-4838

## ----Original Message-----

From: Goetz, Brian P ENV:EX <Brian.Goetz@gov.bc.ca>

Sent: Sunday, January 2, 2022 7:13 AM

To: EPHS After Hours <ephs.afterhours@fnha.ca>

Subject: DGIR 214026 Fire Duncan

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To: Goetz, Brian P ENV:EX <Brian.Goetz@gov.bc.ca>

Cc: Greg Vos <Greg.Vos@fnha.ca>, alec.johnnie@cowichantribes.com, Akhil Manne

<a href="mailto:</a> <a href="mailto:Akhil.Manne@fnha.ca">Akhil.Manne@fnha.ca</a>, <a href="mailto:HPES.Duncan@islandhealth.ca">HPES.Duncan@islandhealth.ca</a>, <a href="mailto:Karen Larson">Karen Larson</a>

<Karen.Larson@fnha.ca>

Sent: January 2, 2022 10:36:16 AM PST

Attachments: image002.jpg

[EXTERNAL] This email came from an external source. Only open attachments or links that you are expecting from a known sender.

Thanks Brian, any confirmation on whether or not the Marsh/lake is a source of drinking water?

The other human health risk was the smoke but I'm guessing that has lessened significantly by now.

Dan

Sent from my iPhone

On Jan 2, 2022, at 10:29 AM, Goetz, Brian P ENV:EX <Brian.Goetz@gov.bc.ca> wrote:

#### Thanks Dan:

fire is at ok tire facility. Ok tire and North Cowichan Fire have updated me. Ok tire, Emcon highway maintenance and North cowichan are continuing containment operations. Ok tire rep indicated black runoff appears to be mostly soot from building and roof fire. Fire is mostly out and an excavator is working on breaking up the structure. Some tires appeared to have been consumed in the fire and may be part of the runoff. Still waiting for environmental contractors and vacuum trucks. Ok tire will be developing a cleanup plan and investigating down stream effects today.

Get Outlook for iOS<a href="https://aka.ms/o0ukef">https://aka.ms/o0ukef</a>

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Sent: Sunday, January 2, 2022 10:11:15 AM

To: Greg Vos <Greg.Vos@fnha.ca>; 'alec.johnnie@cowichantribes.com' <alec.johnnie@cowichantribes.com>; Akhil Manne <Akhil.Manne@fnha.ca>

Cc: 'Goetz, Brian P ENV:EX' < Brian.Goetz@gov.bc.ca>; 'HPES.Duncan@islandhealth.ca'

<HPES.Duncan@islandhealth.ca>; Karen Larson <Karen.Larson@fnha.ca>

Subject: RE: DGIR 214026 Fire Duncan

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the marsh is not a source of drinking water. I have also copied Island Health as a precautionary measure.

The MoE spill line can be contacted for more information at 1-800-663-3456.

[cid:image002.jpg@01D7FFC1.120F90E0]

Dan Ferguson

**Environmental Health Officer** 

First Nations Health Authority

Suite 770 - 175 2nd Ave

Kamloops, BC V2C5W1

Office: 778-362-8184

Cell: 250-320-9480

Fax: 250-851-4838

----Original Message----

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Sent: Sunday, January 2, 2022 7:13 AM

To: EPHS After Hours <ephs.afterhours@fnha.ca>

Subject: DGIR 214026 Fire Duncan

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Sent from my iPad

# Untitled (3).msg

From: Goetz, Brian P ENV:EX <Brian.Goetz@gov.bc.ca>
To: Goetz, Brian P ENV:EX <Brian.Goetz@gov.bc.ca>

 Sent:
 January 4, 2022 2:33:13 PM PST

 Attachments:
 Resized\_20220102\_094021.jpeg

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Page 7 of 36 MOE-2023-30964

# **Untitled.msg**

From: Goetz, Brian P ENV:EX <Brian.Goetz@gov.bc.ca>
To: Goetz, Brian P ENV:EX <Brian.Goetz@gov.bc.ca>

 Sent:
 January 4, 2022 2:33:39 PM PST

 Attachments:
 Resized\_20220102\_093902.jpeg

Get Outlook for iOS



Page 9 of 36 MOE-2023-30964

# Untitled (2).msg

From: Goetz, Brian P ENV:EX <Brian.Goetz@gov.bc.ca>
To: Goetz, Brian P ENV:EX <Brian.Goetz@gov.bc.ca>

 Sent:
 January 4, 2022 2:34:28 PM PST

 Attachments:
 Resized\_20220102\_093354.jpeg

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Page 11 of 36 MOE-2023-30964

## Email from North Cowichan re DGIR 214026 Fire at OK Tire in North Cowichan

From: Goetz, Brian P ENV:EX <Brian.Goetz@gov.bc.ca>
To: Pridham, Dave ENV:EX <Dave.Pridham@gov.bc.ca>

Sent: January 5, 2022 10:03:36 AM PST I'll leave it with you. RP indicated very little if any tires burned.

RP indicated Environment Canada took samples and followed up with RP but this is not confirmed.

From: Dave Preikshot <dave.preikshot@northcowichan.ca>

Sent: January 5, 2022 9:31 AM

**To:** Goetz, Brian P ENV:EX <Brian.Goetz@gov.bc.ca> **Cc:** David Conway <david.conway@northcowichan.ca>

Subject: Fire at OK Tire in North Cowichan

[EXTERNAL] This email came from an external source. Only open attachments or links that you are expecting from a known sender.

Hi Brian,

Martin Drakely, North Cowichan's Fire Chief indicated that you had been contacted about the Fire at OK Tire on the Trans Canada Highway. I am the Environmental Specialist at North Cowichan and will be visiting the site to see where contaminated runoff may have reached. I can see from our mapping that the North Cowichan storm system carries runoff from the OK Tire site across the highway to the BC Forest Discovery Center, then across their property in a ditch/swale to some wetlands, see map. I have been contacted by a resident with photos taken soon after the event that show the residue in ditches and the stormwater system leading to some wetlands that surround Somenos Lake, see this link: <a href="https://ldrv.ms/u/s!AiYJ3OiK5nEbgZ5d9bBXAQFyOYlecQ?">https://ldrv.ms/u/s!AiYJ3OiK5nEbgZ5d9bBXAQFyOYlecQ?</a> e=NNoClz. Have any of your staff visited the site yet? I would be happy to meet/talk with anyone on your staff that may be doing a site investigation. Please let me know If you are the appropriate person to stay in touch with on this file. Thanks,

#### Dave

Dave Preikshot, PhD, RPBio (he/him) Senior Environmental Specialist Engineering Department

Municipality of North Cowichan 7030 Trans-Canada Highway Duncan, BC Canada V9L-3X4

dave.preikshot@northcowichan.ca

T 250.746.3270 C 250.510.8529 F 250.746.3154

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## RE: Fire at OK Tire in North Cowichan

From: Vinden, Alice ENV:EX <Alice.Vinden@gov.bc.ca>
To: Dave Preikshot <dave.preikshot@northcowichan.ca>

Sent: January 5, 2022 10:05:28 AM PST

Good morning Dave.

Response Officer Dave Pridham from Nanaimo will be following up with you. I forwarded your email to him.

From: Dave Preikshot <dave.preikshot@northcowichan.ca>

Sent: January 5, 2022 9:31 AM

**To:** Goetz, Brian P ENV:EX <Brian.Goetz@gov.bc.ca> **Cc:** David Conway <david.conway@northcowichan.ca>

Subject: Fire at OK Tire in North Cowichan

[EXTERNAL] This email came from an external source. Only open attachments or links that you are expecting from a known sender.

Hi Brian,

Martin Drakely, North Cowichan's Fire Chief indicated that you had been contacted about the Fire at OK Tire on the Trans Canada Highway. I am the Environmental Specialist at North Cowichan and will be visiting the site to see where contaminated runoff may have reached. I can see from our mapping that the North Cowichan storm system carries runoff from the OK Tire site across the highway to the BC Forest Discovery Center, then across their property in a ditch/swale to some wetlands, see map. I have been contacted by a resident with photos taken soon after the event that show the residue in ditches and the stormwater system leading to some wetlands that surround Somenos Lake, see this link: <a href="https://ldrv.ms/u/s!AiYJ3OiK5nEbgZ5d9bBXAQFyOYlecQ?">https://ldrv.ms/u/s!AiYJ3OiK5nEbgZ5d9bBXAQFyOYlecQ?</a> e=NNoClz. Have any of your staff visited the site yet? I would be happy to meet/talk with anyone on your staff that may be doing a site investigation. Please let me know If you are the appropriate person to stay in touch with on this file. Thanks,

#### Dave

Dave Preikshot, PhD, RPBio (he/him) Senior Environmental Specialist Engineering Department

Municipality of North Cowichan 7030 Trans-Canada Highway Duncan, BC Canada V9L-3X4

dave.preikshot@northcowichan.ca

T 250.746.3270 C 250.510.8529 F 250.746.3154

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Mailing

PO Box 58 Cowichan Bay, BC V0R 1N0 Regional

4176 Departure Bay Road Nanaimo, BC V9T 4B7



CONFIDENTIAL

January 12, 2022

Attn: Robert Nikirk, OK Tire

Re: SURFACE WATER INSPECTION LETTER - 6482 Norcross Road, Duncan, BC

TerraWest Environmental Inc. (TerraWest) was retained by Robert Nikirk (the 'Client') to complete an assessment of downgradient impacts to aquatic receiving bodies following a fire at the OK Tire located at 6482 Norcross Road, Duncan, BC, herein referred to as the 'Subject Property' and/or the 'Site'.

Terrawest was contacted by the Client at approximately 8:30AM on January 2, 2022 and was informed a fire had occurred on the Subject Property that morning. A large volume of water was reported to be leaving site from firefighting efforts and entering a series of storm water catch basins: two located at the site entrance along Norcross Road and one located approximately 50 metres south along the Island Highway.

It is understood these catch basins eventually run under the intersection of Drinkwater Road and the Island Highway before discharging into an open ditch along the west side of the Forest Discovery Centre. From there, surface water enters the Forest Discovery Centre's greater drainage system with eventual discharge to the tributaries that feed Somenos Marsh, herein referred to as the 'Aquatic Receiving Bodies', as shown in the enclosed figure.

It is understood that following the event of the fire, the Client received a visit from Mr. Brian Getz of Environment Canada in response to a public complaint of potentially harmful firefighting discharge waters entering sensitive aquatic habitats. Mr. Getz advised



it was the Client's responsibility to ensure potentially contaminated waters did not impact downgradient Aquatic Receiving Bodies.

The following was completed by the Client prior to a visit by TerraWest:

- The Municipality of North Cowichan was contacted and municipality staff installed erosion and sediment control measures. Hay bales were placed in key downgradient locations including all previously described catch basins and the ditch adjacent to the Forest Discovery Centre. Poly plastic sheeting was placed at feasible locations to block drainage from entering the catch basins.
- The Municipality of North Cowichan also provided a street sweeper to Site to clean the roadways of tire residue, silt, gravel, and other debris from firefighting activities.
- Save on Septic was retained to pump out waste and water from the three catch basins described previously.

#### FIELD ACTIVITIES

TerraWest personnel attended the Site at approximately 11:00AM on January 2, 2022 to view the scene and determine the occurrence of any downgradient impacts to the Aquatic Receiving Bodies.

A visual foot search was completed following the flow of water to the catch basins and eventually to the Forest Discovery Centre. It was observed that at the time of the search, run off from heavy rains and significant snow melt had mixed with firefighting waters leaving the Site. Limited tire residue was observed in the ditch bordering the Forest Discovery Centre and no tire residue or evidence of contaminated water was observed in downgradient aquatic receiving bodies (i.e. the pond at the Forest Discovery Centre or its surrounding drainage systems).

A surface water sample was collected south of the Forest Discovery Centre where the bordering ditch enters an underground culvert conveying water to the pond and surrounding drainage systems. This was the last known observable location of firefighting waters. The sample was collected for analysis of petroleum hydrocarbons and routine water parameters. The sample was couriered to Element Laboratories in Richmond, BC, and results were received late on January 7, 2022. Tabulated results are enclosed.

#### CONCLUSIONS AND RECOMMENDATIONS

From TerraWest's visual inspection, no downstream detrimental impacts were noted to the drainage systems or Aquatic Receiving Bodies. However, laboratory results of the collected surface water sample indicate that select petroleum hydrocarbons exceed the applicable aquatic criteria (i.e. toluene and benzo(a)pyrene).



Considering the excessive volume of rain, snow melt water, firefighting water, highway drainage, and residual sediments in the drainage system, the surface water results are considered inconclusive and may not be attributed directly to the fire at this time.

TerraWest recommends the following:

- Complete a follow up visit to visually inspect the drainage systems following the snow melt when all drainage is accessible;
- Collect a second confirmation sample at the culvert south of the Forest Discovery Center. Based on water quality results from analysis of the collected sample, additional recommendations may be warranted.

We trust this meets your requirements, and if there are any questions regarding the above please do not hesitate to contact the undersigned below.

Kind regards,

Adam Mabbott, P.Chem, AScT, EP Vice President - Operations 250-616-7781

230-010-7701

amabbott@terrawest.ca

A. Mett

**Enclosures** 

Site Plan

Table 1. Summary of Results



**Table 1. Summary of Surface Water Analytical Results** 

Sample ID		Surface Water	
Matrix		Surface Water	CSR Schedule 3.2 <sup>2</sup>
Sample Date		2-Jan-22	
Comments		Culvert south of Info Center	Freshwater Aquatic Life
PARAMETERS	Units	Analytical Results <sup>1</sup>	
Mono-Aromatic Hydrocarbons			
Benzene	ug/L	5.9	400
Ethylbenzene	ug/L	2.3	2,000
Methyl t-Butyl Ether	ug/L	<0.5	34,000
Styrene	ug/L	4.5	720
Toluene	ug/L	<u>8.5</u>	5
Total Xylenes (m,p,o)	ug/L	9.8	300
Volatile Petroleum Hydrocarbons			
VPHw(VHw <sub>6-10 minus BTEX</sub> )	ug/L	<50	1,500
VHw6-10	ug/L	<50	15,000
Extractable Hydrocarbons			
EPH <sub>w10-19</sub>	ug/L	<200	5,000
LEPHw	ug/L	<200	500
EPH <sub>w19-32</sub>	ug/L	<200	n.s.
HEPHW	ug/L	<200	n.s.
Polycyclic Aromatic Hydrocarbons			
Acenaphthene	ug/L	0.4	60
Acenaphthylene	ug/L	3.7	n.s.
Acridine	ug/L	0.15	0.5
Anthracene	ug/L	0.4	1
Benzo(a)anthracene	ug/L	0.19	1
Benzo(a)pyrene	ug/L	0.17	0.1
Benzo(b+j)fluoranthenes	ug/L	0.17	n.s.
Benzo(g,h,i)perylene	ug/L	0.1	n.s.
Benzo(k)fluoranthene	ug/L	0.07	n.s.
Chrysene	ug/L	0.2	1
Dibenz(a,h)anthracene	ug/L	0.02	n.s.
Fluoranthene	ug/L	0.6	2
Fluorene	ug/L	0.9	120
Indeno(1,2,3-c,d)pyrene	ug/L	0.1	n.s.
1-Methylnaphthalene	ug/L	2.1	n.s.
2-Methylnaphthalene	ug/L	2.3	n.s.
Naphthalene	ug/L	9.9	10
Phenanthrene	ug/L	1.9	3
Pyrene	ug/L	0.62	0.2
Quinoline	ug/L	0.70	34
Notes:			

#### Notes:

- 1 Data excerpted from Element Materials Technology Canada Inc. analytical report(s); units as indicated
- 2 BC Contaminated Sites Regulation (CSR) Schedule 3.2 Generic Numerical Water Standards, site-specific pathways as noted above n.s. = No applicable standard
- < = Less than the laboratory method detection limit

Bold, underlined, and shaded grey indicates concentration exceeds lowest of the applicable standards



Sample ID  Matrix		Surface Water	CSR Schedule 3.2 <sup>2</sup>	
		Surface Water		
Sample Date		2-Jan-22	Freshwater Aquatic Life	
Comments		Culvert south of Info Center		
PARAMETERS	Units	Analytical Results <sup>1</sup>		
Routine Parameters				
рН	no units	7.21	n.s.	
Electrical Conductivil	uS/cm @ 25C	1,536	n.s.	
Calcium	mg/L	36	n.s.	
Iron	mg/L	0.037	n.s.	
Magnesium	mg/L	4.3	n.s.	
Manganese	mg/L	0.084	n.s.	
Potassium	mg/L	3.6	n.s.	
Sodium	mg/L	260	n.s.	
Bicarbonate	mg/L	38	n.s.	
Carbonate	mg/L	<6	n.s.	
Hydroxide	mg/L	<5	n.s.	
Total Alkalinity as Ca(	mg/L	31	n.s.	
Chloride	mg/L	449	1,500	
Nitrate as N	mg/L	0.6	400	
Nitrate and Nitrite as	mg/L	0.6	400	
Nitrite as N	mg/L	<0.1	200 to 2,000 <sup>Cl</sup>	
Sulfate	mg/L	25	1,280 to 4,290 <sup>H</sup>	
Hardness as CaCO <sub>3</sub>	mg/L	108	n.s.	
Total Dissolved Solids	mg/L	800	n.s.	
Ionic Balance	%	95	n.s.	

#### Notes

CI = Standard is chloride dependant and is specific to each sample with the range noted above

H = Standard is hardness dependant and is specific to each sample with the range noted above

## Re: OK Tire Fire Duncan - Environmental Response

From: Adam Mabbott <amabbott@terrawest.ca>

To: Cary, Kristina ENV:EX <Kristina.Cary@gov.bc.ca>
Cc: melinda jordan <jordanmelinda@hotmail.com>

Sent: January 25, 2022 2:02:23 PM PST

Attachments: image002.jpg, image003.jpg, Outlook-2wxi4lbe.jpg, image001.jpg

[EXTERNAL] This email came from an external source. Only open attachments or links that you are expecting from a known sender.

Hi Kristina - brief update on this file.

I visited the site for the follow up inspection yesterday in good weather conditions. All drainage was observable. Here's the short notes:

- all site drainage is captured and no deleterious substance is being introduced to the catchment system at this time
- Rob has the site under security and is working through the insurance process for debris clean up and eventual rebuilding. This will take time.
- Viewing the catch basins and overland drainage south along the Island Hwy., I did observe a small lens of charcoal and fire debris at the "high water mark" along the highway drainage. No material was observed within the catchbasins. Water was flowing nicely.
- This same lens of charcoal was seen in the downgradient ditch next to the Forest Discovery Center and related culvert system. Mostly caught up in the tall grasses and reeds that make up the drainage ditches. Reminder that this is engineered drainage and not aquatic or terrestrial habitat. I've got a few photos that I will include in the summary letter for reference.
- No fire debris or evidence of burned material was observed in the "pond" of the Discovery Center (this is where all the greater area drainage eventually makes it way and then final stream discharge into Somenos Marsh area, including all upland drainage)
- I collected a surface water sample from the same final culvert at the Discovery Center. Water looked clear and great.
- Gut check says everything is OK. The lab received the sample today. Meanwhile we will prepare a short summary and issue once the data is back from the lab.

Please let me know if there are any questions in the interim. Thanks and chat soon,

Adam Mabbott, P.Chem., AScT, EP VP - Operations C: (250) 616-7781 amabbott@terrawest.ca



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From: Cary, Kristina ENV:EX <Kristina.Cary@gov.bc.ca>

Sent: Thursday, January 20, 2022 3:43 PM
To: Adam Mabbott <amabbott@terrawest.ca>
Cc: melinda jordan <jordanmelinda@hotmail.com>

**Subject:** RE: OK Tire Fire Duncan - Environmental Response

Hi Adam,

Thank you for sending this. I agree with your assessment that there is a high potential for contamination from the roadway that could impact the results, and support your recommendation for further follow-up sampling at the culvert at a later date. I would also recommend that during this next visit remaining debris from this incident, if any, is recorded. Can you please keep me in the loop when this work is completed and send results to our spill recovery email <a href="mailto:spillrecovery@gov.bc.ca">spillrecovery@gov.bc.ca</a>. That will send the results out to our team in case I am away.

#### Thanks,



Kristina Cary, RPBio

Environmental Recovery Biologist

Environmental Emergency Program Ministry of Environment and Climate Change Strategy Victoria, BC Cell: (250) 893-8483

Cell: (250) 893-8483 Office: (236) 478-1502 kristina.cary@gov.bc.ca

www.gov.bc.ca/environmental-spill-response

@SpillsInfoBC

Report a spill: 1-800-663-3456

From: Adam Mabbott <amabbott@terrawest.ca>

Sent: January 12, 2022 9:11 AM

To: Cary, Kristina ENV:EX <Kristina.Cary@gov.bc.ca>
Cc: melinda jordan <jordanmelinda@hotmail.com>
Subject: OK Tire Fire Duncan - Environmental Response

[EXTERNAL] This email came from an external source. Only open attachments or links that you are expecting from a known sender.

Hi Kristina,

Further to our phone call last week, on behalf of Mr. Robert Nikirk, owner of the Duncan OK Tire, please find attached a brief summary of our environmental inspection and water sampling results post-fire.

From our perspective here at TerraWest, Robert and the Municipality of North Cowichan did a great job with respect to minimizing the introduction of deleterious substance into the drainage system. The crews worked in an emergency situation and under extreme weather conditions in the dark. However, it is noted that fire-fighting water did make it's way south downgradient to the Forest Discovery Center and into drainage that eventually feeds the Somenos Marsh. For example, I observed a small amount of burnt tire residue that collected on the edge of the drainage ditch, much like you would see a ring of dirt on the bathtub when the water is drained. I did not observe the same in further downgradient ponds or drainage.

A surface water sample was collected at the furthest downgradient location that any fire-fighting water was observed (i.e. a culvert in west ditch of Forest Discovery Center). The sample results indicate nominal toluene and benzo(a) that slightly exceed the aquatic criteria of the CSR. I am suggesting that the results are inconclusive, considering the tremendous amount of snow melt, rain, highway drainage, and outside sources included with the fire fighting water. The results do not indicate any immediate impacts to human health or the environment.

We have included some recommendations for follow up.

Please let me know if you require any further information. Thanks and chat soon.

Adam Mabbott, P.Chem., AScT, EP VP - Operations C: (250) 616-7781 amabbott@terrawest.ca



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Mailing

PO Box 58 Cowichan Bay, BC V0R 1N0 Regional

4176 Departure Bay Road Nanaimo, BC V9T 4B7



CONFIDENTIAL

January 31, 2022

Attn: Robert Nikirk, OK Tire

Re: FOLLOW UP - SURFACE WATER INSPECTION LETTER - 6482 Norcross Road, Duncan, BC

TerraWest Environmental Inc. (TerraWest) was retained by Robert Nikirk (the 'Client') to complete an assessment of downgradient impacts to aquatic receiving bodies following a fire at the OK Tire located at 6482 Norcross Road, Duncan, BC, herein referred to as the 'Subject Property' and/or the 'Site'.

This enclosed letter is a follow up from the first inspection letter dated January 12, 2022, and closes the environmental works completed at the Site.

#### FIELD ACTIVITIES

TerraWest personnel attended the Site for a second time on January 24, 2022 to review the drainage and confirm if any downgradient impacts to the Aquatic Receiving Bodies had occurred.

A visual foot search was completed following the flow of water to the catch basins and eventually to the Forest Discovery Centre. Since the time of the first visit all the roadside snow had melted and no limitations were noted in the inspection. Charcoal and granular fire debris was observed along the edge of the highway and along the first "upper" portion of the ditch drainage immediately south of the Subject Property. This drainage enters an underground culvert system that daylights in the northwest corner or the Forest Discovery Center, runs south along the west boundary of the Discovery Center, and then enters the greater drainage system of the Discovery Center.

Environmental Management and Consulting



A foot search of the entire length of drainage was completed. Limited amounts of charcoal and evidence of fire debris was noted in the high-water mark within the tall reeds and grasses that line the drainage ditch system. No fire debris was observed in further downgradient water, including the "pond" at the Discovery Center, which could be considered the first aquatic receiving habitat because of its direct connectivity with the Somenos marsh.

A follow up surface water sample was collected from the Forest Discovery Centre where the ditch enters an underground culvert conveying water to the pond and surrounding drainage systems. This was the last known observable location of firefighting waters and the same location as the sample collected on January 2, 2022. The sample was collected for analysis of petroleum hydrocarbons and routine water parameters. The sample was couriered to Element Laboratories in Richmond, BC. Tabulated results are enclosed.

#### **CONCLUSIONS**

From TerraWest's second visual inspection, no downstream detrimental impacts were noted to the drainage systems or Aquatic Receiving Bodies. Further to this, laboratory results of the collected surface water sample indicate that no contaminants were present. The recommendations from the initial inspection and summary letter have been completed, and no further environmental works are recommended at this time.

We trust this meets your requirements, and if there are any questions regarding the above please do not hesitate to contact the undersigned below.

Kind regards,

Adam Mabbott, P.Chem, AScT, EP Vice President - Operations 250-616-7781 amabbott@terrawest.ca

A. Mett

**Enclosures** 

Table 1. Summary of Results Site Inspection Photographs



Site Photographs - January 24, 2022





Photo 1 (left): View looking north, standing on west side of Highway, OK Tire in far background. Observable charcoal and fire debris along edge of asphalt.

Photo 2 (right): View looking south standing on west side of Highway, OK Tire to

Photo 2 (right): View looking south, standing on west side of Highway, OK Tire to photographers back. Hay bales placed by North Cowichan staff, drainage water enters underground culvert system.





Photo 3 (left): View looking north, standing at Forest Discovery Center on east side of highway. Observable charcoal and fire debris at high water mark in drainage ditch. Photo 4 (right): View looking south of ditch drainage. Note tall grass and reeds.





Photo 5 (above): View looking north of entire drainage ditch next to Forest Discovery Center, and where water enters the greater drainage system via underground culvert. Sample location at the culvert, annotated in photo.

Sample ID	Surface Water	Surface Water		
Matrix	Surface Water	Surface Water	CSR Schedule 3.2 <sup>2</sup>	
Sample Date	2-Jan-22	24-Jan-22		
Comments	Culvert south of Info Center	Follow Up Sample	Freshwater Aquatic Life	
PARAMETERS Un	ts Analytica	al Results <sup>1</sup>		
Mono-Aromatic Hydrocarbons				
Benzene ug	1. 5.9	<0.5	400	
Ethylbenzene ug	rL 2.3	<0.5	2,000	
Methyl t-Butyl Ether ug	√L <0.5	<0.5	34,000	
Styrene ug	/L 4.5	<0.5	720	
Toluene ug	۸. <u>8.5</u>	<0.5	5	
Total Xylenes (m.p.o) ug	rL 9.8	0.5	300	
Volatile Petroleum Hydrocarbons				
VPHw(VHw <sub>E-10 minus BREX</sub> ) ug	/L <50	<50	1,500	
VHw6-10 ug	/L <50	<50	15,000	
Extractable Hydrocarbons				
EPH <sub>w10-59</sub> ug	/L <200	<200	5,000	
LEPHw ug		<200	500	
EPH <sub>w19-32</sub> ug		<200	n.s.	
HEPHw ug	/L <200	<200	n.s.	
Polycyclic Aromatic Hydrocarbons				
Acenaphthene ug	0.4	<0.1	60	
Acenaphthylene ug	/L 3.7	<0.1	n.s.	
Acridine ug		<0.05	0.5	
Anthracene ug		<0.1	1	
Benzo(a)anthracene ug	/L 0.19	<0.01	1	
Benzo(a)pyrene ug	0.17	<0.01	0.1	
Benzo(b+j)fluoranthenes ug		<0.04	n.s.	
Benzo(g,h,i)perylene ug	/L 0.1	<0.1	n.s.	
Benzo(k)fluoranthene ug		<0.02	n.s.	
Chrysene ug	rL 0.2	<0.1	1	
Dibenz(a,h)anthracene ug		<0.01	n.s.	
Fluoranthene ug		<0.1	2	
Fluorene ug		<0.1	120	
Indeno(1,2,3-c,d)pyrene ug		<0.1	n.s.	
1-Methylnaphthalene ug		<0.1	n.s.	
2-Methylnaphthalene ug		<0.1	n.s.	
Naphthalene ug		<0.1	10	
Phenanthrene ug		<0.1	3	
Pyrene ug		<0.02	0.2	
Quinoline ug		0.01	34	
Notes:				

Bold, underlined, and shaded grey indicates concentration exceeds lowest of the applicable standards

Sample ID Matrix		Surface Water	Surface Water	CSR Schedule 3.2 <sup>2</sup>	
		Surface Water	Surface Water		
Sample Date		2-Jan-22 2-Jan-22			
Comments		Culvert south of Info Center	Follow Up Sample	Freshwater Aquatic Life	
PARAMETERS	Units	Analytica			
Routine Parameters					
pН	no units	7.21	7.19	n.s.	
Electrical Conductivil	uS/cm @ 25C	1,536	574	n.s.	
Calcium	mg/L	36	39.0	n.s.	
Iron	mg/L	0.037	0.05	n.s.	
Magnesium	mg/L	4.3	11.4	n.s.	
Manganese	mg/L	0.084	0.058	n.s.	
Potassium	mg/L	3.6	1.4	n.s.	
Sodium	mg/L	260	53.7	n.s.	
Bicarbonate	mg/L	38	84	n.s.	
Carbonate	mg/L	<6	<6	n.s.	
Hydroxide	mg/L	<5	<5	n.s.	
Total Alkalinity as Ca(	mg/L	31	69	n.s.	
Chloride	mg/L	449	116	1,500	
Nitrate as N	mg/L	0.6	0.65	400	
Nitrate and Nitrite as	mg/L	0.6	0.65	400	
Nitrite as N	mg/L	<0.1	< 0.005	200 to 2,000 <sup>Cl</sup>	
Sulfate	mg/L	25	22	1,280 to 4,290 <sup>H</sup>	
Hardness as CaCO <sub>3</sub>	mg/L	108	144.0	n.s.	
Total Dissolved Solids	mg/L	800	284	n.s.	
Ionic Balance	%	95	102	n.s.	



<sup>1 -</sup> Data excerpted from Element Materials Technology Canada Inc. analytical report(s); units as indicated

<sup>2 -</sup> BC Contaminated Sites Regulation (CSR) Schedule 3.2 Generic Numerical Water Standards, site-specific pathways as noted above

n.s. = No applicable standard

<sup>&</sup>lt; = Less than the laboratory method detection limit

CI = Standard is chloride dependant and is specific to each sample with the range noted above

H = Standard is hardness dependant and is specific to each sample with the range noted above

DGIR 214026 - Inland

**Emergency Coordination Center** 

Phone 1-800-663-3456

Fax (250) 952-4872

Number

214026

ROC#

**Date/Time Logged** 

**Incident Date/Time** 

**Notification Code** 

Jurisdiction

Total Allocated (\$)

Code 1

Federal | Provincial

\$800.00

**INITIAL DETAILS** 

**Updates** Type 4 **DGIR** 

Subject ISC

Inland

**Report Compiled By Position** 

Ciara - Ops 1 **ECC Operations Officer** 01/02/2022 05:51:48

Responsible Person - As Reported

01/02/2022 03:46:00 **OK Tire** 

**DGIR Location Address** 

6482 Norcross Rd, Duncan, BC

**DGIR Location Description** 

Area **EMCR Region MOE Region** 

**DUNCAN** Vancouver Island Coastal Vancouver Island

CALLER DETAILS

Caller A Name **Caller A Agency** 

Jason Dejonge Assistant Fire Chief

Caller A Contact # Caller A Alt Contact #

Business - 250-714-9449

Caller A Date/Time **Caller A Present Location** 

**Caller B Name Caller B Agency** 

Caller B Contact # Caller B Alt Contact #

Caller B Date/Time **Caller B Present Location** 

Material	Quantity
fire water	6000L per minute for multiple hours L

## ADDITIONAL DETAILS

## Description of spill site and surrounding area

## Description of spill source, circumstances, cause and adverse effects of the spill

Advises that the Fire Department responded to a fire at OK Tire, they are an 11 bay tire shop. The caller is worried about the run off and the many hazardous chemicals inside the building. The run off is heading towards Somenos marsh.

## Details of action taken or proposed

Names of agencies on scene, names of agencies advised

#### **Motor Vehicle**

Notification Details					
Date/Time	Туре	Stakeholder(s)	Details	Notified By	
01/02/2022 06:02:41	Email	ENV Canada	Notification sent.	Ciara - Ops 1	
01/02/2022 06:02:35	Email	CCG-ROC		Ciara - Ops 1	
01/02/2022 05:58:49	Verbal Briefing	Paul Brandson PDM		Ciara - Ops 1	
01/02/2022 05:58:42	Verbal Briefing	NEEC		Ciara - Ops 1	
01/02/2022 05:57:59	Verbal Briefing	Brian Goetz MOE RO	Code 1/Fed/Prov	Ciara - Ops 1	

## Activity Log - DGIR #214026

**Total Duration** 

9.00

#### Log Details

NamePositionDate/TimeDurationDave PridhamResponse Officer03/28/2023 09:57:070.00

Description

March 28th, 2023

RO spoke with Roshelle Williams regarding the need for a after action spill report. Volumes adjusted to reflect fire water application as per RO Goetz activity log.

## Log Details

NamePositionDate/TimeDurationKristina CaryRecovery02/14/2022 12:03:001.00

Description

Reviewed final report from Adam with TerraWest. Sampling results were under CSR guidelines. No further actions are recommended from the QP. Some debris remains on the side of the road in the ditch but from photos looks to be pretty limited, and no debris has moved out of the ditch into the marsh. No further actions anticipated

#### Log Details

NamePositionDate/TimeDurationKristina CaryRecovery01/27/2022 16:26:500.00

Description

Added some emails from Adam Mabbott/correspondence in the attachments. Another round of sampling is awaiting results.

#### **Log Details**

NamePositionDate/TimeDurationKristina CaryRecovery01/06/2022 15:04:570.50

Description

15:00 - email to Dave Preikshot Municipality of north cowichan about TerraWest sampling plan

#### Log Details

NamePositionDate/TimeDurationKristina CaryRecovery01/05/2022 13:33:270.00

Description

12:30 - File referred to recovery from Dave Pridham. Reviewed details

13:00 - spoke to RP. Contact is Adam with TerraWest 250-616-7781

13:30 - Spoke with Adam from TerraWest, is being retained by the RP. He walked drainage, they put hay bales to catch sediment and block everything. The only evidence of the fire is from the roadside drainage ditch had some residual tire fibers, no debris after the water drains into the larger system. At the point where water enters the culvert before it reaches the forest centre, they took a sample. Next couple days sampling should come back and he'll send me the results. Will follow up on future sampling after results come back Page 29 of 36 MOE-2023-30964

## **Log Details**

NamePositionDate/TimeDurationDave PridhamResponse Officer01/05/2022 11:13:110.00

Description

Email received from Brian Goetz regarding potential runoff concerns. DGIR flagged for Recovery review and email forwarded to Recovery.

#### Log Details

NamePositionDate/TimeDurationBrian GoetzResponse Officer01/02/2022 11:23:347.50

Description

0556 hrs. Recieved call of fire and coded it

0600-0630 hrs. Review of file, locations and VIR contacts

0630 hrs. Call to asst fire chief no answer

0639 hrs.

0640 hrs. Call from ECC fire contact new 250 252-3421

0642 hrs. Call from ECC CVRD Rob Shouder 250 715-5700 evacuations planned

0643 - 0646 hrs. Call to asst fire chief

0647 hrs. Missed call from fire

0649 hrs. Call from Asst fire chief Jason Dejonce 250-252-3421 update- tire complex ,runoff into public works system, concern about toxic runoff to Somenos marsh

0657 hrs. Call to HEMBC

0659 hrs. Call to fnha

0713 hrs. Emailed details to HEMBC

0713 hrs. Call to Robert Nikirk OK Tire Rep 250-709-5560

0725 hrs. Text ER contacts to Robert

0726 hrs. Confirmed that Robert recieved texted ER contacts

0746 hrs. Call to hembc

0752-0756 hrs. Call to DM Darcy Sego

0802 hrs. Call to dispatch for Duncan PW after hours no contact as could not confirm municipality

0805 hrs.message to fire

0811 hrs. Call from hembc Miles Steyn off call as fire calling

0811 hrs. Highway closures and detours described (fire), mutual aid from other departments, water in ditches, bldg has collapsed, fire will be on scene for a while longer

0819 hrs. Called Miles hembc back with road closure details

0830-0835 hrs call from Emcon Dillon Thornton 250-896-3141, okay to divert water? We discussed, RP installing hay bales, fire suppression since 0400 hrs. Estimated current volume 6000 l per minute

0905 hrs. Call to Robert Nikirk, did he speak with public works director as fire said he was on the way. He will call back.

1011 hrs. Call to Robert response companies contacted and staff are trying to mobilize staff one vac truck is on the way- save on septic, fire is at momup stage, spoke to env canada Adam as he is stopping by to pick up samples, fire/ police have asked him to step off the property, hay bales and poly have been layer down, Brian from CN public works has been around, I recommended that OK tire have someone assess the spill downstream towards the marsh area. He said it is raining heavily now and he will be returning to the site.

1029 hrs. Email update from HEMBC

1034-1043 hrs. Update to DM Darcy Sego

1039 hrs. Email from HEMBC to staff

1102 hrs recieved email from Miles S HEMBC

1105 hrs. Emailed update 3 to HEMBC

1116 hrs. Call from ECC PDM wants to know I'f any evacuations happened

1118 hrs. Call to Cowichan Valley RD and spoke to Rob Shouldar no callback from fire chief re evacuations

1120 hrs. Call to Jason Dejonce regarding evacuations

1134 hrs. Call from EMBC PDM I am waiting for an update from NC fire if evacuations are still required, RD not informed and fire is knocked down. Waiting for call back from FD. Will call ECC with update

1134-1234 hrs. Logging in activities.

1259 hrs. Texted Emcon Dillon Thornton RP Robert Nikirk cell number.

1314-1344 hrs. Logging in notes

Page 30 of 36 MOE-2023-30964

the fire affected water and told Robert that he is satisfied with the containment measures that he has taken to contain particulate from fire suppression water. Two vac trucks pumped out water from water system. He has not heard back from any of the Environmental Consultants that he contacted. Approximately 25% of the facility was affected by the fire.  1451-1455 hrs. I called Darcy and briefed him about the response.

**Emergency Coordination Center** 

Phone 1-800-663-3456

Fax (250) 952-4872

UPDATE DETAILS

 Update #
 Type
 Number

 1
 DGIR
 214026

Subject ROC# Originally Logged

Inland Update 01/02/2022 05:51:48

Report Compiled ByPositionUpdate Date/TimeTieg - OPS 4ECC Operations Officer01/02/2022 06:34:22

Caller Name Caller Agency

Rob Shoular Cowichan Valley Regional District

Contact # Alt Contact #1 Alt Contact #2

250-715-5700

**Incident Location** 

6482 Norcross Rd, Duncan, BC

Area EMCR Region MOE Region MOE Sub Region

DUNCAN Vancouver Island Coastal Vancouver Island

**Details** 

Caller advising of a potential evacuation due to a commercial structure fire at the above noted location. The evacuation could effect 100-200 residents in a neighboring apartment building as well as an adjacent hotel due to air quality and shifting winds. ECC Logging - OTHER 211023 XREF

Updated contact info for Assistant Fire Chief 250-252-3421

#### **Update Notification Details** Date/Time **Details** Type Stakeholder(s) **Notified By** 01/02/2022 06:50:15 **ENV Canada** Notification sent. Email Tieg - OPS 4 01/02/2022 06:49:59 Verbal Briefing **RDM David Schadt** Tieg - OPS 4 01/02/2022 06:49:51 **Email** CCG-ROC Tieg - OPS 4 01/02/2022 06:49:26 Email OFC Distribution Tieg - OPS 4 01/02/2022 06:48:43 Verbal Briefing **OFC Steve Wright** Provided A/C DeJong contact info Tieg - OPS 4 01/02/2022 06:43:29 Verbal Briefing PDM Janet Adams Tieg - OPS 4 01/02/2022 06:39:22 Verbal Briefing Brian Goetz MOE RO Provided updated contact info for A/C DeJong Tieg - OPS 4

**Emergency Coordination Center** 

Phone 1-800-663-3456

Fax (250) 952-4872

**UPDATE DETAILS** 

 Update #
 Type
 Number

 2
 DGIR
 214026

Subject ROC# Originally Logged

Inland Update 01/02/2022 05:51:48

Report Compiled ByPositionUpdate Date/TimeLaura - Ops 7ECC Operations Officer01/02/2022 08:50:56

Caller Name Caller Agency

Dylan (Road Supervisor) EMCON

Contact # Alt Contact #1 Alt Contact #2

250-896-3141

**Incident Location** 

6482 Norcross Rd, Duncan, BC

Area EMCR Region MOE Region MOE Sub Region

DUNCAN Vancouver Island Coastal Vancouver Island

**Details** 

Caller advising that someone instructed him to divert water into highway ditches and is looking to confirm these directions as it close to the Someons Marsh. Caller stated that he believes someone with the surname 'Goetz' gave that direction to Fire.

X - Ref OTHER 211023 Update 1

Update Notification Details						
Date/Time	Туре	Stakeholder(s)	Details	Notified By		
01/02/2022 08:56:45	Email	CCG-ROC		Laura - Ops 7		
01/02/2022 08:56:11	Email	ENV Canada	Notification sent.	Laura - Ops 7		
01/02/2022 08:55:35	Email	PDM Janet Adams		Laura - Ops 7		
01/02/2022 08:52:36	Verbal Briefing	MOE RO Brian Goetz	Stated he would call Dylan back directly to confirm that this is the current plan.	Laura - Ops 7		

# DGIR 214026 - Inland Update

**Emergency Coordination Center** 

Phone 1-800-663-3456

Fax (250) 952-4872

UPDATE DETAILS

 Update #
 Type
 Number

 3
 DGIR
 214026

Subject ROC# Originally Logged

Inland Update 01/02/2022 05:51:48

Report Compiled ByPositionUpdate Date/TimeLaura - Ops 7ECC Operations Officer01/02/2022 11:06:44

Caller Name Caller Agency

Brian Goetz MOE

Contact # Alt Contact #1 Alt Contact #2

250-612-1561

**Incident Location** 

6482 Norcross Rd, Duncan, BC

Area EMCR Region MOE Region MOE Sub Region

DUNCAN Vancouver Island Coastal Vancouver Island

#### **Details**

Fire was at an 11 bay OK tire facility. North Cowichan Fire Department responded. Plans to evacuate residents from a nearby apartment building and a hotel were put into place. HEMBC and First Nations Health Authorities were informed. Highway 1 was closed with detours set up. Ok tire facility representative has been working with North Cowichan Public Works staff to evaluate the spill and to engage an Environmental Contractor and vacuum trucks.

Spilled material is expected to enter Somenos Marsh/Lake to the southeast of the fire area. Material from runoff is expected to be soot from the facility and roof fire with possibly some outside tires consumed in the fire.

The fire has been mostly extinguished and an excavator is breaking apart the building. Fire department remains on scene to extinguish any hotspots

Update Notification Details						
Date/Time	Туре	Stakeholder(s)	Details	Notified By		
01/02/2022 11:36:38	Verbal Briefing	PDM David Schadt briefed	Requested to be transferred through to MOE RO Brian Goetz.  Transferred through.	Laura - Ops 7		
01/02/2022 11:12:05	Email	OFC Distribution List		Laura - Ops 7		
01/02/2022 11:09:58	Email	CCG-ROC		Laura - Ops 7		
01/02/2022 11:09:12	Email	ENV Canada	Notification sent.	Laura - Ops 7		
01/02/2022 11:08:13	Verbal Briefing	PDM Janet Adams	Requesting confirmation in regards to if evacuation occurred or not.  MOE RO Brian Goetz called - will check with the district and follow up.	Laura - Ops 7		

# DGIR 214026 - Inland Update

**Emergency Coordination Center** 

Phone 1-800-663-3456

Fax (250) 952-4872

**UPDATE DETAILS** 

 Update #
 Type
 Number

 4
 DGIR
 214026

Subject ROC# Originally Logged

Inland Update 01/02/2022 05:51:48

Report Compiled ByPositionUpdate Date/TimeDonna - Ops 1ECC Operations Officer01/02/2022 13:41:03

Caller Name Caller Agency

by email/Brian Goetz

Contact # Alt Contact #1 Alt Contact #2

**Incident Location** 

6482 Norcross Rd, Duncan, BC

Area EMCR Region MOE Region MOE Sub Region

DUNCAN Vancouver Island Coastal Vancouver Island

**Details** 

Please add a task for \$100 for Duncan Fire.

Update Notification Details					
Date/Time	Туре	Stakeholder(s)	Details	Notified By	
01/02/2022 13:45:31	Email	ENV Canada	Notification sent.	Donna - Ops 1	
01/02/2022 13:45:02	Email	David Schadt, RDM		Donna - Ops 1	
01/02/2022 13:44:52	Email	OFC dist list		Donna - Ops 1	
01/02/2022 13:42:36	Verbal Briefing	PDM Colin Mathie		Donna - Ops 1	