

# Elson Advocacy

November 30, 2022

**Nancy Marconi**  
Registrar  
Ontario Energy Board  
2300 Yonge Street, 27th Floor  
Toronto, Ontario  
M4P 1E4

Dear Ms. Marconi:

**Re: Enbridge 2022 to 2027 Demand Side Management (“DSM”) Plan  
EB-2021-0002**

Enclosed please find the cost claim of Environmental Defence in the above matter.

This cost claim includes \$24,480 for the expert evidence of Dr. Heather McDiarmid. Dr. McDiarmid’s report cost 8% less than the estimate provided to the OEB. We did not provide a firm estimate for the costs for the steps beyond the preparation of evidence, stating as follows: “The cost for interrogatory responses, a technical conference, and hearing are impossible to predict with certainty because they depend primarily on the actions of other parties. The steps beyond the preparation of evidence may add an additional 30% to the costs, subject to the caveats noted above.” Those additional steps ultimately cost 44% of the original estimate. These costs are reasonable in light of the uncertainty involved. In particular, we did not anticipate the need for an addendum to the evidence to address issues with the avoided costs for electricity nor did we anticipate that there would be a presentation day, which involved additional work for Dr. McDiarmid to prepare her presentation.

Most importantly, Dr. McDiarmid’s evidence provided significant value to this proceeding by showing how cost-ineffective gas heat pumps are and how cost-effective electric cold-climate heat pumps are. These facts appear to have been of use to the Board in coming to its final decision on these points. We respectfully submit that Dr. McDiarmid’s evidence should be reimbursed in full.

We also respectfully submit that the legal costs of Environmental Defence were reasonable and should be reimbursed in full. It appears to us that Environmental Defence made a significant contribution to this proceeding. For instance:

- Environmental Defence prepared detailed submissions on the 2022 plan, including detailed tables to compare the costs and gas savings against previous years. This required a significant amount of analysis. For instance, the comparison was complicated by the

change from targets based on lifetime savings to first-year savings, which required considerable digging in past DSM materials to compile an apples-to-apples comparison.

- Environmental Defence submitted 42 pages of interrogatories, and as a result, was able to uncover important details and issues. To take one example of an issue uncovered by these detailed interrogatories, Environmental Defence discovered issues with the electric avoided cost figures being used, which impacted the applicant's assessment of gas versus electric DSM measures.
- Environmental Defence retained two experts, Energy Futures Group (jointly with the GEC) and Dr. Heather McDiarmid. Both experts were accepted by the OEB and their recommendations were well reflected in the OEB's decision. The legal costs associated with the preparation of this evidence and the interrogatories thereon were within the estimates provided to the OEB.
- Perhaps most importantly, Environmental Defence raised a number of issues that were reflected in the OEB's decision, such as the importance of fuel neutrality in DSM offerings, that proposed incentives for gas equipment were not cost-effective, and the need to increase residential gas savings targets.

As such, we respectfully request that the attached cost claim be approved in full.

Yours truly,



Kent Elson

cc: Parties to the above proceeding

EB-2021-0002 : 1 : Kent Elson

COST CLAIM NUMBER 835	SUBMISSION DEADLINE DATE December 05, 2022	CLAIM STATUS Approved by Finance
EB# EB-2021-0002: Rates: Policy-Related: Enbridge Gas Inc.	OTHER EB#S	PHASE #* 1
INTERVENOR Elson, Kent; +1 (416) 906-7305 kent@elsonadvocacy.ca	INTERVENOR COMPANY* Environmental Defence Canada Inc., Toronto: Corporation	INTERVENOR TYPE Full Registrant
HST RATE ONTARIO 13.00	EXCHANGE RATE	COUNTRY
HST NUMBER 872151923RT0001	LATE SUBMISSION ALLOWED No	EXTENSION DEADLINE DATE

PARTICIPANTS

New	Non-Filing Participant First, Last Name	Filing Participant	Participant Total (\$)	Claim Status
No	,	Elson, Kent; +1 (416) 906-7305 kent@elsonadvocacy.ca	87,102.66	Submitted
Yes	Dr. Heather	McDiarmid	27,662.40	Submitted
No	,	Montgomery, Amanda; +1 (416) 906-7305 amanda@elsonadvocacy.ca	1,440.75	Submitted

ATTACHMENTS

Attachment	Attachment Date	Participant	Document Type	Claim Type	Import Message
ED_CostClaimCvrLtr_20221130.pdf			Cover Letter		
ED EB-2021-0002 Cost Claim 113020222153.pdf					

TOTAL LEGAL/CONSULTANT/OTHER FEES 102,837.00	TOTAL DISBURSEMENTS 0.00	TOTAL HST 13,368.81
TOTAL CLAIM 116,205.81	TOTAL AMOUNT AWARDED	
REASON FOR DISALLOWANCE	REASON FOR DISALLOWANCE - 2	REASON FOR DISALLOWANCE - 3

MAKE CHEQUE PAYABLE TO  
Elson Advocacy, In Trust

SEND PAYMENT TO ADDRESS  
1062 College Street  
Toronto, Ontario  
M6H1A9

ATTENTION

SUBMIT SECTION  
I am a representative of the Party. I have examined all of the documentation in support of this cost claim. The costs incurred and time spent are directly related to the Party's participation in the OEB Process referred to above.

This cost claim does not include any costs for work done, or time spent, by a person that is an employee or officer of the Party as described in section 6.05 and 6.09 of the OEB's Practice Direction on Cost Awards.

The information (fees and disbursements) filed in this cost claim is complete and accurate and in accordance with the OEB's Practice Direction for Cost Awards and Appendix A, the Cost Awards Tariff.

SUBMITTED BY  
Kent Elson

DATE SUBMITTED  
November 30, 2022

**Kent Elson**

<b>CASE</b> EB-2021-0002: Rates: Policy-Related: Enbridge Gas Inc.	<b>COST CLAIM</b> EB-2021-0002 : 1 : Kent Elson	<b>INTERVENOR NAME</b> Elson, Kent; +1 (416) 906-7305 kent@elsonadvocacy.ca	<b>PARTICIPANT CLAIM STATUS</b> Submitted
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<b>FILING PARTICIPANT</b> Elson, Kent; +1 (416) 906-7305 kent@elsonadvocacy.ca	<b>NEW PARTICIPANT</b> No	<b>NON-FILING PARTICIPANT F. NAME</b>	<b>NON-FILING PARTICIPANT L. NAME</b>
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<b>SERVICE PROVIDER TYPE</b> Legal Counsel	<b>YEAR CALLED TO BAR</b> 2009	<b>COMPLETED YEARS PRACTICING/YEARS OF RELEVANT EXPERIENCE</b> 13	<b>HOURLY RATE</b> 290
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<b>CV STATUS (FOR CONSULTANT/ANALYST)</b> CV Required	<b>LAST CV DATE</b>	<b>HST RATE CHARGED</b> 13.00
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<b>HEARINGS</b> Yes	<b>CONSULTATIONS</b> No	<b>DISBURSEMENTS</b> No
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**HEARINGS**

<u>Name</u>	<u>Hours</u>	<u>Hourly Rate</u>	<u>Sub Total</u>	<u>HST Rate</u>	<u>HST</u>	<u>Total</u>
<b>Review Application and Evidence</b>						
Review Application and Evidence	6.00	290	1,740.00	13.00	226.20	1,966.20
<b>Discovery</b>						
Preparation of Interrogatories	35.80	290	10,382.00	13.00	1,349.66	11,731.66
Review Interrogatory Responses	11.80	290	3,422.00	13.00	444.86	3,866.86
Technical Conference Preparation	15.00	290	4,350.00	13.00	565.50	4,915.50
Technical Conference Attendance	10.50	290	3,045.00	13.00	395.85	3,440.85
Technical Conference Follow Up		290		13.00		
<b>Issues List</b>						
Preparation	2.40	290	696.00	13.00	90.48	786.48
Attendance at Issues Conference		290		13.00		
<b>Intervenor Evidence</b>						
Preparation	13.00	290	3,770.00	13.00	490.10	4,260.10
Interrogatory Responses	11.20	290	3,248.00	13.00	422.24	3,670.24
Preparation of Witness(es) for Attendance at Hearing		290		13.00		
<b>Settlement Conference / ADR</b>						
Preparation		290		13.00		
Attendance		290		13.00		
Preparation of Settlement Proposal		290		13.00		
Attendance at Presentation to Panel		290		13.00		
<b>Oral Hearing</b>						
Preparation	27.30	290	7,917.00	13.00	1,029.21	8,946.21
Attendance at Oral Hearing	30.30	290	8,787.00	13.00	1,142.31	9,929.31
<b>Submissions</b>						
Written Submissions	76.10	290	22,069.00	13.00	2,868.97	24,937.97
Oral Submissions		290		13.00		
Attendance at Oral Submissions		290		13.00		
<b>Other Attendance</b>						
Other Attendance		290		13.00		
<b>Communication</b>						
With Client	1.80	290	522.00	13.00	67.86	589.86
With Other Parties	22.10	290	6,409.00	13.00	833.17	7,242.17
<b>Motions</b>						
Preparation of Motion(s) Materials		290		13.00		
Prepare Submissions on the Motion(s)		290		13.00		
Attendance at Hearing on Motion(s)		290		13.00		
<b>Confidentiality</b>						

Preparation of Application for Confidentiality		290		13.00		
Prepare Submissions on Confidentiality		290		13.00		
Attendance at Hearing on Confidentiality		290		13.00		
<b>Decision</b>						
Review	2.50	290	725.00	13.00	94.25	819.25
<b>Rate Order</b>						
Review		290		13.00		
Prepare Submission on Rate Order		290		13.00		
<b>Total Service Provider Fees</b>						
Total Service Provider Fees:			77,082.00		10,020.66	87,102.66

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## Attachments

<u>Attachment</u>	<u>Document Type</u>	<u>Import Message</u>
EALinvoice.pdf	Time Docket	

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## Hearings, Consultations, Disbursements Attachments

<u>Attachment</u>	<u>Related Disbursement Claim</u>	<u>Document Type</u>	<u>Claim Type</u>	<u>Import Message</u>
EALinvoice.pdf		Time Docket	Hearings	

# Elson Advocacy

## Invoice

Environmental Defence  
33 Cecil Street  
Toronto, ON  
M5T 1N1

November 30, 2022

File #: 0098  
Inv #: 1198

**RE:** Enbridge - 2022/27 DSM Plan - EB-2020-0002

DATE	DESCRIPTION	HOURS	LAWYER
May 25, 2021	Review complete DSM application; review procedural timelines per Enbridge request for an expedited hearing; draft summary of issues and potential next steps; various correspondence re intervenor coordination	3.00	KE
May 26, 2021	Various correspondence re DSM plan proceeding; call with GEC and potential expert; review materials re potential expert evidence re fuel switching; draft letter to the Board re proposed evidence	2.10	KE
May 27, 2021	Draft correspondence to the OEB re proposed expert evidence; various further correspondence; preliminary research to collect materials for expert witness	2.50	KE
	ED - Enbridge 2022-27 DSM - Draft intervention request letter	0.30	AM
May 28, 2021	Review various materials and draft various correspondence re DSM plan	0.20	KE
Jun 1, 2021	Review correspondence from Enbridge re proposed evidence; correspond with D. Poch; draft response to Enbridge letter	2.10	KE
	Enbridge - DSM 2022-2027 - Correspond with K. Elson re: intervention request letter	0.10	AM
Jun 2, 2021	Various correspondence re DSM plan	0.10	KE

Jun 3, 2021	Various correspondence	0.20	KE
Jun 22, 2021	Review procedural order #2	0.10	KE
Jun 25, 2021	Various correspondence	0.30	KE
Jun 28, 2021	Review application and make notes for submissions; call re intervenor coordination; prepare outline of submissions	5.50	KE
Jun 29, 2021	Review various DSM reports and prepare tables and figures for submissions	5.00	KE
Jun 30, 2021	Draft submissions	2.30	KE
Jul 1, 2021	Draft submissions on the 2022 plan	5.00	KE
Jul 2, 2021	Draft submissions on the 2022 plan	8.60	KE
Jul 5, 2021	Review and revise DSM plan submissions	3.00	KE
Jul 6, 2021	Review, revise, finalize, and file submissions; review draft issues list; review OEB Act and other materials re possibility of the IESO delivering DSM programs; review submissions of other parties	4.00	KE
	Revise and edit final submissions	1.30	AM
Jul 12, 2021	Draft issues list submissions; review the submissions of the other intervenors and Enbridge; draft correspondence to counsel for Enbridge	0.40	KE
Jul 14, 2021	Review materails re DSM in Toronto	0.20	KE
Jul 19, 2021	Prepare reply submissions re the issues list; various correspondence	0.80	KE
Jul 20, 2021	Various correspondence; review Enbridge's reply; draft correspondence to the OEB re improper reply	1.00	KE
Sep 9, 2021	Various correspondence re intervenor coordination and expert evidence planning	1.50	KE
Sep 10, 2021	Various correspondence; review procedural order and diarize deadlines	0.60	KE

Sep 13, 2021	Call with potential expert; call with other potential expert	2.00	KE
Sep 15, 2021	Review Board Staff evidence letter; follow-up correspondence	0.30	KE
Sep 20, 2021	Calls re intervenor coordination and expert evidence	2.00	KE
Sep 21, 2021	Correspondence and other preparation re potential expert evidence	1.00	KE
Sep 22, 2021	Research re potential heat pump evidence	3.00	KE
Sep 23, 2021	Review evidence	2.00	KE
Sep 27, 2021	Draft outline for interrogatories; draft letter re expert evidence from EFG; research re heat pump issues	5.50	KE
Sep 30, 2021	Prepare notes for IRs and hearing planning; draft correspondence to the OEB	3.00	KE
Oct 4, 2021	Various correspondence and meetings re expert evidence coordination	2.00	KE
	Review and revise letters	0.50	AM
Oct 6, 2021	Review updated application and update annotations	1.00	KE
Oct 7, 2021	Review application and prepare interrogatories	2.00	KE
Oct 8, 2021	Draft interrogatories	3.00	KE
	Review and revised IRs	1.50	AM
Oct 9, 2021	Draft interrogatories	6.00	KE
Oct 10, 2021	Draft interrogatories	6.00	KE
Oct 11, 2021	Revise interrogatories per comments	0.30	KE
Oct 12, 2021	Review and revise interrogatories; various correspondence	1.50	KE
Oct 14, 2021	Draft correspondence to the OEB re auditor general information	0.50	KE



Oct 22, 2021	Review OEB decision re evidence; various correspondence	0.30	KE
Oct 25, 2021	Various correspondence	0.10	KE
Oct 26, 2021	Review materials re Greener Homes Grant; draft correspondence to the OEB re the same; various further correspondence	1.60	KE
Oct 27, 2021	Various correspondence	0.20	KE
Oct 29, 2021	Draft correspondence in response to letter from Enbridge	0.40	KE
Nov 1, 2021	Review correspondence to the OEB from Enbridge; draft reply to the OEB; various further correspondence	0.50	KE
Nov 3, 2021	Call re intervenor coordination; various correspondence	0.70	KE
Nov 12, 2021	Various correspondence	0.30	KE
Nov 16, 2021	Review interrogatory responses; prepare notes on questions for the technical conference	5.80	KE
Nov 17, 2021	Review interrogatory responses; various correspondence re Greener Homes Grant; various correspondence; call with H. McDiarmid	4.50	KE
Nov 18, 2021	Various correspondence	1.30	KE
Nov 19, 2021	Various correspondence	0.60	KE
Nov 20, 2021	Various correspondence and review	0.70	KE
Nov 22, 2021	Call and correspondence re expert evidence	0.50	KE
Nov 23, 2021	Call with experts; review expert evidence drafts	2.00	KE
Nov 25, 2021	Review and comment on C Neme report	1.00	KE
Nov 26, 2021	Various correspondence; review and comment on evidence drafts; call with H. McDiarmid	3.00	KE
Nov 29, 2021	Call with C. Neme; call with H. McDiarmid; review and comment on expert reports	3.00	KE
Nov 30, 2021	Review and comment on EFG report sections;	1.50	KE

	review and comment on H. McDiarmid report; call with H. McDiarmid		
Dec 1, 2021	Review and comment on latest draft of McDiarmid evidence; review and comments on latest draft of EFG evidence; call with EFG	2.00	KE
Dec 3, 2021	Prepare interrogatories on non-applicant evidence	1.60	KE
Dec 16, 2021	Review evidence and prepare interrogatories	0.40	KE
Dec 17, 2021	Review evidence and draft interrogatories on non-applicant evidence; review various correspondence	3.90	KE
	Revise and review interrogatories	0.50	AM
Dec 18, 2021	Compile interrogatories for H. McDiarmid	1.10	KE
Dec 21, 2021	Various correspondence; review procedural order #6	0.40	KE
Dec 22, 2021	Various correspondence; call with H. McDiarmid; assist with IRs, particularly re scoping	3.50	KE
Jan 4, 2022	Review and comment on IR responses	2.00	KE
Jan 7, 2022	Correspond re technical conference	0.40	KE
Jan 12, 2022	Various calls/correspondence	0.70	KE
Jan 14, 2022	Review and comment on C. Neme draft IRs; review and comment on H. McDiarmid IRs	1.20	KE
Jan 17, 2022	Review and comment on EFG IRs; review and comment on McDiarmid IRs	1.00	KE
Jan 19, 2022	Review and comment on EFG IRs; review and comment on Dr. McDiarmid IRs; format and submit Dr. McDiarmid IRs	2.40	KE
Jan 25, 2022	Various correspondence	0.10	KE
Jan 27, 2022	Various correspondence	0.10	KE
Jan 31, 2022	Various correspondence	0.20	KE

Feb 1, 2022	Various correspondence; review interrogatory responses	1.50	KE
Feb 2, 2022	Review and prepare interrogatories on Enbridge reply evidence	0.50	KE
Feb 8, 2022	Prepare interrogatories on Enbridge reply evidence	1.60	KE
	Revise IRs; file and serve IRs	1.00	AM
Feb 25, 2022	Prepare with expert for technical conference testimony (0.5 hr); prepare for technical conference questions	3.80	KE
Feb 26, 2022	Prepare for technical conference	1.60	KE
Feb 27, 2022	Prepare for technical conference	3.50	KE
Feb 28, 2022	Prepare for technical conference (1.5); attend technical conference (5.5 hrs); prepare for technical conference continuation (2 hrs)	9.00	KE
Mar 1, 2022	Prepare for technical conference	1.50	KE
Mar 2, 2022	Attend technical conference	5.00	KE
Mar 6, 2022	Various correspondence	0.10	KE
Mar 10, 2022	Prepare for hearing	3.40	KE
Mar 11, 2022	Prepare for hearing	0.50	KE
Mar 15, 2022	Prepare for hearing	1.50	KE
Mar 16, 2022	Prepare for hearing	5.00	KE
Mar 18, 2022	Prepare for hearing	1.10	KE
Mar 20, 2022	Prepare for hearing	1.80	KE
Mar 21, 2022	Prepare for hearing	3.50	KE
Mar 23, 2022	Prepare for hearing	0.30	KE
Mar 24, 2022	Attend presentation day	6.30	KE

Mar 25, 2022	Prepare for hearing	0.20	KE
Mar 26, 2022	Prepare for hearing	5.00	KE
Mar 27, 2022	Prepare for hearing	2.50	KE
Mar 28, 2022	Prepare for hearing (1 hr); attend hearing (6 hrs)	7.00	KE
Mar 29, 2022	Attend hearing (4 hrs); prepare for hearing (0.5 hrs)	4.50	KE
Mar 30, 2022	Attend hearing	4.00	KE
Mar 31, 2022	Attend hearing (5 hrs); prepare for hearing (1 hr)	6.00	KE
Apr 1, 2022	Attend hearing (5 hrs)	5.00	KE
Apr 12, 2022	Review materials in preparation for submissions	0.30	KE
Apr 20, 2022	Various correspondence; draft correspondence re municipal advisor position	1.00	KE
Apr 21, 2022	Various correspondence; finalize and send correspondence to the OEB re municipal DSM position; review undertaking responses; draft correspondence to Enbridge requesting revised response to J1.3	1.50	KE
	Revise correspondence to the OEB	0.20	AM
Apr 25, 2022	Review response from Enbridge re new information; draft reply to the OEB	0.60	KE
May 13, 2022	Draft submissions	0.80	KE
May 16, 2022	Draft submissions	7.00	KE
May 17, 2022	Draft submissions	5.50	KE
	Research	1.00	AM
May 18, 2022	Draft submissions	6.00	KE
May 19, 2022	Draft submissions	7.60	KE
	Revise submissions	1.10	AM

Sep 1, 2022	Review documents from Enbridge; draft declaration and undertaking	0.40	KE
Sep 16, 2022	Review NRCan agreement; various correspondence	1.80	KE
Sep 19, 2022	Prepare submissions on the NRCan agreement; review, revise, and finalize submissions; various correspondence	4.50	KE
Oct 17, 2022	Various correspondence	0.20	KE
Nov 16, 2022	Prepare and submit declaration and undertaking; review DSM decision	2.50	KE
Nov 17, 2022	Review decision; prepare reporting for client to provide post-decision-release	1.40	KE
Nov 21, 2022	Reporting to client	0.40	KE
	Total Hours and Fees	273.30	\$78,405.00
	Total HST on Fees		\$10,192.65
<b>TOTALS</b>			
	Total Fees & Disbursements		\$78,405.00
	Total HST		\$10,192.65
	Total Fees, Disbursements, & HST		\$88,597.65
<b>Amount Now Due</b>			<b>\$88,597.65</b>

HST #	75532 3078 RT0001
Total HST	\$10,192.65

**CASE**  
EB-2021-0002: Rates:  
Policy-Related: Enbridge Gas  
Inc.

**COST CLAIM**  
EB-2021-0002 : 1 : Kent Elson

**INTERVENOR NAME**  
Elson, Kent; +1 (416) 906-7305  
kent@elsonadvocacy.ca

**PARTICIPANT  
CLAIM STATUS**  
Submitted

<b>FILING PARTICIPANT</b>	<b>NEW PARTICIPANT</b> Yes	<b>NON-FILING PARTICIPANT F. NAME</b> Dr. Heather	<b>NON-FILING PARTICIPANT L. NAME</b> McDiarmid
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<b>SERVICE PROVIDER TYPE</b> Consultant	<b>YEAR CALLED TO BAR</b>	<b>COMPLETED YEARS PRACTICING/YEARS OF RELEVANT EXPERIENCE</b> 4	<b>HOURLY RATE</b> 170
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<b>CV STATUS (FOR CONSULTANT/ANALYST)</b> CV Attached	<b>LAST CV DATE</b> November 30, 2022	<b>HST RATE CHARGED</b> 13.00
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<b>HEARINGS</b> Yes	<b>CONSULTATIONS</b> No	<b>DISBURSEMENTS</b> No
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## HEARINGS

<u>Name</u>	<u>Hours</u>	<u>Hourly Rate</u>	<u>Sub Total</u>	<u>HST Rate</u>	<u>HST</u>	<u>Total</u>
<b>Review Application and Evidence</b>						
Review Application and Evidence		170		13.00		
<b>Discovery</b>						
Preparation of Interrogatories		170		13.00		
Review Interrogatory Responses		170		13.00		
Technical Conference Preparation	10.50	170	1,785.00	13.00	232.05	2,017.05
Technical Conference Attendance	2.00	170	340.00	13.00	44.20	384.20
Technical Conference Follow Up	9.50	170	1,615.00	13.00	209.95	1,824.95
<b>Issues List</b>						
Preparation		170		13.00		
Attendance at Issues Conference		170		13.00		
<b>Intervenor Evidence</b>						
Preparation	85.50	170	14,535.00	13.00	1,889.55	16,424.55
Interrogatory Responses	24.00	170	4,080.00	13.00	530.40	4,610.40
Preparation of Witness(es) for Attendance at Hearing	0.50	170	85.00	13.00	11.05	96.05
<b>Settlement Conference / ADR</b>						
Preparation		170		13.00		
Attendance		170		13.00		
Preparation of Settlement Proposal		170		13.00		
Attendance at Presentation to Panel		170		13.00		
<b>Oral Hearing</b>						
Preparation	11.00	170	1,870.00	13.00	243.10	2,113.10
Attendance at Oral Hearing	1.00	170	170.00	13.00	22.10	192.10
<b>Submissions</b>						
Written Submissions		170		13.00		
Oral Submissions		170		13.00		
Attendance at Oral Submissions		170		13.00		
<b>Other Attendance</b>						
Other Attendance		170		13.00		
<b>Communication</b>						
With Client		170		13.00		
With Other Parties		170		13.00		
<b>Motions</b>						
Preparation of Motion(s) Materials		170		13.00		
Prepare Submissions on the Motion(s)		170		13.00		
Attendance at Hearing on Motion(s)		170		13.00		
<b>Confidentiality</b>						

Preparation of Application for Confidentiality	170	13.00	
Prepare Submissions on Confidentiality	170	13.00	
Attendance at Hearing on Confidentiality	170	13.00	
<b>Decision</b>			
Review	170	13.00	
<b>Rate Order</b>			
Review	170	13.00	
Prepare Submission on Rate Order	170	13.00	
<b>Total Service Provider Fees</b>			
Total Service Provider Fees:	24,480.00	3,182.40	27,662.40

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## Attachments

<u>Attachment</u>	<u>Document Type</u>	<u>Import Message</u>
McDiarmidInvoice.pdf	Time Docket	
McDiarmidInvoice.pdf	Invoice	
McDiarmidCV.pdf	CV	

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## Hearings, Consultations, Disbursements Attachments

<u>Attachment</u>	<u>Related Disbursement Claim</u>	<u>Document Type</u>	<u>Claim Type</u>	<u>Import Message</u>
McDiarmidInvoice.pdf		Time Docket	Hearings	
McDiarmidInvoice.pdf		Invoice	Hearings	
McDiarmidCV.pdf		CV	Hearings	

**Heather McDiarmid**

# INVOICE

INVOICE # 19  
DATE: MAY 2, 2022

**TO:**  
Environmental Defense  
33 Cecil St  
1st Floor  
Toronto, ON  
M5T 1N1

**SHIP TO:**  
Heather McDiarmid

QUANTITY	DESCRIPTION	TOTAL
85.5	Intervener Evidence preparation	14,535
24	Intervener Evidence interrogatory responses	4,080
0.5	Intervener Evidence preparation of witness for attendance at hearing	85
10.5	Technical conference preparation	1,785
2	Technical conference attendance	340
9.5	Technical conference follow up	1,615
11	Oral hearing preparation	1,870
1	Oral hearing attendance	170
SUBTOTAL		24,480
HST (13%)		3,182
<b>TOTAL DUE</b>		<b>27,662</b>

Make all checks payable to Heather McDiarmid  
If you have any questions concerning this invoice, contact Heather at heatheratp2@gmail.com

**THANK YOU FOR YOUR BUSINESS!**



**Heather McDiarmid**

# INVOICE

INVOICE # 19  
DATE: MAY 2, 2022

**TO:**  
Environmental Defense  
33 Cecil St  
1st Floor  
Toronto, ON  
M5T 1N1

**SHIP TO:**  
Heather McDiarmid

QUANTITY	DESCRIPTION	TOTAL
85.5	Intervener Evidence preparation	14,535
24	Intervener Evidence interrogatory responses	4,080
0.5	Intervener Evidence preparation of witness for attendance at hearing	85
10.5	Technical conference preparation	1,785
2	Technical conference attendance	340
9.5	Technical conference follow up	1,615
11	Oral hearing preparation	1,870
1	Oral hearing attendance	170
SUBTOTAL		24,480
HST (13%)		3,182
<b>TOTAL DUE</b>		<b>27,662</b>

Make all checks payable to Heather McDiarmid  
If you have any questions concerning this invoice, contact Heather at heatheratp2@gmail.com

**THANK YOU FOR YOUR BUSINESS!**

# Heather McDiarmid, MCC, PhD

heatheratp2@gmail.com

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## Experience

### **Independent Consultant, McDiarmid Climate Consulting**

*Sept 2018 to present*

- Clients have included the Environmental Defense, Ontario Clean Air Alliance, ClimateActionWR, Reep Green Solutions, GreenUP Peterborough, Waterloo Region Community Energy, Conestoga College.
- Prepared evidence for Ontario Energy Board hearings as an expert in residential heating options modelling.
- Developed curriculum materials for an internationally-recognized climate literacy certification program.
- Analyzed the financial and climate mitigation impacts of electrifying Ontario homes using heat pumps for space and water heating.
- Explored a housing archetype-based approach to decarbonizing residential homes in Waterloo Region.
- Conducted a residential retrofit financing program feasibility study to meet FCM requirements.
- Prepared a research-based study of the potential for active transportation hubs and programs to encourage transportation mode shifts in the tri-cities.
- Unearthed and detailed residential carbon mitigation programs and strategies from across North America to inform Toronto's climate action plan.
- Prepared a climate impact analysis and developed an evaluation framework for a non-profit.
- Performed primary and secondary market research on the feasibility of retrofit management.

### **Sustainability Living Lab Coordinator, University of Waterloo**

*Oct 2021 to July 2022*

- Facilitated opportunities for students to apply their skills and knowledge to campus sustainability challenges
- Documented campus work related to the UN Sustainable Development Goals
- Developed resources to support integration of sustainability content in courses and programs

### **Research Associate and Lecturer, University of Waterloo**

*Jun 2020 to present*

- Taught a blended (in person and online) graduate course in Climate Change Mitigation in Fall 2021.
- Worked with local non-profit organizations to provide experiential learning opportunities.
- Invited as a guest lecturer on Climate Change Communications and on Climate Change and Housing.
- Analyzed a database of over 44,000 home energy audit results to explore the emissions impacts of different retrofit and electrification approaches for the residential sector.
- Presented research findings at the International Green Energy Conference, Jul 15-18, 2021.

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**Research Assistant and Writer, University of Waterloo and David Miller**

*Mar 2019 to Apr 2020*

- Investigated municipal programs from around the world that have been successful in cutting carbon emissions, highlighting the most relevant and universally applicable details for a book.
- Advised on structuring the book and collaborated in choosing programs to profile.
- Wrote early drafts of many chapters.
- David Miller, Director of International Diplomacy at C40 Cities, is the author of the book titled Solved: how the world's great cities are fixing the climate crisis.

**Researcher, Clean Air Partnership**

*Apr to Aug 2019*

- Prepared a [toolkit](#) on municipal financing options for residential retrofit programs.
- Completed a 16-week research project in 10 weeks.
- Prepared and presented webinars to municipal representatives.

**Academic Instructor, Wilfrid Laurier University and University of Guelph**

*2002 to 2011*

- Shared a passion for biochemistry with 6-200 students at the 2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup> year levels.
- Researched and developed new course content.
- Explored innovative ways of engaging students.

## Education

- Master of Climate Change, University of Waterloo
- PhD in Biochemistry, University of Guelph

## Leadership in Sustainability

- **Project Lead**, Homeowner's guide to heat pumps for WR
- **Committee Member and Co-Chair**, ClimateAction WR Residential Sector
- **Committee Member**, UW CAP Climate and Energy Working Group

*Jan to Jun 2021*

*Dec 2018 - present  
2019*

# Heather McDiarmid, MCC, PhD

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## Writing and Publications

- An analysis of the financial and climate benefits of using ground-source heat pumps to electrify Ontario's gas-heated homes, prepared for Ontario Clean Air Alliance
- Carbon Literacy Training, an 8-hour micro-credential prepared for Conestoga College
- [An analysis of the financial and climate benefits of electrifying Ontario's gas-heated homes by installing air-source heat pumps](#), prepared for Ontario Clean Air Alliance
- [Accelerating the 1.5°C energy transition for Canadian residential buildings through selective direct electrification with heat pumps](#). Peer-reviewed article published in Canadian Geographer, July 4, 2022.
- [Analysis of Enbridge Gas' proposed low carbon transition program for cost-effectiveness and climate alignment](#), prepared for Environmental Defense for use in OEB hearings
- [An analysis of the potential for air source heat pumps to reduce energy costs and greenhouse gas pollution](#), prepared for Ontario Clean Air Alliance
- Deep energy efficiency retrofits vs direct electrification for urgent emissions reduction: a case study using 33,780 residential energy profiles in Waterloo, Canada. Presented to the 13<sup>th</sup> International Green Energy Conference Jul 2021.
- [Active Transportation Hubs in Waterloo Region: a research pilot project](#) prepared for ClimateActionWR
- [Aerial thermal imaging and building energy efficiency upgrades in WR: a sustainable buildings pilot, prepared for ClimateActionWR](#)
- [Analysis of the Residential Electrification Potential for the Waterloo Region](#)
- [Residential heat pump water heaters as a climate action for the Waterloo Region](#)
- Deep Energy Residential Retrofit: financing feasibility study for Waterloo Region, prepared for WR Community Energy
- [Accelerating Home Energy Efficiency Retrofits through LIC Programs: a toolkit for municipalities](#) , prepared for Clean Air Partnership
- [Climate Change and the Tree Canopy of Waterloo Region](#)
- [Climate Change and Housing Affordability in Canada](#)

**Amanda Montgomery**

<b>CASE</b> EB-2021-0002: Rates: Policy-Related: Enbridge Gas Inc.	<b>COST CLAIM</b> EB-2021-0002 : 1 : Kent Elson	<b>INTERVENOR NAME</b> Elson, Kent; +1 (416) 906-7305 kent@elsonadvocacy.ca	<b>PARTICIPANT CLAIM STATUS</b> Submitted
<b>FILING PARTICIPANT</b> Montgomery, Amanda; +1 (416) 906-7305 amanda@elsonadvocacy.ca	<b>NEW PARTICIPANT</b> No	<b>NON-FILING PARTICIPANT F. NAME</b>	<b>NON-FILING PARTICIPANT L. NAME</b>
<b>SERVICE PROVIDER TYPE</b> Legal Counsel	<b>YEAR CALLED TO BAR</b> 2020	<b>COMPLETED YEARS PRACTICING/YEARS OF RELEVANT EXPERIENCE</b> 2	<b>HOURLY RATE</b> 170
<b>CV STATUS (FOR CONSULTANT/ANALYST)</b> CV Required	<b>LAST CV DATE</b>		<b>HST RATE CHARGED</b> 13.00
<b>HEARINGS</b> Yes	<b>CONSULTATIONS</b> No	<b>DISBURSEMENTS</b> No	

**HEARINGS**

<u>Name</u>	<u>Hours</u>	<u>Hourly Rate</u>	<u>Sub Total</u>	<u>HST Rate</u>	<u>HST</u>	<u>Total</u>
<b>Review Application and Evidence</b>						
Review Application and Evidence	0.40	170	68.00	13.00	8.84	76.84
<b>Discovery</b>						
Preparation of Interrogatories	3.00	170	510.00	13.00	66.30	576.30
Review Interrogatory Responses		170		13.00		
Technical Conference Preparation		170		13.00		
Technical Conference Attendance		170		13.00		
Technical Conference Follow Up		170		13.00		
<b>Issues List</b>						
Preparation		170		13.00		
Attendance at Issues Conference		170		13.00		
<b>Intervenor Evidence</b>						
Preparation		170		13.00		
Interrogatory Responses		170		13.00		
Preparation of Witness(es) for Attendance at Hearing		170		13.00		
<b>Settlement Conference / ADR</b>						
Preparation		170		13.00		
Attendance		170		13.00		
Preparation of Settlement Proposal		170		13.00		
Attendance at Presentation to Panel		170		13.00		
<b>Oral Hearing</b>						
Preparation		170		13.00		
Attendance at Oral Hearing		170		13.00		
<b>Submissions</b>						
Written Submissions	4.10	170	697.00	13.00	90.61	787.61
Oral Submissions		170		13.00		
Attendance at Oral Submissions		170		13.00		
<b>Other Attendance</b>						
Other Attendance		170		13.00		
<b>Communication</b>						
With Client		170		13.00		
With Other Parties		170		13.00		
<b>Motions</b>						
Preparation of Motion(s) Materials		170		13.00		
Prepare Submissions on the Motion(s)		170		13.00		
Attendance at Hearing on Motion(s)		170		13.00		
<b>Confidentiality</b>						

Preparation of Application for Confidentiality	170	13.00		
Prepare Submissions on Confidentiality	170	13.00		
Attendance at Hearing on Confidentiality	170	13.00		
<b>Decision</b>				
Review	170	13.00		
<b>Rate Order</b>				
Review	170	13.00		
Prepare Submission on Rate Order	170	13.00		
<b>Total Service Provider Fees</b>				
Total Service Provider Fees:	1,275.00	165.75	1,440.75	

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## Attachments

<u>Attachment</u>	<u>Document Type</u>	<u>Import Message</u>
EAIInvoice.pdf	Time Docket	

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## Hearings, Consultations, Disbursements Attachments

<u>Attachment</u>	<u>Related Disbursement Claim</u>	<u>Document Type</u>	<u>Claim Type</u>	<u>Import Message</u>
EAIInvoice.pdf		Time Docket	Hearings	

# Elson Advocacy

## Invoice

Environmental Defence  
33 Cecil Street  
Toronto, ON  
M5T 1N1

November 30, 2022

File #: 0098  
Inv #: 1198

**RE:** Enbridge - 2022/27 DSM Plan - EB-2020-0002

DATE	DESCRIPTION	HOURS	LAWYER
May 25, 2021	Review complete DSM application; review procedural timelines per Enbridge request for an expedited hearing; draft summary of issues and potential next steps; various correspondence re intervenor coordination	3.00	KE
May 26, 2021	Various correspondence re DSM plan proceeding; call with GEC and potential expert; review materials re potential expert evidence re fuel switching; draft letter to the Board re proposed evidence	2.10	KE
May 27, 2021	Draft correspondence to the OEB re proposed expert evidence; various further correspondence; preliminary research to collect materials for expert witness	2.50	KE
	ED - Enbridge 2022-27 DSM - Draft intervention request letter	0.30	AM
May 28, 2021	Review various materials and draft various correspondence re DSM plan	0.20	KE
Jun 1, 2021	Review correspondence from Enbridge re proposed evidence; correspond with D. Poch; draft response to Enbridge letter	2.10	KE
	Enbridge - DSM 2022-2027 - Correspond with K. Elson re: intervention request letter	0.10	AM
Jun 2, 2021	Various correspondence re DSM plan	0.10	KE

Jun 3, 2021	Various correspondence	0.20	KE
Jun 22, 2021	Review procedural order #2	0.10	KE
Jun 25, 2021	Various correspondence	0.30	KE
Jun 28, 2021	Review application and make notes for submissions; call re intervenor coordination; prepare outline of submissions	5.50	KE
Jun 29, 2021	Review various DSM reports and prepare tables and figures for submissions	5.00	KE
Jun 30, 2021	Draft submissions	2.30	KE
Jul 1, 2021	Draft submissions on the 2022 plan	5.00	KE
Jul 2, 2021	Draft submissions on the 2022 plan	8.60	KE
Jul 5, 2021	Review and revise DSM plan submissions	3.00	KE
Jul 6, 2021	Review, revise, finalize, and file submissions; review draft issues list; review OEB Act and other materials re possibility of the IESO delivering DSM programs; review submissions of other parties	4.00	KE
	Revise and edit final submissions	1.30	AM
Jul 12, 2021	Draft issues list submissions; review the submissions of the other intervenors and Enbridge; draft correspondence to counsel for Enbridge	0.40	KE
Jul 14, 2021	Review materails re DSM in Toronto	0.20	KE
Jul 19, 2021	Prepare reply submissions re the issues list; various correspondence	0.80	KE
Jul 20, 2021	Various correspondence; review Enbridge's reply; draft correspondence to the OEB re improper reply	1.00	KE
Sep 9, 2021	Various correspondence re intervenor coordination and expert evidence planning	1.50	KE
Sep 10, 2021	Various correspondence; review procedural order and diarize deadlines	0.60	KE



Sep 13, 2021	Call with potential expert; call with other potential expert	2.00	KE
Sep 15, 2021	Review Board Staff evidence letter; follow-up correspondence	0.30	KE
Sep 20, 2021	Calls re intervenor coordination and expert evidence	2.00	KE
Sep 21, 2021	Correspondence and other preparation re potential expert evidence	1.00	KE
Sep 22, 2021	Research re potential heat pump evidence	3.00	KE
Sep 23, 2021	Review evidence	2.00	KE
Sep 27, 2021	Draft outline for interrogatories; draft letter re expert evidence from EFG; research re heat pump issues	5.50	KE
Sep 30, 2021	Prepare notes for IRs and hearing planning; draft correspondence to the OEB	3.00	KE
Oct 4, 2021	Various correspondence and meetings re expert evidence coordination	2.00	KE
	Review and revise letters	0.50	AM
Oct 6, 2021	Review updated application and update annotations	1.00	KE
Oct 7, 2021	Review application and prepare interrogatories	2.00	KE
Oct 8, 2021	Draft interrogatories	3.00	KE
	Review and revised IRs	1.50	AM
Oct 9, 2021	Draft interrogatories	6.00	KE
Oct 10, 2021	Draft interrogatories	6.00	KE
Oct 11, 2021	Revise interrogatories per comments	0.30	KE
Oct 12, 2021	Review and revise interrogatories; various correspondence	1.50	KE
Oct 14, 2021	Draft correspondence to the OEB re auditor general information	0.50	KE

Oct 22, 2021	Review OEB decision re evidence; various correspondence	0.30	KE
Oct 25, 2021	Various correspondence	0.10	KE
Oct 26, 2021	Review materials re Greener Homes Grant; draft correspondence to the OEB re the same; various further correspondence	1.60	KE
Oct 27, 2021	Various correspondence	0.20	KE
Oct 29, 2021	Draft correspondence in response to letter from Enbridge	0.40	KE
Nov 1, 2021	Review correspondence to the OEB from Enbridge; draft reply to the OEB; various further correspondence	0.50	KE
Nov 3, 2021	Call re intervenor coordination; various correspondence	0.70	KE
Nov 12, 2021	Various correspondence	0.30	KE
Nov 16, 2021	Review interrogatory responses; prepare notes on questions for the technical conference	5.80	KE
Nov 17, 2021	Review interrogatory responses; various correspondence re Greener Homes Grant; various correspondence; call with H. McDiarmid	4.50	KE
Nov 18, 2021	Various correspondence	1.30	KE
Nov 19, 2021	Various correspondence	0.60	KE
Nov 20, 2021	Various correspondence and review	0.70	KE
Nov 22, 2021	Call and correspondence re expert evidence	0.50	KE
Nov 23, 2021	Call with experts; review expert evidence drafts	2.00	KE
Nov 25, 2021	Review and comment on C Neme report	1.00	KE
Nov 26, 2021	Various correspondence; review and comment on evidence drafts; call with H. McDiarmid	3.00	KE
Nov 29, 2021	Call with C. Neme; call with H. McDiarmid; review and comment on expert reports	3.00	KE
Nov 30, 2021	Review and comment on EFG report sections;	1.50	KE

	review and comment on H. McDiarmid report; call with H. McDiarmid		
Dec 1, 2021	Review and comment on latest draft of McDiarmid evidence; review and comments on latest draft of EFG evidence; call with EFG	2.00	KE
Dec 3, 2021	Prepare interrogatories on non-applicant evidence	1.60	KE
Dec 16, 2021	Review evidence and prepare interrogatories	0.40	KE
Dec 17, 2021	Review evidence and draft interrogatories on non-applicant evidence; review various correspondence	3.90	KE
	Revise and review interrogatories	0.50	AM
Dec 18, 2021	Compile interrogatories for H. McDiarmid	1.10	KE
Dec 21, 2021	Various correspondence; review procedural order #6	0.40	KE
Dec 22, 2021	Various correspondence; call with H. McDiarmid; assist with IRs, particularly re scoping	3.50	KE
Jan 4, 2022	Review and comment on IR responses	2.00	KE
Jan 7, 2022	Correspond re technical conference	0.40	KE
Jan 12, 2022	Various calls/correspondence	0.70	KE
Jan 14, 2022	Review and comment on C. Neme draft IRs; review and comment on H. McDiarmid IRs	1.20	KE
Jan 17, 2022	Review and comment on EFG IRs; review and comment on McDiarmid IRs	1.00	KE
Jan 19, 2022	Review and comment on EFG IRs; review and comment on Dr. McDiarmid IRs; format and submit Dr. McDiarmid IRs	2.40	KE
Jan 25, 2022	Various correspondence	0.10	KE
Jan 27, 2022	Various correspondence	0.10	KE
Jan 31, 2022	Various correspondence	0.20	KE

Feb 1, 2022	Various correspondence; review interrogatory responses	1.50	KE
Feb 2, 2022	Review and prepare interrogatories on Enbridge reply evidence	0.50	KE
Feb 8, 2022	Prepare interrogatories on Enbridge reply evidence	1.60	KE
	Revise IRs; file and serve IRs	1.00	AM
Feb 25, 2022	Prepare with expert for technical conference testimony (0.5 hr); prepare for technical conference questions	3.80	KE
Feb 26, 2022	Prepare for technical conference	1.60	KE
Feb 27, 2022	Prepare for technical conference	3.50	KE
Feb 28, 2022	Prepare for technical conference (1.5); attend technical conference (5.5 hrs); prepare for technical conference continuation (2 hrs)	9.00	KE
Mar 1, 2022	Prepare for technical conference	1.50	KE
Mar 2, 2022	Attend technical conference	5.00	KE
Mar 6, 2022	Various correspondence	0.10	KE
Mar 10, 2022	Prepare for hearing	3.40	KE
Mar 11, 2022	Prepare for hearing	0.50	KE
Mar 15, 2022	Prepare for hearing	1.50	KE
Mar 16, 2022	Prepare for hearing	5.00	KE
Mar 18, 2022	Prepare for hearing	1.10	KE
Mar 20, 2022	Prepare for hearing	1.80	KE
Mar 21, 2022	Prepare for hearing	3.50	KE
Mar 23, 2022	Prepare for hearing	0.30	KE
Mar 24, 2022	Attend presentation day	6.30	KE

Mar 25, 2022	Prepare for hearing	0.20	KE
Mar 26, 2022	Prepare for hearing	5.00	KE
Mar 27, 2022	Prepare for hearing	2.50	KE
Mar 28, 2022	Prepare for hearing (1 hr); attend hearing (6 hrs)	7.00	KE
Mar 29, 2022	Attend hearing (4 hrs); prepare for hearing (0.5 hrs)	4.50	KE
Mar 30, 2022	Attend hearing	4.00	KE
Mar 31, 2022	Attend hearing (5 hrs); prepare for hearing (1 hr)	6.00	KE
Apr 1, 2022	Attend hearing (5 hrs)	5.00	KE
Apr 12, 2022	Review materials in preparation for submissions	0.30	KE
Apr 20, 2022	Various correspondence; draft correspondence re municipal advisor position	1.00	KE
Apr 21, 2022	Various correspondence; finalize and send correspondence to the OEB re municipal DSM position; review undertaking responses; draft correspondence to Enbridge requesting revised response to J1.3	1.50	KE
	Revise correspondence to the OEB	0.20	AM
Apr 25, 2022	Review response from Enbridge re new information; draft reply to the OEB	0.60	KE
May 13, 2022	Draft submissions	0.80	KE
May 16, 2022	Draft submissions	7.00	KE
May 17, 2022	Draft submissions	5.50	KE
	Research	1.00	AM
May 18, 2022	Draft submissions	6.00	KE
May 19, 2022	Draft submissions	7.60	KE
	Revise submissions	1.10	AM

Sep 1, 2022	Review documents from Enbridge; draft declaration and undertaking	0.40	KE
Sep 16, 2022	Review NRCan agreement; various correspondence	1.80	KE
Sep 19, 2022	Prepare submissions on the NRCan agreement; review, revise, and finalize submissions; various correspondence	4.50	KE
Oct 17, 2022	Various correspondence	0.20	KE
Nov 16, 2022	Prepare and submit declaration and undertaking; review DSM decision	2.50	KE
Nov 17, 2022	Review decision; prepare reporting for client to provide post-decision-release	1.40	KE
Nov 21, 2022	Reporting to client	0.40	KE
	Total Hours and Fees	273.30	\$78,405.00
	Total HST on Fees		\$10,192.65
<b>TOTALS</b>			
	Total Fees & Disbursements		\$78,405.00
	Total HST		\$10,192.65
	Total Fees, Disbursements, & HST		\$88,597.65
<b>Amount Now Due</b>			<b>\$88,597.65</b>

HST #	75532 3078 RT0001
Total HST	\$10,192.65