Wildlife Scientific Collector's Authorization # 1088798 ESA Permit # GU-B-004-18

### Instructions:

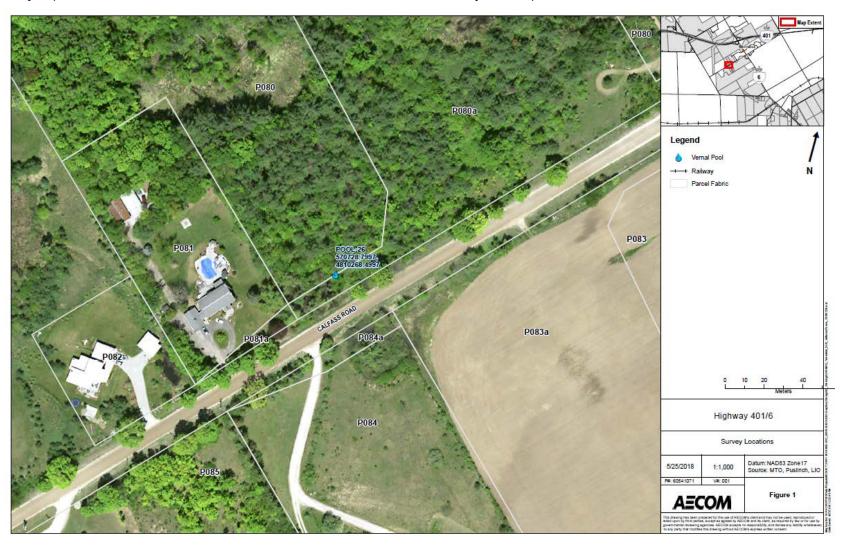
- You must complete a separate form for each pond sampled.
- Each form must be completed in its entirety (including permit numbers).
- Attach two orthophotos showing the location of the pond labelled with UTM coordinates (see example provided):
  - Map 1 must show the pond and local roads or features.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

5	SECTION A - TO BE FILLED OUT BY THE COLLECTOR
5	Search Result (circle one): Positive Negative
F	PROJECT TITLE:Highway 401/6
C	CONTACT INFORMATION:
,	Name of observer(s): E.M. O. Quenton, M. O. Son
	Affiliation: AECAM Des.
٨	Mailing Address: AECOM Canada Ltd.,105 Commerce Valley Drive West, 7 <sup>th</sup> Floor,Markham, ON L3T 7W3,
C	Canada
F	Phone Number: 905.886.7022 Email: julie.ellis@aecom.com
P	ROPERTY INFORMATION:
S	roperty Address: <u>EAST OF 7374 CONCESSION CONFOSS Rd, Puslinch</u> , ON
Р	roperty Address: <u>EACT OF 7374 CONCESSION CONFASS</u> Rd, Puslinch, ON
U	TM Coordinates (NAD83): <u>0570711</u> E 4 <u>8100 2 8</u> N ( <b>NOT</b> Lat, Long)
(E	o not record UTM of each minnow trap, only one coordinate per pond or road location is required)
La	and Ownership: □Public □Private ▲Both
	ANDOWNER INFORMATION:
N	ame: CURRENT MTD - PREVIOUS GEORGE Ocheymound Jan Iwani ure
	ailing Address:
La	st updated: January 2016 Page 1

SAMPLING INFORMATION:	
Date(s) of sampling:O3 / AP	RIL /2018 to 04/APPIL/2018 (dd/mm/yyyy)
Survey Type (circle one):	
Minnow Trap Cover Boar	d 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	
	12 Hours
# of salamanders observed:_NON	
Number of Samples Taken:	
# of adult tail tips: 🏽 👲	# mortalities: # of larvae:
# of adult tail tips: # of larvae tail tips:	# mortalities: # of larvae: # proadkills: # roadkills: # proadkills: # p
HABITAT INFORMATION:	
Average Pond Depth (m). ~ 1 - 2 m	
Pond Description: Pond DIRE	EMERGENTS AND BUCKTOON THICKET.
REED CANARY GRASS E	EMERGIENTS AND BUCKTIBEN THICKET.
Terrestrial Vegetation Community Ty	pe: CUVERT - ALDER THUKET SURINP.
Other amphibians observed or heard	NONE -
55	▼Yes □No □Unknown
Suitable Hydroperiod for Breeding:	
Photos Taken:	Myes INO Photo #: PHOTOS TAKEN OF EMPTY
	NETS-
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 # 1008798 ESA Permit # Gu-8-004-18

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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 I	FILLED OUT BY THE COLLECTOR				
Search Result (circle one	e): Positive Negative				
PROJECT TITLE:	Highwan 401/6				
CONTACT INFORMATION	v				
Name of observer(s): _	Mark Pomeron, Karry Matters Olga Hropach				
Affiliation:	AECOM				
Mailing Address:	105 Commerce Valley Dr W, Markham				
Phone Number:	105 Commerce Valley Dr W, Markham 905-747-7478 Email: 0/gz. Hropach@ Becom.com				
PROPERTY INFORMATION:  Site name: Pond ID: 27					
	. 5/10.				
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: □Pu	blic □Private ☑Both				
LANDOWNER INFORM	ATION:				
Name:					

SAMPLING INFORMATION:					
Date(s) of sampling: 24/02/2	018 2	5/02/2018		(dd/mm/yyyy)	
Survey Type (circle one):	•				
Minnow Trap Cover Board	l Road	Pitfall Trap Vi	sual Incidental		
Sample Type (circle all that apply):					
Tail Tip Roadkill Larvae	Egg Mass	Visual Observ	vation Now		
Search Effort (time spent, number of	minnow traps	etc.):			
12 hours 3 trap	5				
# of salamanders observed:		***			
Number of Samples Taken:					
# of adult tail tips:	# mo	ortalities: <u>Ø</u>	# of larvae: <u></u>	<u>5</u>	
# of larvae tail tips:		adkills: <u>Ø</u>			
HABITAT INFORMATION:					
Average Pond Depth (m):					
Pond Description: road side @	driveway	redosier	dogwood and co	Hail	
Terrestrial Vegetation Community Type	 oe:				
Other amphibians observed or heard:					
Egg Attachment Sites Present:					
Suitable Hydroperiod for Breeding:	□Yes □No	Unknown			
Photos Taken:	Mayes □No	Photo #:	1/200	2 12 100 - 2	
SECTION B — TO BE FILLED OUT	BY DR. BO	GART			
Date samples received:			8)	_ (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.
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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 **CONTACT INFORMATION:** Name of observer(s): Olga Hropach Megan Olson Affiliation: AECON Canada CTD - Field Staff 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 17</u> Property Address: Unknown UTM Coordinates (NAD83): <u>5 70761</u> E <u>481 0159</u> 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: Peter and Cella Clark Mailing Address: 7377 Calfass Rd. Con 7, Prastingh ON NOB 2 Page 1 Last updated: January 2016

SAMPLING INFORMATION:				
Date(s) of sampling: $25/3/2015$ (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, 12 hours				
# of salamanders observed:				
Number of Samples Taken:				
# of adult tail tips: # mortalities: # of larvae: #				
# of adult tail tips: # mortalities: # of larvae: # of larvae: # roadkills: # roadkills:				
HABITAT INFORMATION:				
Average Pond Depth (m): O.6m				
by Road. Appears to be a floodal last with backthorn thicket				
by Road. Appears to be a floodel lawn with buckthorn thinked				
Terrestrial Vegetation Community Type: MAS				
Other amphibians observed or heard:				
Egg Attachment Sites Present: ☐Ýes ☐No ☐Unknown				
Suitable Hydroperiod for Breeding: Tyes TNo TUnknown				
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 # 1088798 ESA Permit # GU-B-004-18

#### 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):
  - 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): Olga Hropach Megan Okon Affiliation: Affiliation: Canada Utd Field Staff 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-27  Property Address:					
UTM Coordinates (NAD83): 0570761 E 4810259 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: Peter and cella Clark  Mailing Address:					
Last updated: January 2016 N 0B 2JO Page 1					

Last updated: January 2016

### Wildlife Scientific Collector's Authorization # 1088798 ESA Permit # GU-B-004-18

Page 2

SAMPLING INFORMATION:	
Date(s) of sampling: 29/03/2018	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 minnow traps etc.):  At Pool 27, 3 minnow traps set at 8:00 pm March 2	7,2018 and 0
# of salamanders observed:	am M
Number of Samples Taken:	29
# of adult tail tips: # mortalities: # of larvae:	
# of larvae tail tips: # roadkills:	
HABITAT INFORMATION:	
Average Pond Depth (m): 0.6 m	15 / 1
Pond Description: Pool 27 is located on Side of Calfass Rocal, in by and Appears to be a flooded town with Buckthon/Dogw	nnedialely
by and Appeas to be a flooded lown with Buckthorn / Dogw	ood thicket
Terrestrial Vegetation Community Type:	
Other amphibians observed or heard: Nove	accord shrihs
Egg Attachment Sites Present:   Yes   No   Unknown   Buckthom   dg	1000a Small
Suitable Hydroperiod for Breeding:	
Photos Taken:   DYes DNo Photo #: 0020,002	-
SECTION B — TO BE FILLED OUT BY DR. BOGART  Date samples received:	dd/mm/yyyy)



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



Page 1

#### Instructions:

Last updated: January 2016

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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): Heather Kimo Johanna Port			
	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:			
	Property Address: 1084			
	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: Transportation Ministry C/O Property Section  Mailing Address:			
)	Ividinity Address.			

SAMPLING INFORMATION:						
Date(s) of sampling: 29/03/201	8 pm	30/03/2018	am	· · · · · · · · · · · · · · · · · · ·	(dd/mm/yyyy)	
Survey Type (circle one):						
Minnow Trap Cover Boar	d Road	Pitfall Trap	Visual	Incidental		
Sample Type (circle all that apply): /	none					
Tail Tip Roadkill Larvad	e Egg Ma	ss Visual Obs	servation			
Search Effort (time spent, number of	minnow trap	s etc.):				
412 hrs 3 traps						
# of salamanders observed:		<u> </u>				
Number of Samples Taken:						
# of adult tail tips: <u>M/a</u>	# п	nortalities: <u>n / a</u>	1	# of larvae: 4/4	1	
# of larvae tail tips: <u>N</u>	# re	padkills: <u>In / a</u>	3			
HABITAT INFORMATION:	HABITAT INFORMATION:					
Average Pond Depth (m):						
Pond Description:	<u> </u>					
Terrestrial Vegetation Community Ty	pe:					
Other amphibians observed or heard	l:					
Egg Attachment Sites Present:	□Yes □I	No □Unknowi	n			
Suitable Hydroperiod for Breeding:	□Yes □I	No □Unknowi	n			
Photos Taken:	□Yes □l	No Photo #: _			<u> </u>	
SECTION B — TO BE FILLED OU	T BY DR. B	OGART		-		
Date samples received:					(dd/mm/yyyy)	
Condition of samples received:						
JPB #(s):		3000				

Last updated: January 2016

28/29

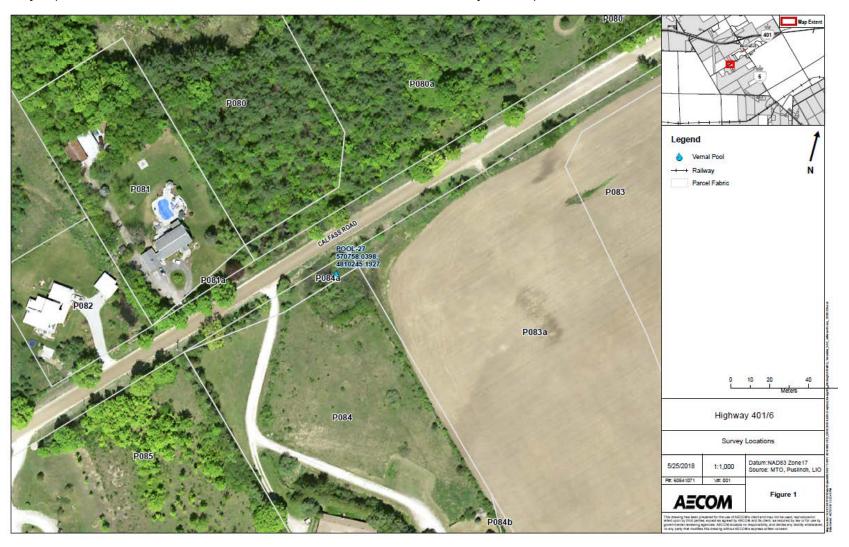
2018

notes

Page 2



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):  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: Highway 401/6 - PO84 Pond ID: POOL-27  Property Address: Calfass Rd, Pushch, ON
	UTM Coordinates (NAD83): 0576743 E 4809999 N (NOT Lat, Long)  (Do not record UTM of each minnow trap, only one coordinate per pond or road location is required)  Land Ownership:     Private   MBoth
	LANDOWNER INFORMATION:  Name: CUELTENT MTO, PREMIUS - Peter and Color Clark  Mailing Address:
7	Last updated: January 2016 Page 1

Last updated: January 2016

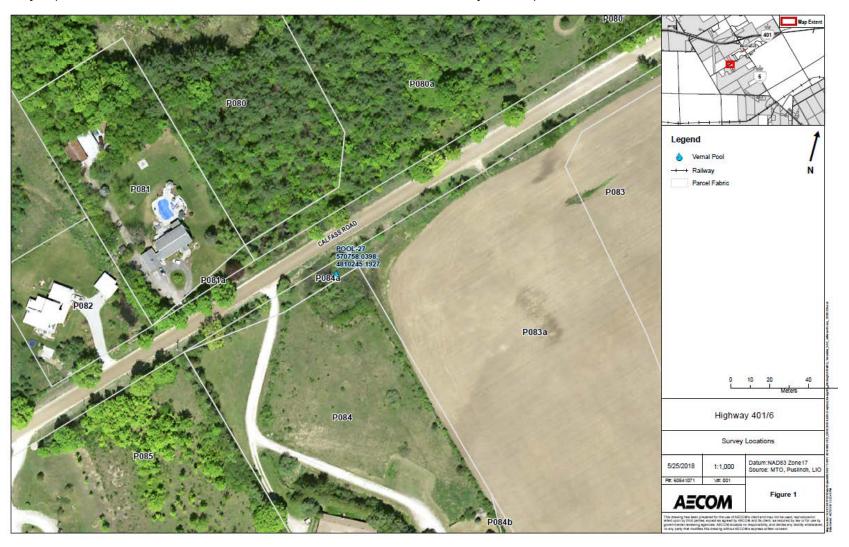
Wildlife Scientific Collector's Authorization # 1088798 ESA Permit # GU-B-004-18

Page 2

CAMPLING INFORMATION:						
SAMPLING INFORMATION:						
Date(s) of sampling: 03 / APRIL/2018 to 04/APRIL/2018 (dd/mm/yyyy)						
Survey Type (circle one):						
Minnow Trap Cover Board Road Pitfall Trap Visual Incidental						
Sample Type (circle all that apply): NONE						
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: NONE OBSERVED						
Number of Samples Taken:						
# of adult tail tips: # mortalities: # of larvae:						
# of adult tail tips: # mortalities: # of larvae: # of larvae tail tips: # roadkills:						
HABITAT INFORMATION:						
Average Pond Depth (m): ~ Im						
Pond Description: POND DIRECTLY NEXT TO CALFASS P.D AND MANICURES						
CESIDENTIAL LANDSCAPE SHEUBBY WITH CHINTEY GIGIS EMILA GIANT.						
Terrestrial Vegetation Community Type: MHS / THI UKEX						
Other amphibians observed or heard: NONE						
Egg Attachment Sites Present:						
Suitable Hydroperiod for Breeding:						
Photos Taken: XYes INo Photo #: PHOTOS TAKEN OF EMPTY						
NETS.						
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

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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.
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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): Nataliya Simonova, Heather Ki	me
Affiliation:	
Mailing Address: AECOM Canada Ltd.,105 Commerce Valley Drive West, 7 <sup>th</sup> Floor,Markha	am, ON L3T 7W3,
Canada	
Phone Number: 905.886.7022 Email: julie.ellis@aecom.com	
PROPERTY INFORMATION:	
Site name: Pond ID:	28
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	n is required)
Land Ownership: □Public □Private □Both	
LANDOWNER INFORMATION:	
Name:	
Mailing Address:	

SAMPLING INFORMATION:	
Date(s) of sampling: 01/03/2018	(dd/mm/yyyy)
Survey Type (circle one):	
Minnow Trap Cover Board Road Pitfall Trap Visual Inci	dental
Sample Type (circle all that apply):	
Tail Tip Roadkill Larvae Egg Mass Visual Observation	
Search Effort (time spent, number of minnow traps etc.):  11 h 30 m 3 - minnow + raps	
# of salamanders observed:	
Number of Samples Taken:	·~^
# of adult tail tips: # mortalities: # of larvae tail tips: # roadkills:	arvae:
# of adult tail tips: # mortalities: # of larvae tail tips: # roadkills:	(
HABITAT INFORMATION:	
Average Pond Depth (m): 1 m	12- 0-01
Pond Description: Size of pond 50 × 40 m, open thicket and weodland border with mosa Terrestrial Vegetation Community Type: CUW, HR and ag	water 85/0,
thicket and weodland border with mosa	ich marsh cun
Terrestrial Vegetation Community Type:	Timumac +1
Other amphibians observed or heard:	
Egg Attachment Sites Present: □Yes ■No □Unknown	
Suitable Hydroperiod for Breeding: ■Yes □No □Unknown	
	EF 11111-1117
Photos Taken:   □Yes □No Photo #: 1150 → 11	55, 1142-1147
	55,1142-1147
Photos Taken:   □Yes □No Photo #: 1150 → 11	55,1142-1147
Photos Taken:  A133, 1136, 1138  SECTION B – TO BE FILLED OUT BY DR. BOGART	
Photos Taken:	
Photos Taken:  Yes No Photo #: 1150 > 11  1133, 1136, 1138  SECTION B - TO BE FILLED OUT BY DR. BOGART	(dd/mm/yyyy)



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



SAMPLING INFORMATION:
Date(s) of sampling: $\frac{27/03/2018}{}$ (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 minnow traps etc.):
N/A, found incidentally walking on the way back from Pond
# of salamanders observed: 1
Number of Samples Taken:
# of adult tail tips: # mortalities: # of larvae:
# of larvae tail tips: # roadkills:
HABITAT INFORMATION:
- age of
Average Pond Depth (m): N/A eage of Pond Description: Found in Forest ~ 120 m from pand (n
Pond Description: +()\(\gamma\)\(\ga
Terrestrial Vegetation Community Type: FU//
Terrestrial Vegetation Community Type: FOD  Other amphibians observed or heard: NOOP
Other amphibians observed or heard: None.
Other amphibians observed or heard: NOOC.  Egg Attachment Sites Present: □Yes ☑No □Unknown
Other amphibians observed or heard: NOOP  Egg Attachment Sites Present: DYes DNo DUnknown  Suitable Hydroperiod for Breeding: DYes DNo DUnknown
Other amphibians observed or heard: NOOC.  Egg Attachment Sites Present: □Yes ☑No □Unknown
Other amphibians observed or heard: NOOC.  Egg Attachment Sites Present: DYes DNo DUnknown  Suitable Hydroperiod for Breeding: DYes DNo DUnknown  Photos Taken: DYes DNo Photo #: 9 9 10 11
Other amphibians observed or heard: NOOC.  Egg Attachment Sites Present: DYes DNo DUnknown Suitable Hydroperiod for Breeding: DYes DNo DUnknown Photos Taken: DYes DNo Photo #: 9, 9, 10, 11  SECTION B – TO BE FILLED OUT BY DR. BOGART
Other amphibians observed or heard: NOOC.  Egg Attachment Sites Present: DYes DNo DUnknown  Suitable Hydroperiod for Breeding: DYes DNo DUnknown  Photos Taken: DYes DNo Photo #: 9 9 10 11
Other amphibians observed or heard: NOOC.  Egg Attachment Sites Present: DYes DNo DUnknown Suitable Hydroperiod for Breeding: DYes DNo DUnknown Photos Taken: DYes DNo Photo #: 9, 9, 10, 11  SECTION B – TO BE FILLED OUT BY DR. BOGART

### Wildlife Scientific Collector's Authorization # 1088798 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 **Positive** Search Result (circle one): 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. Phone Number: 905.886.7022 Email: julie.ellis@aecom.com PROPERTY INFORMATION: Pond ID: W/ Site name: Property Address: 4310093 N (NOT Lat, Long) UTM Coordinates (NAD83): 057161 (Do not record UTM of each minnow trap, only one coordinate per pond or road location is required) □Public Private Land Ownership: □Both LANDOWNER INFORMATION:



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

- 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.

Mailing Address:

Last updated: January 2016

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): Olaya Kropach Megan Olson 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: \_\_\_\_\_\_ Pond ID: <u>Pool - 28</u> Property Address: Do 86 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) ☑Private Land Ownership: □Public □Both LANDOWNER INFORMATION: Name: Nina S Townsend Mckinnon

SAMPLING INFORMATION:				
Date(s) of sampling: 29/03/	2018			(dd/mm/yyyy)
Survey Type (circle one):				
Minnow Trap Cover Board	Road P	tfall Trap Visua	Incidental	60
Sample Type (circle all that apply):				
ail Tip Roadkill Larvae	Egg Mass	Visual Observation	n	
Search Effort (time spent, number of r	ninnow traps et	c.):		
3 traps set, 12 hours				
# of salamanders observed:	zero			
Number of Samples Taken:		,		,
# of adult tail tips:	# mort	alities: Ø	# of larvae: _	<u>Ø</u>
# of larvae tail tips:	# road	kills: Ø		•
HABITAT INFORMATION:				
Average Pond Depth (m): -1-2m				
Pond Description: Pond appro	rs to be	a previous	decidious	Forest poll
Now Surrounded by ac	pricultual (	orn crop.	<u> </u>	
Terrestrial Vegetation Community Typ	De: Agricult	ural field		
Other amphibians observed or heard:	NO		<u> </u>	
Egg Attachment Sites Present:	⊡Ýes □No			
Suitable Hydroperiod for Breeding:	☑Yes □No	□Unknown		
Photos Taken:	☑Yes □No	Photo #: <u>Ool -</u>	006	
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)



#### 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 CO	OLLECTOR	
Search Result (circle or	ne): Positive	Negative	
PROJECT TITLE:	_Highway 401/6		
CONTACT INFORMAT	ION:		
Affiliation: Mailing Address: AECO	AECOM	rce Valley Drive West, 7 <sup>th</sup> Floor,N	
Phone Number: 905.88	6.7022 Email: julie.ellis@ae	com.com	
PROPERTY INFORMA	ATION:		
Site name: Roc	01-28	Ponc 7 culfoss R1, Pus	11D: <u>Pool-28</u>
UTM Coordinates (NAD (Do not record UTM of	D83): <u>571193</u> E each minnow trap, only or	N (NOT Late coordinate per pond or road	Long)
Land Ownership: □F	<sup>2</sup> ublic ⊠Private □E	Soth	
LANDOWNER INFORI			
Name: Nine 510  Mailing Address: Por 13	which concession Sox 1130 Timm	7, Lot 31 and 32 ins, ON P4N 7H	9
Last updated: January 2	2016		Page 1

SAMPLING INFORMATION:
Date(s) of sampling: 03/36/2018 (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 minnow traps etc.):
4 traps set for 12 hours
# of salamanders observed: 2 Two
Number of Samples Taken:
# of adult tail tips: # mortalities: # of larvae:
# of larvae tail tips: # roadkills:
HABITAT INFORMATION:
Average Pond Depth (m): 1m
Pond Description: Size of pond 50x40m, open Later 85%. Thicket and Woodland boarder with mosaic Marsh Community  Terrestrial Vegetation Community Type: CUW, HR and agricultural field
Woodland boarder with mosaic much community
Terrestrial Vegetation Community Type: CUW, HR and acrecultural 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 #: 636-643
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): E. M. Waughton, M. Olson Affiliation: AECOM DCS
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: Can Session 1 7337 Confess Rd. Puslinch, on
Property Address: Confession 1 7337 Confess Rd, Puslinch, on
UTM Coordinates (NAD83): DS 75713 E 4809999 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: NINA S. TOUNSEND-MCKINNON
Mailing Address: CONCESSION 1 7337 Calfass Rd, Pustinch, on
PO Box 1130 Timmins, ON P4N 7H9
Last updated: January 2016 Page 1

SAMPLING INFORMATION:	
Date(s) of sampling: APRIC	3, 2018 - April 4, 2018 (dd/mm/yyyy)
Survey Type (circle one):	
Minnow Trap Cover Boa	ard Road Pitfall Trap Visual Incidental
Sample Type (circle all that apply):	
Tail Tip Roadkill Larva	
Search Effort (time spent, number o	of minnow traps etc.):
3 TRAPS SET FOR	12 Hours.
# of salamanders observed: $N \ell$	INTE OBJERUED -
Number of Samples Taken:	,
# of adult tail tips:	# mortalities: # of larvae: # mortalities: # with the state of the sta
# of adult tail tips:	# roadkills:
DAY MOD CINNERINED	ARS TO BE A PREMIUS DECIDIOUS FOREST
	F BY DR. BOGART
SECTION B — TO BE FILLED OUT	
Date samples received:	(dd/mm/yyyy)
Date samples received: Condition of samples received:	
Date samples received:	(dd/mm/yyyy)

Last updated: January 2016

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



Wildlife Scientific Collector's Authorization # 1088798 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 PROJECT TITLE: Highway 401/6\_\_\_\_ **CONTACT INFORMATION:** Name of observer(s): Nataliya Simonova Megan 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: \_\_\_\_\_ Pond ID: 30 Property Address: UTM Coordinates (NAD83): \$00648 W E 432549 N (NOT Lat, Long) (Do not record UTM of each minnow trap, only one coordinate per pond or road location is required) M Private □Both Land Ownership: □Public LANDOWNER INFORMATION: Name: Mailing Address: Page 1 Last updated: January 2016

SAMPLING INFORMATION:
Date(s) of sampling: $2/03/20/8$ (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 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): 1m
Pond Description: Pond has 80% open warter, vegetation/Reld caraty grass present logs 10% ise such cover all pond.  Terrestrial Vegetation Community Type: FOD FOM SWI
capping grass present) logs 10% ise sucet cover all pour
- Treestal regelation 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)



#### Wildlife Scientific Collector's Authorization # 1088798 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): A. Minielly / N. Simonous Affiliation: AEcon 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: 7346 (on (ession Road), Puslinch, Ontario UTM Coordinates (NAD83): 57746, 82 E 4 8090931 N (NOT Lat, Long) (Do not record UTM of each minnow trap, only one coordinate per pond or road location is required) MPrivate. □Both Land Ownership: □Public LANDOWNER INFORMATION: Name: Hardd Stewart Mailing Address: 7346 Concession Road | Puslinch, Ontario

SAMPLING INFORMATION:	
Date(s) of sampling: 28/03/2018 (dd/mm/yyyy	y)
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	
# 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): Unknown (ice still on pond)	
Pond Description: 80% open wher 120% MAM community dominated by Them Sp. ke still covering 50% of pond.  Terrestrial Vegetation Community Type: FOD community Surrounding pond.	
by Them Sp. ke still covering 50% of point	
Terrestrial Vegetation Community Type: For community Surrounting Pond	e
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)



#### 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 Negative Positive Search Result (circle one): PROJECT TITLE:\_\_\_\_Highway 401/6\_\_\_\_\_ **CONTACT INFORMATION:** Name of observer(s): Olya Hropach Meyer Olson 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: Property Address: 7346 (oncession Roull, Puslinch Ontario UBO9090 / N (NOT Lat, Long) (Do not record UTM of each minnow trap, only one coordinate per pond or road location is required) MPrivate □Both □Public Land Ownership: LANDOWNER INFORMATION: Name: Hardd Stewart Mailing Address: 7346 Concession Read 1, Pushing Ontario Page 1 Last updated: January 2016

SAMPLING INFORMATION:				
Date(s) of sampling: 29/03/20	18			(dd/mm/yyyy)
Survey Type (circle one):				( , , , , , , ,
Minnow Trap Cover Boar	d Road I	Pitfall Trap Visu	al Incidental	
Sample Type (circle all that apply):		•		
Tail Tip Roadkill Larva	e Egg Mass	Visual Observat	tion	
Search Effort (time spent, number of				
# of salamanders observed:	Zero			
Number of Samples Taken:				
# of adult tail tips:	# moi	talities:	# of larvae: <u> </u>	8
# of larvae tail tips:	# road	lkills:		
HABITAT INFORMATION:				
Average Pond Depth (m): Unknown	y (ice still or	pond)	AM	'n
Pond Description: 30/0 open  Lominika by Typhas F  Terrestrial Vegetation Community Typhas F  Other amphibians observed or beard	Lill Lill	12180: 5	O' OF D- 1	19
Terrestrial Vegetation Community Ty	ne 51) (0)	1806/12	or Pond	
Other amphibians observed or heard:	4)0	7	outering force	
Egg Attachment Sites Present:		Πi Inknown		
Suitable Hydroperiod for Breeding:				
Photos Taken:			86022 - P	3280027
SECTION B - TO BE FILLED OUT	BY DR. BOG	ART		
Date samples received:				(dd/mm/yyyy)
Condition of samples received:				. 33331
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.

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 Simono va Andrew Minielly 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: P090 Property Address: 7346 Concession foad 1, Puslind, Ontario 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) ☑Private □Public Land Ownership: □Both LANDOWNER INFORMATION: Name: Hardol Stewai Mailing Address: 7346 Concession Pol 1 Last updated: January 2016 Page 1

SAMPLING INFORMATION:
Date(s) of sampling: $30/03/80/8$ (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
# of salamanders observed: 7 Zero
Number of Samples Taken:
# of adult tail tips: # mortalities: # of larvae: #
# of adult tail tips: # mortalities: # of larvae: # of larvae: # roadkills:
HABITAT INFORMATION:
Average Pond Depth (m): MKNOWN (ice still on pond)  Pond Description: 80% o open Water of do 10 MAM Community  dominated by Typha sp. ice still covering 50% of pond  Terrestrial Vegetation Community Type: FOD community surrounding pond
Pond Description: 80% o open water of 20% MAM community
dominated by Typhasp ice still covering 50% of poud
Terrestrial Vegetation Community Type: FOD Community Surrounding Ford
Other amphibians observed or heard: Yes
Egg Attachment Sites Present: 섭Yes 디No 디Unknown
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.

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.

	OLOHON 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): A. Minielly / A. MacLead		
	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: Po90 Pond ID: Pool -30	<u>&gt;</u>	
	Property Address: 7346 Concession Road 1, Puslinch, Ontorio		
	UTM Coordinates (NAD83): <u>57746.82</u> E <u>4809090.1</u> N ( <b>NOT</b> Lat, Long)		
	(Do not record UTM of each minnow trap, only one coordinate per pond or road location is requ	ıired)	
	Land Ownership: □Public □Private □Both		
	LANDOWNER INFORMATION:		
	EARDOWNER IN CRIMATION.		
	Name: Harold Stewast	MPT YES	
	Name: Harold Stewast		
	200 03 91 000 00		

SAMPLING INFORMATION:
Date(s) of sampling: 63/61/2018 / 04/04/2018 (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 minnow traps etc.):
12 hours between setting and pulling traps. I traps set
# of salamanders observed: ZCro
Number of Samples Taken:
# of adult tail tips: _Ø_ # mortalities: _Ø_ # of larvae: _Ø_
# of larvae tail tips: # roadkills: #
HABITAT INFORMATION:
Average Pond Depth (m):
Pond Description: 80% open wher, 20% Math community dominated by Typha Sp.  (a Still Covering 10% of pond  Terrestrial Vegetation Community Type: FOO community Surrounding pond
Ice Hill Covering 10% of part
Terrestrial Vegetation Community Type: FOO community Surrounding pond
Other amphibians observed or heard: Yes (Spring Reepers)
Egg Attachment Sites Present:
Suitable Hydroperiod for Breeding: ☐Yes ☐No ☐Unknown
Photos Taken:
SECTION B — TO BE FILLED OUT BY DR. BOGART
SECTION D' TO BETTELLE GOT BY BIN BOOKIN
Date samples received:(dd/mm/yyyy)



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



SAMPLING INFORMATION:
Date(s) of sampling: Feb 25, 2018 (dd/mm/yyyy)
Survey Type (circle one):
Minnow Trap Cover Board Road Pitfall Trap Visual Incidental
Sample Type (circle all that apply):
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
# of larvae tail tips: N/A # roadkills: N/A
HABITAT INFORMATION:
Average Pond Depth (m): 1/5
Pond Description: marsh or fringe, cathair, sumounded by
conitarous swamp
Terrestrial Vegetation Community Type: SWC W/ March and over agreetic
Other amphibians observed or heard:
Egg Attachment Sites Present:
Suitable Hydroperiod for Breeding: □Yes □No ■Unknown □Cb □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □
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 # 1088798 ESA Permit # GU-B-004-18

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#### **Instructions:**

Last updated: January 2016

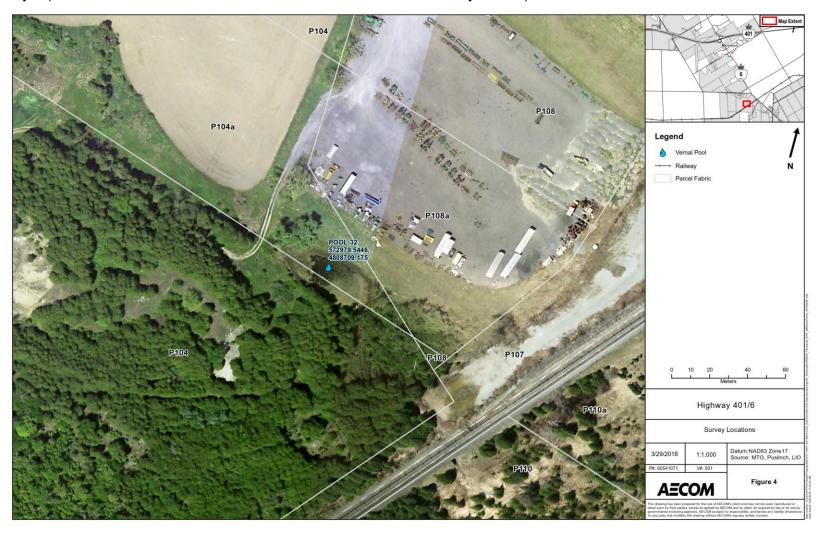
- You must complete a separate form for each pond sampled.
- Each form must be completed in its entirety (including permit numbers).
- Attach two orthophotos showing the location of the pond labelled with UTM coordinates (see example provided):
  - Map 1 must show the pond and local roads or features.
  - 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** Search Result (circle one): Negative PROJECT TITLE: Highway 401/6 **CONTACT INFORMATION:** Name of observer(s): Nataliva Simonua 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: Pond ID: 32 Site name: \_ Property Address: UTM Coordinates (NAD83): \_\_\_\_\_ E (Do not record UTM of each minnow trap, only one coordinate per pond or road location is required) Land Ownership: □Public ■Private **■**Both ∕ original owner Bryan Lyliy crop LANDOWNER INFORMATION: Mailing Address:



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



Wildlife Scientific Collector's Authorization # 1088798 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.

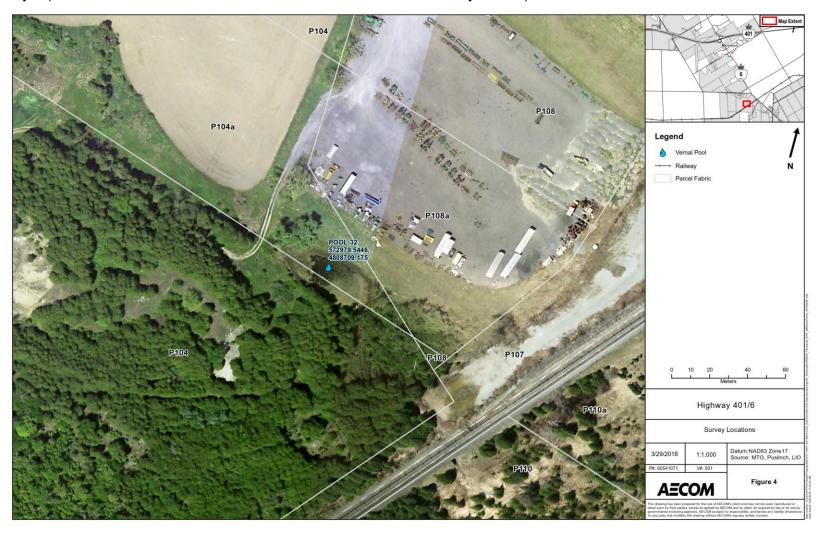
Submit this form along with any samples to Dr. Jim Bogart (with permission) at the University of Guelph; 519-824-4120 (extension 58728). Copies of this form (including forms containing negative observations) must also be submitted to the authorizing MNRF District Office along with the ESA permit and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

	төрог.	
	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, N. Simonow  Affiliation:	
	Mailing Address: AECOM Canada Ltd.,105 Commerce Valley Drive West, 7 <sup>th</sup> F	Floor,Markham, ON L3T 7W3,
	Phone Number: 905.886.7022 Email: julie.ellis@aecom.com	
	PROPERTY INFORMATION:	
	Site name: Plosa Plo4a	Pond ID: <u>Pool -32</u>
	Site name: Ploga Ploga Ploga Ploga	Pond ID: <u>Pool -32</u>
		T Lat, Long)
	Property Address: Plo 4a  UTM Coordinates (NAD83): 573006.12 E 4808766.98 N (NO	T Lat, Long)
	Property Address: Ploya Ploya UTM Coordinates (NAD83): 57306.12 E 1808706.98 N (NO (Do not record UTM of each minnow trap, only one coordinate per pond or Land Ownership: □Public ☑Private □Both  LANDOWNER INFORMATION:	T Lat, Long) road location is required)
	Property Address: Plo 4a  UTM Coordinates (NAD83): 573006.12 E 1808706.98 N (NO (Do not record UTM of each minnow trap, only one coordinate per pond or Land Ownership: □Public ☑Private □Both	T Lat, Long) road location is required)
	Property Address: Ploya Ploya Ploya UTM Coordinates (NAD83): 573006.12 E 1808706.98 N (NO (Do not record UTM of each minnow trap, only one coordinate per pond or Land Ownership: Public Private Both  LANDOWNER INFORMATION:  Name: Ministry of transportation (MTO) Clo Private	T Lat, Long) road location is required)

SAMPLING INFORMATION:
Date(s) of sampling: 28/03/2018 (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 minnow traps etc.):
Three traps set.
# of salamanders observed: One
Number of Samples Taken:
# of adult tail tips: # mortalities: # of larvae:
# of larvae tail tips: # roadkills: _Ø_
HABITAT INFORMATION:
Average Pond Depth (m): Unknown (ice still on pond)
Pond Description: 60% over water 140% MAM Community dominated
Dy Typha sp. Ice Still covering 80% of pond surface.
Terrestrial Vegetation Community Type: For to South and West. CUM to North and East
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
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.

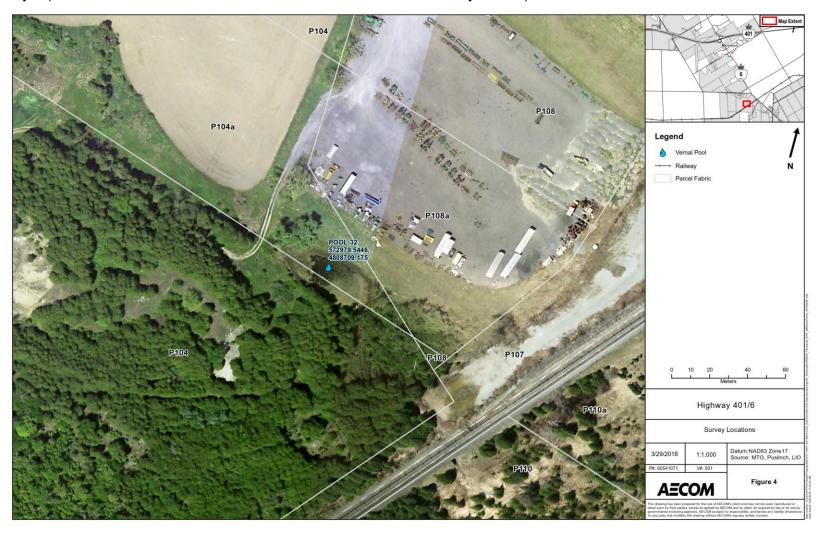
Submit this form along with any samples to Dr. Jim Bogart (with permission) at the University of Guelph; 519-824-4120 (extension 58728). Copies of this form (including forms containing negative observations) must also be submitted to the authorizing MNRF District Office along with the ESA permit and 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): Nataliya Simonova Andrew Minielly 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: Plosa Plosa Pond ID: Pool-32
Property Address: Plo4a Plo4a
UTM Coordinates (NAD83): 573006.12 E 4808706.98 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: Ministry of transportation (MTD) c/o Property Sector Mailing Address: N/A
Last updated: January 2016 Page 1

SAMPLING INFORMATION:
Date(s) of sampling: $\frac{29/03/20/8}{}$ (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
# 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):
dominated by typice ice still covering of pond surface
dominated by typice ice still covering of pond surface
Terrestrial Vegetation Community Type: For to South and west Rely to Nand E
Other amphibians observed or heard: Ves Red-Spotted Newt/Notophthalmus
Egg Attachment Sites Present: DYes DNo DUnknown
Suitable Hydroperiod for Breeding: VIYes INo IIUnknown
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)



#### 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.

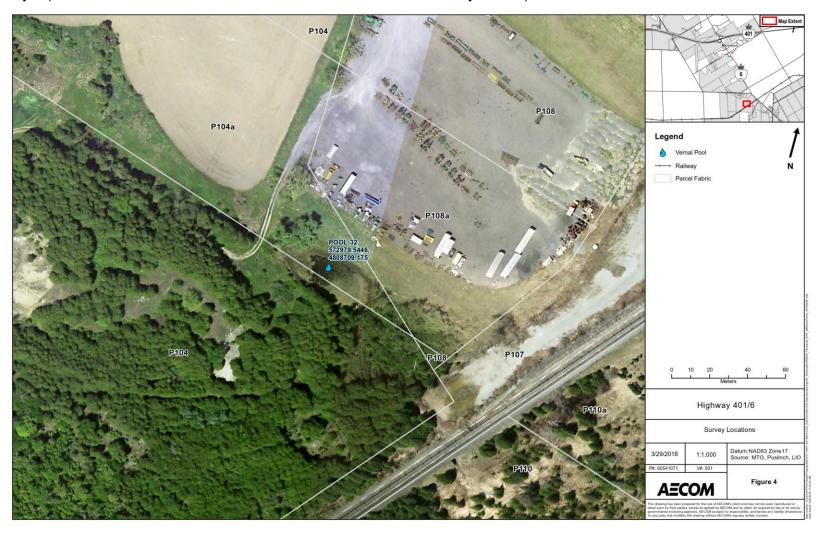
Submit this form along with any samples to Dr. Jim Bogart (with permission) at the University of Guelph; 519-824-4120 (extension 58728). Copies of this form (including forms containing negative observations) must also be submitted to the authorizing MNRF District Office along with the ESA permit and 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): A Minielly N. Simonova	
Affiliation:  AECOM  Mailing Address: AECOM Canada Ltd.,105 Commerce Valley Drive West, 7 <sup>th</sup> Floor,Markham, ON L3		
	Phone Number: 905.886.7022 Email: julie.ellis@aecom.com	
	PROPERTY INFORMATION:	
	Site name: P108a Plo4a Pond ID: P001-32	
	Property Address: Plate Plate	
	UTM Coordinates (NAD83): 572979.54 E 4808709.17 N (NOT Lat, Long)	
(Do not record UTM of each minnow trap, only one coordinate per pond or road location is require		
	Land Ownership: □Public □Private □Both	
	Name: Ministry of transportation (MTD) Go Property Sector Mailing Address: NA	
	Last updated: January 2016 Page 1	

SAMPLING INFORMATION:	
Date(s) of sampling: $30/03/2018$	(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 Ol	bservation
Search Effort (time spent, number of minnow traps etc.):  5 + raps / 2 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): MAKnown (ice 411) on	ponds
Pond Description: 60% Open Water /40%	6 MAM (community
dominated by Typha SP, Ice Hill Co	everine of boud scertace
Terrestrial Vegetation Community Type: FOC to South	and west Cely to North am
Other amphibians observed or heard:	
Egg Attachment Sites Present: ☐Ýes ☐No ☐Unknov	vn
Suitable Hydroperiod for Breeding:   ☐Yes ☐No ☐Unknow	vn
Photos Taken: 'Yes INo Photo #:	1372, 1373, 1374, 1375, 1377-1382
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.
- All conditions as per the WSCA and ESA permits must be followed.

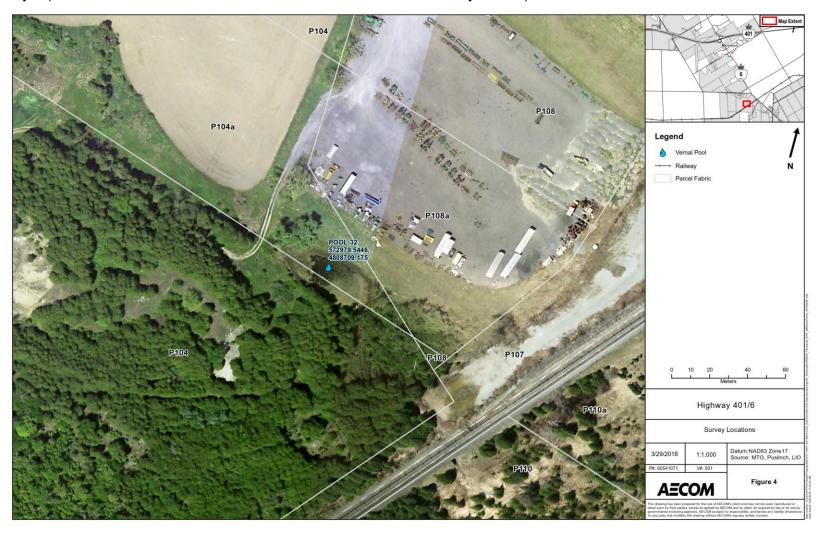
Submit this form along with any samples to Dr. Jim Bogart (with permission) at the University of Guelph; 519-824-4120 (extension 58728). Copies of this form (including forms containing negative observations) must also be submitted to the authorizing MNRF District Office along with the ESA permit and 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): A. Mac Lead 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: Plo4a Pond ID: Pool-32 Property Address: Poya Poya UTM Coordinates (NAD83): <u>572979.54</u> E <u>4908709.17</u> N (**NOT** Lat, Long) (Do not record UTM of each minnow trap, only one coordinate per pond or road location is required) **M**Both □Private Land Ownership: □Public LANDOWNER INFORMATION: Name: Mini Stry of transportation (MTO) Co Property Sector Mailing Address: N/A

SAMPLING INFORMATION:
Date(s) of sampling:
Survey Type (circle one):
Winnow 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 between setting traps and collecting traps # of salamanders observed: 6 Six (1 recapture)
·
Number of Samples Taken:
# of adult tail tips: _5 # mortalities: _Ø # of larvae: Ø
# of larvae tail tips: # roadkills: # roadkills: # roadkills:
*KNote: as crack in sample Pool-032-003's container caused the ethanol HABITAT INFORMATION: in the container to leak out, Dry container observed on April 17,2018. Sample was trunsfered to a new container.
Average Pond Depth (m): Unknown (ice still on pond)
by Typhe Sp., Ice Still lovering 40 % of pond suffere
by Typher Sp, lee Still covering 40 % of pond surface
Terrestrial Vegetation Community Type: FOC to South and West Cum towarth and East
Other amphibians observed or heard: NO
Egg Attachment Sites Present:
Suitable Hydroperiod for Breeding: ☐Ýes ☐No ☐Unknown
Photos Taken: DYes DNo Photo #: 100 - 0102 to 100 - 0135
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)





# Attachment B

Photographs of Field Procedure as Request in WACC Protocol #18-417

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



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 a buoy with the permit holders contact information and permit information



Photograph 4 ↑

Trap was removed the following day, no longer than 12 hours after being set



Photograph 5 ↑

Jefferson Salamanders were found within the trap



Photograph 6 ↑

Jefferson Salamander was gently removed

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



Photograph 7 ↑
Firmly but gently restrain the salamander



Photograph 8 ↑
Using a sterilized razor blade, the a small portion of the salamander tail tip was removed



Photograph 9 ↑

The tail tip was transferred to a sample container filled with 70% ethanol with the salamander unique ID

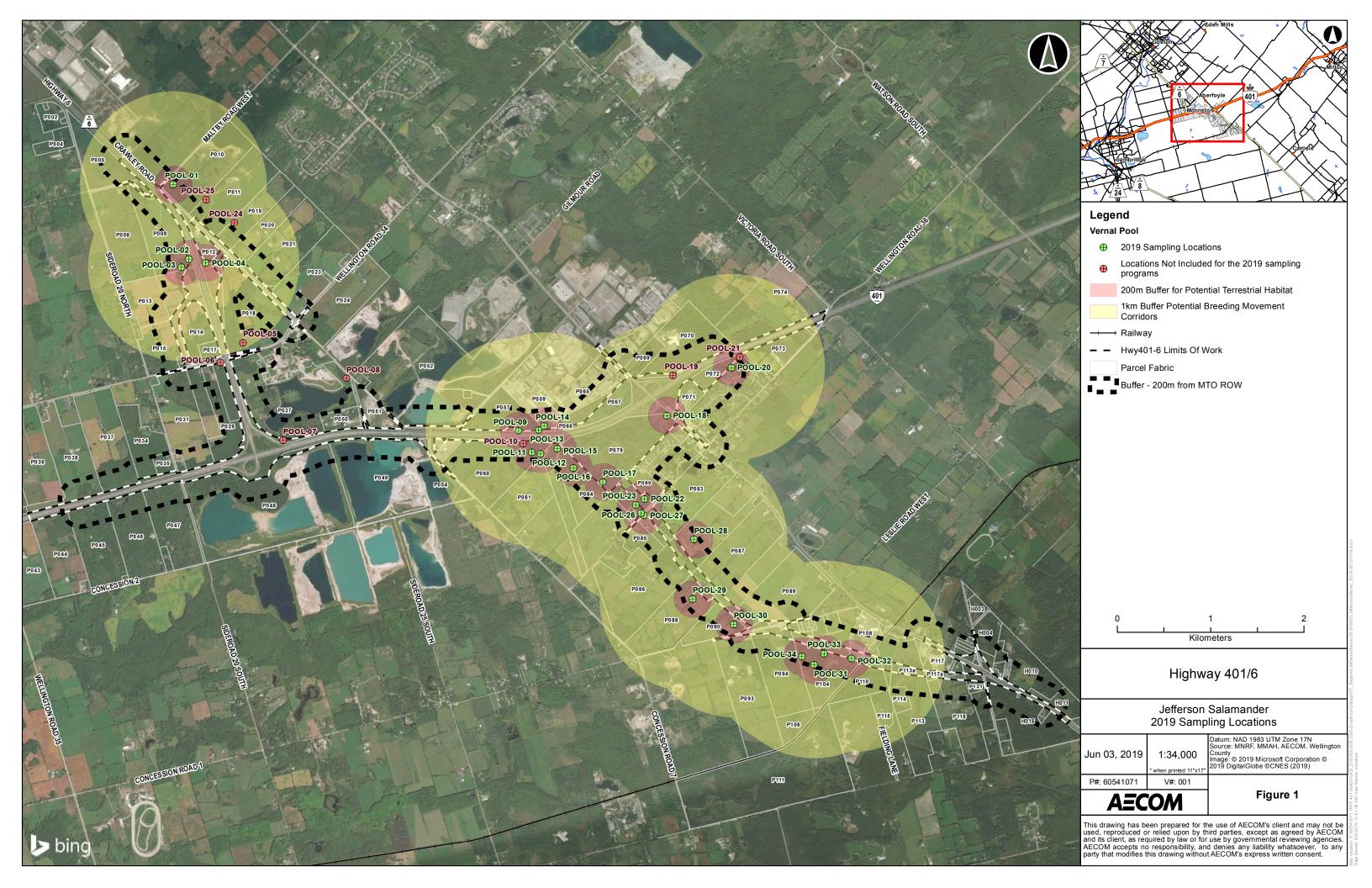


Photograph 10 ♠
After tissue collection the salamander was released into the breeding pond



# Attachment **B**

Figure 1





# Attachment C

**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.



Photograph 5 ↑ Salamanders were found within the trap.



Photograph 6 ↑ Salamander was gently removed.



Photograph 7 ↑
Firmly but gently restrain the salamander.



Photograph 8 ♠
Using a sterilized razor blade, a small portion of the salamander tail tip was removed.



Photograph 9 ♠
After tissue collection, the salamander was released into the breeding pond.



# Attachment D

**Field Notes** 

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 Androw Aberdein  Affiliation:  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:Pond ID:
Property Address: NA Con 7 Front Lot 16 M. 11 creek wethind
UTM Coordinates (NAD83): 565743 E 4813758 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: Persian Investments LTD Clo Marlene Walker
Mailing Address.
Last updated: January 2016 Page 1

SAMPLING INFORMATION:					
Date(s) of sampling: $\frac{29}{03}$	12019				(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	Visual Ob	servation	l	
Search Effort (time spent, number of the search sea	•	etc.):			11
# of salamanders observed:					
Number of Samples Taken:	001				
# of adult tail tips:	/ / # mø	rtalities:/		# of larvae:	_
# of larvae tail tips:	#/roa	dkills:	-		
HABITAT INFORMATION:					
Average Pond Depth (m):				8	
Pond Description: Fond w	in Pol	), Mos	Aly 10	e Covered	
Terrestrial Vegetation Community Typ	e: Fob				
Other amphibians observed or heard:	WA				
Egg Attachment Sites Present:	⊡Yes □No	□Unknow	/n		
Suitable Hydroperiod for Breeding:	☑Yes □No	□Unknow	/n		
Photos Taken:	□Yes □No	Photo #: _	190623	to 192000	
SECTION B — TO BE FILLED OUT	BY DR. BOO	BART			
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).
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  - 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 Elis Johana	Hi2
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 -01   PO10	Pond ID:
Site name: Pond OI 1 POIO  Property Address: Marty Bal Conc. 7	·
UTM Coordinates (NAD83): <u>56 5742</u> E <u>4813758</u> N (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: Persion Investments LTD C/O Marline Wal	ker
Mailing Address:	
Last updated: January 2016	Page 1

SAMPLING INFORMATION:	
Date(s) of sampling: 2019-03-30/3) (dd/mm/y	ууу)
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: 🗆 🗆 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/yy	уу)
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):  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: One Pond ID
Property Address: N/A Con 7 Front Lot 16 Mill Creek Wetland
Site name: Plo Pond ID: 01  Property Address: N/A Con 7 Front Lot 16 Mill Creek Westland  UTM Coordinates (NAD83): 565742E 4813758 N (NOT Lat, Long)
Property Address: N/A Con 7 Front Lot 16 Mill Creek Wettern/ UTM Coordinates (NAD83): 565742 E 4813758 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)

SAMPLING INFORMATION:					
Date(s) of sampling:	6/1	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 Ma	ss Visual Ob	servation		
Search Effort (time spent, number of mi		s etc.):			
# of salamanders observed:	21/1-				
Number of Samples Taken:	1 /				
# of adult tail tips:	/# <sub>,</sub> m	iontalities:	1	# of larvae:	_
# of larvae tail tips:	/ #re	adkills:			
HABITAT INFORMATION:					
Average Pond Depth (m): Pond Description:	v. Huh	Decida	wous 1	woodlof	
Terrestrial Vegetation Community Type	:_ F0	$\mathcal{D}$			
Other amphibians observed or heard:	Non	<u> </u>	<u> </u>		
Egg Attachment Sites Present:	ØYes □N	lo □Unknow	/n		
Suitable Hydroperiod for Breeding:					
Photos Taken:	□Yes □W	lo Photo #: _	189132	to 18063	)
SECTION B — TO BE FILLED OUT E	BY DR. BO	DGART	8		
Date samples received:					(dd/mm/yyyy)
Condition of samples received:					
JPB #(s):					
					8



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.

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 Kuten Martens 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: PO10 Pond ID: 0 Property Address: Malfy Ra/Couc, 7 UTM Coordinates (NAD83): 55542 E 4813758 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: Mailing Address:

SAMPLING INFORMATION:
Date(s) of sampling: $08/04/2018$ (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 minnow traps etc.):  5 + Taps × 12 haurs
# 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): 20.5 m
Pond Description: See Previously work
Terrestrial Vegetation Community Type:
Other amphibians observed or heard: Spring Peeper
Egg Attachment Sites Present:
Suitable Hydroperiod for Breeding: TYes   No Unknown
Photos Taken:
SECTION B – TO BE FILLED OUT BY DR. BOGART
Date samples received:(dd/mm/yyyy)
Condition of samples received:
JPR #(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	1/6		
CONTACT INFORMATION:			1
Name of observer(s):	e Ellis	101ga	Hropach
Affiliation:	IA		
Mailing Address: AECOM Canada Ltd	I.,105 Comme	rce Valley Drive V	Vest, 7 <sup>th</sup> Floor,Markham, ON L3T 7W3,
Canada			
Phone Number: 905.886.7022 Emai	l: julie.ellis@aed	com.com	
PROPERTY INFORMATION: Site name:			Bond ID: 2001-01
Property Address:			
UTM Coordinates (NAD83):	E		_N ( <b>NOT</b> Lat, Long)
(Do not record UTM of each minnow	trap, only on	e coordinate per	pond or road location is required)
Land Ownership: □Public □Pu	rivate □Bo	oth	
Name: P Mariene	Walker	Persion	Investments
Mailing Address:			
Last updated: January 2016			Page 1

SAMPLING INFORMATION:
Date(s) of sampling: 2019-04-13 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):
fail_Tip Roadkill Larvae Egg Mass Visual Observation
Search Effort (time spent, number of minnow traps etc.):
3 trops 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:
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)



POOL - 9

# Jefferson Salamander Presence/Absence Reporting Form

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

#### Instructions:

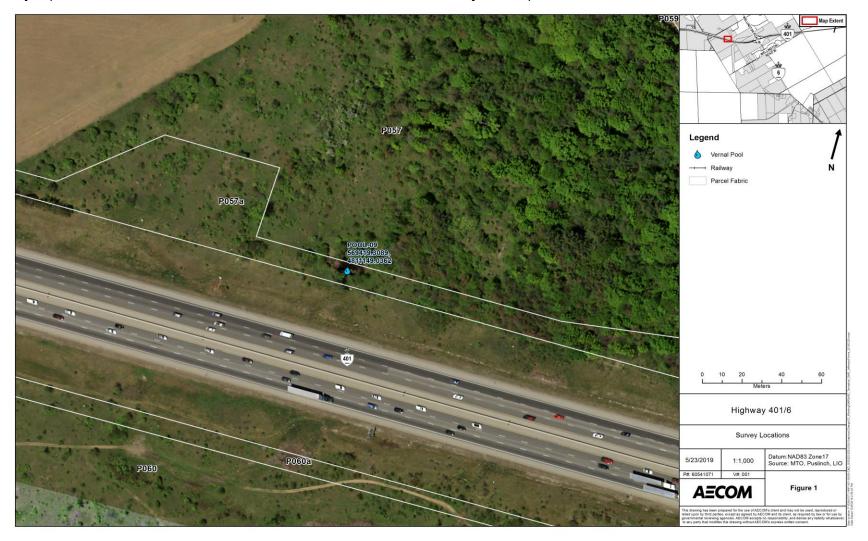
- You must complete a separate form for each pond sampled.
- Each form must be completed in its entirety (including permit numbers).
- Attach two orthophotos showing the location of the pond labelled with UTM coordinates (see example provided):
  - Map 1 must show the pond and local roads or features.
  - 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 Maria Ciancia
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: PO579  Property Address: NA
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 Section
Mailing Address:
Last undated, January 2010
Last updated: January 2016 Page 1

SAMPLING INFORMATION:
Date(s) of sampling: $2019/03/14 - 2019/03/115$ (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 + 95 1 12 hours, 100 104 fer mou 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): 65 m FOM Pond Description: Pond adjact to footbook, baside hypothagy
Terrestrial Vegetation Community Type:
Other amphibians observed or heard:
Egg Attachment Sites Present: □Yes □No □Unknown
Suitable Hydroperiod for Breeding: □Ýes □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.
- All conditions as per the WSCA and ESA permits must be followed.

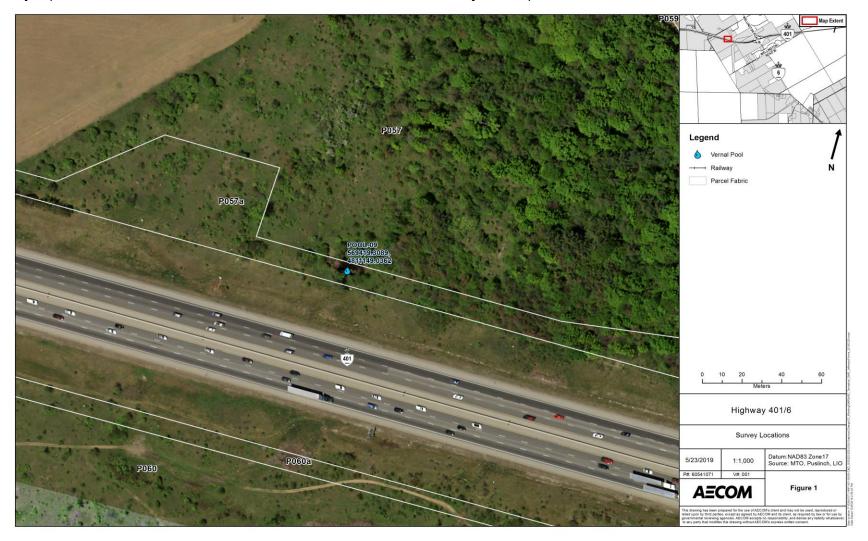
Submit this form along with any samples to Dr. Jim Bogart (with permission) at the University of Guelph; 519-824-4120 (extension 58728). Copies of this form (including forms containing negative observations) must also be submitted to the authorizing MNRF District Office along with the ESA permit and 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 Mintelly + Andrew Aberdein AECOM 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: UTM Coordinates (NAD83): 569419 E 431147 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: **P**Public □Both LANDOWNER INFORMATION: Mailing Address:

SAMPLING INFORMATION:
Date(s) of sampling: 23/03/201 (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.):
Three 137 traps set for 12 hours
# of salamanders observed: d Zero
Number of Samples Taken:
# of adult tail tips: # mortalities: # of larvae: #
# of larvae tail tips: # roadkills:
HABITAT INFORMATION:
Average Pond Depth (m): 0.5m
Pond Description: Pond adjacent to Form, beside highery
Terrestrial Vegetation Community Type: Fom
Other amphibians observed or heard:
Egg Attachment Sites Present: □Yes □No □Unknown
Suitable Hydroperiod for Breeding: ☑Yes ☐No ☐Unknown
Photos Taken:   Photo #: 065148, 065277, 065504, 065510,
065515, 065712, 0651906, 065909, 070003
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.

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 Negative Search Result (circle one): Positive PROJECT TITLE:\_\_\_\_ Highway 401/6 **CONTACT INFORMATION:** Name of observer(s): Andrew Minielly Edyta Ratajczyk 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: Property Address: \_\_\_\_ UTM Coordinates (NAD83): 569419 E 491147 N (NOT Lat, Long) (Do not record UTM of each minnow trap, only one coordinate per pond or road location is required) **☑**Public □Private Land Ownership: □Both LANDOWNER INFORMATION: Name: Mio Property Section Mailing Address: Last updated: January 2016 Page 1

SAMPLING INFORMATION:
Date(s) of sampling: 30/03/2019 / 31/03/9019 (dd/mm/yyyy
Survey Type (circle one):
Minnow Trap Cover Board Road Pitfall Trap Visual Incidental
Sample Type (circle all that apply):
Pail 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: 0 zero
Number of Samples Taken:
# of adult tail tips: # mortalities: # of larvae:
# of adult tail tips: # mortalities: # of larvae: # of larvae: # roadkills: # roadkills:
HABITAT INFORMATION:
Average Pond Depth (m): 5m
Pond Description: Pond adjacent to Form, beside highway 401
Terrestrial Vegetation Community Type: For / (UW)
Other amphibians observed or heard: No
Egg Attachment Sites Present: □Xes □No □Unknown
Suitable Hydroperiod for Breeding:   ☑Yes □No □Unknown
Photos Taken: □Yes □No Photo #: 2113 — 2/19
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)

