Wildlife Scientific Collector's Authorization # 1092051 ESA Permit # GU-B-004-18

#### Instructions:

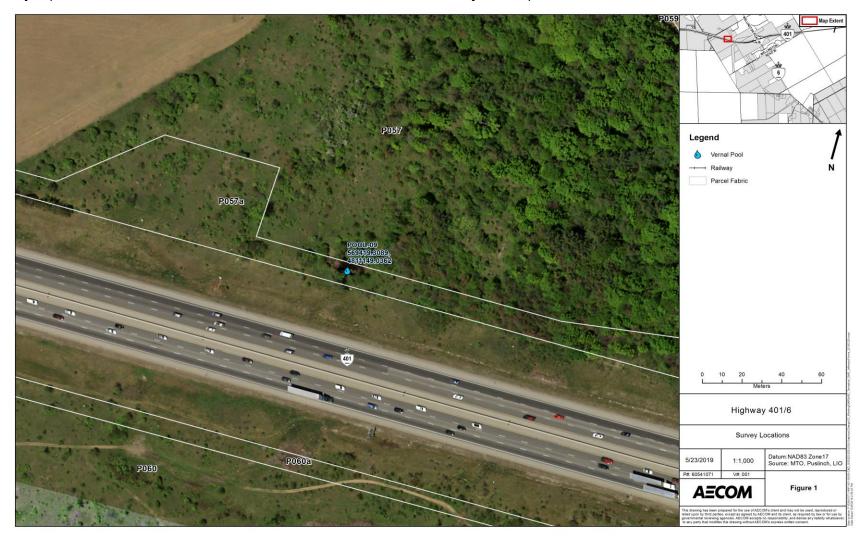
- You must complete a separate form for each pond sampled.
- Each form must be completed in its entirety (including permit numbers).
- Attach two orthophotos showing the location of the pond labelled with UTM coordinates (see example provided):
  - Map 1 must show the pond and local roads or features.
  - Map 2 will be a close-up of the pond (suggested scale 1:1000).
- Pond nomenclature must be consistent for all maps and reports.
- All conditions as per the WSCA and ESA permits must be followed.

report.	
SECTION A - TO BE FILLED OUT BY THE COLLECTOR	
Search Result (circle one): Positive Negative	
PROJECT TITLE:Highway 401/6	
CONTACT INFORMATION:	
Name of observer(s): Edyta Ratajczyk, Julie Ellis Affiliation: AECOM	
Mailing Address: AECOM Canada Ltd.,105 Commerce Valley Drive West, 7 <sup>th</sup> Floor,Markham, ON	I L3T 7W3,
CanadaPhone Number: 905.886.7022 Email: julie.ellis@aecom.com	
PROPERTY INFORMATION:	
Site name: P057a Pond ID:	19
Property Address: NA	
UTM Coordinates (NAD83): <u>569419</u> E <u>4811147</u> N ( <b>NOT</b> Lat, Long)	
(Do not record UTM of each minnow trap, only one coordinate per pond or road location is re-	quired)
Land Ownership: □Public □Private □Both	
Name: MTO Property Section  Mailing Address:	
Last updated: January 2016 Page 1	

SAMPLING INFORMATION:	08/	04/	2019-			
Date(s) of sampling:	>91	541	7d9	<u>-</u>		(dd/mm/yyyy)
Survey Type (circle one):						
Minnow Trap Cover Board	l Roa	d P	Pitfall Trap	√isual	Incidental	
Sample Type (circle all that apply):						
Tail Tip Roadkill Larvae	Egg	Mass	Visual Obse	ervation		
Search Effort (time spent, number of						
# of salamanders observed:						<u>.</u>
Number of Samples Taken:				,		6
# of adult tail tips:		# mort	talities:		# of larvae:	
# of larvae tail tips:		# road	kills:	/		
HABITAT INFORMATION:  Average Pond Depth (m):  Pond Description:			>	F24.40		
		$\angle$				
Terrestrial Vegetation Community Type	oe:					
Other amphibians observed or heard:			<u></u>			
Egg Attachment Sites Present:	⊠Yes	□No	□Unknown			
Suitable Hydroperiod for Breeding:	<b></b> Yes		□Unknown			
Photos Taken:	团Yes	□No	Photo #: <u>23</u>	383	2391, 1	30448
SECTION B — TO BE FILLED OUT	BY DE	R. BOG	ART			
Date samples received:						
Condition of samples received:						
JPB #(s):				,		- II



Maps (Please ensure road names and UTM coordinates are clearly visible)



Last updated: January 2016

Wildlife Scientific Collector's Authorization # 1092051 ESA Permit # GU-B-004-18

Page 1

#### Instructions:

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- Each form must be completed in its entirety (including permit numbers).
- Attach two orthophotos showing the location of the pond labelled with UTM coordinates (see example provided):
  - Map 1 must show the pond and local roads or features.

SECTION A - TO BE FILLED OUT BY THE COLLECTOR

- Map 2 will be a close-up of the pond (suggested scale 1:1000).
- Pond nomenclature must be consistent for all maps and reports.
- All conditions as per the WSCA and ESA permits must be followed.

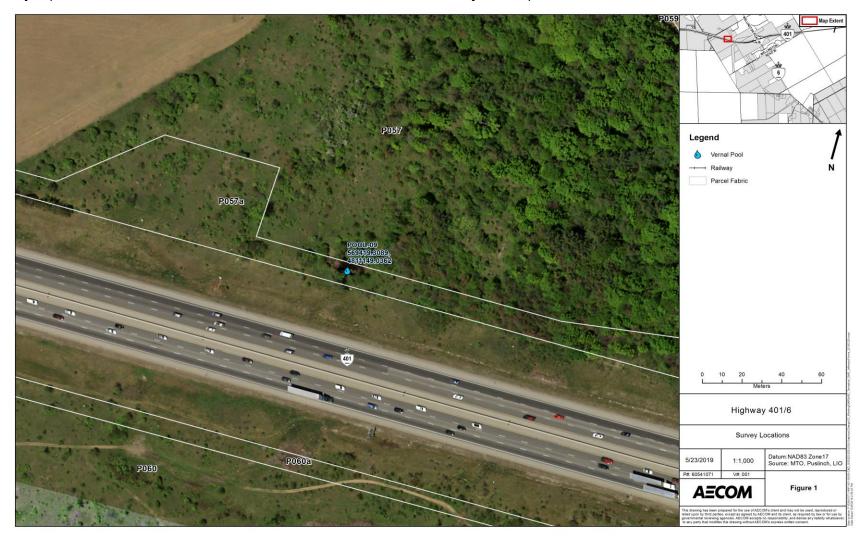
Submit this form along with any samples to Dr. Jim Bogart (with permission) at the University of Guelph; 519-824-4120 (extension 58728). Copies of this form (including forms containing negative observations) must also be submitted to the authorizing MNRF District Office along with the ESA permit and WSCA report.

### Search Result (circle one): Positive PROJECT TITLE: Highway 401/6 **CONTACT INFORMATION:** Name of observer(s): Andrew Minelly Matt Ross Affiliation: Mailing Address: AECOM Canada Ltd.,105 Commerce Valley Drive West, 7<sup>th</sup> Floor, Markham, ON L3T 7W3. Canada Phone Number: 905.886.7022 Email: julie.ellis@aecom.com PROPERTY INFORMATION: Site name: <u>Po57</u> — Pond ID: <u>Pool - 09</u> Property Address: UTM Coordinates (NAD83): 5694/9 E 431147 N (NOT Lat, Long) (Do not record UTM of each minnow trap, only one coordinate per pond or road location is required) Land Ownership: □Public ☑Private ■Both LANDOWNER INFORMATION: Mailing Address:

SAMPLING INFORMATION:
Date(s) of sampling: $\frac{12/04/2019}{13/04/2019}$ (dd/mm/yyyy)
Survey Type (circle one):
Minnow Trap Cover Board Road Pitfall Trap Visual Incidental
Sample Type (circle all that apply):
Tail Tip Roadkill Larvae Egg Mass Visual Observation
Search Effort (time spent, number of minnow traps etc.):
3 Traps set for 12 hours
# of salamanders observed:
Number of Samples Taken:
# of adult tail tips: # mortalities: # of larvae:
# of larvae tail tips: # roadkills:
HABITAT INFORMATION:
Average Pond Depth (m): O.5 m
Pond Description: <u>Small pool in depression adjusent to Form and beside</u>
the 401
Terrestrial Vegetation Community Type: For 2-2 / Coult
Other amphibians observed or heard: No
Egg Attachment Sites Present: ☑Yes □No □Unknown
Suitable Hydroperiod for Breeding:
Photos Taken:
SECTION B — TO BE FILLED OUT BY DR. BOGART
Date samples received:(dd/mm/yyyy)
Condition of samples received:
JPB #(s):



Maps (Please ensure road names and UTM coordinates are clearly visible)



Wildlife Scientific Collector's Authorization # 1092051 ESA Permit # GU-B-004-18

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- All conditions as per the WSCA and ESA permits must be followed.

SECTION A - TO BE FILLED OUT BY THE COLLECTOR
Search Result (circle one): Positive Negative
PROJECT TITLE:Highway 401/6
CONTACT INFORMATION:
Name of observer(s):  Andrew Munietty, Johanna Perz  Affiliation:  Mailing Address: AECOM Canada Ltd., 105 Commerce Valley Drive West, 7 <sup>th</sup> Floor, Markham, ON L3T 7W3, Canada
Phone Number: 905.886.7022 Email: julie.ellis@aecom.com
PROPERTY INFORMATION:
Site name: P060 Pond ID: Pool-II
Property Address: CON7 FRONT IT LOT 26PT LOT 27 8UB) TO HYDRO PO
UTM Coordinates (NAD83): E N (NOT Lat, Long) 6912-810 (Do not record UTM of each minnow trap, only one coordinate per pond or road location is required)
Land Ownership: □Public ☑Private □Both
Name: John Ferraro
Mailing Address:
Last updated: January 2016 Page 1

SAMPLING INFORMATION:
Date(s) of sampling: $05/04/2019 - 06/04/2019$ (dd/mm/yyyy)
Survey Type-(circle one):
Minnow Trap Cover Board Road Pitfall Trap Visual Incidental
Sample Type (circle all that apply):
Tail-Tip Roadkill Larvae Egg Mass Visual Observation
Search Effort (time spent, number of minnow traps etc.):
12 hours, 5 track
# of salamanders observed:
Number of Samples Taken:
# of adult tail tips: # mortalities: # of larvae:
# of adult tail tips: # mortalities: # of larvae: # of larvae: # of larvae: # roadkills:
HABITAT INFORMATION:
Average Pond Depth (m):
Pond Description:
Terrestrial Vegetation Community Type: FOD 5-1
Other amphibians observed or heard: No NE
Egg Attachment Sites Present: □Ŷes □No □Unknown
Suitable Hydroperiod for Breeding:
Photos Taken:
SECTION B - TO BE FILLED OUT BY DR. BOGART
Date samples received:(dd/mm/yyyy)
Condition of samples received:
JPB #(s):



Maps (Please ensure road names and UTM coordinates are clearly visible)



Wildlife Scientific Collector's Authorization # 1092051 ESA Permit # GU-B-004-18

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SECTION A — TO BE FILLED OUT BY THE COLLECTOR
Search Result (circle one): Positive Negative
PROJECT TITLE:Highway 401/6
CONTACT INFORMATION:
Name of observer(s): Andrew Minelly, Anala Walker  Affiliation:
Mailing Address: AECOM Canada Ltd.,105 Commerce Valley Drive West, 7 <sup>th</sup> Floor,Markham, ON L3T 7W3,
CanadaPhone Number: 905.886.7022 Email: julie.ellis@aecom.com
PROPERTY INFORMATION:
Site name:Pond ID: Pool -11
Property Address: Con 7 Front PT Lot 26 PTLOT 27 SUB) TO HYDO ROW 6912-804
UTM Coordinates (NAD83): <u>569560</u> E <u>48 6914</u> N ( <b>NOT</b> Lat, Long)
(Do not record UTM of each minnow trap, only one coordinate per pond or road location is required)
Land Ownership: □Public ☑Private □Both
LANDOWNER INFORMATION:
Name: L. Ferruso In. (10 Landba Properties LTD  Mailing Address:
Mailing Address:
Last updated: January 2016 Page 1

SAMPLING INFORMATION:
Date(s) of sampling: $\frac{28/03/209}{29/03/909}$ (dd/mm/yyyy)
Survey Type (circle one):
Minnow Trap Cover Board Road Pitfall Trap Visual Incidental
Sample Type (circle all that apply):
Tail Tip Roadkill Larvae Egg Mass Visual Observation
Search Effort (time spent, number of minnow traps etc.):
4 Traps set for 12 hours
# of salamanders observed: Zero
Number of Samples Taken:
# of adult tail tips: # mortalities: # of larvae: # of la
# of larvae tail tips: # roadkills:
HABITAT INFORMATION:
Average Pond Depth (m): ~/m ->ice still on pond
Pond Description: Road on the boarder of Foods-land (UP3 forests.
Several Shrubs line the baints.
Terrestrial Vegetation Community Type: 605-1 / CUP3
Other amphibians observed or heard: No
Egg Attachment Sites Present: ☑Yes □No □Unknown
Suitable Hydroperiod for Breeding:
Photos Taken:  ☐Yes ☐No Photo #: 20196323 - 185855 +0 2019 0329 - 06525
SECTION B — TO BE FILLED OUT BY DR. BOGART
Date samples received:(dd/mm/yyyy)
Condition of samples received:
JPB #(s):



Maps (Please ensure road names and UTM coordinates are clearly visible)



Wildlife Scientific Collector's Authorization # 1092051 ESA Permit # GU-B-004-18

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SECTION A - TO BE FILLED OUT BY THE COLLECTOR

- Map 2 will be a close-up of the pond (suggested scale 1:1000).
- Pond nomenclature must be consistent for all maps and reports.
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Search Result (circle one): Positive Negative
PROJECT TITLE: Highway 401/6
CONTACT INFORMATION:
Name of observer(s): Andrew Minielly Amelia Walker
Affiliation: AE(oM
Mailing Address: AECOM Canada Ltd.,105 Commerce Valley Drive West, 7 <sup>th</sup> Floor,Markham, ON L3T 7W3,
Canada
Phone Number: 905.886.7022 Email: julie.ellis@aecom.com
PROPERTY INFORMATION:
Site name: Pond ID:
Property Address: Con 7 Front PT Lot 26 PT Lot 27 Subs to Hydro Row 6912-8
UTM Coordinates (NAD83): <u>564560</u> E <u>ปริเวยเนื</u> N ( <b>NOT</b> Lat, Long)
(Do not record UTM of each minnow trap, only one coordinate per pond or road location is required)
Land Ownership: □Public ☑Private □Both
LANDOWNER INFORMATION:
Name: L Ferraro Inc. (10 Lambda Properties LTD.
Mailing Address:
Last updated: January 2016 Page 1

SAMPLING INFORMATION:
Date(s) of sampling: $19/83/2019$ +0 30/03/2019 (dd/mm/yyyy)
Survey Type (circle one):
Minnow Trap Cover Board Road Pitfall Trap Visual Incidental
Sample Type (circle all that apply):
Tail Tip Roadkill Larvae Egg Mass Visual Observation
Search Effort (time spent, number of minnow traps etc.):
4 tryps set for 12 hours
# of salamanders observed: Zero
Number of Samples Taken:
# of adult tail tips: # mortalities: # of larvae: #
# of larvae tail tips: # roadkills:
HABITAT INFORMATION:
Average Pond Depth (m): 1-lm - ice still on Pond
Pond Description: Pand on the boarder of FODS 1 and CUPS Community.
Several shrubs line bounks, Lots of leaf litter in pand
Terrestrial Vegetation Community Type: FOS-1 / CUP3
Other amphibians observed or heard: N O
Egg Attachment Sites Present: □Yes □No □Unknown
Suitable Hydroperiod for Breeding:   No □Unknown
Photos Taken:   Wes   No Photo #: 20190329 195/01 to 20190330 06/74
SECTION B — TO BE FILLED OUT BY DR. BOGART
Date samples received:(dd/mm/yyyy)
Condition of samples received:
JPB #(s):



Maps (Please ensure road names and UTM coordinates are clearly visible)



Wildlife Scientific Collector's Authorization # 1092051 ESA Permit # GU-B-004-18

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SECTION A - TO BE FILLED OUT BY THE COLLECTOR

- Map 2 will be a close-up of the pond (suggested scale 1:1000).
- Pond nomenclature must be consistent for all maps and reports.
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Search Result (circle one): Positive Negative
PROJECT TITLE:Highway 401/6
CONTACT INFORMATION:
Name of observer(s):  Andrew Minicity Northern De Carlo  Affiliation:  Mailing Address: AECOM Canada Ltd.,105 Commerce Valley Drive West, 7 <sup>th</sup> Floor, Markham, ON L3T 7W3,  Canada
Phone Number: 905.886.7022 Email: julie.ellis@aecom.com
PROPERTY INFORMATION:
Site name: Po 60 Pond ID: Pool-II
Property Address: Con 7 Front PT Lot 26 PTLot 27 Sub to Hydro Row 6917-8104
UTM Coordinates (NAD83): S69566 E 49 (0914 N (NOT Lat, Long)  (Do not record UTM of each minnow trap, only one coordinate per pond or road location is required)
Land Ownership: □Public ☑Private □Both
LANDOWNER INFORMATION:
Name: L Ferraso Inc. (10 Lambda Properties LTD.  Mailing Address:
Last updated: January 2016 Page 1

### Wildlife Scientific Collector's Authorization # 1092051 ESA Permit # GU-B-004-18

SAMPLING INFORMATION:					
Date(s) of sampling: 67/04/2	019 /	08/04	1/2019		(dd/mm/yyyy)
Survey Type (circle one):					
Minnow Trap Cover Board	l Road	Pitfall Trap	Visual	Incidental	
Sample Type (circle all that apply):					
Tail Tip Roadkill Larvae	Egg Mass	s Visual Ob	servation		
Search Effort (time spent, number of I	•	•			
5 Trups set for 12	hours				
# of salamanders observed:					
Number of Samples Taken:			/		/
# of adult tail tips:	# mo	ortalities: 💋	, -,	# of larvae: 💆	<u> </u>
# of larvae tail tips:	# roa	ndkills:	<u> </u>	# of larvae:	
HABITAT INFORMATION:					
Average Pond Depth (m):					
Pond Description: Pond on ha	arder of	FODS-1 an	L CUPS	community.	Sevor
Shabs line banks of pon				,	
Terrestrial Vegetation Community Typ		,			
Other amphibians observed or heard:	ND				
Egg Attachment Sites Present:	☑Yes □No	□Unknow	'n		
Suitable Hydroperiod for Breeding:	☑Yes □No	□Unknow	'n		
Photos Taken:	☑Yes □No	Photo #: _	064729	to 065831	<u> </u>
SECTION B — TO BE FILLED OUT	BY DR. BO	GART			_
Date samples received:					
Condition of samples received:					
JPB #(s):					

Last updated: January 2016

Page 2



Maps (Please ensure road names and UTM coordinates are clearly visible)



### Wildlife Scientific Collector's Authorization # 1092051 ESA Permit # GU-B-004-18

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SECTION A - TO BE EILLED OUT BY THE COLLECTOR

- Map 2 will be a close-up of the pond (suggested scale 1:1000).
- Pond nomenclature must be consistent for all maps and reports.
- All conditions as per the WSCA and ESA permits must be followed.

SECTION A - TO BE TILLED GOT BY THE GOLLLOTON
Search Result (circle one): Positive Negative
PROJECT TITLE:Highway 401/6
CONTACT INFORMATION:
Name of observer(s): Andrew Mixielly Edyta Restariczyk  Affiliation: AEcom  Mailing Address: AECOM Canada Ltd., 105 Commerce Valley Drive West, 7 <sup>th</sup> Floor, Markham, ON L3T 7W3,  Canada
Phone Number: 905.886.7022 Email: julie.ellis@aecom.com
PROPERTY INFORMATION:
Site name: Pond ID: Ponl-II
Property Address: (on 7 Front PT LoT 26 PT LoT 27 Sub to Hydro Row 6912-810
UTM Coordinates (NAD83): <u>S69 S66</u> E <u>US10914</u> N ( <b>NOT</b> Lat, Long)  ( <b>Do not</b> record UTM of each minnow trap, only one coordinate per pond or road location is required)  Land Ownership: □Public □Private □Both
Name: LFerraro Inc. 1/0 Lambda Properties LTD  Mailing Address: 300 Pon Park Rd. Unit & Markham ON L3R 3A1
Last updated: January 2016 Page 1

SAMPLING INFORMATION:			
Date(s) of sampling: 13/04/2019	14/0	4/2019	(dd/mm/yyyy)
Survey Type (circle one):			
Minnow Trap Cover Board	l Road P	itfall Trap Visual	Incidental
Sample Type (circle all that apply):			
Tail Tip Roadkill Larvae	Egg Mass	Visual Observation	
Search Effort (time spent, number of			
5 maps set for 12	hows		
# of salamanders observed: 4	Faur		
Number of Samples Taken:			7547
# of adult tail tips:4_	# mort	alities: 💋	# of larvae:
# of adult tail tips:#  # of larvae tail tips:	# road	kills:	
HABITAT INFORMATION:			
Average Pond Depth (m): ~/_m			
Pond Description: Pond on how Charles lining pond. Sevent Terrestrial Vegetation Community Type	rder of F	505-1 and 1	UP3 community.
Shoubs lining pond. Sever	attachment	sites present	
Terrestrial Vegetation Community Type	e: Fobs-1 /	COP3	
Other amphibians observed or heard:	4		
Egg Attachment Sites Present:	☑Yes □No	□Unknown	
Suitable Hydroperiod for Breeding:	⊡Yes □No	□Unknown	
Photos Taken:	⊡Yes □No	Photo #: 063832	to 070212
	· · · · · · · · · · · · · · · · · · ·		
SECTION B — TO BE FILLED OUT	BY DR. BOG	ART	
Date samples received:			(dd/mm/yyyy)
Condition of samples received:			
JPB #(s):			



Maps (Please ensure road names and UTM coordinates are clearly visible)



Wildlife Scientific Collector's Authorization # 1092051 ESA Permit # GU-B-004-18

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### SECTION A - TO BE FILLED OUT BY THE COLLECTOR Positive ) Search Result (circle one): Negative PROJECT TITLE: Highway 401/6 **CONTACT INFORMATION:** Name of observer(s): Andrew Minielly Amalia Walker Mailing Address: AECOM Canada Ltd., 105 Commerce Valley Drive West, 7<sup>th</sup> Floor, Markham, ON L3T 7W3, Phone Number: 905.886.7022 Email: julie.ellis@aecom.com PROPERTY INFORMATION: Site name: 8060 Pond ID: 9001 -12 Property Address: Con 7 Front PT Lot 26 PTLot 27 sub to Hydro Rew 6812-8124 UTM Coordinates (NAD83): 569653 E 4910900 N (NOT Lat, Long) (Do not record UTM of each minnow trap, only one coordinate per pond or road location is required) MPrivate Land Ownership: □Public □Both LANDOWNER INFORMATION: Name: L Ferraro Inc C/O Lambda Properties LTD Mailing Address: 300 Don Park Rd. Unit & Markham ON L3R 3AL Last updated: January 2016 Page 1

SAMPLING INFORMATION:		
Date(s) of sampling: 23/03/2019	1 29/03/2019	(dd/mm/yyyy)
Survey Type (circle one):		
Minnow Trap Cover Board Ro	ad Pitfall Trap Visual Incidental	
Sample Type (circle all that apply):		
Tail Tip Roadkill Larvae Eg	g Mass Visual Observation	
Search Effort (time spent, number of minnov	v traps etc.):	
5 Traps Set for 12 hor	ars	
# of salamanders observed:		
Number of Samples Taken:		
# of adult tail tips:	# mortalities: # of larvae:	
# of larvae tail tips: 💋	# roadkills:	
HABITAT INFORMATION:		
Average Pond Depth (m): Im ->ice Sti	Il on pond	
Pond Description: Pond on educe of	FODS-1 forest. Adjucent to age	icultural
field. Large pard with sev	FODS-1 forest. Adjucent to agreed potential attachment sites.	
Terrestrial Vegetation Community Type:		
Other amphibians observed or heard: No		
Egg Attachment Sites Present:	s □No □Unknown	
Suitable Hydroperiod for Breeding:	s □No □Unknown	
Photos Taken:	S □No Photo #: 20180328 _191915 -to 2019	0319-07121
SECTION B — TO BE FILLED OUT BY D	R. BOGART	
Date samples received:		dd/mm/yyyy)
Condition of samples received:	***	
	*****	



Maps (Please ensure road names and UTM coordinates are clearly visible)



Last updated: January 2016

Wildlife Scientific Collector's Authorization # 1092051 ESA Permit # GU-B-004-18

Page 1

#### Instructions:

- You must complete a separate form for each pond sampled.
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- Attach two orthophotos showing the location of the pond labelled with UTM coordinates (see example provided):
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- All conditions as per the WSCA and ESA permits must be followed.

SECTION A — TO BE FILLED OUT BY	THE GOLLEGION
Search Result (circle one): Pos	sitive Negative
PROJECT TITLE:Highway 401/6	
CONTACT INFORMATION:	
	Commerce Valley Drive West, 7th Floor, Markham, ON L3T 7W3,
Canada	
Phone Number: 905.886.7022 Email: julie	.ellis@aecom.com
PROPERTY INFORMATION:	
Site name: <u>Po60</u>	Pond ID: <u>Pool -12</u>
Site name: <u>Po60</u> Property Address: <u>Con 7 Front PT</u>	Lot 26 Pt Lot 27 Sub to Hydro Row 6912-8104
Property Address: Con 7 Front PT  UTM Coordinates (NAD83): 569653	Pond ID: Pool -12  Lot 26 Pt Lot 27 Sub to Hydro Row 6912-81 04  E 4810900 N (NOT Lat, Long)  only one coordinate per pond or road location is required)
Property Address: Con 7 Front PT  UTM Coordinates (NAD83): 569653	Lot 26 Pt Lot 27 Sub to Hydro Row 6912-81 04  E 4810900 N (NOT Lat, Long)  only one coordinate per pond or road location is required)

SAMPLING INFORMATION:
Date(s) of sampling: $29/03/2019$ $30/03/2019$ (dd/mm/yyyy)
Survey Type (circle one):
Minnow Trap Cover Board Road Pitfall Trap Visual Incidental
Sample Type (circle all that apply):
Tail Tip Roadkill Larvae Egg Mass Visual Observation
Search Effort (time spent, number of minnow traps etc.):
5 trops set for 12 hours
# of salamanders observed: ZCro
Number of Samples Taken:
# of adult tail tips: # mortalities: # of larvae: #
# of larvae tail tips: # roadkills:
HABITAT INFORMATION:
Average Pond Depth (m): 10 -> 1ce Still on pond
Pond Description: Pand on edge of FODS-1 forest. Adjacent to agricultural
Field
Terrestrial Vegetation Community Type: Foos-\
Other amphibians observed or heard: No
Egg Attachment Sites Present:
Suitable Hydroperiod for Breeding:   Yes   No   Unknown
Photos Taken:
SECTION B — TO BE FILLED OUT BY DR. BOGART
Data complex received:
Date samples received:(dd/mm/yyyy)
Condition of samples received: (dd/mm/yyyy)



Maps (Please ensure road names and UTM coordinates are clearly visible)



Wildlife Scientific Collector's Authorization # 1092051 ESA Permit # GU-B-004-18

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- All conditions as per the WSCA and ESA permits must be followed.

Submit this form along with any samples to Dr. Jim Bogart (with permission) at the University of Guelph; 519-824-4120 (extension 58728). Copies of this form (including forms containing negative observations) must also be submitted to the authorizing MNRF District Office along with the ESA permit and WSCA report.

### SECTION A - TO BE FILLED OUT BY THE COLLECTOR Search Result (circle one): Positive Negative . PROJECT TITLE:\_\_\_\_Highway 401/6\_\_\_\_ **CONTACT INFORMATION:** Name of observer(s): Andrew Murelly Johanna Kerz Affiliation: Mailing Address: AECOM Canada Ltd.,105 Commerce Valley Drive West, 7th Floor, Markham, ON L3T 7W3, Phone Number: 905.886.7022 Email: julie.ellis@aecom.com PROPERTY INFORMATION: Site name: Property Address: CONT FRONT PT LUT 26 PT LUT 27 SUB) TO HYDRO ROW \_\_\_\_N (NOT Lat, Long) UTM Coordinates (NAD83): \_\_\_\_\_E (Do not record UTM of each minnow trap, only one coordinate per pond or road location is required) ☑Private Land Ownership: □Public □Both LANDOWNER INFORMATION: Name: John Ferraro Mailing Address: Last updated: January 2016 Page 1

SAMPLING INFORMATION:
Date(s) of sampling: $05/04/2019 - 06/04/2019$ (dd/mm/yyyy
Survey Type (circle one):
Minnow Trap Cover Board Road Pitfall Trap Visual Incidental
Sample Type (circle all that apply):
Tail Fip Roadkill Larvae Egg Mass Visual Observation
Search Effort (time spent, number of minnow traps etc.):
# of salamanders observed:
Number of Samples Taken:
# of adult tail tips: # mortalities: # of larvae:
# of larvae tail tips:
HABITAT INFORMATION:
Average Pond Depth (m):
Pond Description:
Terrestrial Vegetation Community Type: FOD5-1/TC
Other amphibians observed or heard:
Egg Attachment Sites Present: ☐Yes ☐No ☐Unknown
Suitable Hydroperiod for Breeding: ☐Yes ☐No ☐Unknown
Photos Taken:    Tyes   No Photo #: 1658-167)
SECTION B — TO BE FILLED OUT BY DR. BOGART
Date samples received:(dd/mm/yyyy)
Condition of samples received:
JPB #(s):



Maps (Please ensure road names and UTM coordinates are clearly visible)



Wildlife Scientific Collector's Authorization # 1092051 ESA Permit # GU-B-004-18

#### Instructions:

- You must complete a separate form for each pond sampled.
- Each form must be completed in its entirety (including permit numbers).
- Attach two orthophotos showing the location of the pond labelled with UTM coordinates (see example provided):
  - Map 1 must show the pond and local roads or features.

SECTION A - TO BE FILLED OUT BY THE COLLECTOR

- Map 2 will be a close-up of the pond (suggested scale 1:1000).
- Pond nomenclature must be consistent for all maps and reports.
- All conditions as per the WSCA and ESA permits must be followed.

Submit this form along with any samples to Dr. Jim Bogart (with permission) at the University of Guelph; 519-824-4120 (extension 58728). Copies of this form (including forms containing negative observations) must also be submitted to the authorizing MNRF District Office along with the ESA permit and WSCA report.

### Search Result (circle one): Positive Negative PROJECT TITLE: \_\_\_\_Highway 401/6\_\_\_\_\_ **CONTACT INFORMATION:** Name of observer(s): Andrew Miniety Norther De Carlo Affiliation: Mailing Address: AECOM Canada Ltd., 105 Commerce Valley Drive West, 7th Floor, Markham, ON L3T 7W3, Phone Number: 905.886.7022 Email: julie.ellis@aecom.com PROPERTY INFORMATION: Property Address: Con 7 Front PT Lot 26 PT Lot 27 Sub to Hydro UTM Coordinates (NAD83): 569653 E 486900 N (NOT Lat, Long) (Do not record UTM of each minnow trap, only one coordinate per pond or road location is required) ☑Private □Public □Both Land Ownership: LANDOWNER INFORMATION: Name: L Ferruso Inc. (10 Landba Roperties LTD Mailing Address: Page 1 Last updated: January 2016

SAMPLING INFORMATION:
Date(s) of sampling:
Survey Type (circle one):
Minnow Trap Cover Board Road Pitfall Trap Visual Incidental
Sample Type (circle all that apply):
Tail Tip Roadkill Larvae Egg Mass Visual Observation
Search Effort (time spent, number of minnow traps etc.):
7 Traps set for 12 hows
# of salamanders observed: 2 zero
Number of Samples Taken:
# of adult tail tips: # mortalities: # of larvae: # of larvae: # of larvae
# of larvae tail tips: # roadkills:
HABITAT INFORMATION:
Average Pond Depth (m): In
Pond Description: pond on edge of FODSI forest Adjacent to
courienthral field
Terrestrial Vegetation Community Type: Foo5-1
Other amphibians observed or heard: Sipring Peepers calling. Weath frey found in One trap.
Egg Attachment Sites Present: □Yes □No □Unknown
Suitable Hydroperiod for Breeding:
Photos Taken:
SECTION B — TO BE FILLED OUT BY DR. BOGART
Date samples received:(dd/mm/yyyy)
Condition of samples received:



Maps (Please ensure road names and UTM coordinates are clearly visible)



### Wildlife Scientific Collector's Authorization # 1092051 ESA Permit # GU-B-004-18

#### Instructions:

- You must complete a separate form for each pond sampled.
- Each form must be completed in its entirety (including permit numbers).
- Attach two orthophotos showing the location of the pond labelled with UTM coordinates (see example provided):
  - Map 1 must show the pond and local roads or features.

SECTION A - TO BE FILLED OUT BY THE COLLECTOR

- Map 2 will be a close-up of the pond (suggested scale 1:1000).
- Pond nomenclature must be consistent for all maps and reports.
- All conditions as per the WSCA and ESA permits must be followed.

Search Result (circle one):	Positive	Negative	ÿ.
PROJECT TITLE:Highway	401/6	· · · · · · · · · · · · · · · · · · ·	
CONTACT INFORMATION:			
Name of observer(s): Andrew Affiliation: AECOM Canada Canada Phone Number: 905.886.7022 E	Ltd.,105 Commerc	ce Valley Drive	e West, 7 <sup>th</sup> Floor,Markham, ON L3T 7W3,
PROPERTY INFORMATION:			
Site name: Po60			Pond ID: <u>Pool-12</u>
Property Address: (on 7 Fr	ont PT Lot	- 26 PT	Lot 27 sub to Hydro Roul 6812-8104
UTM Coordinates (NAD83): <u>5</u> 6	2653 E	4810 900	
Land Ownership: □Public □	☑Private □Bo	th	
		1	hem ON L3R 3AI
Last undated: January 2016			Page 1

SAMPLING INFORMATION:
Date(s) of sampling: 17/04/1019 14/04/2019 (dd/mm/yyyy
Survey Type (circle one):
Minnow Trap Cover Board Road Pitfall Trap Visual Incidental
Sample Type (circle all that apply):
Tail Tip Roadkill Larvae Egg Mass Visual Observation
Search Effort (time spent, number of minnow traps etc.):
7 traps set for 12 hours
# of salamanders observed: 6 Six
Number of Samples Taken:
# of adult tail tips: 4 mortalities: 6 # of larvae:
# of adult tail tips: # mortalities: # of larvae: # of la
HABITAT INFORMATION:
Average Pond Depth (m):
Pond Description: Pond on edge of FODS-1 forest Adjacent to
agricultural field.
Terrestrial Vegetation Community Type: Fobs-I
Other amphibians observed or heard: Spring peoples and woolflogs calling
Egg Attachment Sites Present:
Suitable Hydroperiod for Breeding:
Photos Taken:   Yes  No Photo #: 0 221 +0 074340
SECTION B — TO BE FILLED OUT BY DR. BOGART
Date samples received:(dd/mm/yyyy)
Condition of samples received:
JPB #(s):



Maps (Please ensure road names and UTM coordinates are clearly visible)



Wildlife Scientific Collector's Authorization # 1092051 ESA Permit # GU-B-004-18

#### Instructions:

- You must complete a separate form for each pond sampled.
- Each form must be completed in its entirety (including permit numbers).
- Attach two orthophotos showing the location of the pond labelled with UTM coordinates (see example provided):
  - Map 1 must show the pond and local roads or features.
  - Map 2 will be a close-up of the pond (suggested scale 1:1000).
- Pond nomenclature must be consistent for all maps and reports.
- All conditions as per the WSCA and ESA permits must be followed.

SECTION A – TO BE FILLED OUT BY THE COLLECTOR
Search Result (circle one): Positive Negative
PROJECT TITLE:Highway 401/6
CONTACT INFORMATION:
Name of observer(s): The Elis, Mana Crancot  Affiliation:  Mailing Address: AECOM Canada Ltd.,105 Commerce Valley Drive West, 7 <sup>th</sup> Floor,Markham, ON L3T 7W3,  Canada
Phone Number: 905.886.7022 Email: julie.ellis@aecom.com
PROPERTY INFORMATION:  Site name: Po 65  Pond ID: Pool 13  Property Address: Concest Pipe 267 Brack Coed
UTM Coordinates (NAD83): E N (NOT Lat, Long)  (Do not record UTM of each minnow trap, only one coordinate per pond or road location is required)
Land Ownership: □Public ☑Private □Both
Name: Mark Wetselaar Mailing Address:
Last updated: January 2016 Page 1

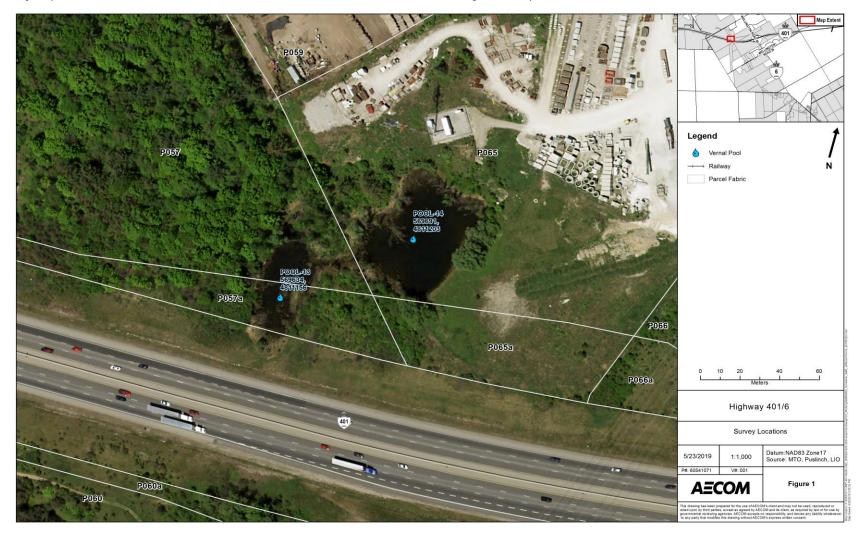
### Wildlife Scientific Collector's Authorization # 1092051 ESA Permit # GU-B-004-18

SAMPLING INFORMATION:	1		
Date(s) of sampling: Mar/14/	2019 / M	lar/15/2019	(dd/mm/yyy
Survey Type (circle one):			
Minnow Trap Cover Board	d Road P	itfall Trap Visua	Incidental
Sample Type (circle all that apply):		1, 9-m	
Tail Tip Roadkill Larvae	e Egg Mass	Visual Observation	on
Search Effort (time spent, number of	minnow traps et	tc.):	
3 draps x 12 hars-	- 400 icy	to put m	ore
# of salamanders observed:	<i>Q</i>	)	
Number of Samples Taken:	25		
# of adult tail tips:	# mort	talities:	# of larvae:
# of larvae tail tips:	# road	kills:	
HABITAT INFORMATION:			
Average Pond Depth (m):	1	I come as a	
Pond Description: Nedum SI	cod pund	, linked w	th ponder4.
surranded by Brest	· thausth	al property	to the E, Kny to the
Terrestrial Vegetation Community Ty	pe: <u>Secidua</u>	15 Frest	FOD U
Other amphibians observed or heard	:		
Egg Attachment Sites Present:	r dYes □No	□Unknown	
Suitable Hydroperiod for Breeding:	153 15	□Unknown	
Photos Taken:	⊠Yes □No	Photo #:	
	MYes □No		
SECTION B — TO BE FILLED OU	r by dr. bog	ART	
Date samples received:			
Condition of samples received:			
JPB #(s):		(49)	

Last updated: January 2016

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Last updated: January 2016

### Wildlife Scientific Collector's Authorization # 1092051 ESA Permit # GU-B-004-18

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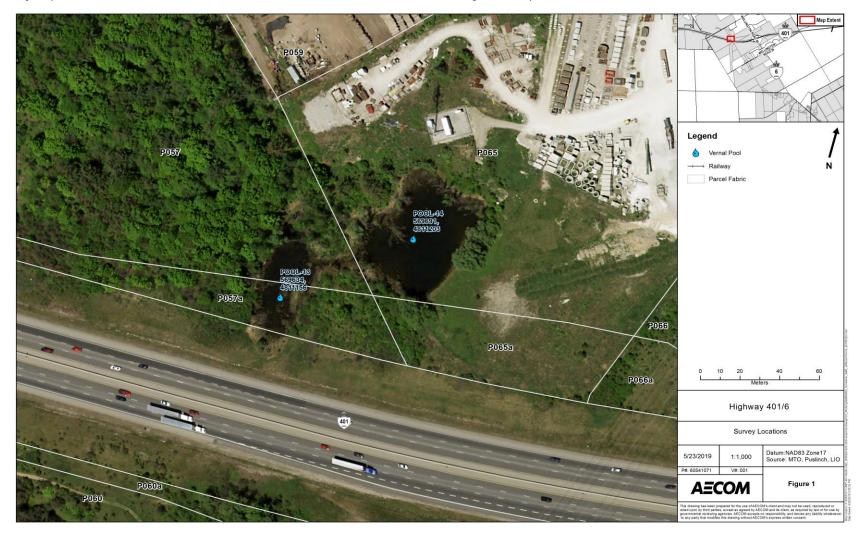
#### Instructions:

- You must complete a separate form for each pond sampled.
- Each form must be completed in its entirety (including permit numbers).
- Attach two orthophotos showing the location of the pond labelled with UTM coordinates (see example provided):
  - Map 1 must show the pond and local roads or features.
  - Map 2 will be a close-up of the pond (suggested scale 1:1000).
- Pond nomenclature must be consistent for all maps and reports.
- All conditions as per the WSCA and ESA permits must be followed.

ECTION A — TO BE FILLED OUT BY THE COLLECTOR
earch Result (circle one): Positive Negative
ROJECT TITLE:Highway 401/6
ONTACT INFORMATION:
ame of observer(s): Andrew Minielly Andrew Aberdein
filiation: AECOM
ailing Address: AECOM Canada Ltd.,105 Commerce Valley Drive West, 7 <sup>th</sup> Floor,Markham, ON L3T 7W
anada
none Number: 905.886.7022 Email: julie.ellis@aecom.com
ROPERTY INFORMATION:
te name: Po 65 / Po 65 a Pond ID: Pool 13
roperty Address: Concust Ripc 267 Brack Road
te name: Po 65 / Po 65 a Pond ID: Pool 13
te name:
roperty Address:
roperty Address: Concust Roc 267 Brock Road  TM Coordinates (NAD83): 569633 E 491154 N (NOT Lat, Long)  To not record UTM of each minnow trap, only one coordinate per pond or road location is required)  and Ownership: □Public ☑Private □Both
roperty Address: Oncust Rpc 267 Brack Road  TM Coordinates (NAD83): 569633 E 491154 N (NOT Lat, Long)  To not record UTM of each minnow trap, only one coordinate per pond or road location is required)  and Ownership: □Public ☑Private □Both  ANDOWNER INFORMATION:

SAMPLING INFORMATION:
Date(s) of sampling: March 21, 2019/March 22, 2019 (dd/mm/yyyy)
Survey Type (circle one):
Minnow Trap Cover Board Road Pitfall Trap Visual Incidental
Sample Type (circle all that apply):
Tail Tip Roadkill Larvae Egg Mass Visual Observation
Search Effort (time spent, number of minnow traps etc.):
4 Trups set for 12 hours
# of salamanders observed: Zero
Number of Samples Taken:
# of adult tail tips: # mortalities: # of larvae: #
# of larvae tail tips: # roadkills: #
HABITAT INFORMATION:
Average Pond Depth (m): 1-2m
Pond Description: Median Sized pond linked with pool 14. Surrounded
by deciduous forest industrial properties to Nand NW. highway to the SW
Terrestrial Vegetation Community Type: Fop
Other amphibians observed or heard:
Egg Attachment Sites Present:
Suitable Hydroperiod for Breeding: 🗹Yes 🗆 No 🗅 Unknown
Photos Taken:
070806, 071041, 071214, 071422, 071456, 071500, 071634, 071640, 071950, 072135,
571422, 672559 SECTION B - TO BE FILLED OUT BY DR. BOGART
Date samples received:(dd/mm/yyyy)
Condition of samples received:
JPB #(s):





### Wildlife Scientific Collector's Authorization # 1092051 ESA Permit # GU-B-004-18

#### Instructions:

- You must complete a separate form for each pond sampled.
- Each form must be completed in its entirety (including permit numbers).
- Attach two orthophotos showing the location of the pond labelled with UTM coordinates (see example provided):
  - Map 1 must show the pond and local roads or features.

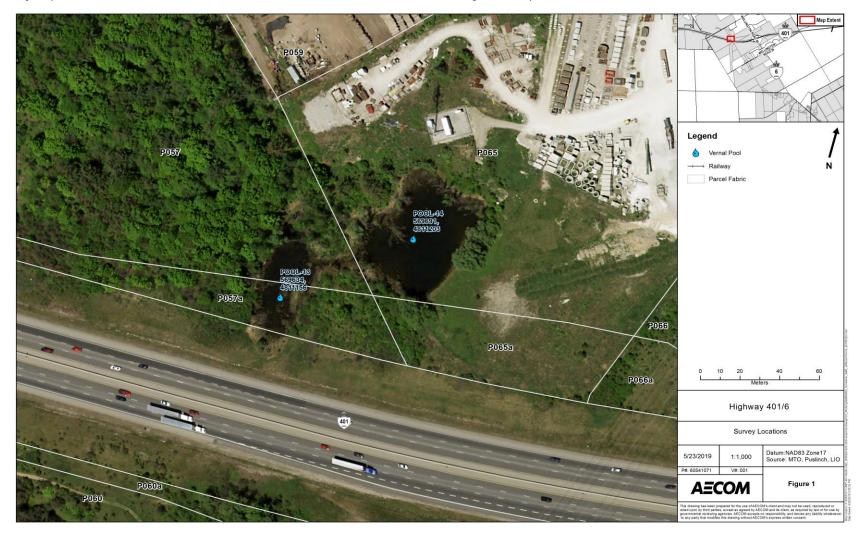
SECTION A - TO BE FILLED OUT BY THE COLLECTOR

- Map 2 will be a close-up of the pond (suggested scale 1:1000).
- Pond nomenclature must be consistent for all maps and reports.
- All conditions as per the WSCA and ESA permits must be followed.

	Search Result (circle one): Positive Negative
	PROJECT TITLE:Highway 401/6
)	CONTACT INFORMATION:
	Name of observer(s): Andrew Minielly Edylor Retariczyk  Affiliation: AEcon  Mailing Address: AECOM Canada Ltd., 105 Commerce Valley Drive West, 7 <sup>th</sup> Floor, Markham, ON L3T 7W3,  Canada
	Phone Number: 905.886.7022 Email: julie.ellis@aecom.com
	PROPERTY INFORMATION:
	Site name:Po65 / Po65 Pond ID: <u>Pool - 13</u>
	Property Address: Concust Pipe, 267 Brack Rd.
	UTM Coordinates (NAD83): 569633 E 491154 N (NOT Lat, Long) (Do not record UTM of each minnow trap, only one coordinate per pond or road location is required)
	Land Ownership: □Public □Private □Both
	Name: Mark Det Selows (PO65) / MTO Property Section (PO65a)
)	Mailing Address:
	Last updated: January 2016 Page 1

SAMPLING INFORMATION:	
Date(s) of sampling: 30/03/2019 / 31/03/2019 (dd/r	nm/yyyy)
Survey Type (circle one):	
Minnow Trap Cover Board Road Pitfall Trap Visual Incidental	
Sample Type (circle all that apply):	
Tail Tip Roadkill Larvae Egg Mass Visual Observation	
Search Effort (time spent, number of minnow traps etc.):	
6 trups set for 12 hours	
# of salamanders observed: Ø zero	
Number of Samples Taken:	
# of adult tail tips: # mortalities: # of larvae:	
# of adult tail tips: # mortalities: # of larvae: # of la	
HABITAT INFORMATION:	
Average Pond Depth (m): ~ / ~ / ~ / ~ / ~ / ~ / ~ / ~ / ~ / ~	
Pond Description: Medium Sized pond linked to Pool-14, Surrounded by FOD Community to W, industrial properties to N and NW and highway t	<i>r</i>
FOD Community to W, industrial properties to N and NW and highway t	22 50
Terrestrial Vegetation Community Type: FoD	
Other amphibians observed or heard: No	
Egg Attachment Sites Present: □Yes □No □Unknown	
Suitable Hydroperiod for Breeding: □Ýes □No □Unknown	
Photos Taken:   ✓Yes □No Photo #: 2097-2112	
SECTION B – TO BE FILLED OUT BY DR. BOGART	
Date samples received:(dd/m	m/yyyy)
Condition of samples received:	
JPB #(s):	





Wildlife Scientific Collector's Authorization # 1092051 ESA Permit # GU-B-004-18

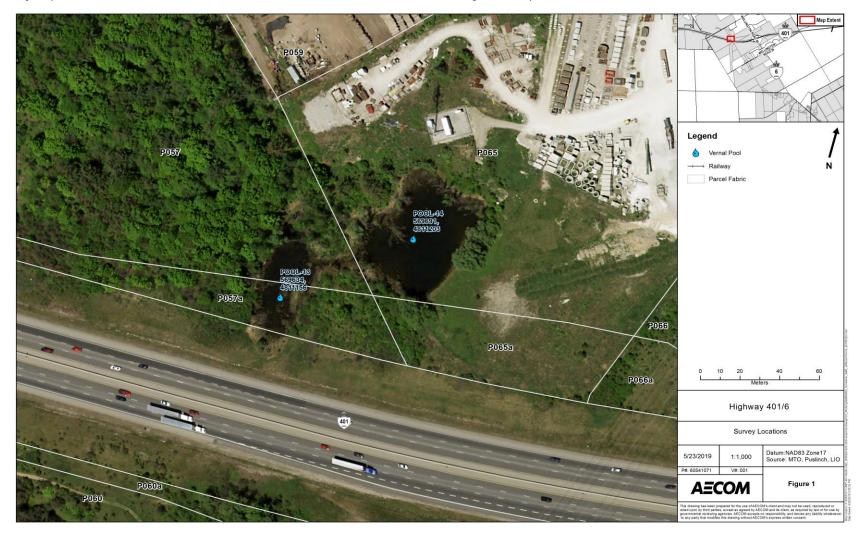
#### Instructions:

- You must complete a separate form for each pond sampled.
- Each form must be completed in its entirety (including permit numbers).
- Attach two orthophotos showing the location of the pond labelled with UTM coordinates (see example provided):
  - Map 1 must show the pond and local roads or features.
  - Map 2 will be a close-up of the pond (suggested scale 1:1000).
- Pond nomenclature must be consistent for all maps and reports.
- All conditions as per the WSCA and ESA permits must be followed.

SECTION A - TO BE FILLED OUT BY THE COLLECTOR
Search Result (circle one): Positive Negative
PROJECT TITLE:Highway 401/6
CONTACT INFORMATION:
Name of observer(s): Edyta Ratajczyk, Julie Ellis
Affiliation: AECOM
Mailing Address: AECOM Canada Ltd.,105 Commerce Valley Drive West, 7 <sup>th</sup> Floor,Markham, ON L3T 7W3,
Canada
Phone Number: 905.886.7022 Email: julie.ellis@aecom.com
PROPERTY INFORMATION:
Site name: Po 65/Po 65a Pond ID: 13  Property Address: Concast Pipe 267 Brock Road
Property Address: Concast Pipe 267 Brock Road
UTM Coordinates (NAD83): <u>569633</u> E <u>4811154</u> N ( <b>NOT</b> Lat, Long)
(Do not record UTM of each minnow trap, only one coordinate per pond or road location is required)
Land Ownership: □Public □Private □Both
Name: Marke Wetselaar (Po65) MTO Property Section (Po65a) Mailing Address:
Mailing Address:
Last updated: January 2016 Page 1

SAMPLING INFORMATION:	804/2019	
Date(s) of sampling:	9104/2019	(dd/mm/yyyy)
Survey Type (circle one):		
Minnow Trap Cover Boar	rd Road Pitfall Trap Visual Incidental	
Sample Type (circle all that apply):		
Tail Tip Roadkill Larva	e Egg Mass Visual Observation	
Search Effort (time spent, number of	minnow traps etc.):  5 minnow Traps	
# of salamanders observed:	>	
Number of Samples Taken:		_
# of adult tail tips:	# mortalities: # of larvae: _	<u> </u>
# of larvae tail tips:	# roadkills:	
Average Pond Depth (m):  Pond Description:		
•	/pe:	
Other amphibians observed or heard Egg Attachment Sites Present:	ū: ĢXes □No □Unknown	
Suitable Hydroperiod for Breeding:	/,	
Photos Taken:	-/	2-072603
Thotas Takeni	ØYes □No Photo #: <u>190511-07150</u> 2355 - 2372	, , , , , , , , , , , , , , , , , , , ,
SECTION P. TO PE SILLED OU	T BY DR. BOGART	
		(dd/mm/yyyy)
Date samples received:		





### Wildlife Scientific Collector's Authorization # 1092051 ESA Permit # GU-B-004-18

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#### Instructions:

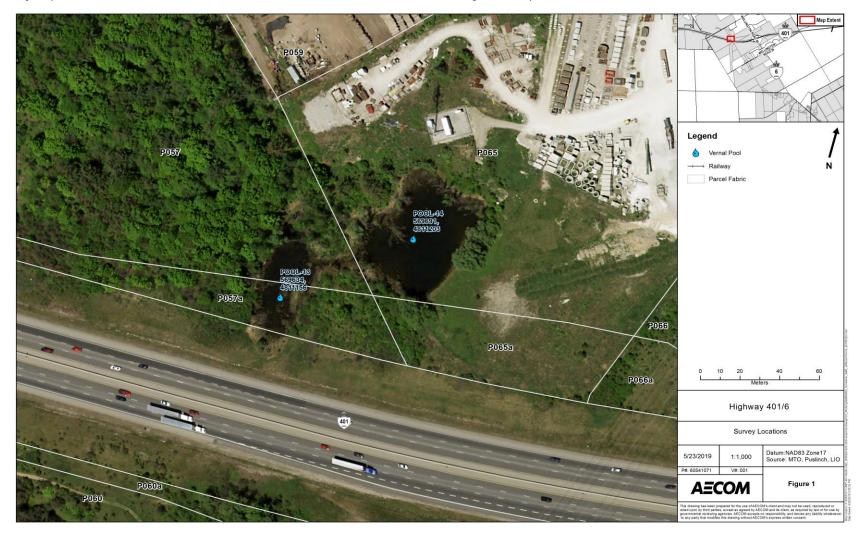
Last updated: January 2016

- You must complete a separate form for each pond sampled.
- Each form must be completed in its entirety (including permit numbers).
- Attach two orthophotos showing the location of the pond labelled with UTM coordinates (see example provided):
  - Map 1 must show the pond and local roads or features.
  - Map 2 will be a close-up of the pond (suggested scale 1:1000).
- Pond nomenclature must be consistent for all maps and reports.
- All conditions as per the WSCA and ESA permits must be followed.

SECTION A - TO BE FILLED OUT BY THE COLLECTOR
Search Result (circle one): Positive Negative
PROJECT TITLE:Highway 401/6
CONTACT INFORMATION:
Name of observer(s): Andrew Minietly Matt Ross  Affiliation: AEcom
Mailing Address: AECOM Canada Ltd.,105 Commerce Valley Drive West, 7 <sup>th</sup> Floor,Markham, ON L3T 7W3, Canada
Phone Number: 905.886.7022 Email: julie.ellis@aecom.com
PROPERTY INFORMATION:
Site name: <u>Po65 / Po65</u> Pond ID: <u>Pool 13</u>
Site name: Po65 / Po65 Po65 Pock Road  Property Address: Concost Ripe 267 Brock Road  UTM Coordinates (NAD83): 569633 E 481154 N (NOT Lat, Long)  (Do not record UTM of each minnow trap, only one coordinate per pond or road location is required)  Land Ownership: Public Private Both
Property Address: Concast Ripe 267 Brock Road  UTM Coordinates (NAD83): 569633 E 491154 N (NOT Lat, Long)  (Do not record UTM of each minnow trap, only one coordinate per pond or road location is required)  Land Ownership: Public Private Both  LANDOWNER INFORMATION:  Name: Mark Wetselage Mio Property Section (Po65a)
Property Address: Concust Ripe 267 Brock Road  UTM Coordinates (NAD83): 569633 E 491154 N (NOT Lat, Long)  (Do not record UTM of each minnow trap, only one coordinate per pond or road location is required)  Land Ownership: □Public □Private □Both

SAMPLING INFORMATION:	
Date(s) of sampling: 12/04/2019 13/04/2019	(dd/mm/yyyy)
Survey Type (circle one):	
Minnow Trap Cover Board Road Pitfall Trap Visual Incidental	
Sample Type (circle all that apply):	
Tail Tip Roadkill Larvae Egg Mass Visual Observation	
Search Effort (time spent, number of minnow traps etc.):	
6 Trups set for 12 hows	
# of salamanders observed: 200	
Number of Samples Taken:	
# of adult tail tips: # mortalities: # of larvae: #	<u>S</u>
# of larvae tail tips: # roadkills:	
HABITAT INFORMATION:	
Average Pond Depth (m): 1-2-m	
Pond Description: Medium Sized pand linked with Pool 14. Surrounded	by
Pond Description: Medium sized pond linked with Pool 14. Surrounded deciduous forest to W, industrial properties to N and NW and	huy to Sw
Terrestrial Vegetation Community Type: For	
Other amphibians observed or heard: Talpole observed in traps	======================================
Egg Attachment Sites Present:	
Suitable Hydroperiod for Breeding: ☑Yes □No □Unknown	
Photos Taken:	1
SECTION B – TO BE FILLED OUT BY DR. BOGART	
Date samples received:	(dd/mm/yyyy)
Condition of samples received:	
JPB #(s):	





Wildlife Scientific Collector's Authorization # 1092051 ESA Permit # GU-B-004-18

#### Instructions:

- You must complete a separate form for each pond sampled.
- Each form must be completed in its entirety (including permit numbers).
- Attach two orthophotos showing the location of the pond labelled with UTM coordinates (see example provided):
  - Map 1 must show the pond and local roads or features.
  - Map 2 will be a close-up of the pond (suggested scale 1:1000).
- Pond nomenclature must be consistent for all maps and reports.
- All conditions as per the WSCA and ESA permits must be followed.

SECTION A - TO BE FILLED OUT BY THE COLLECTOR
Search Result (circle one): Positive Negative
PROJECT TITLE:Highway 401/6
CONTACT INFORMATION:
Name of observer(s): Julie His Maria Canai Co
Mailing Address: AECOM Canada Ltd.,105 Commerce Valley Drive West, 7 <sup>th</sup> Floor,Markham, ON L3T 7W3, Canada
Phone Number: 905.886.7022 Email: julie.ellis@aecom.com
PROPERTY INFORMATION:
Property Address: Poloto Concast Pipe 267 Brock pd
UTM Coordinates (NAD83): E N (NOT Lat, Long)  (Do not record UTM of each minnow trap, only one coordinate per pond or road location is required)
Land Ownership: □Public ☑Private □Both
Name: Mark Wetsellar
Mailing Address:
Last updated: January 2016 Page 1

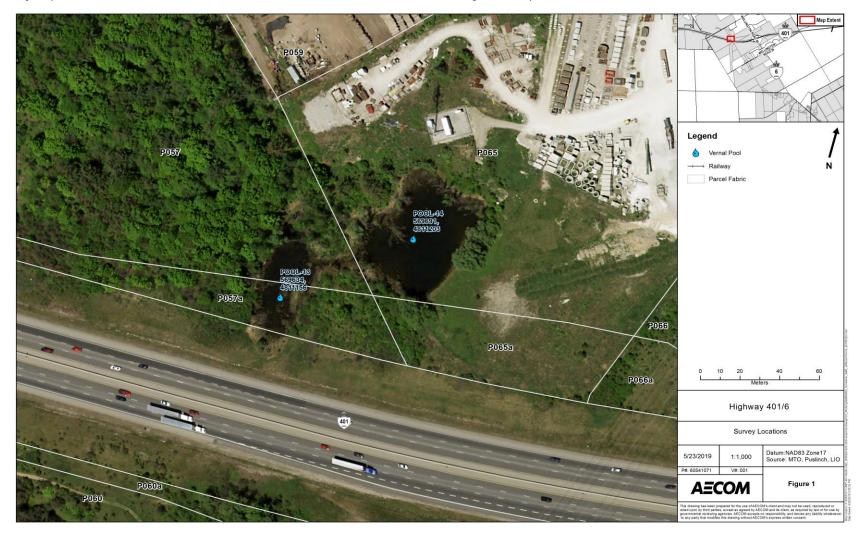
Last updated: January 2016

Wildlife Scientific Collector's Authorization # 1092051 ESA Permit # GU-B-004-18

Page 2

SAMPLING INFORMATION:
Date(s) of sampling: $\frac{3019-03-14}{2019-03-15}$ (dd/mm/yyyy)
Survey Type (circle one):
Minnow Trap Cover Board Road Pitfall Trap Visual Incidental
Sample Type (circle all that apply):
Tail Tip Roadkill Larvae Egg Mass Visual Observation
Search Effort (time spent, number of minnow traps etc.):
3 trops x 12 hours - Too 1 cy to titm
# of salamanders observed:
Number of Samples Taken:
# of adult tail tips: # mortalities: # of larvae:
# of larvae tail tips: # roadkills:
HABITAT INFORMATION:
Average Pond Depth (m)
Pond Description: larce pad, Surranded by total  O North, Industrial prop Eq high way west
Terrestrial Vegetation Community Type:
Other amphibians observed or heard:
Egg Attachment Sites Present:
Suitable Hydroperiod for Breeding:
Photos Taken:
SECTION B — TO BE FILLED OUT BY DR. BOGART
Date samples received: (dd/mm/yyyy)
Condition of samples received:
JPB #(s):





Wildlife Scientific Collector's Authorization # 1092051 ESA Permit # GU-B-004-18

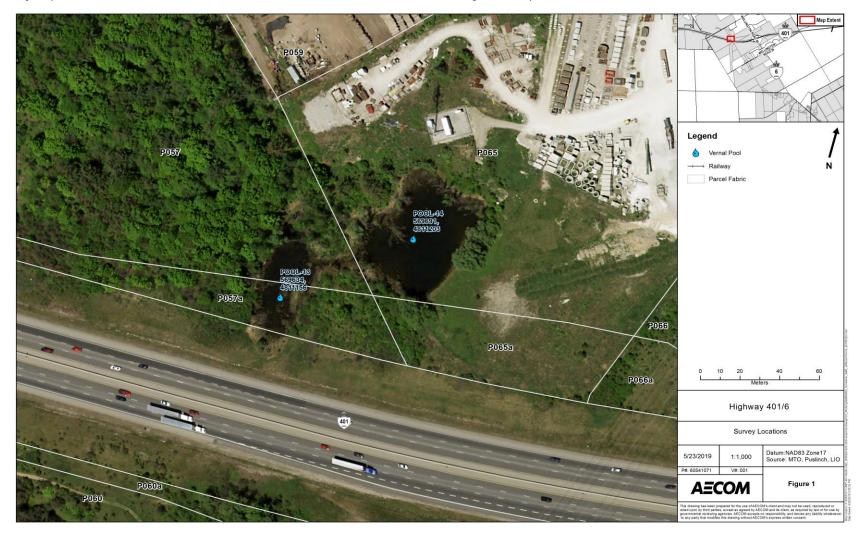
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- Each form must be completed in its entirety (including permit numbers).
- Attach two orthophotos showing the location of the pond labelled with UTM coordinates (see example provided):
  - Map 1 must show the pond and local roads or features.
  - Map 2 will be a close-up of the pond (suggested scale 1:1000).
- Pond nomenclature must be consistent for all maps and reports.
- All conditions as per the WSCA and ESA permits must be followed.

SECTION A — TO BE FILLED OUT BY THE COLLECTOR	
Search Result (circle one): Positive Negative	
PROJECT TITLE:Highway 401/6	
CONTACT INFORMATION:	
Name of observer(s): Andrew Minichy Andrew Aberdein  Affiliation: AEcon  Mailing Address: AECOM Canada Ltd., 105 Commerce Valley Drive West, 7 <sup>th</sup> Floor, Markham, ON L3T 7W3  Canada	
Phone Number: 905.886.7022 Email: julie.ellis@aecom.com	
PROPERTY INFORMATION:	
Site name: <u>Po65</u> Pond ID: <u>Pool - 14</u>	
Property Address: Loncust Ripe 267 Brack Road	
UTM Coordinates (NAD83): 569690 E 4911200 N (NOT Lat, Long)  (Do not record UTM of each minnow trap, only one coordinate per pond or road location is required)	
UTM Coordinates (NAD83): <u>569690</u> E <u>49112∞</u> N ( <b>NOT</b> Lat, Long)  ( <b>Do not</b> record UTM of each minnow trap, only one coordinate per pond or road location is required)  Land Ownership: □Public □Private □Both	
UTM Coordinates (NAD83): <u>569690</u> E <u>49.112∞</u> N ( <b>NOT</b> Lat, Long)  ( <b>Do not</b> record UTM of each minnow trap, only one coordinate per pond or road location is required)  Land Ownership: □Public □Private □Both  LANDOWNER INFORMATION:	
UTM Coordinates (NAD83): 569690 E 49.112∞ N (NOT Lat, Long)  (Do not record UTM of each minnow trap, only one coordinate per pond or road location is required)  Land Ownership: □Public □Private □Both  LANDOWNER INFORMATION:  Name:	
UTM Coordinates (NAD83): <u>569690</u> E <u>49.112∞</u> N ( <b>NOT</b> Lat, Long)  ( <b>Do not</b> record UTM of each minnow trap, only one coordinate per pond or road location is required)  Land Ownership: □Public □Private □Both  LANDOWNER INFORMATION:	

SAMPLING INFORMATION:	
Date(s) of sampling: March 21, 2	019 / March 22, 2018 (dd/mm/yyyy)
Survey Type (circle one):	
Minnow Trap Cover Board	Road Pitfall Trap Visual Incidental
Sample Type (circle all that apply):	
Tail Tip Roadkill Larvae	Egg Mass Visual Observation
Search Effort (time spent, number of r	minnow traps etc.):
Three (3) traps set	for 12 hours
# of salamanders observed:	
Number of Samples Taken:	
# of adult tail tips:	# mortalities: # of larvae: # roadkills:
# of larvae tail tips:	# roadkills:
HABITAT INFORMATION:	
Average Pond Depth (m): Am	
Pond Description: large Pond	handered by forest to the N. Industrial
property to the N an	I We highway to Sed
Terrestrial Vegetation Community Typ	
Other amphibians observed or heard:	
Egg Attachment Sites Present:	☑Ýes □No □Unknown
Suitable Hydroperiod for Breeding:	⊠Yes □No □Unknown
Photos Taken:	☑Yes □No Photo#: <u>072602 - 073511</u>
SESTION D. TO BE EUL S.	
SECTION B — TO BE FILLED OUT	BY DR. BOGART
Date samples received:	(dd/mm/yyyy)
Date samples received:	(dd/mm/yyyy)





### Wildlife Scientific Collector's Authorization # 1092051 ESA Permit # GU-B-004-18

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#### Instructions:

Last updated: January 2016

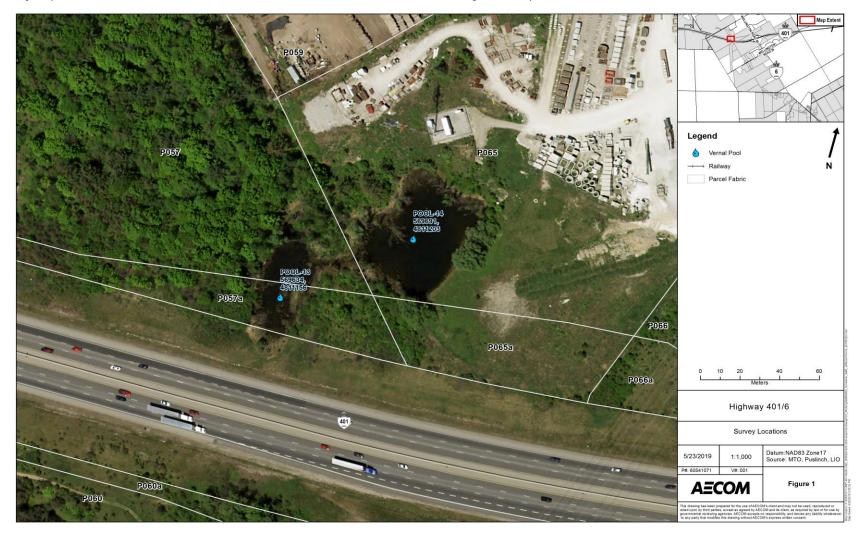
- You must complete a separate form for each pond sampled.
- Each form must be completed in its entirety (including permit numbers).
- Attach two orthophotos showing the location of the pond labelled with UTM coordinates (see example provided):
  - Map 1 must show the pond and local roads or features.
  - Map 2 will be a close-up of the pond (suggested scale 1:1000).
- Pond nomenclature must be consistent for all maps and reports.
- All conditions as per the WSCA and ESA permits must be followed.

Submit this form along with any samples to Dr. Jim Bogart (with permission) at the University of Guelph; 519-824-4120 (extension 58728). Copies of this form (including forms containing negative observations) must also be submitted to the authorizing MNRF District Office along with the ESA permit and WSCA report.

## SECTION A - TO BE FILLED OUT BY THE COLLECTOR Positive Negative Search Result (circle one): PROJECT TITLE: Highway 401/6 **CONTACT INFORMATION:** Name of observer(s): Andrew Minielly Edyta Rutajezyk Affiliation: Mailing Address: AECOM Canada Ltd., 105 Commerce Valley Drive West, 7th Floor, Markham, ON L3T 7W3, Canada Phone Number: 905.886.7022 Email: julie.ellis@aecom.com **PROPERTY INFORMATION:** Site name: \_\_\_\_\_\_ Pond ID: <u>Pool - I<sup>I</sup>I</u> Property Address: Concest pipe 267 Brack Roul UTM Coordinates (NAD83): 56%90 E 48 11200 N (NOT Lat, Long) (Do not record UTM of each minnow trap, only one coordinate per pond or road location is required) MPrivate. □Public □Both Land Ownership: LANDOWNER INFORMATION: Name: Mark Wetgelaar Mailing Address:

SAMPLING INFORMATION:
Date(s) of sampling: 30/03/2019 (dd/mm/yyyy)
Survey Type (circle one):
Minnow Trap Cover Board Road Pitfall Trap Visual Incidental
Sample Type (circle all that apply):
Tail Tip Roadkill Larvae Egg Mass Visual Observation
Search Effort (time spent, number of minnow traps etc.):
6 traps set for 12 hours
# of salamanders observed: Zero
Number of Samples Taken:
# of adult tail tips: # mortalities: # of larvae: # #
# of larvae tail tips: # roadkills: #
HABITAT INFORMATION:
Average Pond Depth (m): 1-2 m
Pond Description: Large pond bourdered by forest to the N. Indystrial property to the N and E highway to SW
property to the N and E highway to SW
Terrestrial Vegetation Community Type: Fon
Other amphibians observed or heard: No
Egg Attachment Sites Present: ☑Yes □No □Unknown
Suitable Hydroperiod for Breeding: ☐Yes ☐No ☐Unknown
Photos Taken:    Yes   No Photo #: \( \lambda \text{208} \) - \( \lambda \text{096} \)
CECTION D. TO DE EULED OUT DV DD. DOGADT
SECTION B — TO BE FILLED OUT BY DR. BOGART
Date samples received:(dd/mm/yyyy)
Condition of samples received:
JPB #(s):





Wildlife Scientific Collector's Authorization # 1092051 ESA Permit # GU-B-004-18

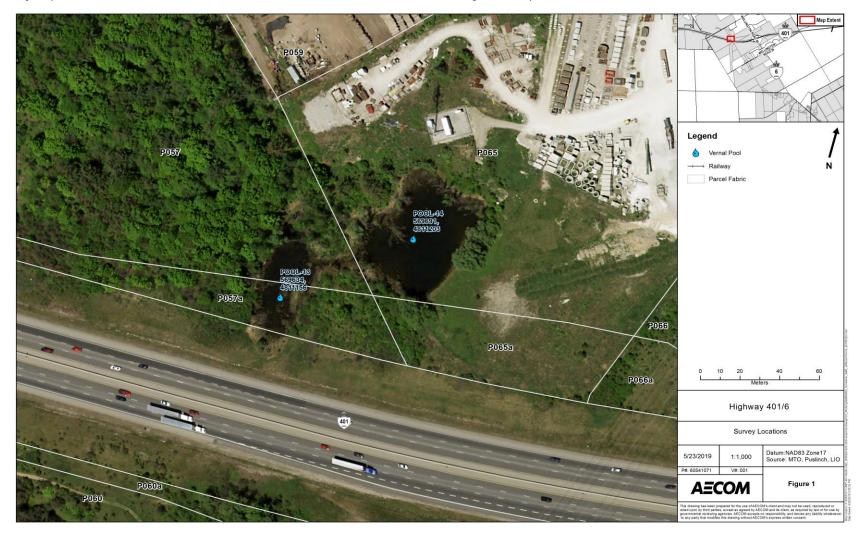
#### Instructions:

- You must complete a separate form for each pond sampled.
- Each form must be completed in its entirety (including permit numbers).
- Attach two orthophotos showing the location of the pond labelled with UTM coordinates (see example provided):
  - Map 1 must show the pond and local roads or features.
  - Map 2 will be a close-up of the pond (suggested scale 1:1000).
- Pond nomenclature must be consistent for all maps and reports.
- All conditions as per the WSCA and ESA permits must be followed.

SECTION A — TO BE FILLED OUT BY THE COLLECTOR
Search Result (circle one): Positive Negative
PROJECT TITLE:Highway 401/6
CONTACT INFORMATION:
Name of observer(s): Edyta Ratajczyk, Julie Ellis  Affiliation: AECDM
Affiliation: A ECOM
Mailing Address: AECOM Canada Ltd.,105 Commerce Valley Drive West, 7 <sup>th</sup> Floor,Markham, ON L3T 7W3,
Canada
Phone Number: 905.886.7022 Email: julie.ellis@aecom.com
PROPERTY INFORMATION:
Site name: Po65 Pond ID: 14
Property Address: Concust Pipe 267 Brock Road
Property Address: Concust Pipe 267 Brock Road  UTM Coordinates (NAD83): 569690 E 4811200 N (NOT Lat, Long)
Property Address: Concust Pipe 267 Brock Road
UTM Coordinates (NAD83): <u>569690</u> E <u>481/200</u> N (NOT Lat, Long)
Property Address: Concust Pipe 267 Brock Road  UTM Coordinates (NAD83): 569690 E 481/200 N (NOT Lat, Long)  (Do not record UTM of each minnow trap, only one coordinate per pond or road location is required)  Land Ownership: □Public □Private □Both
Property Address: Concust Pipe 267 Brock Road  UTM Coordinates (NAD83): 569690 E 481/200 N (NOT Lat, Long)  (Do not record UTM of each minnow trap, only one coordinate per pond or road location is required)  Land Ownership: □Public □Private □Both
Property Address: Concust Pipe 267 Brock Road  UTM Coordinates (NAD83): 569690 E 481/200 N (NOT Lat, Long)  (Do not record UTM of each minnow trap, only one coordinate per pond or road location is required)  Land Ownership: □Public □Private □Both
Property Address: Concust Pipe 267 Brock Road  UTM Coordinates (NAD83): 569690 E 481/200 N (NOT Lat, Long)  (Do not record UTM of each minnow trap, only one coordinate per pond or road location is required)  Land Ownership: □Public □Private □Both  LANDOWNER INFORMATION:  Name: Make Wetselaat

SAMPLING INFORMATION: 08/04/2019
Date(s) of sampling: 09/04/2019 (dd/mm/yyyy)
Survey Type (circle one):
Minnow Trap Cover Board Road Pitfall Trap Visual Incidental
Sample Type (circle all that apply):
Tail Tip Roadkill Larvae Egg Mass Visual Observation
Search Effort (time spent, number of minnow traps etc.):  12, hours, 6 minnow Traps
# of salamanders observed:
Number of Samples Taken:
# of adult tail tips: # mortalities: # of larvae:
# of larvae tail tips: # roadkills:
HABITAT INFORMATION:
Average Pond Depth (m):
Pond Description: 6 tadpoles captured
Terrestrial Vegetation Community Type:
Other amphibians observed or heard:
Egg Attachment Sites Present:
Suitable Hydroperiod for Breeding: ☐Yes ☐No ☐Unknown
Photos Taken: Photo #: <u>73020, 73022, 2373 - 23</u> 82
SECTION B — TO BE FILLED OUT BY DR. BOGART
Date samples received:(dd/mm/yyyy)
Condition of samples received:
JPB #(s):





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#### Instructions:

- You must complete a separate form for each pond sampled.
- Each form must be completed in its entirety (including permit numbers).
- Attach two orthophotos showing the location of the pond labelled with UTM coordinates (see example provided):
  - Map 1 must show the pond and local roads or features.

SECTION A - TO BE FILLED OUT BY THE COLLECTOR

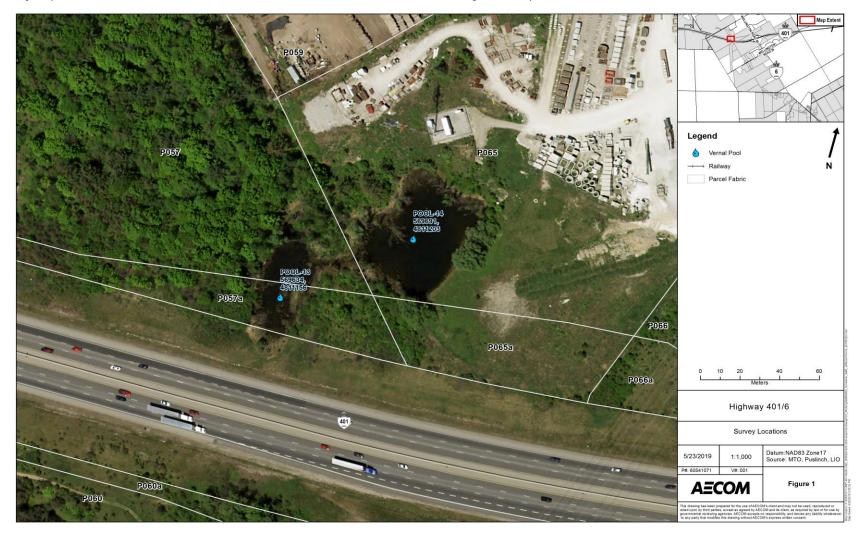
- Map 2 will be a close-up of the pond (suggested scale 1:1000).
- Pond nomenclature must be consistent for all maps and reports.
- All conditions as per the WSCA and ESA permits must be followed.

Submit this form along with any samples to Dr. Jim Bogart (with permission) at the University of Guelph; 519-824-4120 (extension 58728). Copies of this form (including forms containing negative observations) must also be submitted to the authorizing MNRF District Office along with the ESA permit and WSCA report.

## Negative Search Result (circle one): Positive PROJECT TITLE: Highway 401/6 **CONTACT INFORMATION:** Name of observer(s): Andrew Minielly Matt Ross Affiliation: Mailing Address: AECOM Canada Ltd.,105 Commerce Valley Drive West, 7<sup>th</sup> Floor,Markham, ON L3T 7W3, Phone Number: 905.886.7022 Email: julie.ellis@aecom.com PROPERTY INFORMATION: Pond ID: <u>Pool - 14</u> Site name: 7665 Property Address: Concust Pipe 267 Brack Rd. UTM Coordinates (NAD83): 56960 E 4911206 N (NOT Lat, Long) (Do not record UTM of each minnow trap, only one coordinate per pond or road location is required) ☑Private □Both Land Ownership: □Public LANDOWNER INFORMATION: Name: Mark Wetselmar Mailing Address: See above Last updated: January 2016 Page 1

SAMPLING INFORMATION:				
Date(s) of sampling: 12/04/2019 13/04/2019 (dd/mm/yyyy	)			
Survey Type (circle one):				
Minnow Trap Cover Board Road Pitfall Trap Visual Incidental				
Sample Type (circle all that apply):				
Tail Tip Roadkill Larvae Egg Mass Visual Observation				
Search Effort (time spent, number of minnow traps etc.):				
6 Traps set for 12 hours				
# of salamanders observed: Ø Zero				
Number of Samples Taken:				
# of adult tail tips: # mortalities: # of larvae: # of larvae: # roadkills:				
# of larvae tail tips: # roadkills:				
HABITAT INFORMATION:				
Average Pond Depth (m): 1/2m				
property to the N and Exhibition to Sw				
property to the N and E, highway to Sw				
Terrestrial Vegetation Community Type:				
Other amphibians observed or heard: Tudades observed in trups				
Egg Attachment Sites Present:				
Suitable Hydroperiod for Breeding: 🗆 Yes 🗆 No 🗆 Unknown				
Photos Taken: ☐Yes ☐No Photo #: <u>065433 + 0 671758</u>	60			
	-			
SECTION B — TO BE FILLED OUT BY DR. BOGART				
Date samples received:(dd/mm/yyyy)				
Condition of samples received:				
JPB #(s):				





Last updated: January 2016

Wildlife Scientific Collector's Authorization # 1092051 ESA Permit # GU-B-004-18

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#### Instructions:

- You must complete a separate form for each pond sampled.
- Each form must be completed in its entirety (including permit numbers).
- Attach two orthophotos showing the location of the pond labelled with UTM coordinates (see example provided):
  - Map 1 must show the pond and local roads or features.
  - Map 2 will be a close-up of the pond (suggested scale 1:1000).
- Pond nomenclature must be consistent for all maps and reports.
- All conditions as per the WSCA and ESA permits must be followed.

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## SECTION A - TO BE FILLED OUT BY THE COLLECTOR Search Result (circle one): Positive Negative PROJECT TITLE: \_\_\_\_ Highway 401/6\_\_\_\_ CONTACT INFORMATION: Name of observer(s): Andrew Minichy Amalia Walker Affiliation: Mailing Address: AECOM Canada Ltd., 105 Commerce Valley Drive West, 7th Floor, Markham, ON L3T 7W3, Phone Number: 905.886.7022 Email: julie.ellis@aecom.com PROPERTY INFORMATION: Property Address: Hydro One ROW Fletcher Creek Swamp/buelph UTM Coordinates (NAD83): 569833 E 4810956 N (NOT Lat, Long) (Do not record UTM of each minnow trap, only one coordinate per pond or road location is required) ☑Private □Both Land Ownership: □Public LANDOWNER INFORMATION: Name: Hydro One Networks Inc Mailing Address:

SAMPLING INFORMATION:	
Date(s) of sampling: 28/03/2019 / 29/03/2019	(dd/mm/yyyy
Survey Type (circle one):	
Minnow Trap Cover Board Road Pitfall Trap Visual Incid	ental
Sample Type (circle all that apply):	
Tail Tip Roadkill Larvae Egg Mass Visual Observation	
Search Effort (time spent, number of minnow traps etc.):	
3 trups set for 12 hours	44.
# of salamanders observed: ZCSO	
Number of Samples Taken:	91
	rvae: 💋
# of larvae tail tips: # roadkills:	
HABITAT INFORMATION:	
Average Pond Depth (m): ~ /m ->ice Still on pond	
Pond Description: 5 mall OAO surrounded by a SWD3-	4 community,
Port sits in a depression in the middle of an agricu	
Terrestrial Vegetation Community Type: 5 4034 / Agricultural Field	
Other amphibians observed or heard:	
Egg Attachment Sites Present:	
Suitable Hydroperiod for Breeding: ☐Yes ☐No ☐Unknown	
Photos Taken:   ✓Yes □No Photo #: 1010329 - 194	601 to 2010329.
SECTION B – TO BE FILLED OUT BY DR. BOGART	
	(dd/mm/yyyy)
Date samples received:	
Date samples received:  Condition of samples received:  JPB #(s):	



Maps (Please ensure road names and UTM coordinates are clearly visible)



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#### Instructions:

- You must complete a separate form for each pond sampled.
- Each form must be completed in its entirety (including permit numbers).
- Attach two orthophotos showing the location of the pond labelled with UTM coordinates (see example provided):
  - Map 1 must show the pond and local roads or features.
  - Map 2 will be a close-up of the pond (suggested scale 1:1000).
- Pond nomenclature must be consistent for all maps and reports.
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Submit this form along with any samples to Dr. Jim Bogart (with permission) at the University of Guelph; 519-824-4120 (extension 58728). Copies of this form (including forms containing negative observations) must also be submitted to the authorizing MNRF District Office along with the ESA permit and WSCA report.

## SECTION A - TO BE FILLED OUT BY THE COLLECTOR Search Result (circle one): Positive PROJECT TITLE: Highway 401/6 CONTACT INFORMATION: Name of observer(s): Andrew Minichly Amalia Walker Mailing Address: AECOM Canada Ltd.,105 Commerce Valley Drive West, 7<sup>th</sup> Floor,Markham, ON L3T 7W3, Phone Number: 905.886.7022 Email: julie.ellis@aecom.com PROPERTY INFORMATION: Site name: <u>Po 62</u> Pond ID: <u>Pool - 15</u> Property Address: Hydro One Row Fletcher (reck Sump/buelph UTM Coordinates (NAD83): 569833 E 4810956 N (NOT Lat, Long) (Do not record UTM of each minnow trap, only one coordinate per pond or road location is required) **Private** Land Ownership: □Public □Both LANDOWNER INFORMATION: Name: Hydro One Networks Inc. Mailing Address:

SAMPLING INFORMATION:	
Date(s) of sampling: 1903/2019 / 30/03/2019 (dd/mm/yy	yy)
Survey Type (circle one):	, • ,
Minnow Trap Cover Board Road Pitfall Trap Visual Incidental	
Sample Type (circle all that apply):	
Tail Tip Roadkill Larvae Egg Mass Visual Observation	
Search Effort (time spent, number of minnow traps etc.):	
3 Trups set for 12 hours	
# of salamanders observed: Ø Zero	_
Number of Samples Taken:	<b>—</b> ,;
# of adult tail tips: # mortalities: # of larvae:	
# of adult tail tips: # mortalities: # of larvae: # roadkills:	
HABITAT INFORMATION:	
Average Pond Depth (m): 1 - ice still on Pond	
Pond Description: Small of Surrainded by a Sw03-4 Community, Pond	
Pond Description: Small 0AO Surrounded by a SUD3-4 community, Pond located in an depression in agricultural field	
Terrestrial Vegetation Community Type: 5003-4 / Agricultural Field	_
Other amphibians observed or heard: No	-
Egg Attachment Sites Present: ☐Yes ☐No ☐Unknown	_
Suitable Hydroperiod for Breeding: □Yes □No □Unknown	
Photos Taken: □Yes □No Photo #: 2013-329-194517 +0 2019-033	0-07205
SECTION B – TO BE FILLED OUT BY DR. BOGART	-
Date samples received:(dd/mm/yyyy	<b>'</b> )
Condition of samples received:	•
IPB #(s):	



Maps (Please ensure road names and UTM coordinates are clearly visible)



Wildlife Scientific Collector's Authorization # 1092051 ESA Permit # GU-B-004-18

#### Instructions:

- You must complete a separate form for each pond sampled.
- Each form must be completed in its entirety (including permit numbers).
- Attach two orthophotos showing the location of the pond labelled with UTM coordinates (see example provided):
  - Map 1 must show the pond and local roads or features.
  - Map 2 will be a close-up of the pond (suggested scale 1:1000).
- Pond nomenclature must be consistent for all maps and reports.
- All conditions as per the WSCA and ESA permits must be followed.

SECTION A — TO BE FILLED OUT BY THE COLLECTOR
Search Result (circle one): Positive Negative
PROJECT TITLE:Highway 401/6
CONTACT INFORMATION:
Name of observer(s):  Affiliation:  CONTACT INFORMATION:  Andrew Minietly + Johanna Perz  Affiliation:
Affiliation:
Mailing Address: AECOM Canada Ltd.,105 Commerce Valley Drive West, 7 <sup>th</sup> Floor,Markham, ON L3T 7W3,
Canada
Phone Number: 905.886.7022 Email: julie.ellis@aecom.com
PROPERTY INFORMATION:
Site name: P662 Pond ID: POUT IS  Property Address: NA RIGHT OF WAY FLETCHER CREEK 8WAMP/GUELF
Property Address: NA RIGHT OF WAY FLETCHER CREEK 8WAMP/GUELA
UTM Coordinates (NAD83): E N (NOT Lat, Long)
(Do not record UTM of each minnow trap, only one coordinate per pond or road location is required)
Land Ownership: □Public □Private □Both
LANDOWNER INFORMATION:
Name: HYDRO ONE NETWORK INC.  Mailing Address:
Mailing Address:
Last updated: January 2016 Page 1

#### Wildlife Scientific Collector's Authorization # 1092051 ESA Permit # GU-B-004-18

SAMPLING INFORMATION:					
Date(s) of sampling:	1/2019-	06/01	1/20	19	_(dd/mm/yyyy)
Survey Type (circle one):					
Minnow Trap Cover Board	Road P	itfall Trap	Visual	Incidental	
Sample Type (circle all that apply):					
Tail Tip Roadkill Larvae	Egg Mass	Visual Obse	ervation		
Search Effort (time spent, number of n	ninnow traps e	tc.):			
# of salamanders observed:					
Number of Samples Taken:					
# of adult tail tips: 🔼	# mor	talities: 👲		# of larvae: 💍	_
# of larvae tail tips:	# road	kills:			
HABITAT INFORMATION:	<u>(</u>				
Average Pond Depth (m):				8	
Pond Description:					
	C1.5	0 41			
Terrestrial Vegetation Community Typ		3-4			
Other amphibians observed or heard:					
Egg Attachment Sites Present:	☑Yes □No	□Unknown			
Suitable Hydroperiod for Breeding:		□Unknown		1.0	
Photos Taken:	ДУes □No	Photo #:	16+2-	- 1681	
SECTION B — TO BE FILLED OUT	BY DR. BOG	ART			
Date samples received:			<u>-</u>		(dd/mm/yyyy)
Condition of samples received:					
JPB #(s):					

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Maps (Please ensure road names and UTM coordinates are clearly visible)



Wildlife Scientific Collector's Authorization # 1092051 ESA Permit # GU-B-004-18

#### Instructions:

- You must complete a separate form for each pond sampled.
- Each form must be completed in its entirety (including permit numbers).
- Attach two orthophotos showing the location of the pond labelled with UTM coordinates (see example provided):
  - Map 1 must show the pond and local roads or features.

SECTION A - TO BE FILLED OUT BY THE COLLECTOR

- Map 2 will be a close-up of the pond (suggested scale 1:1000).
- Pond nomenclature must be consistent for all maps and reports.
- All conditions as per the WSCA and ESA permits must be followed.

Search Result (circle one): Positive Negative
PROJECT TITLE:Highway 401/6
CONTACT INFORMATION:
Name of observer(s): Andrew Minielly Northern De Carlo  Affiliation: AEcon  Mailing Address: AECOM Canada Ltd., 105 Commerce Valley Drive West, 7 <sup>th</sup> Floor, Markham, ON L3T 7W3,
Canada
Phone Number: 905.886.7022 Email: julie.ellis@aecom.com
PROPERTY INFORMATION:
Site name: <u>Po62</u> Pond ID: <u>Pool-15</u>
Property Address: Hydro One ROW Fletcher (reek Swamp / Gradph  UTM Coordinates (NAD83): 569833 E 4810956 N (NOT Lat, Long)
UTM Coordinates (NAD83): 569833 E 4810956 N (NOT Lat, Long)
(Do not record UTM of each minnow trap, only one coordinate per pond or road location is required)
Land Ownership: □Public ☑Private □Both
LANDOWNER INFORMATION:
Name: Hydro One Networks Inc.
Name: Hydro One Networks Inc.  Mailing Address:
Last updated: January 2016 Page 1

### Wildlife Scientific Collector's Authorization # 1092051 ESA Permit # GU-B-004-18

SAMPLING INFORMATION:
Date(s) of sampling:
Survey Type (circle one):
Mlinnow Trap Cover Board Road Pitfall Trap Visual Incidental
Sample Type (circle all that apply):
Tail Tip Roadkill Larvae Egg Mass Visual Observation
Search Effort (time spent, number of minnow traps etc.):
5 trups set for 12 hours
# of salamanders observed: Zero
Number of Samples Taken:
# of adult tail tips: # mortalities: # of larvae:
# of larvae tail tips: # roadkills:
HABITAT INFORMATION:
Average Pond Depth (m):
Pond Description: Small AD Surrounded by a SWD3-4 community. Pond
lasted in a depression in agricultural field
Terrestrial Vegetation Community Type: 5003-4 / Agricultural field
Other amphibians observed or heard: No
Egg Attachment Sites Present:
Suitable Hydroperiod for Breeding:
Photos Taken:
SECTION B — TO BE FILLED OUT BY DR. BOGART
Date samples received:(dd/mm/yyyy)
Condition of samples received:
JPB #(s):

Last updated: January 2016

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Maps (Please ensure road names and UTM coordinates are clearly visible)



Wildlife Scientific Collector's Authorization # 1092051 ESA Permit # GU-B-004-18

#### Instructions:

- You must complete a separate form for each pond sampled.
- Each form must be completed in its entirety (including permit numbers).
- Attach two orthophotos showing the location of the pond labelled with UTM coordinates (see example provided):
  - Map 1 must show the pond and local roads or features.
  - Map 2 will be a close-up of the pond (suggested scale 1:1000).
- Pond nomenclature must be consistent for all maps and reports.
- All conditions as per the WSCA and ESA permits must be followed.

Submit this form along with any samples to Dr. Jim Bogart (with permission) at the University of Guelph; 519-824-4120 (extension 58728). Copies of this form (including forms containing negative observations) must also be submitted to the authorizing MNRF District Office along with the ESA permit and WSCA report.

## SECTION A - TO BE FILLED OUT BY THE COLLECTOR Search Result (circle one): Positive Negative PROJECT TITLE: Highway 401/6\_\_\_\_ **CONTACT INFORMATION:** Name of observer(s): Andrew Minely Edytor Rata; Czyk Affiliation: Mailing Address: AECOM Canada Ltd., 105 Commerce Valley Drive West, 7th Floor, Markham, ON L3T 7W3, Canada Phone Number: 905.886.7022 Email: julie.eilis@aecom.com PROPERTY INFORMATION: Site name: Po62 Property Address: Hydro one Row Fletcher Creek Gramp/Guelph UTM Coordinates (NAD83): 569 \$33 E 48 6956 N (NOT Lat, Long) (**Do not** record UTM of each minnow trap, only one coordinate per pond or road location is required) ☑Private □Public □Both Land Ownership: LANDOWNER INFORMATION: Name: Hydro one Networks Inc. Mailing Address: Last updated: January 2016 Page 1

SAMPLING INFORMATION:		
Date(s) of sampling: 13/04/2015	14/04/2019	(dd/mm/yyyy)
Survey Type (circle one):		
Minnow Trap Cover Board	Road Pitfall Trap Visual Incidental	
Sample Type (circle all that apply):		
Tail Tip Roadkill Larvae	Egg Mass Visual Observation	
Search Effort (time spent, number of n	ninnow traps etc.):	
5 trups set for 12	hours	
# of salamanders observed:	200	
Number of Samples Taken:	/	
# of adult tail tips:	# mortalities: # of larvae: 💆	<u>8</u>
# of larvae tail tips:	# roadkills:	
HABITAT INFORMATION:		
Average Pond Depth (m): 1/m		
Pond Description: Small of O	Surrounded by a SWD3-4 Commun	nity . 12001
located in adepression	in agricultur I field.	f)
Terrestrial Vegetation Community Typ	e: SWD3-4 / Agricultural field.	
Other amphibians observed or heard:	NO	
Egg Attachment Sites Present:	☑Yes □No □Unknown	
Suitable Hydroperiod for Breeding:	☐Yes ☐No ☐Unknown	
Photos Taken:	☐Yes ☐No Photo #: 075020 to 08010	6
SECTION B — TO BE FILLED OUT	BY DR. BOGART	
Date samples received:		_ (dd/mm/yyyy)
JPB #(s):		



Maps (Please ensure road names and UTM coordinates are clearly visible)



Wildlife Scientific Collector's Authorization # 1092051 ESA Permit # GU-B-004-18

#### Instructions:

- You must complete a separate form for each pond sampled.
- Each form must be completed in its entirety (including permit numbers).
- Attach two orthophotos showing the location of the pond labelled with UTM coordinates (see example provided):
  - Map 1 must show the pond and local roads or features.
  - Map 2 will be a close-up of the pond (suggested scale 1:1000).
- Pond nomenclature must be consistent for all maps and reports.
- All conditions as per the WSCA and ESA permits must be followed.

		LECTOR	
Search Result (circle one):	Positive	Negative	
PROJECT TITLE:Highway	401/6		
CONTACT INFORMATION:			
Name of observer(s): Johanna Affiliation:	nc Perz + 1	Matthew Ross	
Canada			7W3,
Phone Number: 905.886.7022 E	mail: julie.ellis@aecom	<u>i.com</u>	
Property Address: MA Can	7 frest P+ /s	pond ID: Pool-16 ot 28 TGTHR WILL ROW	
UTM Coordinates (NAD83):	E	N (NOT Lat, Long) 43, oordinate per pond or road location is required	4466 D
(DO HOL TECOTO O TIVI OF EACH HIIIII			- ,
	☑Private □Both		
Land Ownership:     Public	n (Tenant)		1 Con



SAMPLING INFORMATION:
Date(s) of sampling: March 22, 2019 (dd/mm/yyyy)
Survey Type (circle one):
Minnow Trap Cover Board Road Pitfall Trap Visual Incidental
Sample Type (circle-all that apply):
Tail-Tip Roadkill Larvae Egg Mass Visual Observation
Search Effort (time spent, number of minnow traps etc.):
# of salamanders observed:
Number of Samples Taken:
# of adult tail tips: # mortalities: # of larvae:
# of larvae tail tips: # roadkills:
HABITAT INFORMATION:
Average Pond Depth (m):
Pond Description: vernal pool within decidvous foiest dominated
Pond Description: <u>Vernal pool within decideous forest dominated</u> by sugar maple + beech
Terrestrial Vegetation Community Type: FOD
Other amphibians observed or heard: None
Egg Attachment Sites Present:
Suitable Hydroperiod for Breeding:
Photos Taken:
SECTION B – TO BE FILLED OUT BY DR. BOGART
Date samples received: (dd/mm/yyyy)
Condition of samples received:
JPB #(s):



Maps (Please ensure road names and UTM coordinates are clearly visible)



Wildlife Scientific Collector's Authorization # 1092051 ESA Permit # GU-B-004-18

#### Instructions:

- You must complete a separate form for each pond sampled.
- Each form must be completed in its entirety (including permit numbers).
- Attach two orthophotos showing the location of the pond labelled with UTM coordinates (see example provided):
  - Map 1 must show the pond and local roads or features.
  - Map 2 will be a close-up of the pond (suggested scale 1:1000).
- Pond nomenclature must be consistent for all maps and reports.
- All conditions as per the WSCA and ESA permits must be followed.

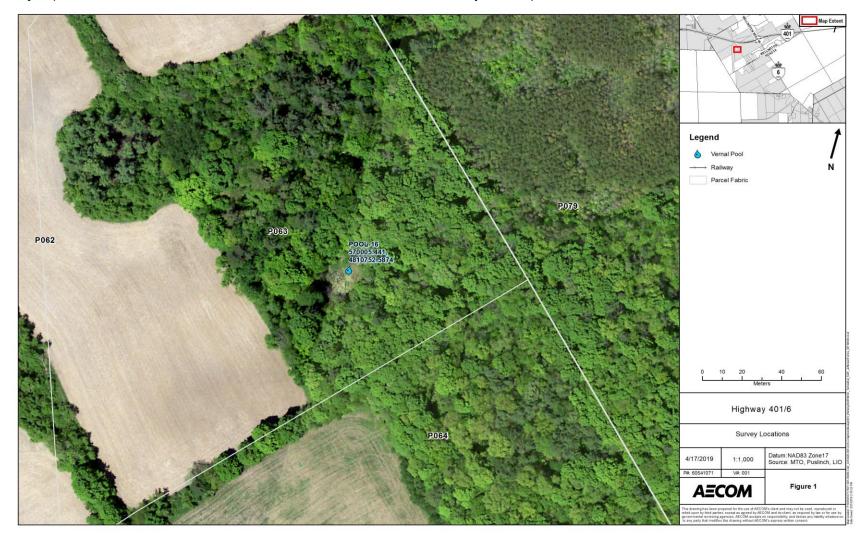
SECTION A - TO BE FILLED OUT BY THE COLLECTOR
Search Result (circle one): Positive Negative
PROJECT TITLE:Highway 401/6
CONTACT INFORMATION:
Name of observer(s): Matt Ross, Andrew Aberdein  Affiliation: AECOM
Mailing Address: AECOM Canada Ltd.,105 Commerce Valley Drive West, 7 <sup>th</sup> Floor,Markham, ON L3T 7W3,
Canada
Phone Number: 905.886.7022 Email: julie.ellis@aecom.com
PROPERTY INFORMATION:
Site name:Pold ID:
Property Address: Con7 Front Pt. Lot 28 TG THR With Row
UTM Coordinates (NAD83): <u>570009</u> E <u>4810744</u> N ( <b>NOT</b> Lat, Long)
(Do not record UTM of each minnow trap, only one coordinate per pond or road location is required)
Land Ownership: □Public □Frivate □Both
LANDOWNER INFORMATION:
Name: Hydro One Networks Inc.  Mailing Address:
Mailing Address:
Last updated: January 2016 Page 1



SAMPLING INFORMATION:
Date(s) of sampling: March 30/2019 (dd/mm/yyyy)
Survey Type (circle one):
Minnow Trap Cover Board Road Pitfall Trap Visual Incidental
Sample Type (circle all that apply):
Tail Tip Roadkill Larvae Egg Mass Visual Observation
Search Effort (time spent, number of minnow traps etc.):  4 traps   12 lbs  # of salamanders observed:
Number of Samples Taken:
# of adult tail tips: # of larvae:
# of larvae tail tips: # roadkills:
HABITAT INFORMATION:
Average Pond Depth (m): Pond Description:Pond FOD
Terrestrial Vegetation Community Type: Sugar Made - Beech Decidured Forest
Other amphibians observed or heard:
Egg Attachment Sites Present: □Yes □No □Unknown
Suitable Hydroperiod for Breeding: 🗓Yes 🗆No 🗅Unknown
Photos Taken:
SECTION B — TO BE FILLED OUT BY DR. BOGART
Date samples received: (dd/mm/yyyy)
Condition of samples received:
JPB #(s):



## Maps (Please ensure road names and UTM coordinates are clearly visible)



Wildlife Scientific Collector's Authorization # 1092051 ESA Permit # GU-B-004-18

Page 1

#### Instructions:

Last updated: January 2016

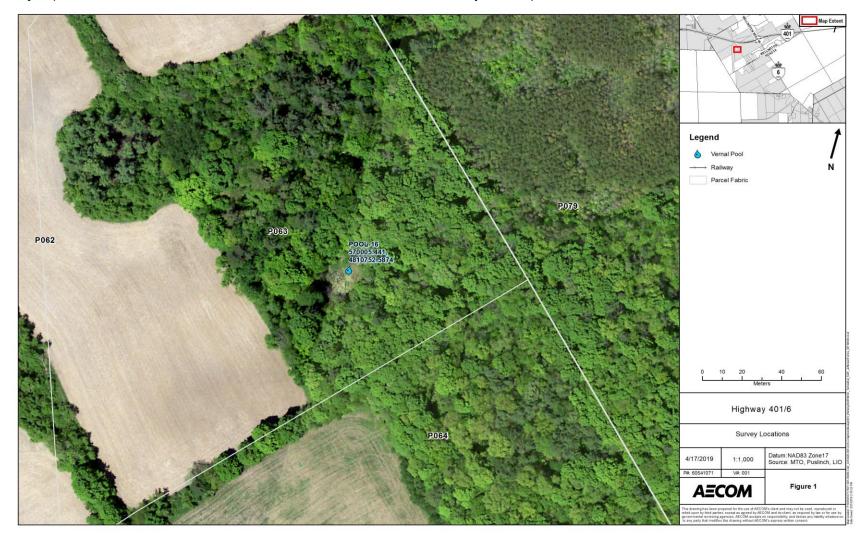
- You must complete a separate form for each pond sampled.
- Each form must be completed in its entirety (including permit numbers).
- Attach two orthophotos showing the location of the pond labelled with UTM coordinates (see example provided):
  - Map 1 must show the pond and local roads or features.
  - Map 2 will be a close-up of the pond (suggested scale 1:1000).
- Pond nomenclature must be consistent for all maps and reports.
- All conditions as per the WSCA and ESA permits must be followed.

SECTION A - TO BE FILLED OUT BY THE COLLECTOR
Search Result (circle one): Positive Negative
PROJECT TITLE:Highway 401/6
CONTACT INFORMATION:
Name of observer(s): Edyta Ratafcz YK, Olga Hropach AECOM
Mailing Address: AECOM Canada Ltd.,105 Commerce Valley Drive West, 7 <sup>th</sup> Floor,Markham, ON L3T 7W3,
Canada
Phone Number: 905.886.7022 Email: julie.ellis@aecom.com
PROPERTY INFORMATION:
Site name: P063 Pond ID: 16
Property Address: N/A Con7 front Pt Lot 28 T G THR with Row
Site name: P063  Property Address: N/A Con7 front Pt Lot 28 T GTHR with Row  UTM Coordinates (NAD83): 570009 E 4810744 N (NOT Lat, Long)
Site name: P063  Property Address: N/A Cou 7 front Pt Lot 28 T GTHR with Row  UTM Coordinates (NAD83): 570009 E 4810744 N (NOT Lat, Long)  (Do not record UTM of each minnow trap, only one coordinate per pond or road location is required)
(Do not record UTM of each minnow trap, only one coordinate per pond or road location is required)  Land Ownership: □Public □Private □Both  LANDOWNER INFORMATION:
( <b>Do not</b> record UTM of each minnow trap, only one coordinate per pond or road location is required)  Land Ownership: □Public □Private □Both
(Do not record UTM of each minnow trap, only one coordinate per pond or road location is required)  Land Ownership: □Public □Private □Both  LANDOWNER INFORMATION:

SAMPLING INFORMATION:
Date(s) of sampling: $06/04/2077 - 02/04/2017$ (dd/mm/yyyy
Survey Type (circle one):
Minnow Trap Cover Board Road Pitfall Trap Visual Incidental
Sample Type (circle all-that apply):
Tail Tip Roadkill Larvae Egg Mass Visual Observation
Search Effort (time spent, number of minnow traps etc.):  1 1 1 1 5 MINNOW Traps  # of salamanders observed:
Number of Samples Taken:
# of adult tail tips: # mortalities: # of larvae:
# of larvae tail tips: # roadkills:
HABITAT INFORMATION:
Average Pond Depth (m):
Pond Description: 5th previous
Terrestrial Vegetation Community Type:
Other amphibians observed or heard:
Egg Attachment Sites Present:
Suitable Hydroperiod for Breeding: DYes DNo DUnknown
Photos Taken:     Description
SECTION B — TO BE FILLED OUT BY DR. BOGART
Date samples received:(dd/mm/yyyy)
Condition of samples received:
JPB #(s):



## Maps (Please ensure road names and UTM coordinates are clearly visible)



#### Wildlife Scientific Collector's Authorization # 1092051 ESA Permit # GU-B-004-18

#### Instructions:

- You must complete a separate form for each pond sampled.
- Each form must be completed in its entirety (including permit numbers).
- Attach two orthophotos showing the location of the pond labelled with UTM coordinates (see example provided):
  - Map 1 must show the pond and local roads or features.

SECTION A - TO BE FILLED OUT BY THE COLLECTOR

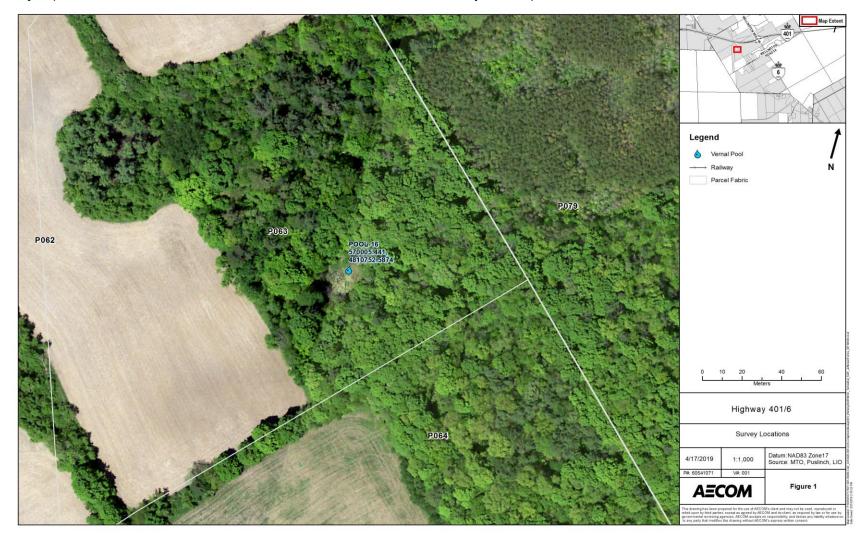
- Map 2 will be a close-up of the pond (suggested scale 1:1000).
- Pond nomenclature must be consistent for all maps and reports.
- All conditions as per the WSCA and ESA permits must be followed.

Search Result (circle one): Positive Negative
PROJECT TITLE:Highway 401/6
CONTACT INFORMATION:
Name of observer(s): Johanna Perz and Maria Ciancio
Affiliation: AECOM
Mailing Address: AECOM Canada Ltd.,105 Commerce Valley Drive West, 7 <sup>th</sup> Floor,Markham, ON L3T 7W3,
Canada
Phone Number: 905.886.7022 Email: julie.ellis@aecom.com
PROPERTY INFORMATION:
Site name: Pool = 16 Pool = 16
Property Address: Con 7 FRONT PT LOT 28 TOTI-IR WITH ROW
UTM Coordinates (NAD83): <u>570005</u> E <u>4810752</u> N ( <b>NOT</b> Lat, Long)
(Do not record UTM of each minnow trap, only one coordinate per pond or road location is required)
Land Ownership: □Public □Private □Both
LANDOWNER INFORMATION:
Name: Hydro one networks Inc.
Mailing Address:
Last updated: January 2016 Page 1

SAMPLING INFORMATION:
Date(s) of sampling: $08/04/2019 - 09/04/2019$ (dd/mm/yyyy)
Survey Type (circle one):
Minnow Trap Cover Board Road Pitfall Trap Visual Incidental
Sample Type (circle all that apply):
Tail Tip Roadkill Larvae Egg Mass Visual Observation
Search Effort (time spent, number of minnow traps etc.):  5 traps, 12 hours
# of salamanders observed: 2 1wo
Number of Samples Taken:
# of adult tail tips: # mortalities: # of larvae:
# of larvae tail tips: # roadkills:
HABITAT INFORMATION:
Average Pond Depth (m): $\sqrt{\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ }$
Pond Description: Vernal pool within deciderars forest dominated by
Sugar Maple and beech
Terrestrial Vegetation Community Type: FOD5-1
Other amphibians observed or heard: NONE
Egg Attachment Sites Present: ☐Yes ☐No ☐Unknown
Suitable Hydroperiod for Breeding: ☐Yes ☐No ☐Unknown
Photos Taken:   Photos Taken:
SECTION B – TO BE FILLED OUT BY DR. BOGART
Date samples received:(dd/mm/yyyy)
Condition of samples received:
JPB #(s):



## Maps (Please ensure road names and UTM coordinates are clearly visible)



#### Wildlife Scientific Collector's Authorization # 1092051 ESA Permit # GU-B-004-18

#### Instructions:

- You must complete a separate form for each pond sampled.
- Each form must be completed in its entirety (including permit numbers).
- Attach two orthophotos showing the location of the pond labelled with UTM coordinates (see example provided):
  - Map 1 must show the pond and local roads or features.

SECTION A - TO BE FILLED OUT BY THE COLLECTOR

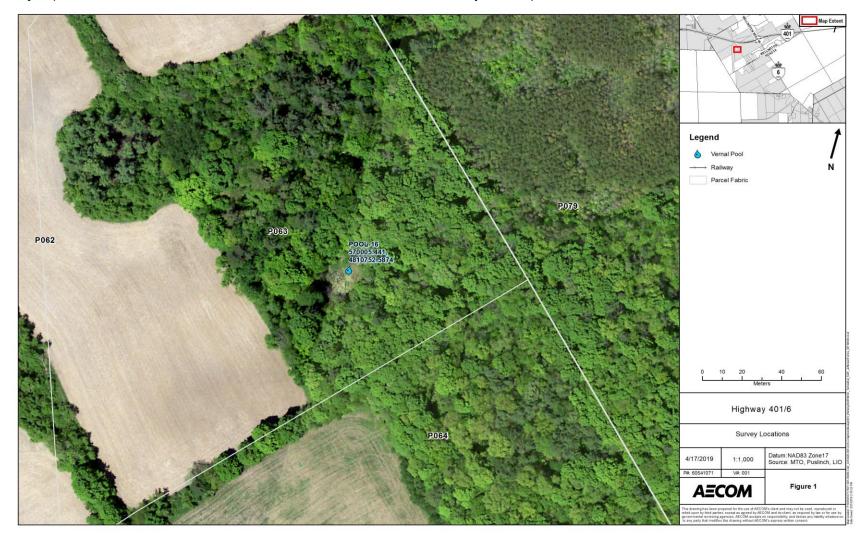
- Map 2 will be a close-up of the pond (suggested scale 1:1000).
- Pond nomenclature must be consistent for all maps and reports.
- All conditions as per the WSCA and ESA permits must be followed.

Search Result (circle one):	Positive	Negative
PROJECT TITLE:High	hway 401/6	_
CONTACT INFORMATION		
Name of observer(s): <u>JC</u>	hanna Perz	& Julie Ellis
Mailing Address: AECOM Ca	anada Ltd.,105 Commerce V	/alley Drive West, 7 <sup>th</sup> Floor,Markham, ON L3T 7W3,
Canada Phone Number: 905.886.702		
PROPERTY INFORMATION		
Site name: P063		
Property Address:	7 Front PT	lot as TGTHR W ROW
	•	N (NOT Lat, Long) ordinate per pond or road location is required)
Land Ownership: □Public	c ⊠Private □Both	_
Name: Hydro		S Inc.
Mailing Address:	<del></del>	
Last updated: January 2016		Page 1

SAMPLING INFORMATION:
Date(s) of sampling: $\frac{\Delta pr_1}{4} = \frac{10,2019}{2019}$ (dd/mm/yyyy)
Survey Type (circle one):
Minnow Trap Cover Board Road Pitfall Trap Visual Incidental
Sample Type (circle all that apply):
Tail Tip Roadkill Larvae Egg Mass Visual Observation
Search Effort (time spent, number of minnow traps etc.):
6 traps x 12 hours
# of salamanders observed:
Number of Samples Taken:
# of adult tail tips: # mortalities: # of larvae:
# of larvae tail tips: # roadkills:
HABITAT INFORMATION:
Average Pond Depth (m):
Pond Description: See Drevious forms
· · · · · · · · · · · · · · · · · · ·
Terrestrial Vegetation Community Type: FODS-
Other amphibians observed or heard: N COP
Egg Attachment Sites Present: □Yes □No □Unknown
Suitable Hydroperiod for Breeding:   Yes   No   Unknown
Photos Taken:
SECTION B — TO BE FILLED OUT BY DR. BOGART
Date samples received:(dd/mm/yyyy)
Condition of samples received:
JPB #(s):



## Maps (Please ensure road names and UTM coordinates are clearly visible)



Wildlife Scientific Collector's Authorization # 1092051 ESA Permit # GU-B-004-18

#### Instructions:

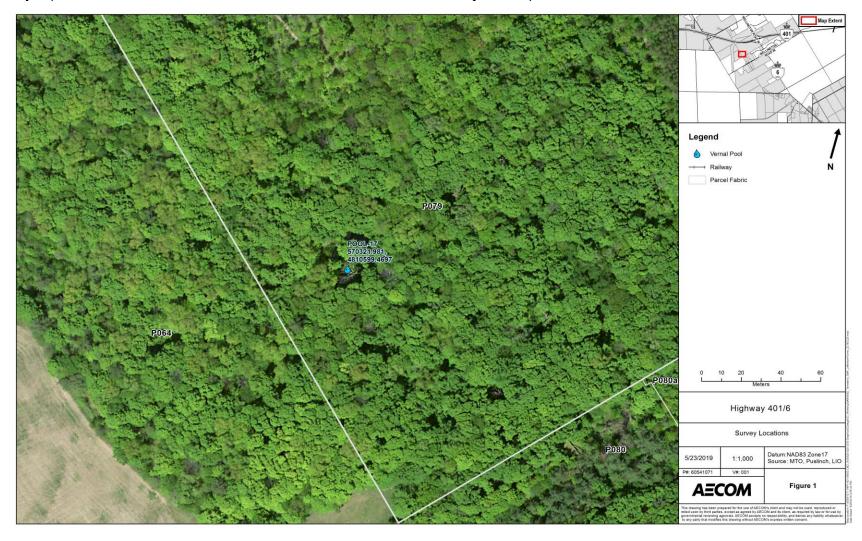
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- All conditions as per the WSCA and ESA permits must be followed.

Toport.	
SECTION A - TO BE FILLED OUT BY THE COLLECTOR	
Search Result (circle one): Positive Negative	
PROJECT TITLE:Highway 401/6	
CONTACT INFORMATION:	
Name of observer(s): Matt Ross Johanna Perz  Affiliation:  AECOM	
Mailing Address: AECOM Canada Ltd.,105 Commerce Valley Drive We Canada	
Phone Number: 905.886.7022 Email: julie.ellis@aecom.com	
PROPERTY INFORMATION:	
Site name: P879	Pond ID: Pool 17
Property Address: NA Con 7 Pt Lots 28 and	29 RP 61R 1368 Parts Land 2
UTM Coordinates (NAD83): E [Name = 1.5]  (Do not record UTM of each minnow trap, only one coordinate per po	
Land Ownership: ☐Public ☐Private ☐Both	
LANDOWNER INFORMATION:	
Name: Susan McKan (MTO)	
Mailing Address:	.6: 11.3
Last updated: January 2016	Page 1

SAMPLING INFORMATION:	
Date(s) of sampling: March 22, 2019	(dd/mm/yyyy)
Survey Type (circle one):	
Minnow Trap Cover Board Road Pitfall Trap Visual Incidental	
Sample Type (circle all that apply):	
Tail Tip Roadkill Larvae Egg Mass Visual Observation	
Search Effort (time spent, number of minnow traps etc.):	
# of salamanders observed:	
Number of Samples Taken:	namental district
# of adult tail tips: # mortalities: # of larvae:	_
# of larvae tail tips: # roadkills:	
HABITAT INFORMATION:	
Average Pond Depth (m):/_	
Pond Description: Vernal fool within FOD	
Terrestrial Vegetation Community Type: LoD	
Other amphibians observed or heard:	
Egg Attachment Sites Present: ☐Yes ☐No ☐Unknown	
Suitable Hydroperiod for Breeding: ☐Yes ☐No ☐Unknown	
Photos Taken:	
SECTION B — TO BE FILLED OUT BY DR. BOGART	
Date samples received:(	dd/mm/yyyy)
Condition of samples received:	
JPB #(s):	



Maps (Please ensure road names and UTM coordinates are clearly visible)



Wildlife Scientific Collector's Authorization # 1092051 ESA Permit # GU-B-004-18

#### Instructions:

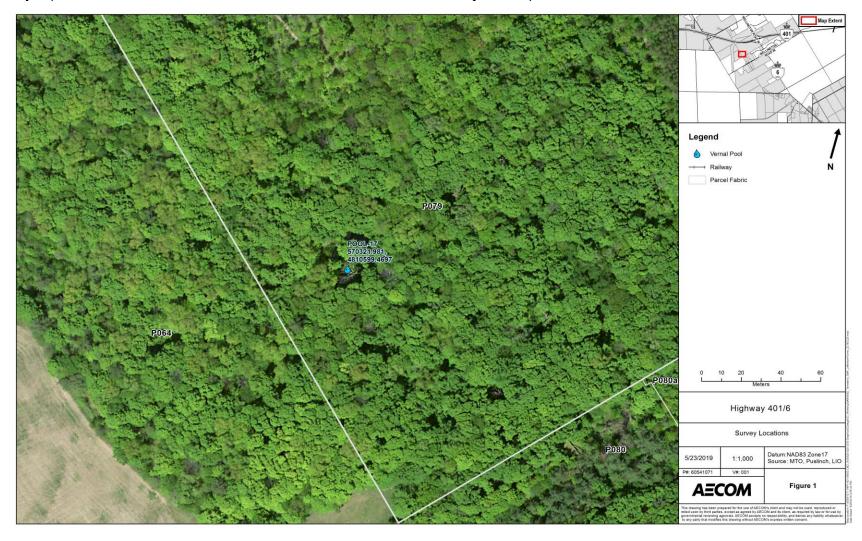
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ation is required)
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Page 1

SAMPLING INFORMATION:
Date(s) of sampling: $\frac{March 30/2619}{(dd/mm/yyyy)}$
Survey Type (circle one):
Minnow Trap Cover Board Road Pitfall Trap Visual Incidental
Sample Type (circle all that apply):
Tail Tip Roadkill Larvae Egg Mass Visual Observation
Search Effort (time spent, number of minnow traps etc.):  4 + rays 12 hours
# of salamanders observed:
Number of Samples Taken:
# of adult tail tips: # mortalities: # of larvae: # roadkills:
# of larvae tail tips: / # roadkills: /
HABITAT INFORMATION:
Average Pond Depth (m):
Pond Description: Pond stanted within FOD
Terrestrial Vegetation Community Type: Sugar Maple-Deed Decideral Forest
Other amphibians observed or heard:
Egg Attachment Sites Present:
Suitable Hydroperiod for Breeding:
Photos Taken:
19 4033
SECTION B – TO BE FILLED OUT BY DR. BOGART
Date samples received:(dd/mm/yyyy)
Condition of samples received:
JPB #(s):



Maps (Please ensure road names and UTM coordinates are clearly visible)



Wildlife Scientific Collector's Authorization # 1092051 ESA Permit # GU-B-004-18

Page 1

#### Instructions:

Last updated: January 2016

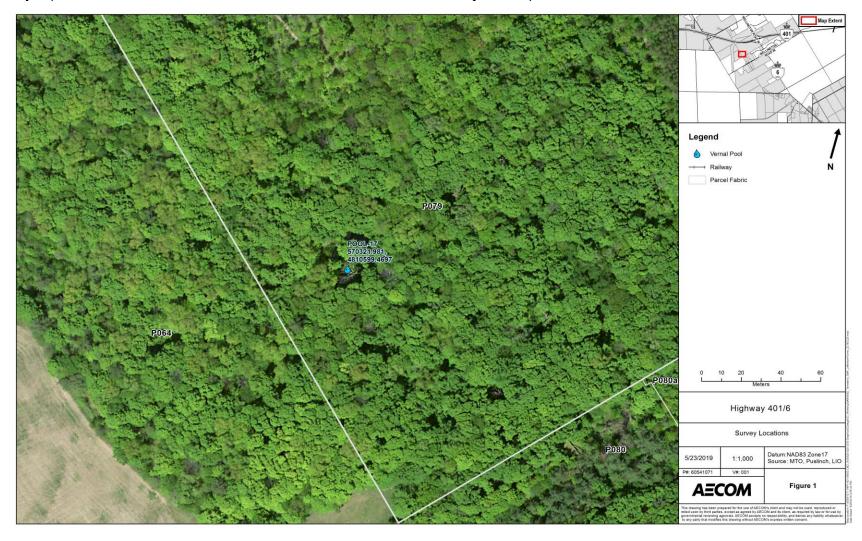
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  - Map 1 must show the pond and local roads or features.
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- Pond nomenclature must be consistent for all maps and reports.
- All conditions as per the WSCA and ESA permits must be followed.

SECTION A - TO BE FILLED OUT BY THE COLLECTOR
Search Result (circle one): Positive Negative
PROJECT TITLE:Highway 401/6
CONTACT INFORMATION:
Name of observer(s): Edyta Ratafczyk, Olga Hropach Affiliation: AECON
Mailing Address: AECOM Canada Ltd.,105 Commerce Valley Drive West, 7 <sup>th</sup> Floor,Markham, ON L3T 7W3,
Canada
Phone Number: 905.886.7022 Email: julie.ellis@aecom.com
PROPERTY INFORMATION:
THO EXTENSION.
Site name: P079  Property Address: Cow 7 Pt bots 28,29 RPG/R 368 Parts Land 2
Site name: P079  Property Address: Cow 7 P+ bots 28,29 RPG/R 368 Parts Land 2  UTM Coordinates (NAD83): 5703/7 E 481060/ N (NOT Lat, Long)
Site name: Po79  Property Address: Com 7 Pt bots 28,29 RPG/R 368 Parts Land 2  UTM Coordinates (NAD83): 570317 E 4810601 N (NOT Lat, Long)  (Do not record UTM of each minnow trap, only one coordinate per pond or road location is required)  Land Ownership: □Public □Private □Both
Site name: Po79  Property Address: Cow 7 P+ bots 28,29 RPG/R 368 Parts Land 2  UTM Coordinates (NAD83): 570317 E 4810601 N (NOT Lat, Long)  (Do not record UTM of each minnow trap, only one coordinate per pond or road location is required)  Land Ownership: □Public □Private □Both
Site name: Po79  Property Address: Com 7 Pt bots 28,29 RPG/R 368 Parts Land 2  UTM Coordinates (NAD83): 570317 E 4810601 N (NOT Lat, Long)  (Do not record UTM of each minnow trap, only one coordinate per pond or road location is required)  Land Ownership: □Public □Private □Both

SAMPLING INFORMATION:		
Date(s) of sampling: 06/04/2019	1-07/04/2019	(dd/mm/yyyy)
Survey Type (circle one):		
Minnow Trap Cover Board	d Road Pitfall Trap Visual Inciden	tal
Sample Type (circle all that apply):		
Tail Tip Roadkill Larvae	e Egg Mass Visual Observation	
Search Effort (time spent, number of		
12 hours,	5 Mehnow Traps	
# of salamanders observed:		
Number of Samples Taken:		V
# of adult tail tips:	# mortalities: # of larva	e:
# of larvae tail tips:	# mortalities: # of larva # roadkills:	
HABITAT INFORMATION:		
Average Pond Depth (m):		
Pond Description: Lec presi	· w)	
Terrestrial Vegetation Community Typ	pe:	- 220
Other amphibians observed or heard:		
Egg Attachment Sites Present:	⊠Yes □No □Unknown	
Suitable Hydroperiod for Breeding:	☑Yes □No □Unknown	
Photos Taken:	☐Yes ☐No Photo #: <u>6.0033 - 6.2</u>	156, 229-12.
SECTION B — TO BE FILLED OUT	BY DR. BOGART	
		(44)



Maps (Please ensure road names and UTM coordinates are clearly visible)



Wildlife Scientific Collector's Authorization # 1092051 ESA Permit # GU-B-004-18

#### Instructions:

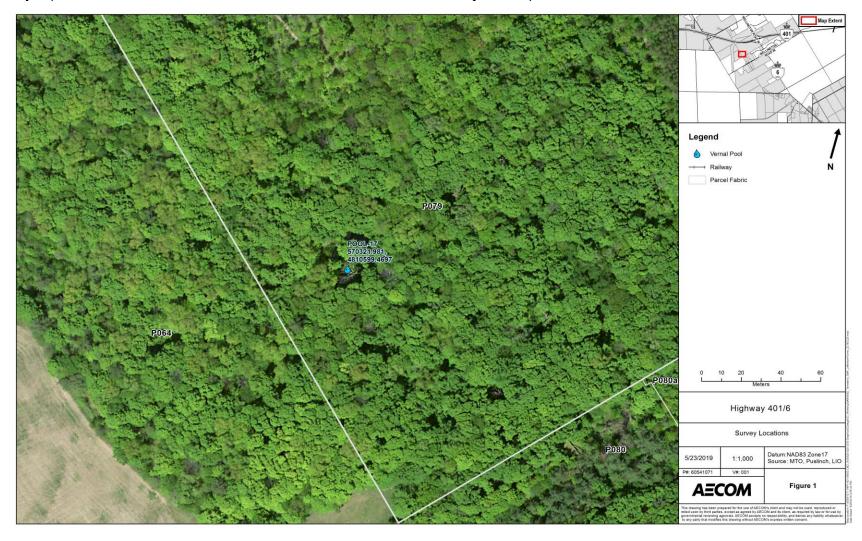
- You must complete a separate form for each pond sampled.
- Each form must be completed in its entirety (including permit numbers).
- Attach two orthophotos showing the location of the pond labelled with UTM coordinates (see example provided):
  - Map 1 must show the pond and local roads or features.
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- Pond nomenclature must be consistent for all maps and reports.
- All conditions as per the WSCA and ESA permits must be followed.

SECTION A - TO BE FILLED OUT BY THE COLLECTOR	
Search Result (circle one): Positive Negative	
PROJECT TITLE:Highway 401/6	
CONTACT INFORMATION:	
Name of observer(s): Johanna Perz and Maria Clancio  Affiliation:	
Affiliation: AECOM	
Mailing Address: AECOM Canada Ltd.,105 Commerce Valley Drive West, 7 <sup>th</sup> Floor,Markham, ON L3T 7W3,	
Canada	
Phone Number: 905.886.7022 Email: julie.ellis@aecom.com	
PROPERTY INFORMATION:	
Site name: <u>P079</u> Pond ID: <u>P001-17</u>	
Property Address: CON 7 PT LOTS 28 and 29 RP 61R1368 Part SI	au
UTM Coordinates (NAD83): E N (NOT Lat, Long)	
(Do not record UTM of each minnow trap, only one coordinate per pond or road location is required)	
Land Ownership: □Public □Private □Both	
LANDOWNER INFORMATION:	
Name: MTO Susan McKay Property Supervisor, West Region	67
Mailing Address:	
Last updated: January 2016 Page 1	e e

SAMPLING INFORMATION:
Date(s) of sampling: $08/04/2019 - 09/04/2019$ (dd/mm/yyyy
Survey Type (circle one):
Minnow Trap Cover Board Road Pitfall Trap Visual Incidental
Sample Type (circle all that apply):
Tail Tip Roadkill Larvae Egg Mass Visual Observation
Search Effort (time spent, number of minnow traps etc.):
5traps, 12 hours
# of salamanders observed:
Number of Samples Taken:
# of adult tail tips: 📉 # mortalities: 🛴 # of larvae:
# of larvae tail tips: # roadkills:
HABITAT INFORMATION:
Average Pond Depth (m):
Pond Description:
Terrestrial Vegetation Community Type: FOD5-
Other amphibians observed or heard: NoNE
Egg Attachment Sites Present: ☑Yes □No □Unknown
Suitable Hydroperiod for Breeding: □Yes □No □Unknown
Photos Taken:
SECTION B – TO BE FILLED OUT BY DR. BOGART
Date samples received:(dd/mm/yyyy)
Condition of samples received:
JPB #(s):



Maps (Please ensure road names and UTM coordinates are clearly visible)



Wildlife Scientific Collector's Authorization # 1092051 ESA Permit # GU-B-004-18

#### Instructions:

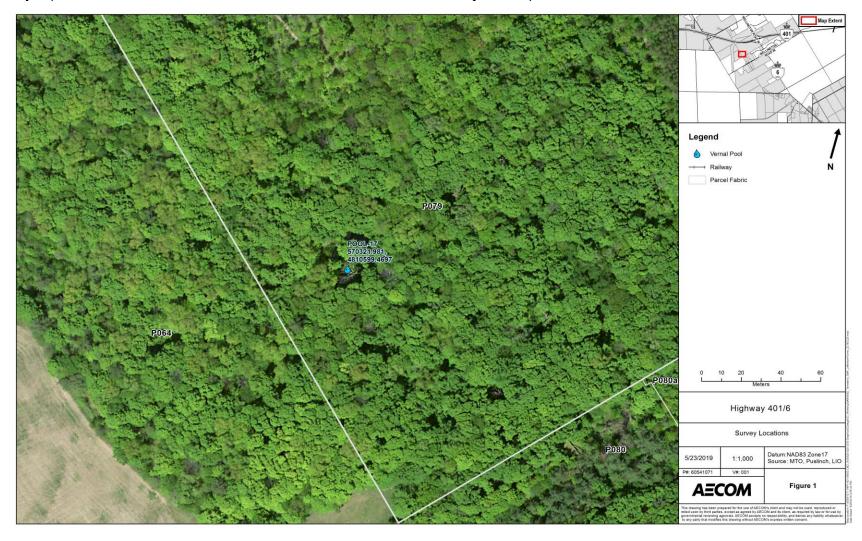
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- Attach two orthophotos showing the location of the pond labelled with UTM coordinates (see example provided):
  - Map 1 must show the pond and local roads or features.
  - Map 2 will be a close-up of the pond (suggested scale 1:1000).
- Pond nomenclature must be consistent for all maps and reports.
- All conditions as per the WSCA and ESA permits must be followed.

SECTION A - TO BE FILLED OUT BY THE COLLECTOR
Search Result (circle one): Positive Negative
PROJECT TITLE:Highway 401/6
CONTACT INFORMATION:
Name of observer(s): Julie Ells/ Olga Hrapach Affiliation:
Mailing Address: AECOM Canada Ltd.,105 Commerce Valley Drive West, 7 <sup>th</sup> Floor,Markham, ON L3T 7W3,
Canada
Phone Number: 905.886.7022 Email: julie.ellis@aecom.com
PROPERTY INFORMATION:  Site name: Portal Pond ID: Pond ID
Site name:
UTM Coordinates (NAD83): E N (NOT Lat, Long)
(Do not record UTM of each minnow trap, only one coordinate per pond or road location is required)
Land Ownership: \(\square\notate\) Public \(\square\notate\) Private \(\square\notate\) Both
Name: MTO Susan Mckay Property Supervisor, West region Mailing Address: 1059 Fyter Rd, Lendon on NGF 113
Last updated: January 2016 Page 1

SAMPLING INFORMATION:
Date(s) of sampling: $3019-04-13/2019-04-14$ (dd/mm/yyyy)
Survey Type (circle one):
Minnow Trap Cover Board Road Pitfall Trap Visual Incidental
Sample Type (circle all that apply):
Tail Tip Roadkill Larvae Egg Mass Visual Observation
Search Effort (time spent, number of minnow traps etc.):  5 4005 4 12 10005
# of salamanders observed:
Number of Samples Taken:
# of adult tail tips: # mortalities: # of larvae:
# of adult tail tips: # mortalities: # of larvae: # of la
HABITAT INFORMATION:
Average Pond Depth (m):
Pond Description: See previous
Terrestrial Vegetation Community Type:
Other amphibians observed or heard:
Egg Attachment Sites Present: □Yes □No □Unknown
Suitable Hydroperiod for Breeding:
Photos Taken:
SECTION B — TO BE FILLED OUT BY DR. BOGART
Date samples received:(dd/mm/yyyy)
Condition of samples received:
JPB #(s):



Maps (Please ensure road names and UTM coordinates are clearly visible)



### Wildlife Scientific Collector's Authorization # 1092051 ESA Permit # GU-B-004-18

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#### Instructions:

Last updated: January 2016

- You must complete a separate form for each pond sampled.
- Each form must be completed in its entirety (including permit numbers).
- Attach two orthophotos showing the location of the pond labelled with UTM coordinates (see example provided):
  - Map 1 must show the pond and local roads or features.
  - Map 2 will be a close-up of the pond (suggested scale 1:1000).
- Pond nomenclature must be consistent for all maps and reports.
- All conditions as per the WSCA and ESA permits must be followed.

SECTION A — TO BE FILLED OUT BY THE COLLECTOR
Search Result (circle one): Positive Negative
PROJECT TITLE:Highway 401/6
CONTACT INFORMATION:
Name of observer(s): Kasa Makenzu a Nataliya Simonova  Affiliation:
Mailing Address: AECOM Canada Ltd.,105 Commerce Valley Drive West, 7 <sup>th</sup> Floor,Markham, ON L3T 7W3
Canada
Phone Number: 905.886.7022 Email: julie.ellis@aecom.com
PROPERTY INFORMATION:
Site name: P079 Pond ID: P00L-18
Property Address:
UTM Coordinates (NAD83): <u>571057</u> E <u>4811286</u> N ( <b>NOT</b> Lat, Long)
(Do not record UTM of each minnow trap, only one coordinate per pond or road location is required)
Land Ownership: □Public □Private □Both
LANDOWNER INFORMATION:
Name:
Mailing Address:

SAMPLING INFORMATION:						
Date(s) of sampling: 29/03	12019					_(dd/mm/yyyy)
Survey Type (circle one):	I					
Minnow Trap Cover Board	Road	Pi	tfall Trap \	√isual	Incidental	
Sample Type (circle all that apply):						
Tail Tip Roadkill Larvae	Egg M	ass	Visual Obse	rvation	l	
Search Effort (time spent, number of r						
12 hours, 3-traps						
# of salamanders observed:						
Number of Samples Taken:						
# of adult tail tips:	#	morta	alities:		# of larvae:	
# of larvae tail tips:	#	roadk	cills:		# of larvae:	
HABITAT INFORMATION:						
Average Pond Depth (m):						
Pond Description: \argue prod	mor	sh	, 20%	Ope	<u> </u>	
Terrestrial Vegetation Community Typ	e:					
Other amphibians observed or heard:						
Egg Attachment Sites Present:			□Unknown			
Suitable Hydroperiod for Breeding:	∐Yes □	]No	□Unknown			
Photos Taken:	□Yes □	lNo	Photo #:			
SECTION B — TO BE FILLED OUT	BY DR. E	BOGA	ART			
Date samples received:						(dd/mm/yyyy)
Condition of samples received:						
JPB #(s):						



Maps (Please ensure road names and UTM coordinates are clearly visible)



Wildlife Scientific Collector's Authorization # 1092051 ESA Permit # GU-B-004-18

#### Instructions:

- You must complete a separate form for each pond sampled.
- Each form must be completed in its entirety (including permit numbers).
- Attach two orthophotos showing the location of the pond labelled with UTM coordinates (see example provided):
  - Map 1 must show the pond and local roads or features.
  - Map 2 will be a close-up of the pond (suggested scale 1:1000).
- Pond nomenclature must be consistent for all maps and reports.
- All conditions as per the WSCA and ESA permits must be followed.

SECTION A — TO BE FILLED OUT BY THE COLLECTOR
Search Result (circle one): Positive Negative
PROJECT TITLE:Highway 401/6
CONTACT INFORMATION:
Name of observer(s): Julie Ello Johanna Ren.  Affiliation:
Mailing Address: AECOM Canada Ltd.,105 Commerce Valley Drive West, 7 <sup>th</sup> Floor,Markham, ON L3T 7W3, Canada
Phone Number: 905.886.7022 Email: julie.ellis@aecom.com
PROPERTY INFORMATION:  Site name: Pond ID: Pool - 18
Property Address:
UTM Coordinates (NAD83): 57/054 E 49/1286 N (NOT Lat, Long) (Do not record UTM of each minnow trap, only one coordinate per pond or road location is required)
Land Ownership: ☑Public ☐Private ☐Both
Name: MTO Property Section  Mailing Address:
Last updated: January 2016 Page 1

SAMPLING INFORMATION:	
Date(s) of sampling: 2019 -03 - 30/3	_ (dd/mm/yyyy)
Survey Type (circle one):	
Minnow Trap Cover Board Road Pitfall Trap Visual Incidental	
Sample Type (circle all that apply):	
tail Tip Roadkill Larvae Egg Mass Visual Observation	
Search Effort (time spent, number of minnow traps etc.):  5 + + + + + + + + + + + + + + + + + +	
# of salamanders observed:	
Number of Samples Taken:	
# of adult tail tips: # mortalities: # of larvae:	
# of larvae tail tips: # roadkills:	
Average Pond Depth (m): Pond Description:  Terrestrial Vegetation Community Type: Other amphibians observed or heard:  Egg Attachment Sites Present:	
SECTION B - TO BE FILLED OUT BY DR. BOGART	
Date samples received:	_ (dd/mm/yyyy)
Condition of samples received:	



Maps (Please ensure road names and UTM coordinates are clearly visible)



Wildlife Scientific Collector's Authorization # 1092051 ESA Permit # GU-B-004-18

#### Instructions:

- You must complete a separate form for each pond sampled.
- Each form must be completed in its entirety (including permit numbers).
- Attach two orthophotos showing the location of the pond labelled with UTM coordinates (see example provided):
  - Map 1 must show the pond and local roads or features.

SECTION A - TO BE FILLED OUT BY THE COLLECTOR

- Map 2 will be a close-up of the pond (suggested scale 1:1000).
- Pond nomenclature must be consistent for all maps and reports.
- All conditions as per the WSCA and ESA permits must be followed.

Search Result (circle one): Positive Negative
PROJECT TITLE:Highway 401/6
CONTACT INFORMATION:
Name of observer(s): Matt Ross, Karen Marters  Affiliation: AECom
Affiliation: AECom
Mailing Address: AECOM Canada Ltd.,105 Commerce Valley Drive West, 7 <sup>th</sup> Floor,Markham, ON L3T 7W3,
Canada
Phone Number: 905.886.7022 Email: julie.ellis@aecom.com
PROPERTY INFORMATION:
Site name:Po 7-9Pond ID:
Property Address: Con 7 PT Lots 28 and 29 PPG/R/ 368 PHS. 1
UTM Coordinates (NAD83): <u>570989</u> E <u>49/1274</u> N ( <b>NOT</b> Lat, Long)
(Do not record UTM of each minnow trap, only one coordinate per pond or road location is required)
Land Ownership: □Public □Private □Both
LANDOWNER INFORMATION:
Name: Susan Mckm (MTO)
Mailing Address:
Last updated: January 2016 Page 1

SAMPLING INFORMATION:
Date(s) of sampling: April 6, 2019 (dd/mm/yyyy)
Survey Type-(circle one):
Minnow Trap Cover Board Road Pitfall Trap Visual Incidental
Sample Type (circle all that apply):
Tail Tip Roadkill Larvae Egg Mass Visual Observation
Search Effort (time spent, number of minnow traps etc.):
# of salamanders observed:
Number of Samples Taken:
# of adult tail tips: # of larvae:
# of larvae tail tips: # roadkills:
HABITAT INFORMATION:
Average Pond Depth (m): 1.5
Pond Description: Marsh in open water swounded by Firest
Terrestrial Vegetation Community Type: FOD . FOC FOM
Other amphibians observed or heard:
Egg Attachment Sites Present:
Suitable Hydroperiod for Breeding:
Photos Taken:   □Yes □No Photo #: 192945 to 195300
SECTION B — TO BE FILLED OUT BY DR. BOGART
Date samples received:(dd/mm/yyyy)
Condition of samples received:
JPB #(s):



Maps (Please ensure road names and UTM coordinates are clearly visible)



Wildlife Scientific Collector's Authorization # 1092051 ESA Permit # GU-B-004-18

#### Instructions:

- You must complete a separate form for each pond sampled.
- Each form must be completed in its entirety (including permit numbers).
- Attach two orthophotos showing the location of the pond labelled with UTM coordinates (see example provided):
  - Map 1 must show the pond and local roads or features.
  - Map 2 will be a close-up of the pond (suggested scale 1:1000).
- Pond nomenclature must be consistent for all maps and reports.
- All conditions as per the WSCA and ESA permits must be followed.

·
SECTION A - TO BE FILLED OUT BY THE COLLECTOR
Search Result (circle one): Positive Negative
PROJECT TITLE:Highway 401/6
CONTACT INFORMATION:
Name of observer(s): Natalija Simonova Katen Hartens  Affiliation:  AECOM
Mailing Address: AECOM Canada Ltd.,105 Commerce Valley Drive West, 7 <sup>th</sup> Floor,Markham, ON L3T 7W
Canada Phone Number: 905.886.7022 Email: julie.ellis@aecom.com
PROPERTY INFORMATION:
Site name: P 079 Pond ID: 18
Property Address: N/A
UTM Coordinates (NAD83): <u>570924</u> E <u>4811178</u> N ( <b>NOT</b> Lat, Long) ( <b>Do not</b> record UTM of each minnow trap, only one coordinate per pond or road location is required)
Land Ownership: ☑Public ☐Private ☐Both
Name: MTD Property Section  Mailing Address:
Last updated: January 2016 Page 1

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SAMPLING INFORMATION:
Date(s) of sampling: 07-08/04/2019 (dd/mm/yyyy)
Survey Type (circle one):
Minnow Trap Cover Board Road Pitfall Trap Visual Incidental
Sample Type (circle all that apply):
Tail Tip Roadkill Larvae Egg Mass Visual Observation
Search Effort (time spent, number of minnow traps etc.):
5 traps 12 hours
# of salamanders observed: 1 Ambistomasp
Number of Samples Taken:
# of adult tail tips: # mortalities: # of larvae:
# of larvae tail tips: # roadkills:
HABITAT INFORMATION:
Average Pond Depth (m): > 1 m
Pond Description: Large pond/Marsh , 20/ apen weter
Terrestrial Vegetation Community Type: MAS/040/SWT
Other amphibians observed or heard: Spring Perper
Egg Attachment Sites Present:   ☑Yes □No □Unknown
Suitable Hydroperiod for Breeding:
Photos Taken:
SECTION B – TO BE FILLED OUT BY DR. BOGART
Date samples received:(dd/mm/yyyy)
Condition of samples received:
JPB #(s):
the second to th



Maps (Please ensure road names and UTM coordinates are clearly visible)



Wildlife Scientific Collector's Authorization # 1092051 ESA Permit # GU-B-004-18

#### Instructions:

- You must complete a separate form for each pond sampled.
- Each form must be completed in its entirety (including permit numbers).
- Attach two orthophotos showing the location of the pond labelled with UTM coordinates (see example provided):
  - Map 1 must show the pond and local roads or features.
  - Map 2 will be a close-up of the pond (suggested scale 1:1000).
- Pond nomenclature must be consistent for all maps and reports.
- All conditions as per the WSCA and ESA permits must be followed.

Search Result (circle one):	Negative
PROJECT TITLE:Highway 401/6	
CONTACT INFORMATION:	
Name of observer(s):  Affiliation:  Nataliya Simunova AECOM	
Mailing Address: AECOM Canada Ltd.,105 Commerce Canada Phone Number: 905.886.7022 Email: julie.ellis@aecon	<u> </u>
PROPERTY INFORMATION:	
Site name: <u>P0 79</u>	Pond ID: \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
UTM Coordinates (NAD83): $5\overline{7999}$ E $48\overline{9}$	<u> </u>
,	coordinate per pond or road location is required)
Land Ownership: ☐Public ☐Private ☐Both	, , ,
Land Ownership: ☑Public ☐Private ☐Both	
Land Ownership: ☐Public ☐Private ☐Both	

SAMPLING INFORMATION:				
Date(s) of sampling: 03-09/04/2	2019			_ (dd/mm/yyyy)
Survey Type (circle one):				
Minnow Trap Cover Board	Road F	ritfall Trap Visu	ıal Incidental	
Sample Type (circle all that apply):				
Tail Tip Roadkill Larvae	Egg Mass	Visual Observa	tion	
Search Effort (time spent, number of n	ninnow traps e	tc.):		
6 traps x 12 hours				
# of salamanders observed:		na spi		
Number of Samples Taken:	/	ί		
# of adult tail tips:	# mor	talities:	# of larvae: 🕖	_
# of larvae tail tips:	# road	kills: <u></u>		
HABITAT INFORMATION:				
Average Pond Depth (m):	_			
Pond Description: See frevious	torm		· · · ·	*
Terrestrial Vegetation Community Typ	e: MAS /	DAD/SWT	-	
Other amphibians observed or heard:	Spring	PREPER	red 111 to	-
Egg Attachment Sites Present:	⊡Yes □No	□Unknown		
Suitable Hydroperiod for Breeding:	⊠Yes □No	□Unknown		
Photos Taken:	⊡Yes □No	Photo #: <u>685</u>	4-6870,68	82-6890
SECTION B — TO BE FILLED OUT	BY DR. BOG	ART		
Date samples received:			Ta	(dd/mm/yyyy)
Condition of samples received:				
JPB #(s):				



Maps (Please ensure road names and UTM coordinates are clearly visible)



Wildlife Scientific Collector's Authorization # 1092051 ESA Permit # GU-B-004-18

#### Instructions:

- You must complete a separate form for each pond sampled.
- Each form must be completed in its entirety (including permit numbers).
- Attach two orthophotos showing the location of the pond labelled with UTM coordinates (see example provided):
  - Map 1 must show the pond and local roads or features.
  - Map 2 will be a close-up of the pond (suggested scale 1:1000).
- Pond nomenclature must be consistent for all maps and reports.
- All conditions as per the WSCA and ESA permits must be followed.

report.
SECTION A — TO BE FILLED OUT BY THE COLLECTOR
Search Result (circle one): Rositive Negative
PROJECT TITLE:Highway 401/6
CONTACT INFORMATION:
Name of observer(s): Johanna Perz and Julie Ellis  Affiliation: AECOM
Mailing Address: AECOM Canada Ltd.,105 Commerce Valley Drive West, 7 <sup>th</sup> Floor,Markham, ON L3T 7W3, Canada
Phone Number: 905.886.7022 Email: julie.ellis@aecom.com
PROPERTY INFORMATION:
Site name: P079 Pond ID: P001-8
Property Address: NA
UTM Coordinates (NAD83): 570921) E 481178 N (NOT Lat, Long) (Do not record UTM of each minnow trap, only one coordinate per pond or road location is required)
Land Ownership: □Public □Private □Both
Name: MTO Property Clo Property Section  Mailing Address:
Last updated: January 2016 Page 1

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SAMPLING INFORMATION:
Date(s) of sampling: $\frac{40^{19}}{10}$
Survey Type (circle one):
Minnow Trap Cover Board Road Pitfall Trap Visual Incidental
Sample Type (circle all that apply):
Tail Tip Roadkill Larvae Egg Mass Visual Observation
Search Effort (time spent, number of minnow traps etc.):  8 Traps x 12 haus
# of salamanders observed: One
Number of Samples Taken:
# of adult tail tips: # mortalities: # of larvae:
# of larvae tail tips: # roadkills:
HABITAT INFORMATION:
Average Pond Depth (m):
Pond Description: CR Previous forms
Terrestrial Vegetation Community Type:
Other amphibians observed or heard: Spring Defper (Aon)
Egg Attachment Sites Present: □Yes □No □Unknown
Suitable Hydroperiod for Breeding:   Yes   Unknown
Photos Taken:   Tyes  No Photo #: 1739 +0 1742
SECTION B — TO BE FILLED OUT BY DR. BOGART
Date samples received:(dd/mm/yyyy)
Condition of samples received:
JPB #(s):



Maps (Please ensure road names and UTM coordinates are clearly visible)



Wildlife Scientific Collector's Authorization # 1092051 ESA Permit # GU-B-004-18

#### Instructions:

- You must complete a separate form for each pond sampled.
- Each form must be completed in its entirety (including permit numbers).
- Attach two orthophotos showing the location of the pond labelled with UTM coordinates (see example provided):
  - Map 1 must show the pond and local roads or features.
  - Map 2 will be a close-up of the pond (suggested scale 1:1000).
- Pond nomenclature must be consistent for all maps and reports.
- All conditions as per the WSCA and ESA permits must be followed.

SECTION A — TO BE FILLED OUT BY THE COLLECTOR
Search Result (circle one): Positive Negative
PROJECT TITLE:Highway 401/6
CONTACT INFORMATION:
Name of observer(s): Julie Ells Jolga Hropach Affiliation:
Mailing Address: AECOM Canada Ltd.,105 Commerce Valley Drive West, 7 <sup>th</sup> Floor,Markham, ON L3T 7W
Canada
Phone Number: 905.886.7022 Email: julie.ellis@aecom.com
PROPERTY INFORMATION:
Site name: P079 Pond ID: P001 - 18
Property Address:
UTM Coordinates (NAD83): E N (NOT Lat, Long)
(Do not record UTM of each minnow trap, only one coordinate per pond or road location is required)
Land Ownership: □Public □Private □Both
LANDOWNER INFORMATION:
Name: MTO Property C/O Property Seatch
Mailing Address: 659 Fut er 2d, Land, on Lot L3
Last updated: January 2016 Page 1

SAMPLING INFORMATION:
Date(s) of sampling: $\frac{2019-04-B}{2019-04-A}$ (dd/mm/yyyy)
Survey Type (circle one):
Minnow Trap Cover Board Road Pitfall Trap Visual Incidental
Sample Type (circle all that apply):
Tail Tip Roadkill Larvae Egg Mass Visual Observation
Search Effort (time spent, number of minnow traps etc.):
# of salamanders observed:
Number of Samples Taken:
# of adult tail tips: # mortalities: # of larvae:
# of larvae tail tips: # roadkills:
HABITAT INFORMATION:
Average Pond Depth (m):
Pond Description:
Terrestrial Vegetation Community Type:
Other amphibians observed or heard: SPPE WORR
Egg Attachment Sites Present: □Yes □No □Unknown
Suitable Hydroperiod for Breeding:
Photos Taken:   Des DNo Photo #: 195622 - 200317
SECTION B — TO BE FILLED OUT BY DR. BOGART
Date samples received:(dd/mm/yyyy)
Condition of samples received:
JPB #(s):



Maps (Please ensure road names and UTM coordinates are clearly visible)



Wildlife Scientific Collector's Authorization # 1092051 ESA Permit # GU-B-004-18

### Instructions:

- You must complete a separate form for each pond sampled.
- Each form must be completed in its entirety (including permit numbers).
- Attach two orthophotos showing the location of the pond labelled with UTM coordinates (see example provided):
  - Map 1 must show the pond and local roads or features.
  - Map 2 will be a close-up of the pond (suggested scale 1:1000).
- Pond nomenclature must be consistent for all maps and reports.
- All conditions as per the WSCA and ESA permits must be followed.

SECTION A – TO BE FILLED OUT BY THE COLLECTOR
Search Result (circle one): Positive Negative
PROJECT TITLE:Highway 401/6
CONTACT INFORMATION:
Name of observer(s): Matt Ross Andrew Aberdein  Affiliation: Accom
Affiliation: Attom
Mailing Address: AECOM Canada Ltd.,105 Commerce Valley Drive West, 7 <sup>th</sup> Floor,Markham, ON L3T 7W3,
Canada
Phone Number: 905.886.7022 Email: julie.ellis@aecom.com
PROPERTY INFORMATION:
Site name: PXX2 Pond ID: 20  Property Address: 9 Ochs Drive, Morriston, ON
Property Address: 9 Ochs Drive, Morriston, ON
UTM Coordinates (NAD83): <u>57[69]</u> E <u>4811792</u> N ( <b>NOT</b> Lat, Long)
(Do not record UTM of each minnow trap, only one coordinate per pond or road location is required)
(Do not record UTM of each minnow trap, only one coordinate per pond or road location is required)  Land Ownership: □Public □Private □Both  LANDOWNER INFORMATION:
(Do not record UTM of each minnow trap, only one coordinate per pond or road location is required)  Land Ownership: □Public □Private □Both  LANDOWNER INFORMATION:  Name: John Nadenu
(Do not record UTM of each minnow trap, only one coordinate per pond or road location is required)  Land Ownership: □Public □Private □Both  LANDOWNER INFORMATION:  Name: John Nadenu
(Do not record UTM of each minnow trap, only one coordinate per pond or road location is required)  Land Ownership: □Public □Private □Both  LANDOWNER INFORMATION:

SAMPLING INFORMATION:	
Date(s) of sampling: (d	dd/mm/yyyy)
Survey Type-(ctrcle-one):	
Minnow Trap Cover Board Road Pitfall Trap Visual Incidental	
Sample Type (circle all that apply):	
Tail Tip Roadkill Larvae Egg Mass Visual Observation	
Search Effort (time spent, number of minnow traps etc.):	12
# of salamanders observed: NoNE	- 2
Number of Samples Taken:	
# of adult tail tips: # mortalities: # of larvae:	
# of larvae tail tips: # roadkills:	
Average Pond Depth (m):	
Egg Attachment Sites Present:	
Suitable Hydroperiod for Breeding:	
Photos Taken:   □Yes □No Photo#: 202732 to 203824	
SECTION B — TO BE FILLED OUT BY DR. BOGART	
Date samples received:(do	d/mm/yyyy)
Condition of samples received:	
JPB #(s):	



### Maps (Please ensure road names and UTM coordinates are clearly visible)



Wildlife Scientific Collector's Authorization # 1092051 ESA Permit # GU-B-004-18

#### Instructions:

- You must complete a separate form for each pond sampled.
- Each form must be completed in its entirety (including permit numbers).
- Attach two orthophotos showing the location of the pond labelled with UTM coordinates (see example provided):
  - Map 1 must show the pond and local roads or features.
  - Map 2 will be a close-up of the pond (suggested scale 1:1000).
- Pond nomenclature must be consistent for all maps and reports.
- All conditions as per the WSCA and ESA permits must be followed.

SECTION A - TO BE FILLED OUT BY THE COLLECTOR
Search Result (circle one): Positive Negative
PROJECT TITLE:Highway 401/6
CONTACT INFORMATION:
Name of observer(s): Julie Ellis Johanno Ren
Affiliation:
Mailing Address: AECOM Canada Ltd.,105 Commerce Valley Drive West, 7 <sup>th</sup> Floor,Markham, ON L3T 7W3,
Canada
Phone Number: 905.886.7022 Email: julie.ellis@aecom.com
PROPERTY INFORMATION:
Site name: Pool-20 PXX2 Pond ID: Pool-20  Property Address: 9 Ochois Drugo
Property Address: 9 Ochors Druge
UTM Coordinates (NAD83): 571691 E 4811792 N (NOT Lat, Long)
(Do not record UTM of each minnow trap, only one coordinate per pond or road location is required)
Land Ownership: □Public □Private □Both
LANDOWNER INFORMATION:
Name: John Nadean
Mailing Address
Last updated: January 2016 Page 1



SAMPLING INFORMATION:	
Date(s) of sampling: 0019 703 - 3013 (	(dd/mm/yyyy)
Survey Type (circle one):	
Minnow Trap Cover Board Road Pitfall Trap Visual Incidental	
Sample Type (circle all that apply):	
Tail Tip Roadkill Larvae Egg Mass Visual Observation	
Search Effort (time spent, number of minnow traps etc.):	
# of salamanders observed:	
Number of Samples Taken:	
# of adult tail tips: # mortalities: # of larvae:	
# of larvae tail tips: # roadkills:	
HABITAT INFORMATION:	
Average Pond Depth (m):	
Pond Description:	
Terrestrial Vegetation Community Type:	
Other amphibians observed or heard:	
Egg Attachment Sites Present:	
Suitable Hydroperiod for Breeding.	
Photos Taken:	
SECTION B — TO BE FILLED OUT BY DR. BOGART	
Date samples received:(o	ld/mm/yyyy)
Condition of samples received:	
JPB #(s):	



### Maps (Please ensure road names and UTM coordinates are clearly visible)



Wildlife Scientific Collector's Authorization # 1092051 ESA Permit # GU-B-004-18

#### Instructions:

- You must complete a separate form for each pond sampled.
- Each form must be completed in its entirety (including permit numbers).
- Attach two orthophotos showing the location of the pond labelled with UTM coordinates (see example provided):
  - Map 1 must show the pond and local roads or features.

SECTION A - TO BE FILLED OUT BY THE COLLECTOR

- Map 2 will be a close-up of the pond (suggested scale 1:1000).
- Pond nomenclature must be consistent for all maps and reports.
- All conditions as per the WSCA and ESA permits must be followed.

SECTION A - TO BE TILLED GOT BY THE COLLECTOR
Search Result (circle one): Positive Negative
PROJECT TITLE:Highway 401/6
CONTACT INFORMATION:
Name of observer(s): Julie Fliz lolga Hropach  Affiliation:
Mailing Address: AECOM Canada Ltd.,105 Commerce Valley Drive West, 7 <sup>th</sup> Floor,Markham, ON L3T 7W3,
CanadaPhone Number: 905.886.7022 Email: julie.ellis@aecom.com
PROPERTY INFORMATION:
Site name:
Property Address:
UTM Coordinates (NAD83): E N (NOT Lat, Long)  (Do not record UTM of each minnow trap, only one coordinate per pond or road location is required)  Land Ownership: □Public □Private □Both
LANDOWNER INFORMATION:
Name: John Nadeau
Mailing Address:
Last updated: January 2016 Page 1

SAMPLING INFORMATION:
Date(s) of sampling: $13/04/2019 - 14/04/2019$ (dd/mm/yyyy)
Survey Type (circle one):
Minnow Trap Cover Board Road Pitfall Trap Visual Incidental
Sample Type (circle all that apply):
Search Effort (time spent, number of minnow traps etc.):
# of salamanders observed:
Number of Samples Taken:
# of adult tail tips: # mortalities: # of larvae: # of la
# of larvae tail tips: # roadkills: #
HABITAT INFORMATION:
Average Pond Depth (m):
Pond Description: See Previous
Terrestrial Vegetation Community Type:
Other amphibians observed or heard:
Egg Attachment Sites Present:
Suitable Hydroperiod for Breeding:
Photos Taken: □Yes □No Photo #: 06 2828 - 06 2835
SECTION B – TO BE FILLED OUT BY DR. BOGART
CONTRACTOR OF DISTRIBUTION
Date samples received:(dd/mm/yyyy)
Condition of samples received:
JPB #(s):



### Maps (Please ensure road names and UTM coordinates are clearly visible)



Page 1

#### Instructions:

Last updated: January 2016

- You must complete a separate form for each pond sampled.
- Each form must be completed in its entirety (including permit numbers).
- Attach two orthophotos showing the location of the pond labelled with UTM coordinates (see example provided):
  - Map 1 must show the pond and local roads or features.

SECTION A - TO BE FILLED OUT BY THE COLLECTOR

- Map 2 will be a close-up of the pond (suggested scale 1:1000).
- Pond nomenclature must be consistent for all maps and reports.
- All conditions as per the WSCA and ESA permits must be followed.

Submit this form along with any samples to Dr. Jim Bogart (with permission) at the University of Guelph; 519-824-4120 (extension 58728). Copies of this form (including forms containing negative observations) must also be submitted to the authorizing MNRF District Office along with the ESA permit and WSCA report.

### Search Result (circle one): Positive Negative\_\_\_ PROJECT TITLE: Highway 401/6\_\_\_\_\_ **CONTACT INFORMATION:** Name of observer(s): Edyta Ratajczyk Kusey McKenzie Affiliation: AEcom Mailing Address: AECOM Canada Ltd., 105 Commerce Valley Drive West, 7<sup>th</sup> Floor, Markham, ON L3T 7W3. Phone Number: 905.886.7022 Email: julie.ellis@aecom.com PROPERTY INFORMATION: Site name: PXX2 Pond ID: Pool-20 Property Address: \_\_\_\_\_ UTM Coordinates (NAD83): 571691 E 4811792 N (NOT Lat, Long) (Do not record UTM of each minnow trap, only one coordinate per pond or road location is required) MPrivate Land Ownership: □Public □Both LANDOWNER INFORMATION: Name: John Nadean Mailing Address: \_\_\_\_\_

SAMPLING INFORMATION:
Date(s) of sampling: 17/04/2019 18/04/2019 (dd/mm/yyy
Survey Type (circle one):
Minnow Trap Cover Board Road Pitfall Trap Visual Incidental
Sample Type (circle all that apply):
Tail Lip Roadkill Larvae Egg Mass Visual Observation
Search Effort (time spent, number of minnow traps etc.):
3 traps set for 12 hours
# of salamanders observed: 6 ZeCo
Number of Samples Taken:
# of adult tail tips: # mortalities: # of larvae:
# of larvae tail tips: # roadkills:
HABITAT INFORMATION:
Average Pond Depth (m):
Pond Description:
Terrestrial Vegetation Community Type:
Other amphibians observed or heard:
Egg Attachment Sites Present. ✓ ☑Yes □No □Unknown
Suitable Hydroperiod for Breeding: ☐Yes ☐No ☐Unknown
Photos Taken:
SECTION B — TO BE FILLED OUT BY DR. BOGART
Date samples received:(dd/mm/yyyy
Condition of samples received:
JPB #(s):



### Maps (Please ensure road names and UTM coordinates are clearly visible)



Page 1

#### Instructions:

Last updated: January 2016

- You must complete a separate form for each pond sampled.
- Each form must be completed in its entirety (including permit numbers).
- Attach two orthophotos showing the location of the pond labelled with UTM coordinates (see example provided):
  - Map 1 must show the pond and local roads or features.
  - Map 2 will be a close-up of the pond (suggested scale 1:1000).
- Pond nomenclature must be consistent for all maps and reports.
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Submit this form along with any samples to Dr. Jim Bogart (with permission) at the University of Guelph; 519-824-4120 (extension 58728). Copies of this form (including forms containing negative observations) must also be submitted to the authorizing MNRF District Office along with the ESA permit and WSCA report.

# SECTION A - TO BE FILLED OUT BY THE COLLECTOR Search Result (circle one): Positive Negative PROJECT TITLE: Highway 401/6 **CONTACT INFORMATION:** Name of observer(s): Edyta Rutajczyk Matt Ross Mailing Address: AECOM Canada Ltd., 105 Commerce Valley Drive West, 7<sup>th</sup> Floor, Markham, ON L3T 7W3, Phone Number: 905.886.7022 Email: julie.ellis@aecom.com PROPERTY INFORMATION: Site name: PXX2 Pond ID: Pool-20 Property Address: UTM Coordinates (NAD83): 571691 E 4811792 N (NOT Lat, Long) (Do not record UTM of each minnow trap, only one coordinate per pond or road location is required) ☑Private Land Ownership: □Public □Both LANDOWNER INFORMATION: Name: John Nadean Mailing Address:

SAMPLING INFORMATION:
Date(s) of sampling: 12/04/2019 23/04/2019 (dd/mm/yyyy)
Survey Type (circle one):
Minnow Trap Cover Board Road Pitfall Trap Visual Incidental
Sample Type (circle all that apply):
Tail Tip Roadkill Larvae Egg Mass Visual Observation
Search Effort (time spent, number of minnow traps etc.):
3 trups set for 12 hrs
# of salamanders observed: Ø Zero
Number of Samples Taken:
# of adult tail tips: # mortalities: # of larvae: #
# of larvae tail tips: # roadkills:
HABITAT INFORMATION:
Average Pond Depth (m):
Pond Description:
Terrestrial Vegetation Community Type:
Other amphibians observed or heard:
Egg Attachment Sites Present:
Suitable Hydroperiod for Breeding:   Yes □No □Unknown
Photos Taken:
SECTION B — TO BE FILLED OUT BY DR. BOGART
Date samples received:(dd/mm/yyyy)
Condition of samples received:
JPB #(s):



## Maps (Please ensure road names and UTM coordinates are clearly visible)



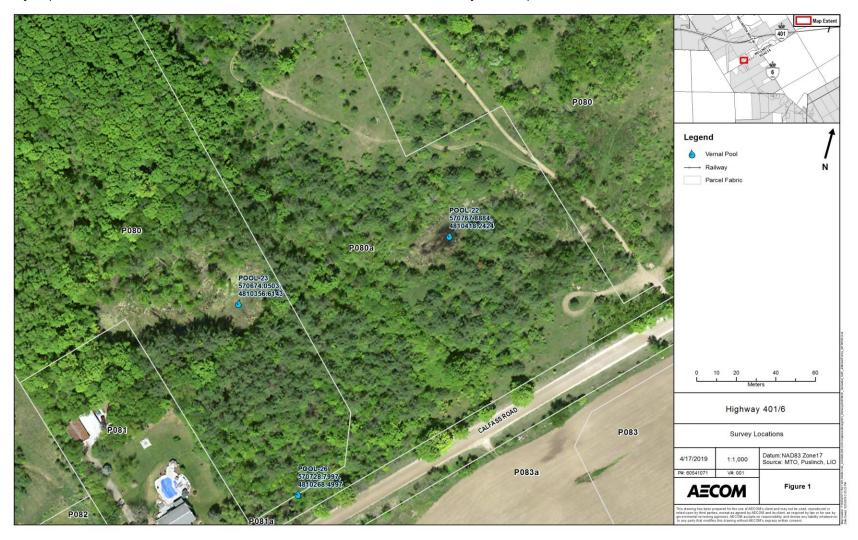
- · You must complete a separate form for each pond sampled.
- · Each form must be completed in its entirety (including permit numbers).
- Attach two orthophotos showing the location of the pond labelled with UTM coordinates (see example provided):
  - Map 1 must show the pond and local roads or features.
  - Map 2 will be a close-up of the pond (suggested scale 1:1000).
- Pond nomenclature must be consistent for all maps and reports.
- All conditions as per the WSCA and ESA permits must be followed.

SECTION A - TO BE FILLED OUT BY THE COLLECTOR
Search Result (circle one): Positive Negative
PROJECT TITLE:Highway 401/6
CONTACT INFORMATION:
Name of observer(s):  Affiliation:  Matt Ross, Andrew Aberdein  Accomm
Mailing Address: AECOM Canada Ltd.,105 Commerce Valley Drive West, 7th Floor, Markham, ON L3T 7W3,
Canada
Phone Number: 905.886.7022 Email: julie.ellis@aecom.com
PROPERTY INFORMATION:
Site name:
Property Address: 18 Calfass Road con7 Rear Pt. Lot 30
UTM Coordinates (NAD83): <u>570 765</u> E <u>48/04/3</u> N ( <b>NOT</b> Lat, Long)
(Do not record UTM of each minnow trap, only one coordinate per pond or road location is required)
Land Ownership: □Public □Private □Both
Name: Susan McKay (MTO)  Mailing Address: 689 Exeto Rd London, ON, NGE 163
Last updated: January 2016 Page 1

Date(s) of sampling: March 3	0/2019			(dd/mm/yyyy
Survey Type (circle one):				
Minnow Trap Cover Board	d Road P	Pitfall Trap Visua	al Incidental	
Sample Type (circle all that apply):				
Tail Tip Roadkill Larvae	Egg Mass	Visual Observati	ion	
Search Effort (time spent, number of 3 + raps 12 ho	minnow traps e			
# of salamanders observed:	- A/			
Number of Samples Taken:				
# of adult tail tips:	# mort	talities: _/_	# of larvae:	
# of larvae tail tips:	# road	talities:	(=	
Average Pond Depth (m): 9.5 cm Pond Description: Pond State			lforest	
Average Pond Depth (m): 5500 Pond Description: Pond Situ	pe: FOM	flin Mixeo	lforst	
Average Pond Depth (m): Pond Situation: Pond Situation: Pond Situation Community Ty Other amphibians observed or heard	pe: FOM: None		lforst	
Average Pond Depth (m): 9.5 M Pond Description: Pond Situ	pe: FOM: None	2-2	lforst	
Terrestrial Vegetation Community Ty Other amphibians observed or heard Egg Attachment Sites Present:	pe: FOM: Ware  Pres • No	2-2 □Unknown	lforst	
Average Pond Depth (m):	DYes DNo	□Unknown □Unknown Photo #:	lforst	
Average Pond Depth (m): Pond Situation: Pond Situation: Pond Situation Community Ty Other amphibians observed or heard Egg Attachment Sites Present: Suitable Hydroperiod for Breeding: Photos Taken:	De: FOM  No.  Pres INO  Pres INO  Pres INO  BY DR. BOG	□Unknown □Unknown Photo #:		(dd/mm/yyyy)
Average Pond Depth (m): Pond State  Pond Description: Pond State  Terrestrial Vegetation Community Ty  Other amphibians observed or heard  Egg Attachment Sites Present:  Suitable Hydroperiod for Breeding:  Photos Taken:  SECTION B — TO BE FILLED OUT	De: FOM  None  Pres INO  Pres INO  Pres INO  BY DR. BOG	□Unknown □Unknown Photo #:		



Maps (Please ensure road names and UTM coordinates are clearly visible)



#### Wildlife Scientific Collector's Authorization # 1092051 ESA Permit # GU-B-004-18

#### Instructions:

- You must complete a separate form for each pond sampled.
- Each form must be completed in its entirety (including permit numbers).
- Attach two orthophotos showing the location of the pond labelled with UTM coordinates (see example provided):
  - Map 1 must show the pond and local roads or features.

SECTION A - TO BE FILLED OUT BY THE COLLECTOR

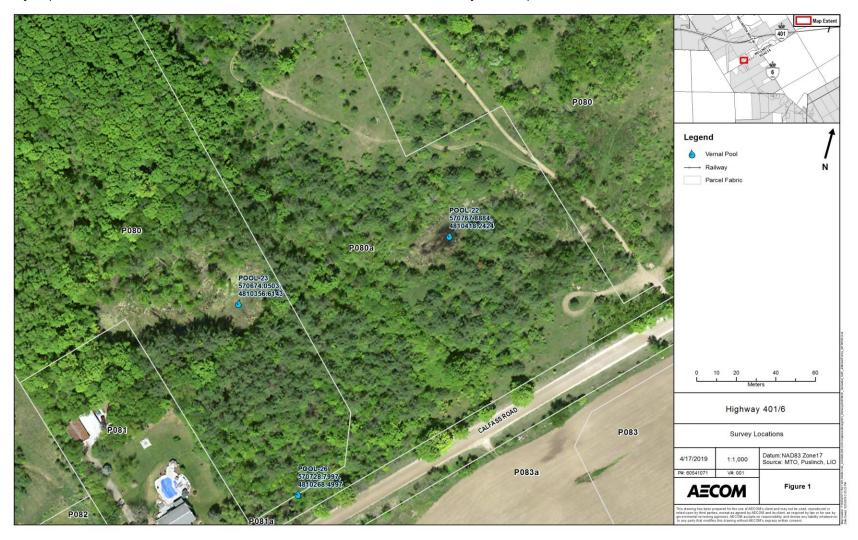
- Map 2 will be a close-up of the pond (suggested scale 1:1000).
- Pond nomenclature must be consistent for all maps and reports.
- All conditions as per the WSCA and ESA permits must be followed.

Search Result (circle one): Positive Negative
PROJECT TITLE:Highway 401/6
CONTACT INFORMATION:
Name of observer(s):   Affiliation:  Mailing Address: AECOM Canada Ltd.,105 Commerce Valley Drive West, 7 <sup>th</sup> Floor, Markham, ON L3T 7W3, Canada
Phone Number: 905.886.7022 Email: julie.ellis@aecom.com
PROPERTY INFORMATION:  Site name: Pond ID: Pool-22
Property Address:
UTM Coordinates (NAD83): 570767 E 4810430 N ( <b>NOT</b> Lat, Long)  ( <b>Do not</b> record UTM of each minnow trap, only one coordinate per pond or road location is required)  Land Ownership: □Public □Private □Both
LANDOWNER INFORMATION: Name:
Mailing Address:
Last updated: January 2016 Page 1

SAMPLING INFORMATION:
Date(s) of sampling: (dd/mm/yyyy)
Survey Type (circle one):
Minnow Trap Cover Board Road Pitfall Trap Visual Incidental
Sample Type (circle all that apply):
Tail Tip Roadkill Larvae Egg Mass Visual Observation
Search Effort (time spent, number of minnow traps etc.):
3 traps, 12 hours
# of salamanders observed:
Number of Samples Taken:
# of adult tail tips: _O_ # mortalities: _O # of larvae:O_
# of larvae tail tips: # roadkills:
HABITAT INFORMATION:  Average Pond Depth (m): \( \frac{70.5m}{20.5m} \)  Pond Description: \( \frac{70.5m}{20.5m} \)
Terrestrial Vegetation Community Type:
Other amphibians observed or heard:
Egg Attachment Sites Present: 'ÚYes □No □Unknown
Suitable Hydroperiod for Breeding: ☐Yes ☐No ☐Unknown
Photos Taken: $\square$ Yes $\square$ No Photo #: $6743 - 6748$ , $6769 - 6772$
SECTION B — TO BE FILLED OUT BY DR. BOGART
Date samples received:(dd/mm/yyyy)
Condition of samples received:
JPB #(s):



Maps (Please ensure road names and UTM coordinates are clearly visible)



Wildlife Scientific Collector's Authorization # 1092051 ESA Permit # GU-B-004-18

#### Instructions:

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- Each form must be completed in its entirety (including permit numbers).
- Attach two orthophotos showing the location of the pond labelled with UTM coordinates (see example provided):
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  - Map 2 will be a close-up of the pond (suggested scale 1:1000).
- Pond nomenclature must be consistent for all maps and reports.
- All conditions as per the WSCA and ESA permits must be followed.

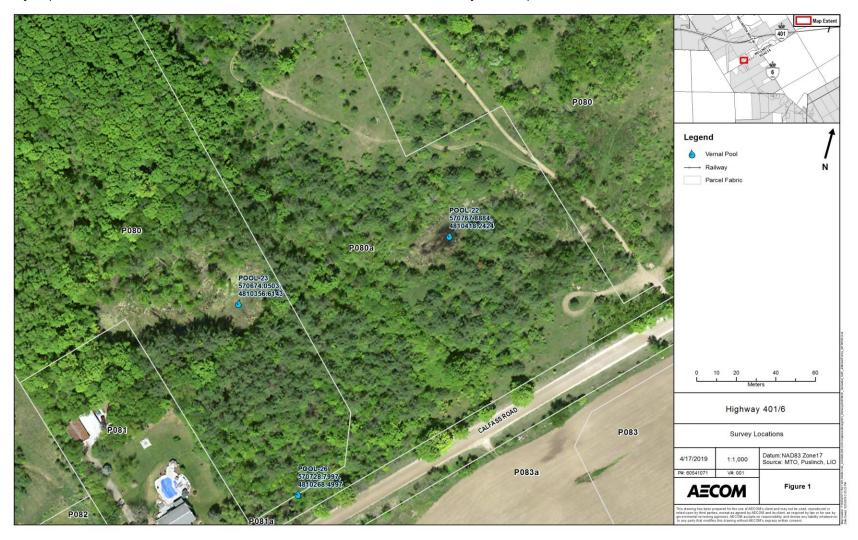
Submit this form along with any samples to Dr. Jim Bogart (with permission) at the University of Guelph; 519-824-4120 (extension 58728). Copies of this form (including forms containing negative observations) must also be submitted to the authorizing MNRF District Office along with the ESA permit and WSCA report.

# SECTION A - TO BE FILLED OUT BY THE COLLECTOR Positive Search Result (circle one): Negative PROJECT TITLE:\_\_\_\_Highway 401/6 **CONTACT INFORMATION:** Name of observer(s): Maria Ciancio and Johanna Perz Affiliation: Mailing Address: AECOM Canada Ltd.,105 Commerce Valley Drive West, 7<sup>th</sup> Floor,Markham, ON L3T 7W3, Phone Number: 905.886.7022 Email: julie.ellis@aecom.com PROPERTY INFORMATION: Site name: Rd CONTREAR PT LOT 30 Property Address: \_\_\_\_\_\_18 Calfass UTM Coordinates (NAD83): \_\_\_\_\_ E N (NOT Lat, Long) (Do not record UTM of each minnow trap, only one coordinate per pond or road location is required) ⊠Both Land Ownership: □Public □Private LANDOWNER INFORMATION: MTO 1 George Ochrym Mailing Address: Last updated: January 2016 Page 1

SAMPLING INFORMATION:
Date(s) of sampling: $0 \frac{\sqrt{10412019} - 09/04/2019}{\sqrt{10412019}}$ (dd/mm/yyyy)
Survey Type (circle one):
Minnow Trap Cover Board Road Pitfall Trap Visual Incidental
Sample Type (circle all that apply):
Tail Tip Roadkill Larvae Egg Mass Visual Observation
Search Effort (time spent, number of minnow traps etc.):
4 traps. 12 hours
# of salamanders observed:
Number of Samples Taken: \
# of adult tail tips: # mortalities: # of larvae:
# of larvae tail tips: # roadkills:
HABITAT INFORMATION:
Average Pond Depth (m):
Pond Description:
Terrestrial Vegetation Community Type: FOMA-2
Other amphibians observed or heard: Spring Peepers heard during trap deployment
Egg Attachment Sites Present: DYes DNo DUnknown 2 mating wood frogs a + ra
Suitable Hydroperiod for Breeding:
Photos Taken:
SECTION B – TO BE FILLED OUT BY DR. BOGART
Date samples received: (dd/mm/yyyy)
Condition of samples received:
IDR #(a):



Maps (Please ensure road names and UTM coordinates are clearly visible)



Wildlife Scientific Collector's Authorization # 1092051 ESA Permit # GU-B-004-18

#### Instructions:

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SECTION A TO BE FILLED OUT BY THE COLLECTOR
Search Result (circle one): Positive Negative
PROJECT TITLE:Highway 401/6
CONTACT INFORMATION:
Name of observer(s): Nataliya Simonova, Olga Hoopach
Affiliation: A E C O M
Mailing Address: AECOM Canada Ltd.,105 Commerce Valley Drive West, 7 <sup>th</sup> Floor,Markham, ON L3T 7W3,
Canada
Phone Number: 905.886.7022 Email: julie.ellis@aecom.com
PROPERTY INFORMATION:
Site name: P80a Pond ID: 22
Property Address: 18 Calfass Rd Con 7 Rear P.T Lot 30
UTM Coordinates (NAD83): 570772 E 4810416 N ( <b>NOT</b> Lat, Long)
(Do not record UTM of each minnow trap, only one coordinate per pond or road location is required)
Land Ownership: ☐Public ☐Private ☐Both
LANDOWNER INFORMATION:
Name: MTO c/o Property Section
Mailing Address:

Last updated: January 2016

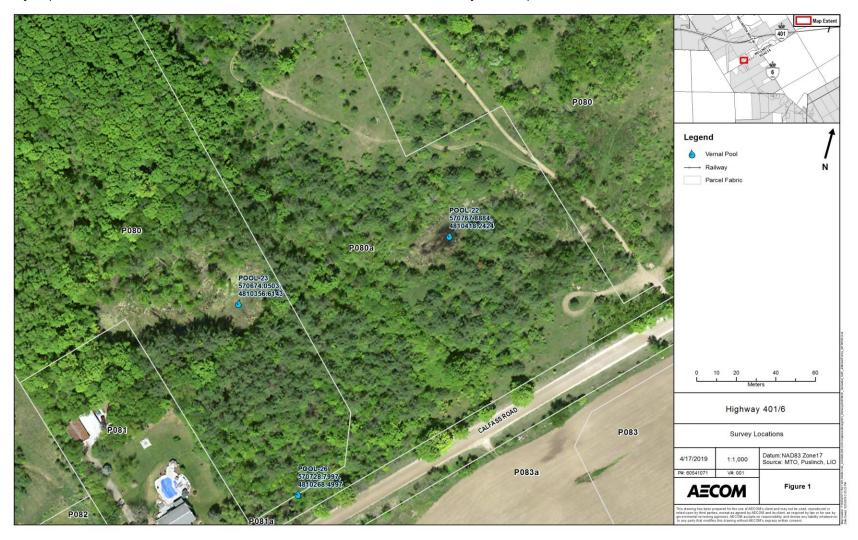
### Wildlife Scientific Collector's Authorization # 1092051 ESA Permit # GU-B-004-18

Page 2

SAMPLING INFORMATION: 12/04/2019
Date(s) of sampling: $13/04/2019$ (dd/mm/yyyy)
Survey Type (circle one):
Minnow Trap Cover Board Road Pitfall Trap Visual Incidental
Sample Type (circle all that apply):
Tail Tip Roadkill Larvae Egg Mass Visual Observation
Search Effort (time spent, number of minnow traps etc.):
4 traps 12 hours
# of salamanders observed: 2 (Ambystoma Sp)
Number of Samples Taken:
# of adult tail tips: # mortalities: # of larvae:
# of larvae tail tips:O_ # roadkills:O_
HABITAT INFORMATION:
Average Pond Depth (m): 0.5 m
Pond Description: Small pard swamp thicket Surrounding,
Pond Description: Small pard, swamp thicket Surrounding, pond fringes Reed Carary Grass Marsy 100% open works
Terrestrial Vegetation Community Type: FOM, SWT, MAM
Other amphibians observed or heard: Spring Peeper
Egg Attachment Sites Present: ☐Yes ☐No ☐Unknown
Suitable Hydroperiod for Breeding: →□Yes □No □Unknown
Photos Taken: Photo #: 0505 - 0500, 0550,0551
SECTION B — TO BE FILLED OUT BY DR. BOGART
Date samples received:(dd/mm/yyyy)
Condition of samples received:
JPB #(s):



Maps (Please ensure road names and UTM coordinates are clearly visible)



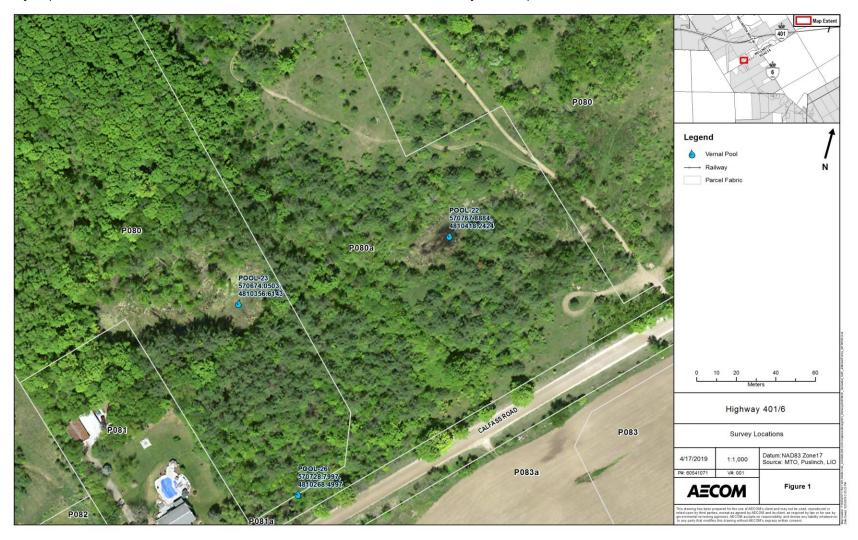
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report.
SECTION A — TO BE FILLED OUT BY THE COLLECTOR
Search Result (circle one): Positive Negative
PROJECT TITLE:Highway 401/6
CONTACT INFORMATION:
Name of observer(s): James Kamstra Edyta Ratajczyk  Affiliation: Edyta Ratajczyk
Mailing Address: AECOM Canada Ltd.,105 Commerce Valley Drive West, 7 <sup>th</sup> Floor,Markham, ON L3T 7W3, Canada
Phone Number: 905.886.7022 Email: julie.ellis@aecom.com
PROPERTY INFORMATION:
Site name: <u>Po2o</u> / <u>Po2</u> Pond ID: <del>78</del> 23
Property Address: 18 Calfass Rd. CON 7 Reas PT 1 of 30 Pog(-77374 Calfass Rd. Puslinch ON UTM Coordinates (NAB83): 576674 E 4810356 N (NOT Lat, Long)
UTM Coordinates (NAD83): 576671 E 4210356 N (NOT Lat, Long)
(Do not record UTM of each minnow trap, only one coordinate per pond or road location is required)
Land Ownership: □Public ☑Private □Both
LANDOWNER INFORMATION:
Name: Po20 -> George Ochrym Po21-> Michael Andrude
Name: Po20-> George Ochrym Po21-> Michael Andrude  Mailing Address: Po20-> 27 Poplar Heights Dr. TorontoCON M9A 5A1  Po21-77374 Caffess Rd. Puslinch ON.
Post -7 7374 Caffe's Rd. Pastirch ON.
Last updated: January 2016 Page 1

SAMPLING INFORMATION: 28/03 / 2019
Date(s) of sampling: 29/03/70/9 (dd/mm/yyyy)
Survey Type (circle-one):
Minnow Trap Cover Board Road Pitfall Trap Visual Incidental
Sample Type (circle all that apply):
Tail Tip Roadkill Larvae Egg Mass Visual Observation
Search Effort (time spent, number of minnow traps etc.):  17 hours, 4 minnow traps
# of salamanders observed:
Number of Samples Taken:  # of adult tail tips: # mortalities: # of larvae: # of larvae: # roadkills:
HABITAT INFORMATION:
Average Pond Depth (m): 0.5  Pond Description: Mts with Food Food, abadent emergent vegetation with  Some downed woody debris in site.  Terrestrial Vegetation Community Type: FoM2-2, FoOS-1  Other amphibians observed or heard: No  Egg Attachment Sites Present: Present: Present: In Indiana Indi
SECTION B — TO BE FILLED OUT BY DR. BOGART
Date samples received:(dd/mm/yyyy)
Condition of samples received:
JPB #(s):



Maps (Please ensure road names and UTM coordinates are clearly visible)



Wildlife Scientific Collector's Authorization # 1092051 ESA Permit # GU-B-004-18

#### Instructions:

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- Pond nomenclature must be consistent for all maps and reports.
- All conditions as per the WSCA and ESA permits must be followed.

must also be submitted to the authorizing MNRF District Office along with the ESA preport.	ermit and WSCA
SECTION A – TO BE FILLED OUT BY THE COLLECTOR	
Search Result (circle one): Positive Negative	
PROJECT TITLE:Highway 401/6	
CONTACT INFORMATION:	
Name of observer(s): Matt Ross Andrew Aberdein Affiliation:	
Mailing Address: AECOM Canada Ltd.,105 Commerce Valley Drive West, 7 <sup>th</sup> Floor,Mark	kham, ON L3T 7W3,
Canada	_
Phone Number: 905.886.7022 Email: julie.ellis@aecom.com	
PROPERTY INFORMATION:	
Site name: P080 Pond ID	22
Site name: P080 Pond ID  Property Address: 18 Calfass Road Con 7 Rear Pt. Lo	H 30
UTM Coordinates (NAD83): 570 765 E 48/04/3 N (NOT Lat, Lor	ng)
(Do not record UTM of each minnow trap, only one coordinate per pond or road loca	tion is required)
Land Ownership: □Public □Private □Both	
Name: Susan McKay (MTO)	
Mailing Address:	1,31
Last updated: January 2016	Page 1

Last updated: January 2016

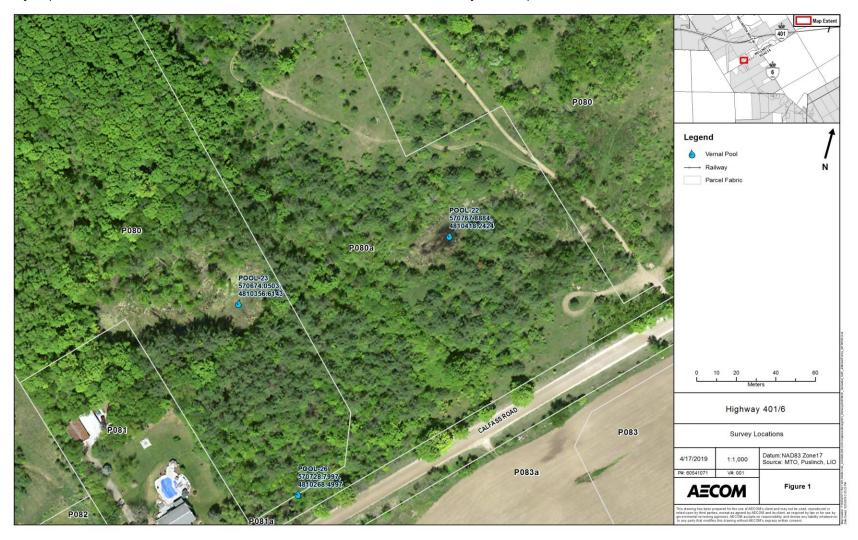
### Wildlife Scientific Collector's Authorization # 1092051 ESA Permit # GU-B-004-18

Page 2

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SAMPLING INFORMATION:
Date(s) of sampling: March 30/2019 (dd/mm/yyyy)
Survey Type (circle one):
Minnow Trap Cover Board Road Pitfall Trap Visual Incidental
Sample Type (circle all that apply):
Tail Tip Roadkill Larvae Egg Mass Visual Observation
Search Effort (time spent, number of minnow traps etc.):
3 traps, 12 hours
# of salamanders observed:
Number of Samples Taken:
# of adult tail tips: # mortalities: # of larvae:
# of larvae tail tips:/ # toadkills: /
HABITAT INFORMATION:
Average Pond Depth (m): 1055 M
Pond Description: Pond Situated within mixed forest
Polid Description.
Terrestrial Vegetation Community Type: FOM 2 - 2
Other amphibians observed or heard: Nove
Egg Attachment Sites Present:
Suitable Hydroperiod for Breeding:
Photos Taken:   □Yes □No Photo #: <u>2012.52</u> -2013.41, 2019.0.4
SECTION B – TO BE FILLED OUT BY DR. BOGART
Date samples received: (dd/mm/yyyy)
Condition of samples received:
JPB #(s):
Seal with the state of the state of
and the second of the second second of the second second



Maps (Please ensure road names and UTM coordinates are clearly visible)



- You must complete a separate form for each pond sampled.
- Each form must be completed in its entirety (including permit numbers).
- Attach two orthophotos showing the location of the pond labelled with UTM coordinates (see example provided):
  - Map 1 must show the pond and local roads or features.
  - Map 2 will be a close-up of the pond (suggested scale 1:1000).
- Pond nomenclature must be consistent for all maps and reports.
- All conditions as per the WSCA and ESA permits must be followed.

тероп.
SECTION A - TO BE FILLED OUT BY THE COLLECTOR
Search Result (circle one): Positive Negative
PROJECT TITLE:Highway 401/6
CONTACT INFORMATION:
Name of observer(s): Xasy Malusu & Nataliya Smarova Affiliation:
Mailing Address: AECOM Canada Ltd.,105 Commerce Valley Drive West, 7 <sup>th</sup> Floor,Markham, ON L3T 7W3,
Canada
Phone Number: 905.886.7022 Email: julie.ellis@aecom.com
PROPERTY INFORMATION:
Site name: <u>PO81/Po80</u> Pond ID: <u>POCL-23</u>
Proporty Address: 2090 -> 13 (10 , 01 (a) 7 A = OCITIZ-
Froperty Address. Was 10 Catters Rd. Con / Rem F1 20150
Property Address: 1080 -> 18 (alfess Rd. Con 7 Reus PT LOT 30  POST -> 7374 Calfess Rd. Pusting ON  UTM Coordinates (NAD83): 570674 E 4810386 N (NOT Lat, Long)
UTM Coordinates (NAD83): 576674 E 486386 N (NOT Lat, Long)  (Do not record UTM of each minnow trap, only one coordinate per pond or road location is required)
UTM Coordinates (NAĎ83): <u>57ο674</u> Ε <u>μ. 4. 10356</u> Ν ( <b>NOT</b> Lat, Long)
UTM Coordinates (NAĎ83): 576674 E 466386 N (NOT Lat, Long)  (Do not record UTM of each minnow trap, only one coordinate per pond or road location is required)
UTM Coordinates (NAĎ83): 570674 E 460386 N (NOT Lat, Long)  (Do not record UTM of each minnow trap, only one coordinate per pond or road location is required)  Land Ownership: Public Private Both  LANDOWNER INFORMATION:  Name: 880 -> 68000 Ochrym Po31 -> Micheel Andrade
UTM Coordinates (NAĎ83): 570674 E 460386 N (NOT Lat, Long)  (Do not record UTM of each minnow trap, only one coordinate per pond or road location is required)  Land Ownership: Public Private Both  LANDOWNER INFORMATION:  Name: 880 -> 68000 Ochrym Po31 -> Micheel Andrade
UTM Coordinates (NAĎ83): 570674 E 460386 N (NOT Lat, Long)  (Do not record UTM of each minnow trap, only one coordinate per pond or road location is required)  Land Ownership: □Public ☑Private □Both  LANDOWNER INFORMATION:

SAMPLING INFORMATION:		
Date(s) of sampling:	12019	dd/mm/yyyy)
Survey Type (circle one):	200 N	
Minnow Trap Cover Board	Road Pitfall Trap Visual Incidental	
Sample Type (circle all that apply):		
Tail Tip Roadkill Larvae	Egg Mass Visual Observation	
Search Effort (time spent, number of r	minnow traps etc.):	
3 traps, 12 hours	<u> </u>	
# of salamanders observed: 1	Ambistoma sp	
Number of Samples Taken:	Į.	
# of adult tail tips: 1	# mortalities: O # of larvae:	
# of larvae tail tips:	# roadkills:	
HABITAT INFORMATION:		
Average Pond Depth (m): 154		
	ed with lots of contails at reed	canan
ONTES:		
Terrestrial Vegetation Community Typ	De: MAM2, SWD, SWT FOM	
Other amphibians observed or heard:	no	
Egg Attachment Sites Present:	☑Yes □No □Unknown	
Suitable Hydroperiod for Breeding:	☑Yes □No □Unknown	
Photos Taken:	Wyes $\square$ No Photo #: $675/,6752,6754-6$ 67-73-67-76,673	6756
	67-73-67-76,673	7-674)
SECTION B — TO BE FILLED OUT	BY DR. BOGART	
Date samples received:	(c	ld/mm/yyyy)
JPB #(s):		

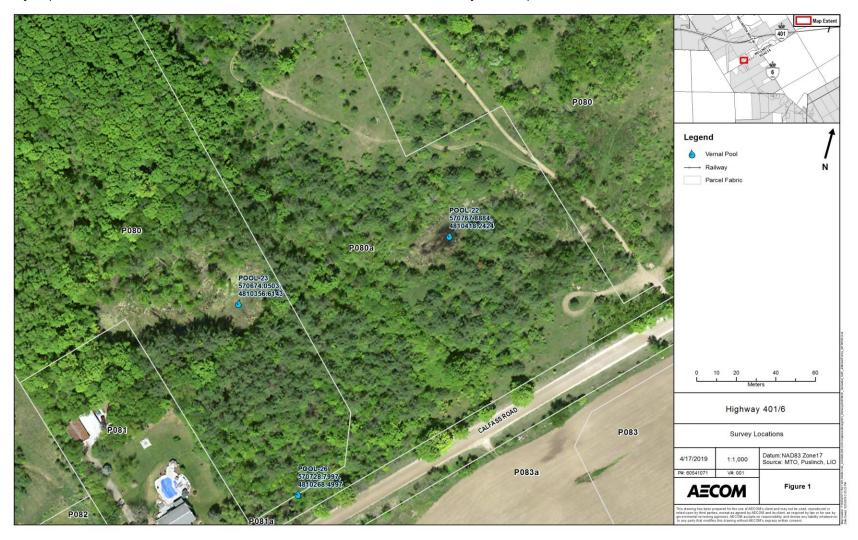
Last updated: January 2016

POOL-23-001

Page 2



Maps (Please ensure road names and UTM coordinates are clearly visible)



Page 1

#### Instructions:

Last updated: January 2016

- You must complete a separate form for each pond sampled.
- Each form must be completed in its entirety (including permit numbers).
- Attach two orthophotos showing the location of the pond labelled with UTM coordinates (see example provided):
  - Map 1 must show the pond and local roads or features.

SECTION A - TO BE FILLED OUT BY THE COLLECTOR

- Map 2 will be a close-up of the pond (suggested scale 1:1000).
- Pond nomenclature must be consistent for all maps and reports.
- All conditions as per the WSCA and ESA permits must be followed.

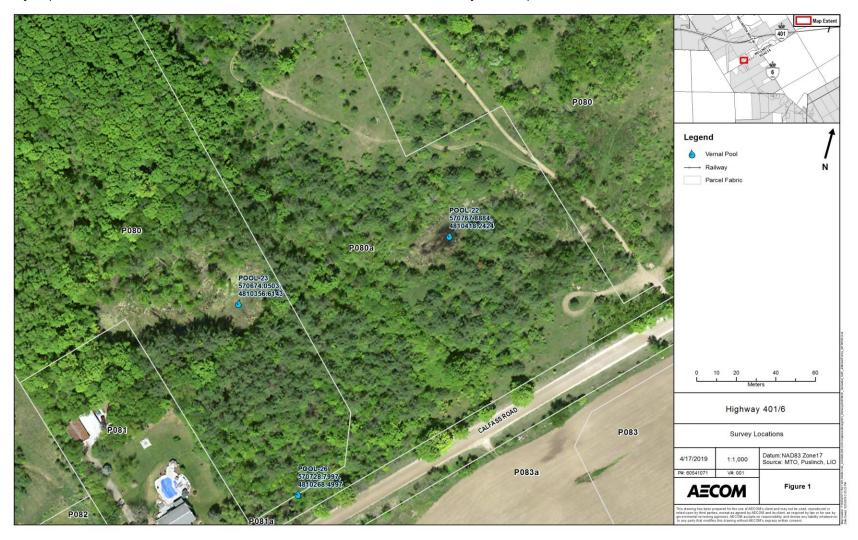
Submit this form along with any samples to Dr. Jim Bogart (with permission) at the University of Guelph; 519-824-4120 (extension 58728). Copies of this form (including forms containing negative observations) must also be submitted to the authorizing MNRF District Office along with the ESA permit and WSCA report.

# Search Result (circle one): Positive Negative PROJECT TITLE: Highway 401/6 **CONTACT INFORMATION:** Name of observer(s): Andrew Miniety Northern De Carlo Mailing Address: AECOM Canada Ltd., 105 Commerce Valley Drive West, 7<sup>th</sup> Floor, Markham, ON L3T 7W3. Phone Number: 905.886.7022 Email: julie.ellis@aecom.com PROPERTY INFORMATION: Site name: Post Post Pond ID: 13 Property Address: Poto -> 18 calfass Rd (on 7 Peur 17 Lot 30 Post -> 7379 calfass Rd. Pastinch ON UTM Coordinates (NAD83): 570674 E 4810356 N (NOT Lat, Long) (**Do not** record UTM of each minnow trap, only one coordinate per pond or road location is required) MPrivate Land Ownership: □Public □Both LANDOWNER INFORMATION: Mailing Address:

SAMPLING INFORMATION:
Date(s) of sampling: 09/04/1019 09/04/2013 (dd/mm/yyyy)
Survey Type (circle one):
Minnow Trap Cover Board Road Pitfall Trap Visual Incidental
Sample Type (circle all that apply):
Tail Tip Roadkill Larvae Egg Mass Visual Observation
Search Effort (time spent, number of minnow traps etc.):
4 traps set for 12 hrs
# of salamanders observed: Zero
Number of Samples Taken:
# of adult tail tips: # mortalities: # of larvae: #
# of larvae tail tips: # roadkills:
HABITAT INFORMATION:  Average Pond Depth (m): D.S.m  Pond Description: Shallow pond/cutton and reed consy marsh
Terrestrial Vegetation Community Type: MAM1, SWD, SWT, Ford
Other amphibians observed or heard: None
Egg Attachment Sites Present: ☑Yes □No □Unknown
Suitable Hydroperiod for Breeding:
Photos Taken:
SECTION B — TO BE FILLED OUT BY DR. BOGART
Date samples received:(dd/mm/yyyy)
Condition of samples received:
JPB #(s):



Maps (Please ensure road names and UTM coordinates are clearly visible)



- You must complete a separate form for each pond sampled.
- Each form must be completed in its entirety (including permit numbers).
- Attach two orthophotos showing the location of the pond labelled with UTM coordinates (see example provided):
  - Map 1 must show the pond and local roads or features.
  - Map 2 will be a close-up of the pond (suggested scale 1:1000).
- Pond nomenclature must be consistent for all maps and reports.
- All conditions as per the WSCA and ESA permits must be followed.

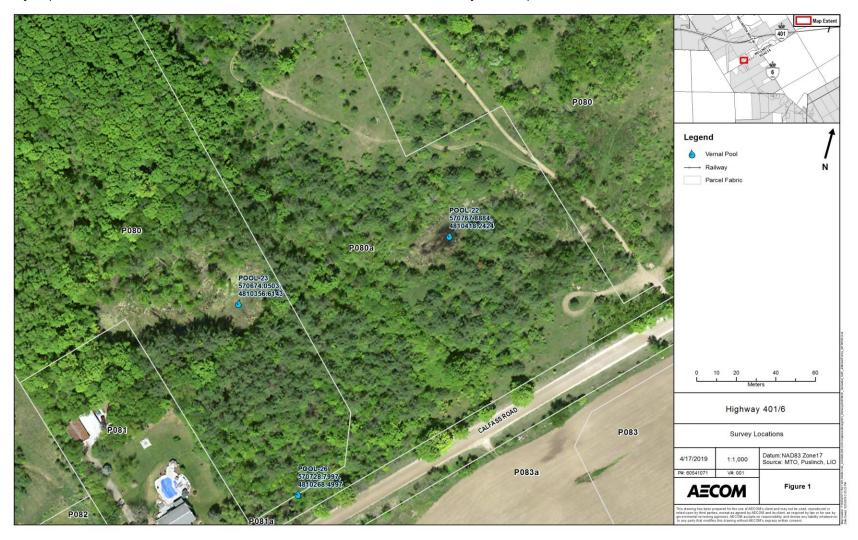
Submit this form along with any samples to Dr. Jim Bogart (with permission) at the University of Guelph; 519-824-4120 (extension 58728). Copies of this form (including forms containing negative observations) must also be submitted to the authorizing MNRF District Office along with the ESA permit and WSCA report.

# SECTION A - TO BE FILLED OUT BY THE COLLECTOR Search Result (circle one): Positive Negative PROJECT TITLE:\_\_\_\_Highway 401/6\_\_\_\_\_ **CONTACT INFORMATION:** Name of observer(s): Nataliya Simonova Olga Hropaeh Affiliation: Mailing Address: AECOM Canada Ltd.,105 Commerce Valley Drive West, 7th Floor, Markham, ON L3T 7W3, Canada Phone Number: 905.886.7022 Email: julie.ellis@aecom.com PROPERTY INFORMATION: Site name: P081 Pond ID: 23 Property Address: \_\_\_\_\_ UTM Coordinates (NAD83): (570034 E (32/0335) N (NOT Lat. Long)(Do not record UTM of each minnow trap, only one coordinate per pond or road location is required) **Private** Land Ownership: □Public □Both LANDOWNER INFORMATION: Name: \_\_\_\_\_ Mailing Address: \_\_\_\_ Last updated: January 2016 Page 1

SAMPLING INFORMATION:
Date(s) of sampling: 13/04/8019 (dd/mm/yyyy)
Survey Type (circle one):
Minnow Trap Cover Board Road Pitfall Trap Visual Incidental
Sample Type (circle all that apply):
Tail Tip Roadkill Larvae Egg Mass Visual Observation
Search Effort (time spent, number of minnow traps etc.):
5 traps by 12 hours
# of salamanders observed:
Number of Samples Taken:
# of adult tail tips: $\underline{\mathcal{O}}$ # mortalities: $\underline{\mathcal{O}}$ # of larvae: $\underline{\mathcal{O}}$
# of larvae tail tips: # roadkills:
HABITAT INFORMATION:
Average Pond Depth (m): \( \int \) 5 m
Pond Description: Shallow poud with cattails and reed caraty grass marsh community  Terrestrial Vegetation Community Type: MAML, SWD, SWT, FOM
grass marsh community
Terrestrial Vegetation Community Type:MAM2, SWD, SWI, FOM
Other amphibians observed or heard: Spring Peeper
Egg Attachment Sites Present: ☑Yes □No □Unknown
Suitable Hydroperiod for Breeding:
Photos Taken:
SECTION B — TO BE FILLED OUT BY DR. BOGART
Date samples received:(dd/mm/yyyy)
Condition of samples received:
JPB #(s):



Maps (Please ensure road names and UTM coordinates are clearly visible)



- You must complete a separate form for each pond sampled.
- Each form must be completed in its entirety (including permit numbers).
- Attach two orthophotos showing the location of the pond labelled with UTM coordinates (see example provided):
  - Map 1 must show the pond and local roads or features.
  - Map 2 will be a close-up of the pond (suggested scale 1:1000).
- Pond nomenclature must be consistent for all maps and reports.
- All conditions as per the WSCA and ESA permits must be followed.

Submit this form along with any samples to Dr. Jim Bogart (with permission) at the University of Guelph; 519-824-4120 (extension 58728). Copies of this form (including forms containing negative observations) must also be submitted to the authorizing MNRF District Office along with the ESA permit and WSCA report.

# SECTION A - TO BE FILLED OUT BY THE COLLECTOR Search Result (circle one): Positive Negative PROJECT TITLE: Highway 401/6 **CONTACT INFORMATION:** Name of observer(s): James Kamstra Edyta Ratajczyk Affiliation: Mailing Address: AECOM Canada Ltd., 105 Commerce Valley Drive West, 7th Floor, Markham, ON L3T 7W3, Canada Phone Number: 905.886.7022 Email: julie.ellis@aecom.com PROPERTY INFORMATION: Site name: Pond ID: 26 Property Address: East of 7374 Concession Callass Rd. Roslinch ION UTM Coordinates (NAD83): 05 70711 E 48 0028 N (NOT Lat, Long) (Do not record UTM of each minnow trap, only one coordinate per pond or road location is required) Ľ₽Both Land Ownership: □Public □Private LANDOWNER INFORMATION: Name: Transportation Ministry Uo Property Section Mailing Address: Page 1 Last updated: January 2016

SAMPLING INFORMATION:				
Date(s) of sampling: 79/03/2019 (dd/mm/yyyy)				
Survey Type (circle one):				
Minnow Trap Cover Board Road Pitfall Trap Visual Incidental				
Sample Type (circle all that apply):				
Tail Tip Roadkill Larvae Egg Mass Visual Observation				
Search Effort (time spent, number of minnow traps etc.):				
11 hours, 4 minnow traps				
# of salamanders observed:				
Number of Samples Taken:				
# of adult tail tips: # mortalities: # of larvae:				
# of larvae tail tips: # roadkills:				
HABITAT INFORMATION:				
Average Pond Depth (m): 12 m				
Pond Description: Pond directly adjucent to Calfess Rd. Small SWD				
area with FOM2-7 community				
Terrestrial Vegetation Community Type: FOMZ-2				
Other amphibians observed or heard: NO				
Egg Attachment Sites Present:				
Suitable Hydroperiod for Breeding: ÞÝYes □No □Unknown				
Photos Taken: Ph				
·				
SECTION B — TO BE FILLED OUT BY DR. BOGART				
Date samples received:(dd/mm/yyyy)				
Condition of samples received:				
JPB #(s):				



Maps (Please ensure road names and UTM coordinates are clearly visible)



Last updated: January 2016

#### Wildlife Scientific Collector's Authorization # 1092051 ESA Permit # GU-B-004-18

Page 1

#### Instructions:

- You must complete a separate form for each pond sampled.
- Each form must be completed in its entirety (including permit numbers).
- Attach two orthophotos showing the location of the pond labelled with UTM coordinates (see example provided):
  - Map 1 must show the pond and local roads or features.

SECTION A - TO BE FILLED OUT BY THE COLLECTOR

- Map 2 will be a close-up of the pond (suggested scale 1:1000).
- Pond nomenclature must be consistent for all maps and reports.
- All conditions as per the WSCA and ESA permits must be followed.

Search Result (circle one): Positive Negative
PROJECT TITLE:Highway 401/6
CONTACT INFORMATION:
Name of observer(s): James Kamstan Edytar Rata; CZyK  Affiliation: AECOM Canada Ltd., 105 Commerce Valley Drive West, 7th Floor, Markham, ON L3T 7W3,
Canada
Phone Number: 905.886.7022 Email: julie.ellis@aecom.com
PROPERTY INFORMATION:
Site name: Posou Pond ID: 76
Property Address: Fast of 7374 Concession Calfuss Rd. Puslish ON
UTM Coordinates (NAD83): 0570711 E 4810028 N (NOT Lat, Long)  (Do not record UTM of each minnow trap, only one coordinate per pond or road location is required)  Land Ownership: □Public □Private □Both
LANDOWNER INFORMATION:
Name: Transportation Ministry Clo Resperty Section
Mailing Address:

SAMPLING INFORMATION:			
Date(s) of sampling: 30 / 63 / 2019 (dd/mm/yyy	y)		
Survey Type (circle one):			
Minnow Trage Cover Board Road Pitfall Trap Visual Incidental			
Sample Type (circle all that apply):			
Tail Tip Roadkill Larvae Egg Mass Visual Observation			
Search Effort (time spent, number of minnow traps etc.):  17.5 hours, 4 minnow Traps	_		
# of salamanders observed:			
Number of Samples Taken:			
# of adult tail tips: # mortalities: # of larvae:			
# of larvae tail tips: # roadkills:			
HABITAT INFORMATION:			
Average Pond Depth (m): MILM  Pond Description: Pond directly adjacent to Cuffess Rd. Small Swo  All within Fond-2 Community.  Terrestrial Vegetation Community Type: Fond - 2  Other amphibians observed or heard: NO  Egg Attachment Sites Present: All Swo  Suitable Hydroperiod for Breeding: All Swo  Photos Taken: All Swo  Omnunity  Omnunity  Omnunity  Omnunity  Omnunity  Omnunity  Other adjacent to Cuffess Rd. Small Swo  Omnunity  Omnunity  Other amphibians observed or heard: NO  Egg Attachment Sites Present: All Swo  Other amphibians observed or heard: NO  Egg Attachment Sites Present: All Swo  Other amphibians observed or heard: NO  Egg Attachment Sites Present: All Swo  Other amphibians observed or heard: NO  Egg Attachment Sites Present: All Swo  Other amphibians observed or heard: NO  Egg Attachment Sites Present: All Swo  Other amphibians observed or heard: NO  Egg Attachment Sites Present: All Swo  Other amphibians observed or heard: NO  Egg Attachment Sites Present: All Swo  Other amphibians observed or heard: NO  Egg Attachment Sites Present: All Swo  Other amphibians observed or heard: NO  Egg Attachment Sites Present: All Swo  Other amphibians observed or heard: NO  Egg Attachment Sites Present: All Swo  Other amphibians observed or heard: NO  Egg Attachment Sites Present: All Swo  Other amphibians observed or heard: NO  Egg Attachment Sites Present: All Swo  Other amphibians observed or heard: NO  Egg Attachment Sites Present: All Swo  Other amphibians observed or heard: NO  Egg Attachment Sites Present: All Swo  Other amphibians observed or heard: NO  Egg Attachment Sites Present: All Swo  Other amphibians observed or heard: NO  Egg Attachment Sites Present: NO  Egg	-		
SECTION B — TO BE FILLED OUT BY DR. BOGART			
Date samples received:(dd/mm/yyyy	')		
Condition of samples received:	_		
JPB #(s):			



Maps (Please ensure road names and UTM coordinates are clearly visible)



Wildlife Scientific Collector's Authorization # 1092051 ESA Permit # GU-B-004-18

#### Instructions:

- You must complete a separate form for each pond sampled.
- Each form must be completed in its entirety (including permit numbers).
- Attach two orthophotos showing the location of the pond labelled with UTM coordinates (see example provided):
  - Map 1 must show the pond and local roads or features.
  - Map 2 will be a close-up of the pond (suggested scale 1:1000).
- Pond nomenclature must be consistent for all maps and reports.
- All conditions as per the WSCA and ESA permits must be followed.

SECTION A — TO BE FILLED OUT BY THE COLLECTOR
Search Result (circle one): Positive Negative
PROJECT TITLE:Highway 401/6
CONTACT INFORMATION:
Name of observer(s): Olga Hropach, Edyta Ratajczyk  Affiliation: HECOM
Affiliation: AECOM
Mailing Address: AECOM Canada Ltd.,105 Commerce Valley Drive West, 7 <sup>th</sup> Floor,Markham, ON L3T 7W3,
Canada
Phone Number: 905.886.7022 Email: julie.ellis@aecom.com
PROPERTY INFORMATION:
Site name: <u>Po80a</u> Pond ID: <u>26</u>
Site name: Po80a Pond ID: 26  Property Address: East of 7374 Concession Calfass Rol Puslim
UTM Coordinates (NAD83): 0570711 E 4810028 N (NOT Lat, Long)
(Do not record UTM of each minnow trap, only one coordinate per pond or road location is required)
Land Ownership: □Public □Private □Both
Name: MTO Property Section
Mailing Address:
Last updated: January 2016 Page 1

SAMPLING INFORMATION:
Date(s) of sampling: $05/04/2019 - 06/04/2019$ (dd/mm/yyyy)
Survey Type (circle one):
Minnow Trap Cover Board Road Pitfall Trap Visual Incidental
Sample Type (circle all that apply):
Tail Tip Roadkill Larvae Egg Mass Visual Observation
Search Effort (time spent, number of minnow traps etc.):  4 + taps 12 hours
# of salamanders observed: Ø
Number of Samples Taken:
# of adult tail tips: # mortalities: # of larvae:
# of larvae tail tips: # roadkills:
HABITAT INFORMATION:
Average Pond Depth (m):
Pond Description:
Terrestrial Vegetation Community Type:
Other amphibians observed or heard:
Egg Attachment Sites Present:
Suitable Hydroperiod for Breeding: ☐Yes ☐No ☐Unknown
Photos Taken:
190421
SECTION B - TO BE FILLED OUT BY DR. BOGART
Date samples received:(dd/mm/yyyy)
Condition of samples received:
JPB #(s):





Wildlife Scientific Collector's Authorization # 1092051 ESA Permit # GU-B-004-18

#### Instructions:

- You must complete a separate form for each pond sampled.
- Each form must be completed in its entirety (including permit numbers).
- Attach two orthophotos showing the location of the pond labelled with UTM coordinates (see example provided):
  - Map 1 must show the pond and local roads or features.
  - Map 2 will be a close-up of the pond (suggested scale 1:1000).
- Pond nomenclature must be consistent for all maps and reports.
- All conditions as per the WSCA and ESA permits must be followed.

SECTION A — TO BE FILLED OUT BY THE COLLECTOR
Search Result (circle one): Positive Negative
PROJECT TITLE:Highway 401/6
CONTACT INFORMATION:
Name of observer(s): Edyta Rafagezyk, Addam McClelland  Affiliation: AECOM
Mailing Address: AECOM Canada Ltd.,105 Commerce Valley Drive West, 7 <sup>th</sup> Floor,Markham, ON L3T 7W3,
Canada
Phone Number: 905.886.7022 Email: julie.ellis@aecom.com
PROPERTY INFORMATION:
Site name: <u>Po80a</u>
Site name: Po80a Pond ID: 16  Property Address: East 0 + 7374 Concession Calfass Rd Puslinch  UTM Coordinates (NAD83): 0570711 E 48/0028 N (NOT Lat, Long)
UTM Coordinates (NAD83): 05707// E 48/0028 N (NOT Lat, Long)
(Do not record UTM of each minnow trap, only one coordinate per pond or road location is required)
Land Ownership: □Public □Private □Both
LANDOWNER INFORMATION:
Name: MTO Property Section
Mailing Address:
Last updated: January 2016 Page 1

SAMPLING INFORMATION:
Date(s) of sampling: O7/O4fg org O 3 / 04 / 2019 (dd/mm/yyyy)
Survey Type (circle one):
Minnow Trap Cover Board Road Pitfall Trap Visual Incidental
Sample Type (circle all that apply):
Tail Tip Roadkill Larvae Egg Mass Visual Observation
Search Effort (time spent, number of minnow traps etc.):
# of salamanders observed:
Number of Samples Taken:
# of adult tail tips: # mortalities: # of larvae:
# of larvae tail tips: # roadkills:
HABITAT INFORMATION:
Average Pond Depth (m):
Pond Description:
Terrestrial Vegetation Community Type:
Other amphibians observed or heard:
Egg Attachment Sites Present:
Suitable Hydroperiod for Breeding:
Photos Taken:
SECTION B — TO BE FILLED OUT BY DR. BOGART
Date samples received:(dd/mm/yyyy)
Condition of samples received:
JPB #(s):





Wildlife Scientific Collector's Authorization # 1092051 ESA Permit # GU-B-004-18

### Instructions:

- You must complete a separate form for each pond sampled.
- Each form must be completed in its entirety (including permit numbers).
- Attach two orthophotos showing the location of the pond labelled with UTM coordinates (see example provided):
  - Map 1 must show the pond and local roads or features.

SECTION A - TO BE FILLED OUT BY THE COLLECTOR

- Map 2 will be a close-up of the pond (suggested scale 1:1000).
- Pond nomenclature must be consistent for all maps and reports.
- All conditions as per the WSCA and ESA permits must be followed.

Search Result (circle one): Positive Negative
PROJECT TITLE:Highway 401/6
CONTACT INFORMATION:
Name of observer(s): Ederta Ratifolizyk Julia Elis Affiliation:
Mailing Address: AECOM Canada Ltd.,105 Commerce Valley Drive West, 7 <sup>th</sup> Floor,Markham, ON L3T 7W3, Canada
Phone Number: 905.886.7022 Email: julie.ellis@aecom.com
PROPERTY INFORMATION:  Site name: PO86 Pond ID: Pol D: Pol
Property Address:
UTM Coordinates (NAD83): E N (NOT Lat, Long)  (Do not record UTM of each minnow trap, only one coordinate per pond or road location is required)
Land Ownership: ☑Public ☑Private ☐Both
Name: Susan McKoy, Property Supervisor, MO West Regr. Mailing Address: 659 Exter Rd, Lendon, On, Not 113
Last updated: January 2016 Page 1

SAMPLING INFORMATION:
Date(s) of sampling: $2019-04-12-13$ (dd/mm/yyyy)
Survey Type (circle one):
Minnow Trap Cover Board Road Pitfall Trap Visual Incidental
Sample Type (circle all that apply):
Tail-Tip Roadkill Larvae Egg Mass Visual Observation
Search Effort (time spent, number of minnow traps etc.):
# of salamanders observed: \( \triangle \)
Number of Samples Taken:
# of adult tail tips: # mortalities: # of larvae: #
# of larvae tail tips: # roadkills:
HABITAT INFORMATION:  Average Pond Depth (m):
Pond Description:
Terrestrial Vegetation Community Type:
Other amphibians observed or heard:
Egg Attachment Sites Present:
Suitable Hydroperiod for Breeding:    Yes   No   Hunknown
Photos Taken: DYes DNo Photo #: 23 97 - 2405, 19 2428 - 19 24 32
SECTION B — TO BE FILLED OUT BY DR. BOGART
Date samples received:(dd/mm/yyyy)
Condition of samples received:
JPB #(s):





#### Instructions:

- You must complete a separate form for each pond sampled.
- Each form must be completed in its entirety (including permit numbers).
- Attach two orthophotos showing the location of the pond labelled with UTM coordinates (see example provided):
  - Map 1 must show the pond and local roads or features.
  - Map 2 will be a close-up of the pond (suggested scale 1:1000).
- · Pond nomenclature must be consistent for all maps and reports.
- · All conditions as per the WSCA and ESA permits must be followed.

SECTION A - TO BE FILLED OUT BY THE COLLECTOR
Search Result (circle one): Positive Negative
PROJECT TITLE:Highway 401/6
CONTACT INFORMATION:
Name of observer(s): tdelfa Datagezyk Julie #15
Affiliation:
Mailing Address: AECOM Canada Ltd.,105 Commerce Valley Drive West, 7th Floor, Markham, ON L3T 7W3,
Canada
Phone Number: 905.886.7022 Email: julie.ellis@aecom.com
PROPERTY INFORMATION:
Site name: P0839 Pond ID: P001-27
Property Address:
UTM Coordinates (NAD83): E N (NOT Lat, Long)
(Do not record UTM of each minnow trap, only one coordinate per pond or road location is required)
Land Ownership: 뗏Public 뗏Private 뗏Both
Name: Susch McKay, Property supervisor noto west region Mailing Address: 659 Fyter Rd, Landon, On, Note 113
Last updated: January 2016 Page 1

SAMPLING INFORMATION:
Date(s) of sampling: $\frac{2019-047-12-13}{2019-047-12-13}$ (dd/mm/yyyy)
Survey Type (circle one):
Minnow Trap Cover Board Road Pitfall Trap Visual Incidental
Sample Type-(circle all that apply):
Tail Tip Roadkill Larvae Egg Mass Visual Observation
Search Effort (time spent, number of minnow traps etc.):
4tres x 12 heer)
# of salamanders observed:
Number of Samples Taken:
# of adult tail tips: # mortalities: # of larvae: # of la
# of larvae tail tips: # roadkills:
HABITAT INFORMATION:
Average Pond Depth (m):
Pond Description:
Terrestrial Vegetation Community Type:
Other amphibians observed or heard:
Egg Attachment Sites Present:
Suitable Hydroperiod for Breeding: BYes UNO UUnknown
Photos Taken:
SECTION B — TO BE FILLED OUT BY DR. BOGART
Date samples received: (dd/mm/yyyy)
Condition of samples received:
Condition of Campies (Continue)





#### Instructions:

- You must complete a separate form for each pond sampled.
- Each form must be completed in its entirety (including permit numbers).
- Attach two orthophotos showing the location of the pond labelled with UTM coordinates (see example provided):
  - Map 1 must show the pond and local roads or features.
  - Map 2 will be a close-up of the pond (suggested scale 1:1000).
- Pond nomenclature must be consistent for all maps and reports.
- All conditions as per the WSCA and ESA permits must be followed.

Submit this form along with any samples to Dr. Jim Bogart (with permission) at the University of Guelph; 519-824-4120 (extension 58728). Copies of this form (including forms containing negative observations) must also be submitted to the authorizing MNRF District Office along with the ESA permit and WSCA report.

## SECTION A - TO BE FILLED OUT BY THE COLLECTOR Search Result (circle one): Positive Negative PROJECT TITLE: \_\_\_Highway 401/6\_\_\_\_\_ **CONTACT INFORMATION:** Name of observer(s): James Kurnstra Edyta Retaiczyk Affiliation: Mailing Address: AECOM Canada Ltd., 105 Commerce Valley Drive West, 7th Floor, Markham, ON L3T 7W3, Canada Phone Number: 905.886.7022 Email: julie.ellis@aecom.com PROPERTY INFORMATION: Site name: Pog4w Pond ID: 27 Property Address: Calfass Rd, Pastich on UTM Coordinates (NAD83): 570743 E 4809999 N (NOT Lat, Long) (**Do not** record UTM of each minnow trap, only one coordinate per pond or road location is required) ⊠Both Land Ownership: □Public □Private LANDOWNER INFORMATION: Name: Transportation Ministry Uo Property Section Mailing Address: Last updated: January 2016 Page 1

SAMPLING INFORMATION:
Date(s) of sampling: 29 103/7019 (dd/mm/yyyy)
Survey Type (circle-one):
Minnow Trap Cover Board Road Pitfall Trap Visual Incidental
Sample Type (circle all that apply):
Tail Tip Roadkill Larvae Egg Mass Visual Observation
Search Effort (time spent, number of minnow traps etc.):
11 hours 4 minnow traps
# of salamanders observed:
Number of Samples Taken:
# of adult tail tips: # mortalities: # of larvae:
# of larvae tail tips: # roadkills:
HABITAT INFORMATION:
Average Pond Depth (m): /- (m)
Pond Description: Pond directly adjacent to Calfass Rd. Small Scull Community.  Terrestrial Vegetation Community Type: Lawn, Agrica hard Land. Fom 2-2 accross street
Community.
Terrestrial Vegetation Community Type: Lawn, Annea hard Land. Fom 2-2 accross street
Other amphibians observed or heard: No
Egg Attachment Sites Present:
Suitable Hydroperiod for Breeding: Syes DNo DUnknown
Photos Taken: Dives DNo Photo #: 1922 - 1948
SECTION B — TO BE FILLED OUT BY DR. BOGART
Date samples received:(dd/mm/yyyy)
Condition of samples received:
JPB #(s):



Maps (Please ensure road names and UTM coordinates are clearly visible)



Page 1

#### **Instructions:**

- You must complete a separate form for each pond sampled.
- Each form must be completed in its entirety (including permit numbers).
- Attach two orthophotos showing the location of the pond labelled with UTM coordinates (see example provided):
  - Map 1 must show the pond and local roads or features.

SECTION A — TO BE FILLED OUT BY THE COLLECTOR

Last updated: January 2016

- Map 2 will be a close-up of the pond (suggested scale 1:1000).
- Pond nomenclature must be consistent for all maps and reports.
- All conditions as per the WSCA and ESA permits must be followed.

Submit this form along with any samples to Dr. Jim Bogart (with permission) at the University of Guelph; 519-824-4120 (extension 58728). Copies of this form (including forms containing negative observations) must also be submitted to the authorizing MNRF District Office along with the ESA permit and WSCA report.

## Negative Search Result (circle one): Positive PROJECT TITLE: Highway 401/6 **CONTACT INFORMATION:** Name of observer(s): Junes Kumstra Edyta Ratajuzzk Affiliation: Mailing Address: AECOM Canada Ltd., 105 Commerce Valley Drive West, 7th Floor, Markham, ON L3T 7W3, Canada Phone Number: 905.886.7022 Email: julie.ellis@aecom.com PROPERTY INFORMATION: Site name: Posta Pond ID: Property Address: Calfass Rd. Puslisch ON UTM Coordinates (NAD83): 570 743 E 490 9909 N (NOT Lat, Long) (Do not record UTM of each minnow trap, only one coordinate per pond or road location is required) **⊠**Both Land Ownership: □Public □Private LANDOWNER INFORMATION: Name: Transportation Ministry 1/0 Property Section Mailing Address:

SAMPLING INFORMATION:
Date(s) of sampling: $30/03/80/9 - 31/03/20/9$ (dd/mm/yyyy)
Survey Type (circle one):
Minnow Trap Cover Board Road Pitfall Trap Visual Incidental
Sample Type (circle all that apply):
Tell Tip Roadkill Larvae Egg Mass Visual Observation
Search Effort (time spent, number of minnow traps etc.):
# of salamanders observed:
# of salamanders observed: O
Number of Samples Taken:
# of adult tail tips: # mortalities: # of larvae:
# of larvae tail tips: # roadkills:
HABITAT INFORMATION:
Average Pond Depth (m): 1 Im
Pond Description: Pond directly adjacent to Calfess RJ. Small SUTZ
Terrestrial Vegetation Community Type: Lown, Agricultural field. For 1-2 across street
Other amphibians observed or heard: No
Egg Attachment Sites Present:
Suitable Hydroperiod for Breeding: Yeyes DNo DUnknown
Photos Taken: Description Photo #: 1037-2053
SECTION B — TO BE FILLED OUT BY DR. BOGART
Date samples received:(dd/mm/yyyy)
Condition of samples received:
JPB #(s):



Maps (Please ensure road names and UTM coordinates are clearly visible)



#### Instructions:

- You must complete a separate form for each pond sampled.
- Each form must be completed in its entirety (including permit numbers).
- Attach two orthophotos showing the location of the pond labelled with UTM coordinates (see example provided):
  - Map 1 must show the pond and local roads or features.
  - Map 2 will be a close-up of the pond (suggested scale 1:1000).
- Pond nomenclature must be consistent for all maps and reports.
- All conditions as per the WSCA and ESA permits must be followed.

SECTION A - TO BE FILLED OUT BY THE COLLECTOR	
Search Result (circle one): Positive Negative	
PROJECT TITLE:Highway 401/6	_
CONTACT INFORMATION:	
Name of observer(s): Dega Hropaen, Edyta Ratajczyk Affiliation: Edyta Ratajczyk	-
Mailing Address: AECOM Canada Ltd.,105 Commerce Valley Drive West, 7 <sup>th</sup> Floor,Markham, ON L3T 7W3	3,
Canada	
Phone Number: 905.886,7022 Email: julie.ellis@aecom.com	
PROPERTY INFORMATION:	
Site name:	
Site name: Po84a Pond ID: 27  Property Address: Calfass Rd, Puslinch DN	
UTM Coordinates (NAD83): <u>570743</u> E <u>4809999</u> N ( <b>NOT</b> Lat, Long)	
(Do not record UTM of each minnow trap, only one coordinate per pond or road location is required)	
Land Ownership: □Public □Private □Both	
Name: MTD Property Section	
Mailing Address:	
Last updated: January 2016 Page 1	

SAMPLING INFORMATION:
Date(s) of sampling: $05/04/2019 - 06/04/2019$ (dd/mm/yyyy)
Survey Type (circle one):
Minnow Trap Cover Board Road Pitfall Trap Visual Incidental
Sample Type (circle all that apply):
Tail Tip Roadkill Larvae Egg Mass Visual Observation
Search Effort (time spent, number of minnow traps etc.):
17 hours, U minnow Traps
# of salamanders observed:
Number of Samples Taken:
# of adult tail tips: # mortalities: # of larvae:
# of larvae tail tips: # roadkills:
HABITAT INFORMATION:
Average Pond Depth (m):
Pond Description:
Terrestrial Vegetation Community Type:
Other amphibians observed or heard:
Egg Attachment Sites Present:
Suitable Hydroperiod for Breeding:
Photos Taken: ☐Yes ☐No Photo #:
SECTION B — TO BE FILLED OUT BY DR. BOGART
Date samples received:(dd/mm/yyyy)
Condition of samples received:
JPB #(s):



Maps (Please ensure road names and UTM coordinates are clearly visible)



Wildlife Scientific Collector's Authorization # 1092051 ESA Permit # GU-B-004-18

#### Instructions:

- You must complete a separate form for each pond sampled.
- Each form must be completed in its entirety (including permit numbers).
- Attach two orthophotos showing the location of the pond labelled with UTM coordinates (see example provided):
  - Map 1 must show the pond and local roads or features.
  - Map 2 will be a close-up of the pond (suggested scale 1:1000).
- Pond nomenclature must be consistent for all maps and reports.
- All conditions as per the WSCA and ESA permits must be followed.

SECTION A — TO BE FILLED OUT BY THE COLLECTOR
Search Result (circle one): Positive Negative
PROJECT TITLE:Highway 401/6
CONTACT INFORMATION:
Name of observer(s): Edyta Ratajczyk Adam McClelland  Affiliation: AECOM
Mailing Address: AECOM Canada Ltd.,105 Commerce Valley Drive West, 7 <sup>th</sup> Floor,Markham, ON L3T 7W3,
Canada
Phone Number: 905.886.7022 Email: julie.ellis@aecom.com
PROPERTY INFORMATION:
Site name: Po 84a Pond ID: 27
Property Address: Calfass Rd, Puslinch DN
UTM Coordinates (NAD83): <u>570743</u> E <u>4809999</u> N ( <b>NOT</b> Lat, Long)
(Do not record UTM of each minnow trap, only one coordinate per pond or road location is required)
Land Ownership: □Public □Private ☑Both
LANDOWNER INFORMATION:
Name: MTO Property Section
Mailing Address:
Last updated: January 2016 Page 1

AMPLING INFORMATION:	
ate(s) of sampling: <u>07/04/2019</u>	v)
urvey Type (circle one):	,
Minnow Trap Cover Board Road Pitfall Trap Visual Incidental	
ample Type (circle all that apply):	
Tail Tip Roadkill Larvae Egg Mass Visual Observation	
earch Effort (time spent, number of minnow traps etc.):	
of salamanders observed:	_
umber of Samples Taken:	-
# of adult tail tips: # mortalities: # of larvae: #	
# of larvae tail tips: # roadkills:	
ABITAT INFORMATION:	
verage Pond Depth (m): ond Description:	
errestrial Vegetation Community Type:	-
ther amphibians observed or heard:	-
gg Attachment Sites Present: TY'es DNo DUnknown	
uitable Hydroperiod for Breeding: └प्रिYes □No □Unknown	
notos Taken:   SYes   No Photo #: 8230-8236, 232Y-234	44
ECTION B — TO BE FILLED OUT BY DR. BOGART	
ate samples received:(dd/mm/yyyy	)
ondition of samples received:	
PB #(s):	



Maps (Please ensure road names and UTM coordinates are clearly visible)



Wildlife Scientific Collector's Authorization # 1092051 ESA Permit # GU-B-004-18

### Instructions:

- You must complete a separate form for each pond sampled.
- Each form must be completed in its entirety (including permit numbers).
- Attach two orthophotos showing the location of the pond labelled with UTM coordinates (see example provided):
  - Map 1 must show the pond and local roads or features.

SECTION A - TO BE FILLED OUT BY THE COLLECTOR

- Map 2 will be a close-up of the pond (suggested scale 1:1000).
- Pond nomenclature must be consistent for all maps and reports.
- All conditions as per the WSCA and ESA permits must be followed.

Search Result (circle one): Positive Negative	and the second s
PROJECT TITLE:Highway 401/6	120 28
CONTACT INFORMATION:	
Name of observer(s): James Kamstra Edyta  Affiliation: AECOM	Ratajezyk
Affiliation: AECOM	
Mailing Address: AECOM Canada Ltd.,105 Commerce Valley Drive W	est, 7 <sup>th</sup> Floor,Markham, ON L3T 7W3,
Canada	
Phone Number: 905.886.7022 Email: julie.ellis@aecom.com	
PROPERTY INFORMATION:	
Site name: Pol6	Pond ID: 28
Property Address: 7337 calfass Rd. Pasinch Con 701	LoTS31 un 32
UTM Coordinates (NAD83): <u>570.43</u> E <u>49.39.985</u>	N (NOT Lat, Long)
(Do not record UTM of each minnow trap, only one coordinate per	oond or road location is required)
Land Ownership: □Public ☑Private □Both	
LANDOWNER INFORMATION:	
Name: Nin Townsend Mckinnon	
Mailing Address	
Last updated: January 2016	Page 1

SAMPLING INFORMATION:	
Date(s) of sampling: 29/09/20/9 (d	ld/mm/yyyy)
Survey Type (circle one):	
Minnow Trap Cover Board Road Pitfall Trap Visual Incidental	
Sample Type (circle all that apply):	
Tail Tip Roadkill Larvae Egg Mass Visual Observation	
Search Effort (time spent, number of minnow traps etc.):  12 hours, 3 minnow traps	
# of salamanders observed: O Zero	
Number of Samples Taken:	
# of adult tail tips: # mortalities: # of larvae: # of larvae: # roadkills:	
# of larvae tail tips: # roadkills:	
HABITAT INFORMATION:	
Average Pond Depth (m): 1-2 m	
Pond Description: Pond Sussaunded	
Terrestrial Vegetation Community Type:	
Other amphibians observed or heard:	
Egg Attachment Sites Present: ☐Yes ☐No ☐Unknown	
Suitable Hydroperiod for Breeding: ☐Yes ☐No ☐Unknown	
Photos Taken: □No Photo #: 1979 - 1984	
SECTION B — TO BE FILLED OUT BY DR. BOGART	······································
Date samples received:(do	d/mm/yyyy)
Condition of samples received:	
JPB #(s):	





Wildlife Scientific Collector's Authorization # 1092051 ESA Permit # GU-B-004-18

### Instructions:

- You must complete a separate form for each pond sampled.
- Each form must be completed in its entirety (including permit numbers).
- Attach two orthophotos showing the location of the pond labelled with UTM coordinates (see example provided):
  - Map 1 must show the pond and local roads or features.
  - Map 2 will be a close-up of the pond (suggested scale 1:1000).
- Pond nomenclature must be consistent for all maps and reports.
- All conditions as per the WSCA and ESA permits must be followed.

Search Result (circle one): Positiv	e Negative
PROJECT TITLE:Highway 401/6	
CONTACT INFORMATION:	
Name of observer(s): Jumes Kams- Affiliation: AECOM Mailing Address: AECOM Canada Ltd., 105 Co Canada Phone Number: 905.886.7022 Email: julie.elli	
PROPERTY INFORMATION:	
Site name: 7886  Property Address: 7337 (c. 15 55 R	d. Puslinch ON
UTM Coordinates (NAD83): 57243	N (NOT Lat, Long)  ly one coordinate per pond or road location is required)
LANDOWNER INFORMATION:	
Name: Ning Townsend Mcking Mailing Address	h

SAMPLING INFORMATION:		
Date(s) of sampling:	30103/1019	(dd/mm/yyyy)
Survey Type (circle one):		(aa,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Minnow Trap Cover Board	I Road Pitfall Trap Visual Incidenta	ıl
Sample Type (circle all that apply):		
Tail Tip Roadkill Larvae	Egg Mass Visual Observation	
Search Effort (time spent, number of	minnow traps etc.): 3 minnow traps	
# of salamanders observed:	Zero	
Number of Samples Taken:		/
# of adult tail tips:	# mortalities: # of larvae	: 1
# of larvae tail tips:	# roadkills:	
HABITAT INFORMATION:		
Average Pond Depth (m): ~ 1-2 m		
Pond Description: Pond Surroun	del by Small tree row and any	ricultural field.
Terrestrial Vegetation Community Typ	De: Agricultural field	
Other amphibians observed or heard:	3	
Egg Attachment Sites Present:	∰Yes □No □Unknown	
Suitable Hydroperiod for Breeding:	☑Yes □No □Unknown	
Photos Taken:	ŽÎYes □No Photo #: <u>1980 - 2032</u>	
SECTION B — TO BE FILLED OUT	BY DR. BOGART	
Date samples received:		(dd/mm/yyyy)
Condition of samples received:		
JPB #(s):		





Wildlife Scientific Collector's Authorization # 1092051 ESA Permit # GU-B-004-18

### Instructions:

- You must complete a separate form for each pond sampled.
- Each form must be completed in its entirety (including permit numbers).
- Attach two orthophotos showing the location of the pond labelled with UTM coordinates (see example provided):
  - Map 1 must show the pond and local roads or features.
  - Map 2 will be a close-up of the pond (suggested scale 1:1000).
- Pond nomenclature must be consistent for all maps and reports.
- All conditions as per the WSCA and ESA permits must be followed.

SECTION A - TO BE FILLED OUT BY THE COLLECTOR
Search Result (circle one): Positive Negative
PROJECT TITLE:Highway 401/6
CONTACT INFORMATION:
Name of observer(s): <u>ERatajCZYK</u> , <u>Olga Hropach</u> Affiliation: <u>AECOM</u>
Mailing Address: AECOM Canada Ltd.,105 Commerce Valley Drive West, 7 <sup>th</sup> Floor,Markham, ON L3T 7W3,
Canada
Phone Number: 905.886.7022 Email: julie.ellis@aecom.com
PROPERTY INFORMATION:
Site name: Po 86 Pond ID:
Site name: Po 86  Property Address: 7337 Calfass Rd Puslinch ON  UTM Coordinates (NAD83): 57293 E 4809989 N (NOT Lat. Long)
UTM Coordinates (NAD83): <u>57293</u> E <u>4809989</u> N ( <b>NOT</b> Lat, Long)
(Do not record UTM of each minnow trap, only one coordinate per pond or road location is required)
Land Ownership: □Public □Private □Both
LANDOWNER INFORMATION:
Name: Nina Townseyd Ackinnon
Mailing Address:
Last updated: January 2016 Page 1

SAMPLING INFORMATION:
Date(s) of sampling: $\frac{66/04/2019 - 05/04/2019}{(dd/mm/yyyy)}$
Survey Type (circle one):
Minnow Trap Cover Board Road Pitfall Trap Visual Incidental
Sample Type (circle all that apply):
Tail Tip Roadkill Larvae Egg Mass Visual Observation
Search Effort (time spent, number of minnow traps etc.):
11,5 hours, 5 minnew Treps
# of salamanders observed:
Number of Samples Taken:
# of adult tail tips: # mortalities: # of larvae:
# of larvae tail tips: # roadkills:
HABITAT INFORMATION:
Average Pond Depth (m):
Pond Description:
Terrestrial Vegetation Community Type:
Other amphibians observed or heard:
Egg Attachment Sites Present:
Suitable Hydroperiod for Breeding:
Photos Taken: DYes DNo Photo #: 227/-2287
SECTION B - TO BE FILLED OUT BY DR. BOGART
Date samples received: (dd/mm/yyyy)
Condition of samples received:
JPB #(s):





### Wildlife Scientific Collector's Authorization # 1092051 ESA Permit # GU-B-004-18

Page 1

#### Instructions:

Last updated: January 2016

- You must complete a separate form for each pond sampled.
- Each form must be completed in its entirety (including permit numbers).
- Attach two orthophotos showing the location of the pond labelled with UTM coordinates (see example provided):
  - Map 1 must show the pond and local roads or features.

SECTION A - TO BE FILLED OUT BY THE COLLECTOR

- Map 2 will be a close-up of the pond (suggested scale 1:1000).
- Pond nomenclature must be consistent for all maps and reports.
- All conditions as per the WSCA and ESA permits must be followed.

Submit this form along with any samples to Dr. Jim Bogart (with permission) at the University of Guelph; 519-824-4120 (extension 58728). Copies of this form (including forms containing negative observations) must also be submitted to the authorizing MNRF District Office along with the ESA permit and WSCA report.

## Search Result (circle one): Positive Negative PROJECT TITLE: Highway 401/6 **CONTACT INFORMATION:** CZYK, Adam McClelland Name of observer(s): Affiliation: Mailing Address: AECOM Canada Ltd., 105 Commerce Valley Drive West, 7th Floor, Markham, ON L3T 7W3. Canada Phone Number: 905.886.7022 Email: julie.ellis@aecom.com PROPERTY INFORMATION: Site name: Po86 Property Address: 7337 Calfass UTM Coordinates (NAD83): 57293 E 4809985 N (NOT Lat, Long) (Do not record UTM of each minnow trap, only one coordinate per pond or road location is required) ∰Private Land Ownership: □Public □Both LANDOWNER INFORMATION: Name: Ning Town send Mckinnon Mailing Address:

SAMPLING INFORMATION:
Date(s) of sampling: $07/04/20/9$ $08/04/20/9$ (dd/mm/yyyy)
Survey Type (circle one):
Minnow Trap Cover Board Road Pitfall Trap Visual Incidental
Sample Type (circle all that apply):
Tail Tip Roadkill Larvae Egg Mass Visual Observation
Search Effort (time spent, number of minnow traps etc.):
12 hours, 3 traps
# of salamanders observed:
Number of Samples Taken:
# of adult tail tips: # mortalities: # of larvae:
# of larvae tail tips: # roadkills:
HABITAT INFORMATION:
Average Pond Depth (m):
Pond Description: Previously completed
Terrestrial Vegetation Community Type:
Other amphibians observed or heard:
Egg Attachment Sites Present:
Suitable Hydroperiod for Breeding: Tyes DNo DUnknown
Photos Taken: ————————————————————————————————————
SECTION B — TO BE FILLED OUT BY DR. BOGART
Date samples received:(dd/mm/yyyy)
Condition of samples received:
JPB #(s):





Wildlife Scientific Collector's Authorization # 1092051 ESA Permit # GU-B-004-18

### Instructions:

- You must complete a separate form for each pond sampled.
- Each form must be completed in its entirety (including permit numbers).
- Attach two orthophotos showing the location of the pond labelled with UTM coordinates (see example provided):
  - Map 1 must show the pond and local roads or features.
  - Map 2 will be a close-up of the pond (suggested scale 1:1000).
- Pond nomenclature must be consistent for all maps and reports.
- All conditions as per the WSCA and ESA permits must be followed.

Submit this form along with any samples to Dr. Jim Bogart (with permission) at the University of Guelph; 519-824-4120 (extension 58728). Copies of this form (including forms containing negative observations) must also be submitted to the authorizing MNRF District Office along with the ESA permit and WSCA report.

SECTION A - TO BE FILLED OUT BY THE COLLECTOR
Search Result (circle one): Positive Negative
PROJECT TITLE:Highway 401/6
CONTACT INFORMATION:
Name of observer(s): Julie Filis / Falore Radeyczyk.  Affiliation:
Mailing Address: AECOM Canada Ltd.,105 Commerce Valley Drive West, 7 <sup>th</sup> Floor,Markham, ON L3T 7W3, Canada
Phone Number: 905.886.7022 Email: julie.ellis@aecom.com
PROPERTY INFORMATION:  Site name: Pod Pond ID: Pod - 20
Property Address:
UTM Coordinates (NAD83): E N (NOT Lat, Long)
(Do not record UTM of each minnow trap, only one coordinate per pond or road location is required)
Land Ownership: □Public □Private □Both
Name: Nina McKinnon-townsend, Gordon McKinnon  Mailing Address:



SAMPLING INFORMATION:
Date(s) of sampling: $200 - 12 - 12 - 3$ (dd/mm/yyyy)
Survey Type (circle one):
Minnow Trap Cover Board Road Pitfall Trap Visual Incidental
Sample Type (circle all that apply):
Tail Tip Roadkill Larvae Egg Mass Visual Observation
Search Effort (time spent, number of minnow traps etc.):
# of salamanders observed:
Number of Samples Taken:
# of adult tail tips: # mortalities: # of larvae: #
# of larvae tail tips: # roadkills:
HABITAT INFORMATION:
Average Pond Depth (m):
Pond Description:
Terrestrial Vegetation Community Type:
Other amphibians observed or heard:
Egg Attachment Sites Present:
Suitable Hydroperiod for Breeding: 🖂Yes 🗆No 🖂Unknown
Photos Taken:
SECTION B — TO BE FILLED OUT BY DR. BOGART
Date samples received:(dd/mm/yyyy)
Condition of samples received:
JPB #(s):





Wildlife Scientific Collector's Authorization # 1092051 ESA Permit # GU-B-004-18

### Instructions:

- You must complete a separate form for each pond sampled.
- Each form must be completed in its entirety (including permit numbers).
- Attach two orthophotos showing the location of the pond labelled with UTM coordinates (see example provided):
  - Map 1 must show the pond and local roads or features.
  - Map 2 will be a close-up of the pond (suggested scale 1:1000).
- Pond nomenclature must be consistent for all maps and reports.
- · All conditions as per the WSCA and ESA permits must be followed.

Submit this form along with any samples to Dr. Jim Bogart (with permission) at the University of Guelph; 519-824-4120 (extension 58728). Copies of this form (including forms containing negative observations) must also be submitted to the authorizing MNRF District Office along with the ESA permit and WSCA report.

report.
SECTION A - TO BE FILLED OUT BY THE COLLECTOR
Search Result (circle one): Positive Negative
PROJECT TITLE:Highway 401/6
CONTACT INFORMATION:
Name of observer(s): Nataling Simonara, Adam McClelland  AECOM
Mailing Address: AECOM Canada Ltd.,105 Commerce Valley Drive West, 7 <sup>th</sup> Floor,Markham, ON L3T 7W3
Canada
Phone Number: 905.886.7022 Email: julie.ellis@aecom.com
PROPERTY INFORMATION:
Site name: <u>P0 88</u> Pond ID: <u>29</u>
Property Address:
UTM Coordinates (NAD83): 80, 119185 E 43,433462 N ( <b>NOT</b> Lat, Long)
(Do not record UTM of each minnow trap, only one coordinate per pond or road location is required)
Land Ownership: □Public ☑Private □Both
LANDOWNER INFORMATION:
Name: Nina S Townsend-McKinnon, Alexa Mckinnon
Mailing Addres
Last updated: January 2016 Page 1

SAMPLING INFORMATION:
Date(s) of sampling: March 14 2019 (dd/mm/yyyy)
Survey Type (circle one):
Minnow Trap Cover Board Road Pitfall Trap Visual Incidental
Sample Type (circle all that apply):
Tail Tip Roadkill Larvae Egg Mass Visual Observation
Search Effort (time spent, number of minnow traps etc.):
2 trups; ice too thick to place a third in suitable location
# of salamanders observed:
Number of Samples Taken:
# of adult tail tips: # mortalities: # of larvae:
# of larvae tail tips: # roadkills:
HABITAT INFORMATION:
Average Pond Depth (m): 0.5 - 1 m
Pond Description: isulated pund in firest / thicket depression, Brunches hunging
over park
Terrestrial Vegetation Community Type: FOD/CUT, MAM
Other amphibians observed or heard:
Egg Attachment Sites Present:
Suitable Hydroperiod for Breeding:
Photos Taken:
SECTION B - TO BE FILLED OUT BY DR. BOGART
Date samples received:(dd/mm/yyyy)
Condition of samples received:
JPB #(s):



Maps (Please ensure road names and UTM coordinates are clearly visible)



Wildlife Scientific Collector's Authorization # 1092051 ESA Permit # GU-B-004-18

### Instructions:

- You must complete a separate form for each pond sampled.
- Each form must be completed in its entirety (including permit numbers).
- Attach two orthophotos showing the location of the pond labelled with UTM coordinates (see example provided):
  - Map 1 must show the pond and local roads or features.
  - Map 2 will be a close-up of the pond (suggested scale 1:1000).
- Pond nomenclature must be consistent for all maps and reports.
- All conditions as per the WSCA and ESA permits must be followed.

Submit this form along with any samples to Dr. Jim Bogart (with permission) at the University of Guelph; 519-824-4120 (extension 58728). Copies of this form (including forms containing negative observations) must also be submitted to the authorizing MNRF District Office along with the ESA permit and WSCA report.

report.
SECTION A - TO BE FILLED OUT BY THE COLLECTOR
Search Result (circle one): Positive Negative
PROJECT TITLE:Highway 401/6
CONTACT INFORMATION:
Name of observer(s): Natuliza Simmova, Adam McGelelland  AECOM
Mailing Address: AECOM Canada Ltd.,105 Commerce Valley Drive West, 7 <sup>th</sup> Floor,Markham, ON L3T 7W3  Canada
Phone Number: 905.886.7022 Email: julie.ellis@aecom.com
PROPERTY INFORMATION:
THOSE LITTER CHARACTER.
Site name: P88 Pond ID: 29
Site name: P88 Pond ID: 29  Property Address: P88
Site name: P88 Pond ID: 29  Property Address: P88  UTM Coordinates (NAD83): 571294 E 4809359 N (NOT Lat, Long)
Site name: P88 Pond ID: 29  Property Address: P88  UTM Coordinates (NAD83): 571294 E 480359 N (NOT Lat, Long)  (Do not record UTM of each minnow trap, only one coordinate per pond or road location is required)  Land Ownership: □Public □Private □Both  LANDOWNER INFORMATION:
Site name: P88 Pond ID: 29  Property Address: P88  UTM Coordinates (NAD83): 571294 E 4809359 N (NOT Lat, Long)  (Do not record UTM of each minnow trap, only one coordinate per pond or road location is required)  Land Ownership: □Public □Private □Both
Site name: P88 Pond ID: 29  Property Address: P88  UTM Coordinates (NAD83): 571294 E 4809359 N (NOT Lat, Long)  (Do not record UTM of each minnow trap, only one coordinate per pond or road location is required)  Land Ownership: Public Private Both  LANDOWNER INFORMATION:  Name: Townsend - Mckinnon Nina S, Mckinnon Alexa

### Wildlife Scientific Collector's Authorization # 1092051 ESA Permit # GU-B-004-18

SAMPLING INFORMATION:  Date(s) of sampling: 22/03/2019  Survey Type (circle one):	(dd/mm/yyyy)
Survey Type (circle one):	(dd/mm/vvvv)
	(==,,,,,,,,,
Attack To Cours Board Band Buffell Took Mount 1 11 11	
Minnow Trap Cover Board Road Pitfall Trap Visual Incidental	
Sample Type (circle all that apply):	
Tail Tip Roadkill Larvae Egg Mass Visual Observation	
Search Effort (time spent, number of minnow traps etc.):	
3 traps deployed for 12 hours	<u> </u>
# of salamanders observed:	
Number of Samples Taken:	
# of adult tail tips: # mortalities: # of larvae:	
# of larvae tail tips: # roadkills:	
HABITAT INFORMATION:	
Average Pond Depth (m): Q7m	
Pond Description: pund at bottom of low-lying area in forest / thick	sat a time t
to agricultural field. Pour sumunded by slope on all sides. Water level decreuse	
Terrestrial Vegetation Community Type: POD / CUT	W > 11 WC   11 ( 133)
Other amphibians observed or heard:	
Egg Attachment Sites Present: ☑Yes □No □Unknown	
Suitable Hydroperiod for Breeding: VZYes DNo DUnknown	
Photos Taken: \(\frac{1}{2}\)Yes \(\Delta\)No \(\Pho\) Photo #: \(\frac{6592}{6593}, \frac{659}{6593}, \frac{65}{6593}	594,6588
6589' 6597-6602	
SECTION B — TO BE FILLED OUT BY DR. BOGART	
Date samples received:	_ (dd/mm/yyyy)
Condition of samples received:	
JPB #(s):	

Last updated: January 2016

Page 2



Maps (Please ensure road names and UTM coordinates are clearly visible)



Last updated: January 2016

### Wildlife Scientific Collector's Authorization # 1092051 ESA Permit # GU-B-004-18

Page 1

#### Instructions:

- You must complete a separate form for each pond sampled.
- Each form must be completed in its entirety (including permit numbers).
- Attach two orthophotos showing the location of the pond labelled with UTM coordinates (see example provided):
  - Map 1 must show the pond and local roads or features.

SECTION A — TO BE FILLED OUT BY THE COLLECTOR

- Map 2 will be a close-up of the pond (suggested scale 1:1000).
- Pond nomenclature must be consistent for all maps and reports.
- All conditions as per the WSCA and ESA permits must be followed.

Submit this form along with any samples to Dr. Jim Bogart (with permission) at the University of Guelph; 519-824-4120 (extension 58728). Copies of this form (including forms containing negative observations) must also be submitted to the authorizing MNRF District Office along with the ESA permit and WSCA report.

## Positive Search Result (circle one): Negative PROJECT TITLE: Highway 401/6 **CONTACT INFORMATION:** Name of observer(s): Kosey Menzie + Notaliya Smonora Affiliation: Mailing Address: AECOM Canada Ltd.,105 Commerce Valley Drive West, 7<sup>th</sup> Floor,Markham. ON L3T 7W3. Canada Phone Number: 905.886.7022 Email: julie.ellis@aecom.com PROPERTY INFORMATION: Site name: <u>PO90</u> Pond ID: <u>+CO</u> Property Address: \_\_\_\_ UTM Coordinates (NAD83): 571765 E 4809049 N (NOT Lat, Long) (Do not record UTM of each minnow trap, only one coordinate per pond or road location is required) Private □Public □Both Land Ownership: LANDOWNER INFORMATION: Mailing Address: \_\_\_\_\_\_

SAMPLING INFORMATION:
Date(s) of sampling: $29/03/2019$ (dd/mm/yyyy)
Survey Type (circle one):
Minnow Trap Cover Board Road Pitfall Trap Visual Incidental
Sample Type (circle all that apply):
Tail Tip Roadkill Larvae Egg Mass Visual Observation
Search Effort (time spent, number of minnow traps etc.):
12 hours, 3 traps
# of salamanders observed:
Number of Samples Taken:
# of adult tail tips: # mortalities: # of larvae:
# of larvae tail tips: # roadkills:
HABITAT INFORMATION:
Average Pond Depth (m):
Marsh @ one end, surrounded by mixed forest
marsh @ one end, surrounded by mixed forest
Terrestrial Vegetation Community Type:
Other amphibians observed or heard:
Egg Attachment Sites Present: □Yes □No □Unknown
Suitable Hydroperiod for Breeding: ☐Yes ☐No ☐Unknown
Photos Taken:
SECTION B — TO BE FILLED OUT BY DR. BOGART
Date samples received:(dd/mm/yyyy)
Condition of samples received:
JPB #(s):





### Wildlife Scientific Collector's Authorization # 1092051 ESA Permit # GU-B-004-18

Page 1

#### Instructions:

Last updated: January 2016

- You must complete a separate form for each pond sampled.
- Each form must be completed in its entirety (including permit numbers).
- Attach two orthophotos showing the location of the pond labelled with UTM coordinates (see example provided):
  - Map 1 must show the pond and local roads or features.
  - Map 2 will be a close-up of the pond (suggested scale 1:1000).
- Pond nomenclature must be consistent for all maps and reports.
- All conditions as per the WSCA and ESA permits must be followed.

Submit this form along with any samples to Dr. Jim Bogart (with permission) at the University of Guelph; 519-824-4120 (extension 58728). Copies of this form (including forms containing negative observations) must also be submitted to the authorizing MNRF District Office along with the ESA permit and WSCA report.

# SECTION A — TO BE FILLED OUT BY THE COLLECTOR Search Result (circle one): Positive Negative PROJECT TITLE: Highway 401/6\_\_\_\_ **CONTACT INFORMATION:** Name of observer(s): Xasy McKenzie + Nataliya Smanava Mailing Address: AECOM Canada Ltd., 105 Commerce Valley Drive West, 7th Floor, Markham, ON L3T 7W3. Phone Number: 905.886.7022 Email: julie.ellis@aecom.com PROPERTY INFORMATION: Pond ID: POOL - 30 Site name: Property Address: UTM Coordinates (NAD83): 57/74/ E 4809068 N (NOT Lat, Long) (**Do not** record UTM of each minnow trap, only one coordinate per pond or road location is required) Land Ownership: □Public □Private □Both LANDOWNER INFORMATION: Mailing Address:

SAMPLING INFORMATION:	
Date(s) of sampling: 30/03/2019 (dd/n	nm/yyyy)
Survey Type (circle one):	
Minnow Trap Cover Board Road Pitfall Trap Visual Incidental	
Sample Type (circle all that apply):	
Tail Tip Roadkill Larvae Egg Mass Visual Observation	
Search Effort (time spent, number of minnow traps etc.):	
12 hours, 4 traps	
# of salamanders observed:	
Number of Samples Taken:	
# of adult tail tips: # mortalities: # of larvae:	
# of larvae tail tips: # roadkills:	
HABITAT INFORMATION:	
Average Pond Depth (m):	
Pond Description:	
Terrestrial Vegetation Community Type:	
Other amphibians observed or heard: NA	
Egg Attachment Sites Present: ☐Yes ☐No ☐Unknown	
Suitable Hydroperiod for Breeding:	
Photos Taken:	
SECTION B — TO BE FILLED OUT BY DR. BOGART	
Date samples received:(dd/m	m/yyyy)
Condition of samples received:	
JPB #(s):	





### Wildlife Scientific Collector's Authorization # 1092051 ESA Permit # GU-B-004-18

### Instructions:

- You must complete a separate form for each pond sampled.
- Each form must be completed in its entirety (including permit numbers).
- Attach two orthophotos showing the location of the pond labelled with UTM coordinates (see example provided):
  - Map 1 must show the pond and local roads or features.

SECTION A - TO BE FILLED OUT BY THE COLLECTOR

- Map 2 will be a close-up of the pond (suggested scale 1:1000).
- Pond nomenclature must be consistent for all maps and reports.
- All conditions as per the WSCA and ESA permits must be followed.

Submit this form along with any samples to Dr. Jim Bogart (with permission) at the University of Guelph; 519-824-4120 (extension 58728). Copies of this form (including forms containing negative observations) must also be submitted to the authorizing MNRF District Office along with the ESA permit and WSCA report.

Search Result (circle one): Positive Negative	
PROJECT TITLE:Highway 401/6	_
CONTACT INFORMATION:	
Name of observer(s): Kary Molenzie & Nataliya Smonova	
Mailing Address: AECOM Canada Ltd.,105 Commerce Valley Drive West, 7 <sup>th</sup> Floor,Markham, ON L3T 7V Canada	N3,
Phone Number: 905.886.7022 Email: julie.ellis@aecom.com	
PROPERTY INFORMATION:	
Site name:Pond ID: Pond	>
Property Address:	
Do not record UTM of each minnow trap, only one coordinate per pond or road location is required)	
_and Ownership: □Public □Private □Both	
_ANDOWNER INFORMATION:	
Name:	
Mailing Address:	
_ast updated: January 2016 Page 1	-

SAMPLING INFORMATION:
Date(s) of sampling: (dd/mm/yyyy)
Survey Type (circle one):
Minnow Trap Cover Board Road Pitfall Trap Visual Incidental
Sample Type (circle all that apply):
Tail Tip Roadkill Larvae Egg Mass Visual Observation
Search Effort (time spent, number of minnow traps etc.):
4 traps, 12 hours
# of salamanders observed:
Number of Samples Taken:
# of adult tail tips: _O_ # mortalities: _O_ # of larvae: _O_
# of larvae tail tips: # roadkills:
HABITAT INFORMATION:  Average Pond Depth (m): 71 m  Pond Description:  Previous form
Terrestrial Vegetation Community Type:
Other amphibians observed or heard:
Egg Attachment Sites Present:
Suitable Hydroperiod for Breeding: 🗹 Yes 🗆 No 🗅 Unknown
Photos Taken: \( \times \text{Yes}  \text{INo} \) Photo #: \( \frac{6757 - 6764}{6776 - 678} \)
SECTION B — TO BE FILLED OUT BY DR. BOGART
Date samples received:(dd/mm/yyyy)
Condition of samples received:
JPB #(s):





### Wildlife Scientific Collector's Authorization # 1092051 ESA Permit # GU-B-004-18

Page 1

#### Instructions:

Last updated: January 2016

- You must complete a separate form for each pond sampled.
- Each form must be completed in its entirety (including permit numbers).
- Attach two orthophotos showing the location of the pond labelled with UTM coordinates (see example provided):
  - Map 1 must show the pond and local roads or features.
  - Map 2 will be a close-up of the pond (suggested scale 1:1000).
- Pond nomenclature must be consistent for all maps and reports.
- All conditions as per the WSCA and ESA permits must be followed.

Submit this form along with any samples to Dr. Jim Bogart (with permission) at the University of Guelph; 519-824-4120 (extension 58728). Copies of this form (including forms containing negative observations) must also be submitted to the authorizing MNRF District Office along with the ESA permit and WSCA report.

# SECTION A - TO BE FILLED OUT BY THE COLLECTOR Search Result (circle one): Positive Negative PROJECT TITLE: Highway 401/6 **CONTACT INFORMATION:** Name of observer(s): Nataliza Simon ova Adam McClelland Mailing Address: AECOM Canada Ltd., 105 Commerce Valley Drive West, 7<sup>th</sup> Floor, Markham, ON L3T 7W3, Phone Number: 905.886.7022 Email: julie.ellis@aecom.com PROPERTY INFORMATION: Property Address: UTM Coordinates (NAD83): 571765 E 48 09 0 49 N (**NOT** Lat, Long) (**Do not** record UTM of each minnow trap, only one coordinate per pond or road location is required) **☑**Private □Public □Both Land Ownership: LANDOWNER INFORMATION: Mailing Address:

SAMPLING INFORMATION:
Date(s) of sampling: 09 / 04 / 20   9 (dd/mm/yyyy)
Survey Type (circle one):
Minnow Trap Cover Board Road Pitfall Trap Visual Incidental
Sample Type (circle all that apply):
Tail Tip Roadkill Larvae Egg Mass Visual Observation
Search Effort (time spent, number of minnow traps etc.):
6 traps 12 hours
# of salamanders observed:
Number of Samples Taken:
# of adult tail tips: # mortalities: # of larvae:
# of larvae tail tips: # roadkills:
HABITAT INFORMATION:  Average Pond Depth (m): 1-1.5 ~  Pond Description: See previous firm
Terrestrial Vegetation Community Type: MAS / NAO
Other amphibians observed or heard: Spring Perper Pseudocris crucifer
Egg Attachment Sites Present: ☑Yes ☐No ☐Unknown
Suitable Hydroperiod for Breeding:
Photos Taken:
<b>,</b>
SECTION B – TO BE FILLED OUT BY DR. BOGART
Date samples received:(dd/mm/yyyy)
Condition of samples received:
JPB #(s):







### Instructions:

- You must complete a separate form for each pond sampled.
- Each form must be completed in its entirety (including permit numbers).
- Attach two orthophotos showing the location of the pond labelled with UTM coordinates (see example provided):
  - Map 1 must show the pond and local roads or features.
  - Map 2 will be a close-up of the pond (suggested scale 1:1000).
- Pond nomenclature must be consistent for all maps and reports.
- All conditions as per the WSCA and ESA permits must be followed.

Submit this form along with any samples to Dr. Jim Bogart (with permission) at the University of Guelph; 519-824-4120 (extension 58728). Copies of this form (including forms containing negative observations) must also be submitted to the authorizing MNRF District Office along with the ESA permit and WSCA report.

SAMPLING INFORMATION:	
Date(s) of sampling: 13/04/8019 (dd/mm/yyy	уу)
Survey Type (circle one):	
Minnow Trap Cover Board Road Pitfall Trap Visual Incidental	
Sample Type (circle all that apply):	
Tail Tip Roadkill Larvae Egg Mass Visual Observation	
Search Effort (time spent, number of minnow traps etc.):  6 traps by 12 hours	_
# of salamanders observed:	_
Number of Samples Taken:	
# of adult tail tips: # mortalities: # of larvae:	
# of larvae tail tips: # roadkills:	
HABITAT INFORMATION:	
Average Pond Depth (m): > 1 m	
Pond Description: Previously completed	
Terrestrial Vegetation Community Type:	_
Other amphibians observed or heard: Spring Peeper, Wood frog, Green from	09
Egg Attachment Sites Present:	0
Suitable Hydroperiod for Breeding: 🗹Yes 🗆No 🗇Unknown	
Photos Taken:	108
SECTION B — TO BE FILLED OUT BY DR. BOGART	
Date samples received:(dd/mm/yyy	y)
Condition of samples received:	_
JPB #(s):	_





Page 1

### Instructions:

Last updated: January 2016

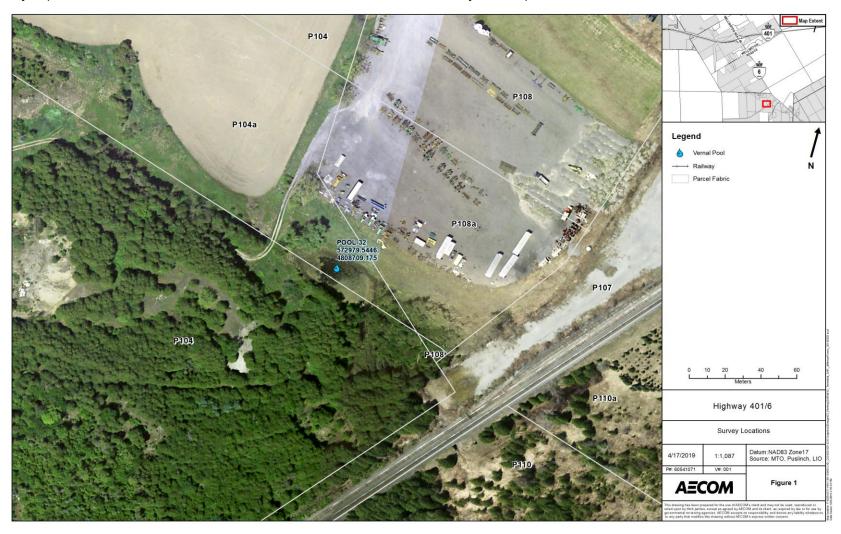
- You must complete a separate form for each pond sampled.
- Each form must be completed in its entirety (including permit numbers).
- Attach two orthophotos showing the location of the pond labelled with UTM coordinates (see example provided):
  - Map 1 must show the pond and local roads or features.
  - Map 2 will be a close-up of the pond (suggested scale 1:1000).
- Pond nomenclature must be consistent for all maps and reports.
- All conditions as per the WSCA and ESA permits must be followed.

Submit this form along with any samples to Dr. Jim Bogart (with permission) at the University of Guelph; 519-824-4120 (extension 58728). Copies of this form (including forms containing negative observations) must also be submitted to the authorizing MNRF District Office along with the ESA permit and WSCA report.

## SECTION A - TO BE FILLED OUT BY THE COLLECTOR Search Result (circle one): Positive Negative PROJECT TITLE: Highway 401/6 **CONTACT INFORMATION:** Name of observer(s): A. Minielly A. McClelland Mailing Address: AECOM Canada Ltd., 105 Commerce Valley Drive West, 7th Floor, Markham, ON L3T 7W3, Phone Number: 905.886.7022 Email: julie.ellis@aecom.com PROPERTY INFORMATION: Site name: PloHa Pond ID: 32 Property Address: Pla4a UTM Coordinates (NAD83): 572963 E 4868707 N (NOT Lat, Long) (Do not record UTM of each minnow trap, only one coordinate per pond or road location is required) Land Ownership: □Public □Private □Both LANDOWNER INFORMATION: Name: Ministry of transportation (MTO) (10 Property Sector Mailing Address: N/A

SAMPLING INFORMATION:
Date(s) of sampling: 15/03/4のタ (dd/mm/yyyy)
Survey Type (circle one):
Minnow Trap Cover Board Road Pitfall Trap Visual Incidental
Sample Type (circle all that apply):
Tail Tip Roadkill Larvae Egg Mass Visual Observation
Search Effort (time spent, number of minnow traps etc.):
4 traps set for 11/2 hours.
# of salamanders observed: Zero
Number of Samples Taken:
# of adult tail tips: # mortalities: # of larvae;
# of larvae tail tips: # roadkills:
HABITAT INFORMATION:
Average Pond Depth (m):
Pond Description: Ponth shoppiox, 60th open water and Hoto Cathail marsh.
Pand begrowally ceder forest to South and grovel portery lot to N
Terrestrial Vegetation Community Type: FacH-1 to south / Con to north
Other amphibians observed or heard: No
Egg Attachment Sites Present:
Suitable Hydroperiod for Breeding:    Yes   No   Unknown
Photos Taken: Photo #: 1/2050, 182409, 182428
SECTION B - TO BE FILLED OUT BY DR. BOGART
Date samples received:(dd/mm/yyyy)
Condition of samples received:
JPB #(s):





Last updated: January 2016

### Wildlife Scientific Collector's Authorization # 1092051 ESA Permit # GU-B-004-18

### Instructions:

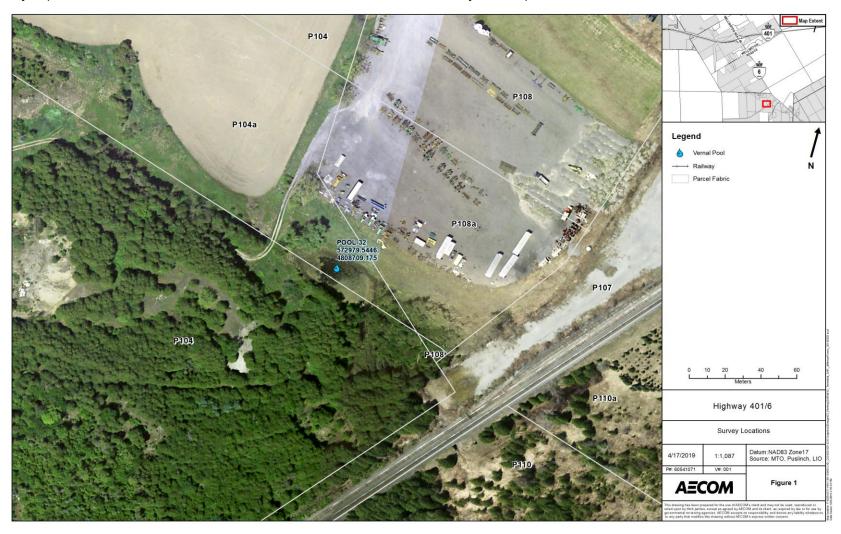
- You must complete a separate form for each pond sampled.
- Each form must be completed in its entirety (including permit numbers).
- Attach two orthophotos showing the location of the pond labelled with UTM coordinates (see example provided):
  - Map 1 must show the pond and local roads or features.
  - Map 2 will be a close-up of the pond (suggested scale 1:1000).
- Pond nomenclature must be consistent for all maps and reports.
- All conditions as per the WSCA and ESA permits must be followed.

Submit this form along with any samples to Dr. Jim Bogart (with permission) at the University of Guelph; 519-824-4120 (extension 58728). Copies of this form (including forms containing negative observations) must also be submitted to the authorizing MNRF District Office along with the ESA permit and WSCA report.

Search Result (circle	one):	Positive	Negative
PROJECT TITLE:	Highway 40	1/6	
CONTACT INFORMA			
Name of observer(s): Affiliation:	Naturliya AECO	Simunos	A Adam McClelland
			rce Valley Drive West, 7 <sup>th</sup> Floor,Markham, ON L3T 7W3,
Phone Number: 905.8	86.7022 Ema	il: julie.ellis@ae	<u>com.com</u>
PROPERTY INFORM	ATION:		
Site name: P404	a		Pond ID: 32
Property Address:			
			N (NOT Lat, Long) ne coordinate per pond or road location is required)
Land Ownership:	IPublic □F	Private □B	Both
LANDOWNER INFORMATION Name:Mailing Address:	RMATION: try of '	transp	ortation (MTO) 1/2 Property See
Last updated: January	2016		Page 1

SAMPLING INFORMATION:
Date(s) of sampling: 22/03/2019 (dd/mm/yyyy)
Survey Type (circle one):
Minnow Trap Cover Board Road Pitfall Trap Visual Incidental
Sample Type (circle all that apply):
Tail Tip Roadkill Larvae Egg Mass Visual Observation
Search Effort (time spent, number of minnow traps etc.):
3 traps deployed for 12 hours
# of salamanders observed:
Number of Samples Taken:
# of adult tail tips: # mortalities: # of larvae:
# of larvae tail tips: # roadkills:
HABITAT INFORMATION:  Average Pond Depth (m): 1.5-2  Pond Description:cattail marsh at edge of cedar forest. Patches of open water
Terrestrial Vegetation Community Type: MAM
Other amphibians observed or heard: NO
Egg Attachment Sites Present: ☐Yes ☐No ☐Unknown
Suitable Hydroperiod for Breeding:
Photos Taken:
SECTION B – TO BE FILLED OUT BY DR. BOGART
Date samples received: (dd/mm/yyyy)
Condition of samples received:
JPB #(s):





Last updated: January 2016

### Wildlife Scientific Collector's Authorization # 1092051 ESA Permit # GU-B-004-18

Page 1

#### Instructions:

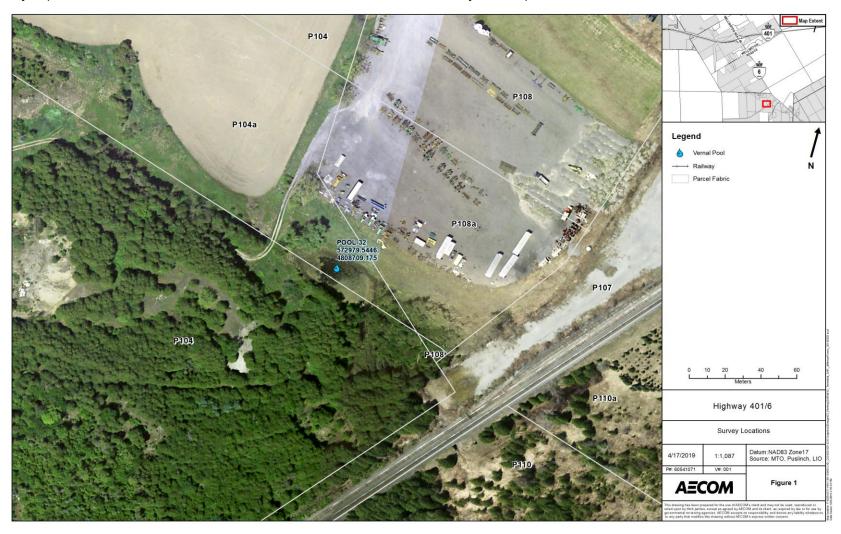
- You must complete a separate form for each pond sampled.
- Each form must be completed in its entirety (including permit numbers).
- Attach two orthophotos showing the location of the pond labelled with UTM coordinates (see example provided):
  - Map 1 must show the pond and local roads or features.
  - Map 2 will be a close-up of the pond (suggested scale 1:1000).
- Pond nomenclature must be consistent for all maps and reports.
- All conditions as per the WSCA and ESA permits must be followed.

Submit this form along with any samples to Dr. Jim Bogart (with permission) at the University of Guelph; 519-824-4120 (extension 58728). Copies of this form (including forms containing negative observations) must also be submitted to the authorizing MNRF District Office along with the ESA permit and WSCA report.

## SECTION A - TO BE FILLED OUT BY THE COLLECTOR Search Result (circle one): Positive Negative PROJECT TITLE:\_\_\_\_Highway 401/6\_\_\_\_ **CONTACT INFORMATION:** Mokenzie a Name of observer(s): Kash Affiliation: Mailing Address: AECOM Canada Ltd., 105 Commerce Valley Drive West, 7<sup>th</sup> Floor, Markham, ON L3T 7W3, Canada Phone Number: 905.886.7022 Email: julie.ellis@aecom.com PROPERTY INFORMATION: Site name: 1040 Pond ID: 200 L - 32 Property Address: UTM Coordinates (NAD83): 572977 E 4808705 N (NOT Lat, Long) (Do not record UTM of each minnow trap, only one coordinate per pond or road location is required) Land Ownership: □Public □Private □Both LANDOWNER INFORMATION: Mailing Address: \_\_\_\_\_\_

SAMPLING INFORMATION:
Date(s) of sampling: 30/03/2019 (dd/mm/yyyy
Survey Type (circle one):
Minnow Trap Cover Board Road Pitfall Trap Visual Incidental
Sample Type (circle all that apply):
Tail Tip Roadkill Larvae Egg Mass Visual Observation
Search Effort (time spent, number of minnow traps etc.):
2 hours, 5-traps
# of salamanders observed: O
Number of Samples Taken:
# of adult tail tips: # mortalities: # of larvae:
# of larvae tail tips: # roadkills:
HABITAT INFORMATION:
Average Pond Depth (m):
Pond Description:
Terrestrial Vegetation Community Type:
Other amphibians observed or heard: NA
Egg Attachment Sites Present: ☑Yes □No □Unknown
Suitable Hydroperiod for Breeding:
Photos Taken:
SECTION B — TO BE FILLED OUT BY DR. BOGART
Date samples received:(dd/mm/yyyy)
Condition of samples received:
JPB #(s):





### Wildlife Scientific Collector's Authorization # 1092051 ESA Permit # GU-B-004-18

Page 1

### Instructions:

Last updated: January 2016

- You must complete a separate form for each pond sampled.
- Each form must be completed in its entirety (including permit numbers).
- Attach two orthophotos showing the location of the pond labelled with UTM coordinates (see example provided):
  - Map 1 must show the pond and local roads or features.

SECTION A - TO BE FILLED OUT BY THE COLLECTOR

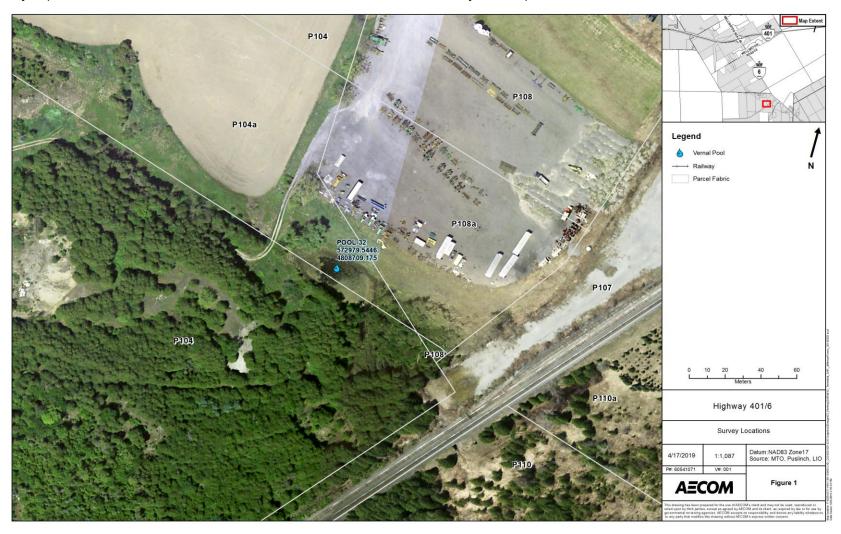
- Map 2 will be a close-up of the pond (suggested scale 1:1000).
- Pond nomenclature must be consistent for all maps and reports.
- All conditions as per the WSCA and ESA permits must be followed.

Submit this form along with any samples to Dr. Jim Bogart (with permission) at the University of Guelph; 519-824-4120 (extension 58728). Copies of this form (including forms containing negative observations) must also be submitted to the authorizing MNRF District Office along with the ESA permit and WSCA report.

Search Result (circle one): Positive Negative				
PROJECT TITLE:Highway 401/6				
CONTACT INFORMATION:				
Name of observer(s): Andrew Minielly Nathon De Carlo  Affiliation: AECOM  Mailing Address: AECOM Canada Ltd., 105 Commerce Valley Drive West, 7 <sup>th</sup> Floor, Markham, ON L3T 7W3,  Canada  Phone Number: 905.886.7022 Email: julie.ellis@aecom.com				
PROPERTY INFORMATION:				
Site name: Ploya Pond ID: Pool-32				
Property Address: Ploto				
UTM Coordinates (NAD83): <u>5 / 1983</u> E <u>4 8 98767</u> N ( <b>NOT</b> Lat, Long)  ( <b>Do not</b> record UTM of each minnow trap, only one coordinate per pond or road location is required)  Land Ownership: □Public ☑Private □Both				
LANDOWNER INFORMATION:				
Name: Ministry of Transportation (MTO) Clo Property Sector  Mailing Address:				

SAMPLING INFORMATION:
Date(s) of sampling: $08/04/2019$ to $09/04/2019$ (dd/mm/yyyy)
Survey Type (circle one):
Minnow Trap Cover Board Road Pitfall Trap Visual Incidental
Sample Type (circle all that apply):
Tail Tip Roadkill Larvae Egg Mass Visual Observation
Search Effort (time spent, number of minnow traps etc.):
6 traps set for 12 hours
# of salamanders observed: 25 Twenty five
Number of Samples Taken:
# of adult tail tips: 20 # mortalities: # of larvae:
# of larvae tail tips: # roadkills:
HABITAT INFORMATION:
Average Pond Depth (m): 10 40 2 m
Pond Description: Pond approx 60% open water and 40% (c. Hail)
marsh. 10% of Pond still covered in ice.
Terrestrial Vegetation Community Type: Fact-1 to S, CUMH to N, SWIZ to E, Any to W
Other amphibians observed or heard: 10 Fastern New to captured in traps. Spring prepers calling
Egg Attachment Sites Present: ☐Yes ☐No ☐Unknown
Suitable Hydroperiod for Breeding: 🛛 Yes 🗆 No 🗅 Unknown
Photos Taken:
SECTION B — TO BE FILLED OUT BY DR. BOGART
Date samples received:(dd/mm/yyyy)
Condition of samples received:
JPB #(s):







CC.

AECOM Canada Architects Ltd. 50 Sportsworld Crossing Road, Suite 290 Kitchener, ON N2P 0A4 Canada

T: 519.650.5313 F: 519.650.3424 www.aecom.com

Date:

To: Kirstie Houston
Senior Environmental Planner
Ministry of Transportation (MTO)
3rd Flr, 659 Exeter Road, London, ON N6E 1L3

Project #: 60541071

From: Kristan Washburn (AECOM)

July 7, 2020

Andrew Minielly (AECOM)

Julie Ellis (AECOM)

Clairissa Myschowoda Regional Species at Risk Specialist Ministry of Environment, Conservation and Parks (MECP)

Graham Buck, Management Biologist Ministry of Natural Resources and Forestry (MNRF) Guelph District

### **Memorandum**

Subject: Results of 2020 Jefferson Salamander Surveys undertaken for the Preliminary Design Update, Detail Design and Class Environmental Assessment Study for the Highways 6 & 401 Improvements (G.W.P. 3042-14-00) under Permit No. GU-B-004-18 issued under 17(2)(b) of the ESA (2007), Wildlife Scientific Collectors Authorization #1095107

#### 1. Introduction

AECOM Canada Ltd. (AECOM) has been retained by the Ministry of Transportation (MTO) to undertake the Preliminary Design Update, Detail Design and Class Environmental Assessment (EA) Study for the Highways 6 & 401 Improvements from Hamilton North Limits to Guelph South Limits including a New Alignment of a Segment of Highway 6 (G.W.P. 3042-14-00), hereafter the Project. The Project's Study Area is illustrated on **Figure 1**.

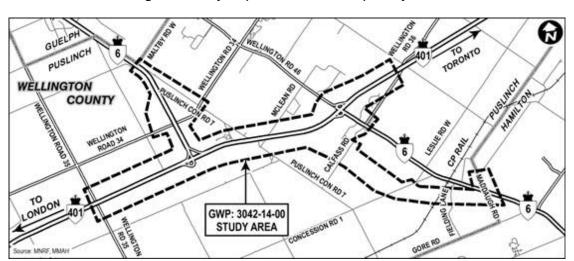


Figure 1: Project (G.W.P. 3042-14-00) Study Area



A third year of species-specific surveys to confirm the presence or absence of Jefferson Salamander (*Ambystoma jeffersonianum*) and Unisexual Ambystoma (Jefferson Salamander dependent population), species which are afforded protection under the *Endangered Species Act* (*ESA*) (2007), were undertaken in 2020 within the Project's Study Area in accordance with the following permits:

- Wildlife Animal Care Protocol (#20-417), renewal date December 2, 2019;
- Wildlife Scientific Collectors Authorization (#1095107), dated January 20, 2020; and,
- ESA 17(2)(b) permit (GU-B-004-18), dated February 14, 2018.

The following memorandum outlines the results of the third year of species-specific surveys for Jefferson Salamander within the Study Area. Results of the 2018 and 2019 surveys (i.e., Years One and Two) were documented in the previously prepared Results of Jefferson Salamander Surveys undertaken for the "Preliminary Design Update, Detail Design and Class Environmental Assessment Study for the Highways 6 & 401 Improvements under Permit No. GU-B-004-18 issued under 17(2)(b) of the ESA (2007), Wildlife Scientific Collectors Authorization #1088798 Technical Memorandums (AECOM, 2018 & 2019). These memoranda were provided to the appropriate agencies (i.e., MECP and MNRF) on November 14, 2018 and November 6, 2019, respectively.

#### 2. Methods

AECOM undertook sampling and subsequent genetic testing to determine the presence of Jefferson Salamander and Jefferson Complex Salamanders in accordance with the Sampling Protocol for Determining the Presence of Jefferson Salamanders (Ambystoma jeffersonianum) in Ontario prepared by the Jefferson Salamander Recovery Team (JSRT) (June, 2013), henceforth referred to as the 2013 Sampling Protocol. The locations of each pool are illustrated in **Attachment A, Figure 1**.

The 2013 Sampling Protocol prescribes live trapping of individuals and tissue collection for genetic testing. Generally, the 2013 Sampling Protocol involves setting minnow traps of the recommended mesh size of 1/8", within vernal pools or ponds considered to be suitable breeding habitat for the Jefferson Salamander in order to live trap individuals present. Commercially available traps had a larger mesh size than 1/8"; therefore, to ensure compliance with the permits and the 2013 Sampling Protocol, AECOM affixed a fine mesh to all traps to reduce the likelihood of injury to captured wildlife. In addition, AECOM used glow sticks within each trap in an effort to attract salamanders to the traps (Grayson & Row, 2007).

Traps were set on or immediately after evenings of suitable weather (i.e., rain and above freezing temperatures). Trapping began after a warm rain event on March 12, 2020. Trapping continued during or immediately after evenings of suitable weather until April 29, 2020 when all sites had received at least five (5) nights of trapping or 20 tail clippings in a single pond were collected. Precise sampling dates per pool are provided in **Table 1**.

The traps which were unbaited, with the exception of the glow sticks, were installed on the pond substrate within 2 to 3 metres (m) of egg mass attachment sites, within the ponds identified in **Attachment A, Figure 1**. All traps were set completely submerged under water. In general, traps were set at 15-20 m intervals around the perimeter of the breeding pond. A minimum of three (3) traps per pond were installed, however in some cases, abundant ice coverage in the ponds hindered the installation of greater than three (3) traps. Traps were tethered to trees or other vegetation and marked with the name of the permit holder and contact information, permit number and dates. UTM co-ordinates and a photo of each trap in situ were collected. Refer to **Attachment B** for a photographic log showing examples of traps in situ.



Traps were removed within 12 hours of being set, at which time any captured salamanders suspected to be a Jefferson Salamander or Unisexual Ambystoma (Jefferson Salamander dependent population) were photographed and a 3 – 5 mm portion of the tail tip was removed as tissue sample. Tissue samples were stored in 70% ethanol solution to be preserved for genetic testing. After tissue sample collection, all salamanders were released back into the pond. Any non-target species found within the traps were immediately released into the ponds. For each survey event, a Jefferson Salamander Field Collection Form, provided by the MNRF, was completed. A Jefferson Salamander Field Collection Form for each sampling event at each pond is provided in **Attachment C**. Tissue samples were provided to the Dr. Bogart laboratory at the University of Guelph along with copies of the associated Jefferson Salamander Field Collection Forms.

All equipment, including traps, and boots were sterilized with an alcohol mist (70% ethanol) between collecting sites. As well, cutting utensils and cutting surfaces were sterilized between Salamanders undergoing tissue sample collection.

#### 3. Results

A total of ten (10) pools were sampled for presence of Jefferson Salamander and Jefferson Complex Salamanders in 2020. A total of five (5) surveys were completed at eight (8) pools. Only four (4) surveys were completed at the remaining two (2) pools, Pool-11 and Pool-32, as the 20 tail clipping threshold was reached on March 30, 2020.

In total, 117 individual salamanders were captured and tail clippings were obtained as tissue samples from 96 of those individuals. Those not sampled were due to evidence of tail clipping from previous years or recaptures within the same year.

No injuries or fatalities occurred during the surveys. One salamander was lethargic upon removal from the traps at Pool-27 on morning of March 13, 2020. It was placed in wet leaf litter near the edge of the pond and permitted to rest.

Genetic testing, conducted by Dr. Bogart of the University of Guelph, has confirmed that all genetic samples were from either Blue Spotted Salamanders (*Ambystoma laterale*) or Blue-spotted Salamander dependant unisexual (*Ambystoma laterale – jeffersonianum*). Neither Jefferson Salamander nor Unisexual Ambystoma (Jefferson Salamander dependent population) were detected in either 2018, 2019 or 2020. Two (2) samples, one (1) from Pool-12 and one (1) from pool 23 could not be identified to species; it is assumed they were too small to undergo genetic testing, however based on current and past results, the individual is considered to be either Blue Spotted Salamander (*Ambystoma laterale*) or Blue spotted Salamander dependant unisexuals (*Ambystoma laterale – jeffersonianum*). Neither of these species receive protection under the ESA.

#### 3.1 Sampling Program Deviations due to the COVID-19

The 2020 sampling program occurred during the early phases of the Coronavirus Disease (COVID-19) pandemic. Due to conditions associated with the pandemic during the field program, staff were unable to access AECOM offices to upload field notes, track progress, print labels and store the tissues samples in a centralized location. As well, it was not feasible to consistently use the same field staff and field co-ordinator throughout the entire program. As a result, one (1) tissue sample from Pool-11 was lost. Because of this, a total of 21 salamanders were clipped from Pool-11 but only 20 tissues samples were sent for genetic testing.

Table 1: Summary of 2020 Survey Results **Table 1** provides a summary of the surveys undertaken at each site as well as the results of the genetic testing of captured salamanders.



Table 1: Summary of 2020 Survey Results

POOL ID	Survey Completion	Date Traps Set	Date Traps Removed	Number of Traps Set	Number of Tail Clippings	Lab Results	Notes	
	Status				Collected			
POOL-11	COMPLETE	12/03/2020	13/03/2020	5	1	Blue Spotted Salamanders (Ambystoma laterale) and Blue-spotted Salamander dependant unisexual	1 potential JESA tail clipping sample lost	
		18/03/2020	19/03/2020	5	0			
		28/03/2020	29/03/2020	6	12	(Ambystoma laterale – jeffersonianum).		
D001 40	001401575	29/03/2020	30/03/2020	6	8			
POOL-12	COMPLETE	03/12/2020	13/3/2020	4	0	Blue Spotted Salamanders ( <i>Ambystoma laterale</i> ) and Blue-spotted Salamander dependant unisexual ( <i>Ambystoma laterale</i> – <i>jeffersonianum</i> ).	2 potential JESA not clipped as it had previously been clipped	
		18/03/2020	19/03/2020	4	0			
		28/03/2020	29/03/2020	8	9			
		29/03/2020	30/03/2020	8	3			
DOOL 45	COMPLETE	07/04/2020	08/04/2020	8	3	Dhus and the difference day day and day to mission and		
POOL-15	COMPLETE	12/03/2020	13/03/2020	6	0	Blue-spotted Salamander dependant unisexual ( <i>Ambystoma laterale</i> – <i>jeffersonianum</i> ).		
		18/03/2020	19/03/2020	6	0			
		28/03/2020	29/03/2020	4	0			
		29/03/2020	30/03/2020	6	3			
		07/04/2020	08/04/2020	6	0			
POOL-16	COMPLETE	03/12/2020	13/3/2020	6	0	Blue Spotted Salamanders ( <i>Ambystoma laterale</i> ) and Blue-spotted Salamander dependant unisexual ( <i>Ambystoma laterale</i> – <i>jeffersonianum</i> ).	1 Green Frog (adult) captured and released unharmed	
		18/03/2020	19/03/2020	6	0		20/02/2020 wood from continued and released	
		28/03/2020	29/03/2020	6	1		30/03/2020 - wood frog captured and released	
		29/03/2020	30/03/2020	6	9			
		07/04/2020	08/04/2020	6	0			
POOL-18	COMPLETE	12/03/2020	13/03/2020	5	0	Blue Spotted Salamanders ( <i>Ambystoma laterale</i> ) and Blue-spotted Salamander dependant unisexual ( <i>Ambystoma laterale</i> – <i>jeffersonianum</i> ).	1 red eft in trap, 1 spring peeper in trap	
		18/03/2020	19/03/2020	5	0		4 lease and an (assumed 5) hand a mineral of their majority of forces and other	
		19/03/2020	20/03/202	6	0		1 salamander (round 5) had a piece of tail missing from predator	
		29/03/2020	30/03/2020	8	2			
		07/04/2020	08/04/2020	10	19			
POOL-22	COMPLETE	03/12/2020	13/3/2020	3	0	N/A		
		19/03/2020	20/03/2020	6	0			
		28/03/2020	29/03/2020	5	0			
		29/03/2020	30/03/2020	5	0			
		08/04/2020	09/04/2020	5	0			
POOL-23	COMPLETE	12/03/2020	13/03/2020	3	0	Blue-spotted Salamander dependant unisexual ( <i>Ambystoma laterale</i> – <i>jeffersonianum</i> ).	one of the captured salamanders (round 2) was clipped last year	
		19/03/2020	20/03/2020	3	2			
		28/03/2020	29/03/2020	6	0			
		29/03/2020	30/03/2020	6	0			
		04/07/2020	04/08/2020	6	0			
		04/07/2020	04/08/2020	4	0			
POOL-27	COMPLETE	03/12/2020	13/3/2020	4	0	Blue Spotted Salamanders (Ambystoma laterale) and	Captured salamander was clipped last year. Therefore, no clipping was taken.	
	COMPLETE	19/03/2020	20/03/2020	4	0	Blue-spotted Salamander dependant unisexual	A coloniandar was latheresis in least we derive the same to the same to the	
POOL-28		28/03/2020	29/03/2020	4	1	(Ambystoma laterale – jeffersonianum).  Blue Spotted Salamanders (Ambystoma laterale) and Blue-spotted Salamander dependant unisexual (Ambystoma laterale – jeffersonianum).	A salamander was lethargic, placed under wet leaves close to the pond, 24	
		29/03/2020	30/03/2020	4	0		hours later, was not longer under leaves. Assumed returned to the pond.	
		04/07/2020	04/08/2020	4	0			
		12/03/2020	13/03/2020	6	0			
		19/03/2020	20/03/2020	6	3			
		28/03/2020	29/03/2020	6	0			
		29/03/2020	30/03/2020	6	0			
DOC: 22		04/07/2020	04/08/2020	6	0			
POOL-32		03/12/2020	13/3/2020	4	0	Blue Spotted Salamanders (Ambystoma laterale) and	1 Newt captured and released unharmed	
		18/03/2020	19/03/2020	6	0	Blue-spotted Salamander dependant unisexual	00/00/0000 about of and	
		19/03/2020	20/03/2020	6	0	(Ambystoma laterale – jeffersonianum).	29/03/2020 - chorus of spring peepers and a few wood frogs	
		29/03/2020	30/03/2020	6	20		30/03/2020 - 2 salamanders released with tail clipped last year; 18 newts throughout traps	
				Total Salamanders:	96		anoughout tupo	
L	1	1	į –	. Juli Julianianiani.	J 30	1		



#### 4. References

#### AECOM, 2018:

Results of Jefferson Salamander Surveys undertaken for the "Preliminary Design Update, Detail Design and Class Environmental Assessment Study for the Highways 6 & 401 Improvements under Permit No. GU-B-004-18 issued under 17(2)(b) of the ESA (2007), Wildlife Scientific Collectors Authorization #1088798. Prepared for the MTO. July 2018.

#### AECOM, 2019:

Results of Jefferson Salamander Surveys undertaken for the "Preliminary Design Update, Detail Design and Class Environmental Assessment Study for the Highways 6 & 401 Improvements under Permit No. GU-B-004-18 issued under 17(2)(b) of the ESA (2007), Wildlife Scientific Collectors Authorization #1088798. Prepared for the MTO. August 2019.

#### Grayson, K.L. and A.W., Row, 2007:

Glow Sticks as Effective Bait for Capturing Aquatic Amphibians in Funnel Traps. Herpetological Review 38, no. 2 (2007): 168-170.

#### Jefferson Salamander Recovery Team (JSRT), 2013:

Sampling Protocol for Determining the Presence of Jefferson Salamanders (*Ambystoma jeffersonianum*) in Ontario. Prepared June 2013

#### **Attachments**

Attachment A: Figure 1

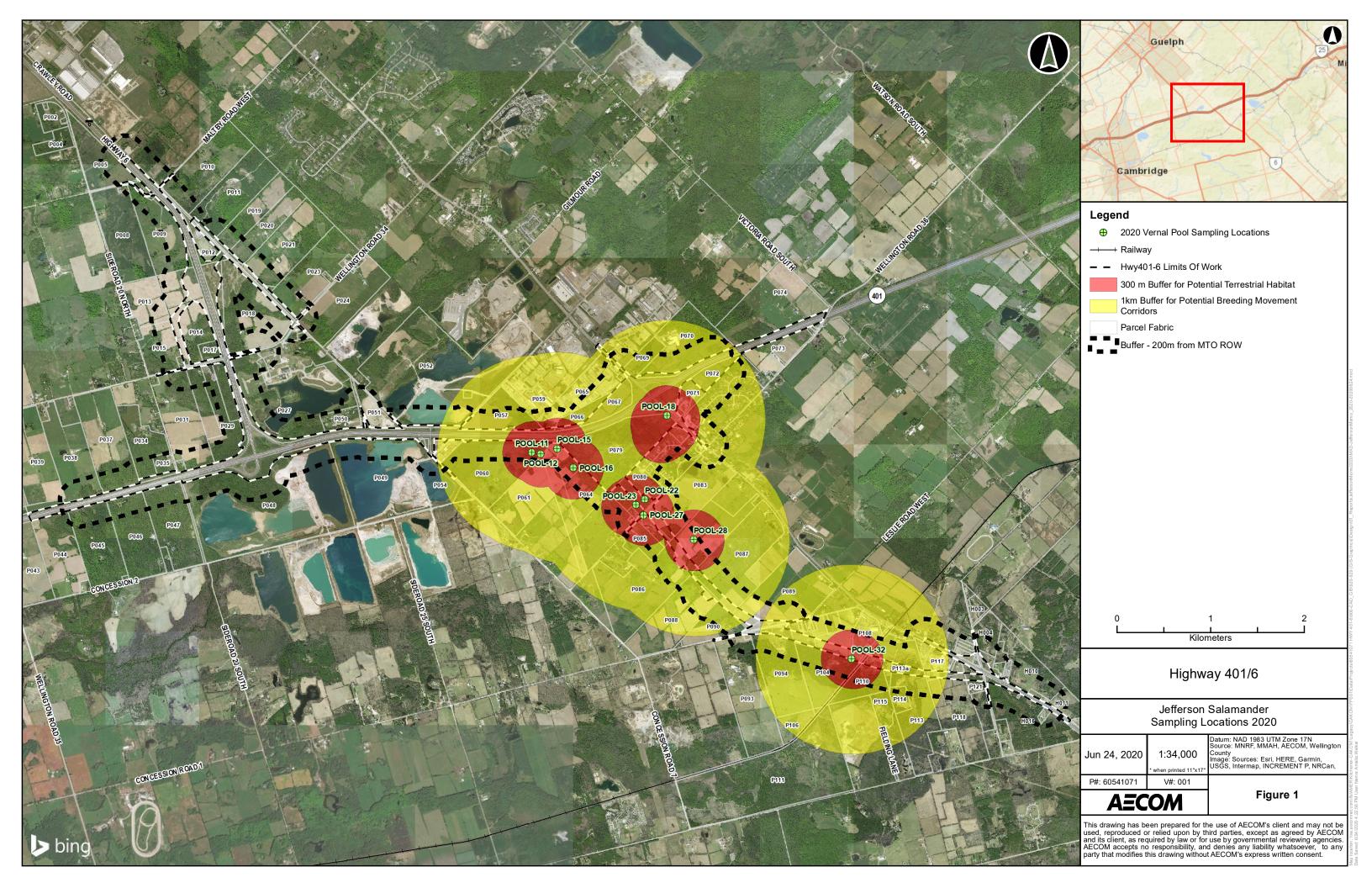
Attachment B: Photographic Log

Attachment C: Field Notes



### Attachment A

Figure 1





# Attachment **B**

**Photographic Log** 





Photograph 1 ↑
Placing trap with glow stick to increase likelihood of capturing salamanders.



Photograph 2 ↑

Trap was tethered to trees with rope and completely submerged, resting on the pond substrate.



Photograph 3 ♠
Each trap was marked with the permit holders contact information and permit information.



Photograph 4 ↑

Trap was removed the following morning, no longer than 12 hours after being set. Salamanders were found within the trap.





Photograph 5 ↑
Salamander was gently removed.



Photograph 6 ↑
Firmly but gently restrain the salamander



Photograph 7 ↑
Using a sterilized razor blade, a small portion of the salamander tail tip was removed..



Photograph 8 ♠
After tissue collection, the salamander was released into the breeding pond.



## Attachment C

**Field Notes** 

#### Wildlife Scientific Collector's Authorization # 1095107 ESA Permit # GU-B-004-18

Page 1

#### Instructions:

Last updated: January 2016

- You must complete a separate form for each pond sampled.
- Each form must be completed in its entirety (including permit numbers).
- Attach two orthophotos showing the location of the pond labelled with UTM coordinates (see example provided):
  - Map 1 must show the pond and local roads or features.
  - Map 2 will be a close-up of the pond (suggested scale 1:1000).
- Pond nomenclature must be consistent for all maps and reports.
- All conditions as per the WSCA and ESA permits must be followed.

Submit this form along with any samples to Dr. Jim Bogart (with permission) at the University of Guelph; 519-824-4120 (extension 58728). Copies of this form (including forms containing negative observations) must also be submitted to the authorizing MNRF District Office along with the ESA permit and WSCA report.

	SECTION A - TO BE FILLED OUT BY THE COLLECTOR							
	Search Result (circle one): Positive Negative							
	PROJECT TITLE:Highway 401/6							
)	CONTACT INFORMATION:							
	Name of observer(s):  Andrew Aberdein + Johanna Perz  AFCOM							
	Affiliation:							
	Mailing Address: AECOM Canada Ltd.,105 Commerce Valley Drive West, 7th Floor, Markham, ON L3T 7W3,							
	Canada							
	Phone Number: 705.797.3283 Email: julie.ellis@aecom.com							
	PROPERTY INFORMATION:							
	Site name: Pond ID: Poul II:							
	Property Address: 1060							
	UTM Coordinates (NAD83): 48.44803 E -80-14043 N (NOT Lat, Long)							
	(Do not record UTM of each minnow trap, only one coordinate per pond or road location is required)							
	(Do not record UTM of each minnow trap, only one coordinate per pond or road location is required)							
	(Do not record UTM of each minnow trap, only one coordinate per pond or road location is required)  Land Ownership: □Private □Both  LANDOWNER INFORMATION:  Name:   ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑							
	(Do not record UTM of each minnow trap, only one coordinate per pond or road location is required)  Land Ownership: □Private □Both  LANDOWNER INFORMATION:							
	(Do not record UTM of each minnow trap, only one coordinate per pond or road location is required)  Land Ownership: □Private □Both  LANDOWNER INFORMATION:  Name:   ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑							

#### Wildlife Scientific Collector's Authorization # 1095107 ESA Permit # GU-B-004-18

SAMPLING INFORMATION:												
Date(s) of sampling: 12/05/200 -	(dd/mm/yyyy)											
Survey Type (circle one):												
Minnow Trap Cover Board Road Pitfall Trap Visual Incidental												
Sample Type (circle all that apply):												
Tail Tip Roadkill Larvae Egg Mass Visual Observation												
Search Effort (time spent, number of minnow traps etc.):												
# of salamanders observed:   S.O.O.pm on March 12,2090 retrieved @ 8:00a												
# of salamanders observed: on Warch 13,2020												
Number of Samples Taken:												
# of adult tail tips: # mortalities: # of larvae: # of larvae tail tips: # roadkills:												
# of larvae tail tips:	# road	kills:										
HABITAT INFORMATION:												
Average Pond Depth (m): 0.25												
Pond Description: open margins on easternedge of pool; shrubs + (												
woody debris at dep	olognent s	sites.		, V								
Terrestrial Vegetation Community Typ	e: FODS-	. \		The Control of the Co								
Other amphibians observed or heard:	None		- W. W. 18									
Egg Attachment Sites Present:	⊠Yes □No	□Unknown										
Suitable Hydroperiod for Breeding:	⊠Yes □No	□Unknown										
Photos Taken:	⊠Yes □No	Photo #:	11 435									
	r		* _									
SECTION B — TO BE FILLED OUT BY DR. BOGART												
Date samples received:			= 8	_ (dd/mm/yyyy)								
Condition of samples received:												
JPB #(s):												



Maps (Please ensure road names and UTM coordinates are clearly visible)

