

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.

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 Ratajczyk, Julie Ellis

Affiliation: AECOM

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: P057a Pond ID: 09

Property Address: N/A

UTM Coordinates (NAD83): 569419 E 4811147 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:



08/04/2019-
09/04/2019

Survey Type (circle one):

Sample Type (circle all that apply):

Search Effort (time spent, number of minnow traps etc.):

12 hours, 4 minnow traps

of salamanders observed: 0

Number of Samples Taken:

of adult tail tips:

mortalities:

of larvae:

of larvae tail tips:

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# roadkills:
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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: ☒ Yes ☐ No Photo #: 2383-2391, 190448

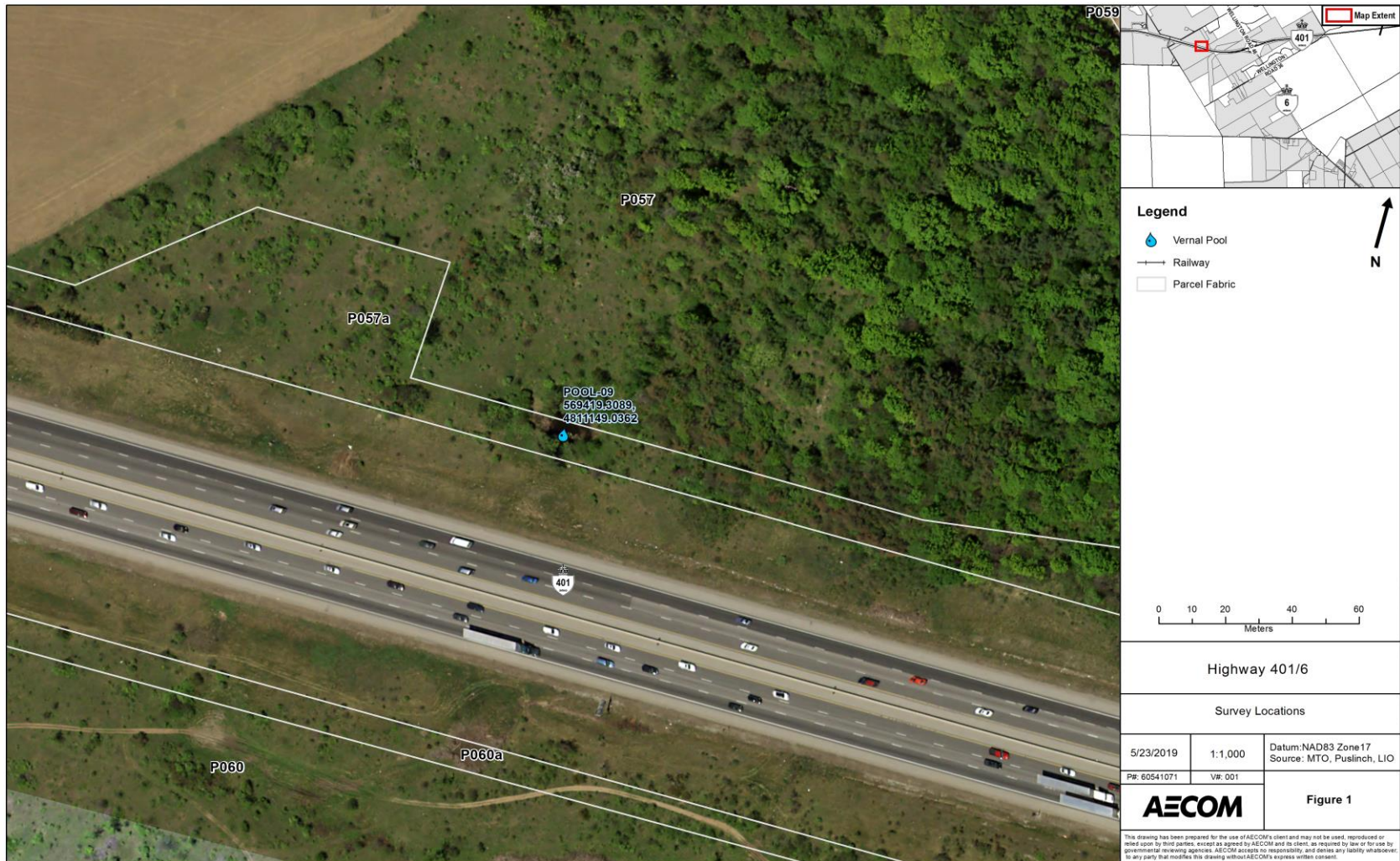
Date samples received: _____ (dd/mm/yyyy)

Condition of samples received:

JPB #(s): _____



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



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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 Minielly Matt Ross

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: Pos7a Pond ID: Pool-09

Property Address: _____

UTM Coordinates (NAD83): 569419 E 4811147 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: MTU Property Section

Mailing Address: _____

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Wildlife Scientific Collector's Authorization # 1092051
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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.):

3 traps set for 12 hours

of salamanders observed: 0 zero

Number of Samples Taken:

of adult tail tips: 0

mortalities: 0

of larvae: 0

of larvae tail tips: 0

roadkills: 0

HABITAT INFORMATION:

Average Pond Depth (m): 0.5m

Pond Description: small pool in depression adjacent to Fom and beside the 401

Terrestrial Vegetation Community Type: FOM 2-2 / COW 2

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 #: 074157 to 075018

SECTION B – TO BE FILLED OUT BY DR. BOGART

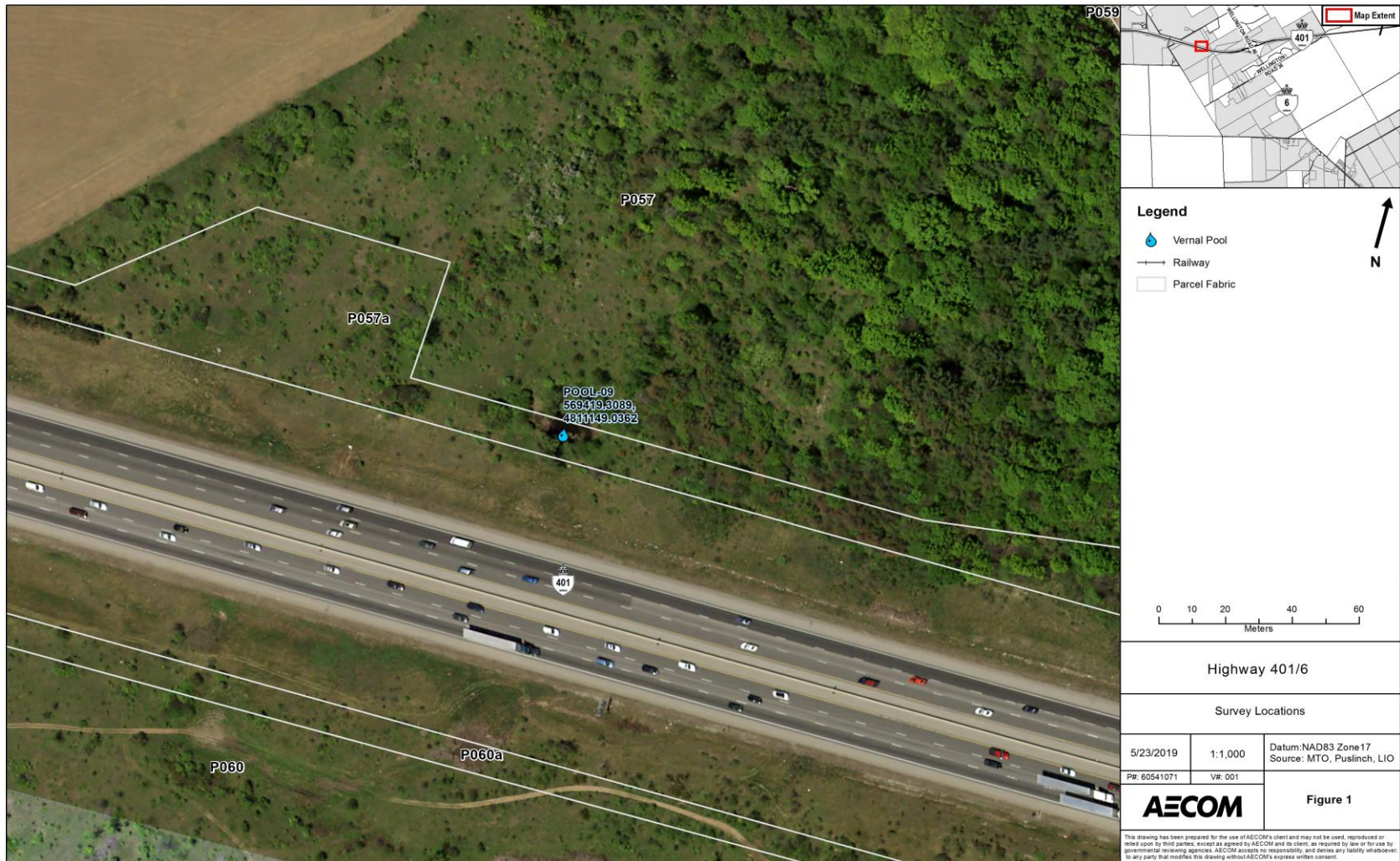
Date samples received: _____ (dd/mm/yyyy)

Condition of samples received: _____

JPB #(s): _____



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



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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 Munielly, Johanna Perz

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: P060 Pond ID: Pool-11

Property Address: CONT FRONT PT LOT 26 PT LOT 27 SUBJ TO HYDRO ROW

UTM Coordinates (NAD83): E N (NOT Lat, Long) 6912-8104

(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 Ferraro

Mailing Address:

Jefferson Salamander
Presence/Absence Reporting Form



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

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 traps

of salamanders observed: 0

Number of Samples Taken:

of adult tail tips: 0

mortalities: 0

of larvae: 0

of larvae tail tips: 0

roadkills: 0

HABITAT INFORMATION:

Average Pond Depth (m): _____

Pond Description: _____

Terrestrial Vegetation Community Type: FOD 5-1

Other amphibians observed or heard: NONE

Egg Attachment Sites Present: ☒ Yes ☐ No ☐ Unknown

Suitable Hydroperiod for Breeding: ☒ Yes ☐ No ☐ Unknown

Photos Taken: ☒ Yes ☐ No Photo #: 1647-1657

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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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): Andrew Minelly, Amalia Walker

Affiliation: AECOM

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: P060 Pond ID: Pool-11

Property Address: Con 7 Front Pt Lot 26 Pt Lot 27 SUB) To Hydro Row 6912-8104

UTM Coordinates (NAD83): 569560 E 4810914 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. Ferraro Inc c/o Landstar Properties LTD

Mailing Address: _____

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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

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: 0 zero

Number of Samples Taken:

of adult tail tips: 0

mortalities: 0

of larvae: 0

of larvae tail tips: 0

roadkills: 0

HABITAT INFORMATION:

Average Pond Depth (m): ~1m - ice still on pond

Pond Description: Pond on the border of FODS-1 and CUP3 forests.
Several shrubs line the banks.

Terrestrial Vegetation Community Type: FODS-1 / CUP3

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 #: 20190328-185255 to 20190329-065257

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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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 Minielly Amelia Walker

Affiliation: AECOM

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: Pobo Pond ID: Pool-11

Property Address: Con 7 Front PT Lot 26 PT Lot 27 Subj to Hydro Row 6912-8104

UTM Coordinates (NAD83): 568560 E 4910914 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 Ferraro Inc. C/O Lambda Properties LTD.

Mailing Address: ?

Jefferson Salamander
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ESA Permit # GU-B-004-18

SAMPLING INFORMATION:

Date(s) of sampling: 29/03/2019 to 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 traps set for 12 hours

of salamanders observed: 0 zero

Number of Samples Taken:

of adult tail tips: 0

mortalities: 0

of larvae: 0

of larvae tail tips: 0

roadkills: 0

HABITAT INFORMATION:

Average Pond Depth (m): ~1m → ice still on pond

Pond Description: Road on the border of FODS-1 and CUP3 community.
Several shrubs line banks. Lots of leaf litter in pond.

Terrestrial Vegetation Community Type: FODS-1 / CUP3

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 #: 20190328-185101 to 20190330 064746

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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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 Minielly Nathan De Carlo

Affiliation: AECOM

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: Po60 Pond ID: Po01-11

Property Address: Con 7 Front PT Lot 26 PT Lot 27 sub to Hydro Row 6912-8104

UTM Coordinates (NAD83): S69560 E 4810214 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 Ferruccio Inc / O Lambda Properties LTD

Mailing Address: _____

Jefferson Salamander
Presence/Absence Reporting Form



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

SAMPLING INFORMATION:

Date(s) of sampling: 07/04/2019 / 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 set for 12 hours

of salamanders observed: 0 zero

Number of Samples Taken:

of adult tail tips: 0

mortalities: 0

of larvae: 0

of larvae tail tips: 0

roadkills: 0

HABITAT INFORMATION:

Average Pond Depth (m): ~1m

Pond Description: Pond on border of Fops-1 and CUP3 community. Several shrubs line banks of pond. Ice still on lot of pond

Terrestrial Vegetation Community Type: Fops-1/CUP3

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 #: 064729 to 065836

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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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 Minielly Edyta Ruterjczyk

Affiliation: AECOM

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: Pobo Pond ID: Poot-11

Property Address: Con 7 Front PT Lot 26 PT Lot 27 sub to Hydro Row 6912-8104

UTM Coordinates (NAD83): S68566 E 4810914 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 Ferraro Inc. c/o Lambda Properties LTD

Mailing Address: 300 Don Park Rd. Unit 9 Markham ON L3R 3A1

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

SAMPLING INFORMATION:

Date(s) of sampling: 13/04/2012 14/04/2012 (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 set for 12 hours

of salamanders observed: 4 Four

Number of Samples Taken:

of adult tail tips: 4

mortalities: 0

of larvae: 0

of larvae tail tips: 0

roadkills: 0

HABITAT INFORMATION:

Average Pond Depth (m): ~1m

Pond Description: Pond on border of FDS-1 and LUP3 community.
Shrubs lining pond. Several attachment sites present

Terrestrial Vegetation Community Type: FDS-1 / LUP3

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 #: 063832 to 070212

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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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 Minielly Amalia Walker

Affiliation: AECOM

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: 8060 Pond ID: Pool-12

Property Address: Con 7 Front PT Lot 26 PT Lot 27 sub to Hydro Rew 6812-8104

UTM Coordinates (NAD83): 569653 E 4810900 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 Ferraro Inc C/O Lambda Properties LTD

Mailing Address: 300 Don Park Rd. Unit 9 Markham ON L3R 3A1

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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

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 set for 12 hours

of salamanders observed: 1 one

Number of Samples Taken:

of adult tail tips: 1

mortalities: 0

of larvae: 0

of larvae tail tips: 0

roadkills: 0

HABITAT INFORMATION:

Average Pond Depth (m): 1m -> ice still on pond

Pond Description: Pond on edge of FODS-1 forest. Adjacent to agricultural field. Large pond with several potential attachment sites.

Terrestrial Vegetation Community Type: FODS-1

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 #: 20180328-191915 to 20190328-072211

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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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 Minicelly Amelia Walker

Affiliation: AECOM

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: P060 Pond ID: P001-12

Property Address: Con 7 Front Pt Lot 26 Pt Lot 27 sub to Hydro Row 6912-8104

UTM Coordinates (NAD83): 569653 E 4810900 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 Ferraro Inc. c/o Lambda Properties LTD

Mailing Address: _____

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ESA Permit # GU-B-004-18

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 traps set for 12 hours

of salamanders observed: 0 zero

Number of Samples Taken:

of adult tail tips: 0

mortalities: 0

of larvae: 0

of larvae tail tips: 0

roadkills: 0

HABITAT INFORMATION:

Average Pond Depth (m): ~1m -> ice still on pond

Pond Description: Pond on edge of FODS-1 forest. Adjacent to agricultural field

Terrestrial Vegetation Community Type: FODS-1

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 #: 20190329-125701 to 20190330-064746

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)



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.

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 Minnelly, Johanna Perz

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: POBO Pond ID: Pool-12

Property Address: CONFRONT PT LOT 26 PT LOT 27 SUBJ TO HYDRO ROW

UTM Coordinates (NAD83): E N (NOT Lat, Long) 6912-8104

(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 Ferraro

Mailing Address:

Jefferson Salamander
Presence/Absence Reporting Form



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

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, 6 traps

of salamanders observed: 0

Number of Samples Taken:

of adult tail tips: 0

mortalities: 0

of larvae: 0

of larvae tail tips: 0

roadkills: 0

HABITAT INFORMATION:

Average Pond Depth (m): _____

Pond Description: _____

Terrestrial Vegetation Community Type: FOD5-1/Tr

Other amphibians observed or heard: NONE

Egg Attachment Sites Present: ☒ Yes ☐ No ☐ Unknown

Suitable Hydroperiod for Breeding: ☒ Yes ☐ No ☐ Unknown

Photos Taken: ☒ Yes ☐ No Photo #: 1658-1671

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)



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.
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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 Minielly Nathan De Carlo

Affiliation: AECOM

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: P660 Pond ID: Pool-12

Property Address: Con 7 Front PT lot 26 PT Lot 27 sub to Hydro

UTM Coordinates (NAD83): 569653 E 4316900 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 Ferraro Inc. c/o Lyndbra Properties LTD

Mailing Address: _____

Jefferson Salamander
Presence/Absence Reporting Form



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

SAMPLING INFORMATION:

Date(s) of sampling: 07/04/2019 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.):

7 Traps set for 12 hours

of salamanders observed: 0 zero

Number of Samples Taken:

of adult tail tips: 0

mortalities: 0

of larvae: 0

of larvae tail tips: 0

roadkills: 0

HABITAT INFORMATION:

Average Pond Depth (m): ~ 1m

Pond Description: pond on edge of FODS-1 forest Adjacent to
agricultural field

Terrestrial Vegetation Community Type: FODS-1

Other amphibians observed or heard: Spring Peepers calling. Wood frog found in one trap.

Egg Attachment Sites Present: ☒ Yes ☐ No ☐ Unknown

Suitable Hydroperiod for Breeding: ☒ Yes ☐ No ☐ Unknown

Photos Taken: ☒ Yes ☐ No Photo #: 070310 to 072130

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)



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.

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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 Minielly Ecdyta Ratajczyk

Affiliation: AECOM

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: Pogo Pond ID: Pool-12

Property Address: Con 7 Front Pt Lot 26 Pt Lot 27 sub to Hydro Row 6812-8104

UTM Coordinates (NAD83): 568653 E 4810900 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 Ferraro Inc. c/o Lumber Properties Ltd

Mailing Address: 300 Don Park Rd. Unit 9 Markham ON L3R 3A1

Jefferson Salamander
Presence/Absence Reporting Form



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

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):

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: 0

of larvae: 0

of larvae tail tips: 0

roadkills: 0

HABITAT INFORMATION:

Average Pond Depth (m): ~1m

Pond Description: Pond on edge of FOPS-1 forest Adjacent to
agricultural field.

Terrestrial Vegetation Community Type: Fops-1

Other amphibians observed or heard: Spring peepers and woodfrogs calling

Egg Attachment Sites Present: ☒ Yes ☐ No ☐ Unknown

Suitable Hydroperiod for Breeding: ☒ Yes ☐ No ☐ Unknown

Photos Taken: ☒ Yes ☐ No Photo #: 07221 to 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)



**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.

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 Ellis, Maria Ciancio

Affiliation: AECOM

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: P065 Pond ID: P00113

Property Address: Concast Pipe 267 Brock Road

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: Mark Wetselear

Mailing Address: _____

Jefferson Salamander
Presence/Absence Reporting Form



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

SAMPLING INFORMATION:

Date(s) of sampling: Mar/14/2019 / Mar/15/2019 (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 x 12 hours - too icy to put more

of salamanders observed: 0

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: medium sized pond, linked with pond 14.

surrounded by forest, industrial property to the E, Hwy to the W.

Terrestrial Vegetation Community Type: Deciduous Forest FOD

Other amphibians observed or heard: _____

Egg Attachment Sites Present: ☒ Yes ☐ No ☐ Unknown

Suitable Hydroperiod for Breeding: ☒ Yes ☐ No ☐ Unknown

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)



**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.
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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.

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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 Minielly Andrew Aberdein

Affiliation: AECOM

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: P065 / P065a Pond ID: Pool 13

Property Address: Concast Rpe 267 Brack Road

UTM Coordinates (NAD83): 569633 E 4811154 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 Wetzelauer

Mailing Address: _____

Jefferson Salamander
Presence/Absence Reporting Form



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

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 traps set for 12 hours

of salamanders observed: 0 zero

Number of Samples Taken:

of adult tail tips: 0

mortalities: 0

of larvae: 0

of larvae tail tips: 0

roadkills: 0

HABITAT INFORMATION:

Average Pond Depth (m): 1-2m

Pond Description: Medium sized pond linked with pool 14. Surrounded by deciduous forest industrial properties to N and NE. Highway to the SW

Terrestrial Vegetation Community Type: FOP

Other amphibians observed or heard: /

Egg Attachment Sites Present: ☒ Yes ☐ No ☐ Unknown

Suitable Hydroperiod for Breeding: ☒ Yes ☐ No ☐ Unknown

Photos Taken: ☒ Yes ☐ No Photo #: 070600, 070603, 070606, 070609, 070806, 071041, 071214, 071422, 071456, 071500, 071634, 071640, 071950, 072135, 072422, 072559

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)



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.

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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 Minicly Edyta Rotarjczyk

Affiliation: AECOM

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: Po65/Po65a Pond ID: Pool-13

Property Address: Concast Pipe, 267 Brook Rd.

UTM Coordinates (NAD83): 569633 E 4811154 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 Wetzelow (Po65) / MTO Property Section (Po65a)

Mailing Address: _____

Jefferson Salamander
Presence/Absence Reporting Form



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

SAMPLING INFORMATION:

Date(s) of sampling: 30/03/2019 / 31/03/2019 (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: 0 zero

Number of Samples Taken:

of adult tail tips: 0

mortalities: 0

of larvae: 0

of larvae tail tips: 0

roadkills: 0

HABITAT INFORMATION:

Average Pond Depth (m): ~1-2m

Pond Description: Medium sized pond linked to pool-14, surrounded by FOD community to W, industrial properties to N and NW and highway to SW

Terrestrial Vegetation Community Type: FOD

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 #: 2097-2112

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)



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.

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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): Edyta Ratajczyk, Julie Ellis

Affiliation: AECOM

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: P065/P065a Pond ID: 13

Property Address: Concast Pipe 267 Brock Road

UTM Coordinates (NAD83): 569633 E 4811154 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 Wetzelar (P065)/MTO Property Section (P065a)

Mailing Address: _____

Jefferson Salamander
Presence/Absence Reporting Form



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

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.):

12 hours, 5 minnow traps

of salamanders observed: 0

Number of Samples Taken:

of adult tail tips: 0

mortalities: 0

of larvae: 0

of larvae tail tips: 0

roadkills: 0

HABITAT INFORMATION:

Average Pond Depth (m): _____

Pond Description: 9 tadpoles captured

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: ☒ Yes ☐ No Photo #: 190511-071503-072603

2355-2372

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)



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.

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 Minicelly Matt Ross

Affiliation: AECOM

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: P065 / P065a Pond ID: Pool 13

Property Address: Concast Pipe 267 Brock Road

UTM Coordinates (NAD83): 569633 E 4811154 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 Wetzel ^(P065) / MTO Property Section (P065a)

Mailing Address: _____

Jefferson Salamander
Presence/Absence Reporting Form



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

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: 0 zero

Number of Samples Taken:

of adult tail tips: 0

mortalities: 0

of larvae: 0

of larvae tail tips: 0

roadkills: 0

HABITAT INFORMATION:

Average Pond Depth (m): 1-2m

Pond Description: Medium sized pond linked with Pool 14. Surrounded by deciduous forest to W, industrial properties to N and NW and heavy to SW

Terrestrial Vegetation Community Type: FoD

Other amphibians observed or heard: Tadpole observed in traps

Egg Attachment Sites Present: ☒ Yes ☐ No ☐ Unknown

Suitable Hydroperiod for Breeding: ☒ Yes ☐ No ☐ Unknown

Photos Taken: ☒ Yes ☐ No Photo #: 022025 to 023411

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)



Jefferson Salamander
Presence/Absence Reporting Form



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):
 - 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 Ellis, Maria Canoi

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:

P065

Pond ID:

P001-14

Property Address:

~~See above~~ Concast pipe 267 Brock rd

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:

Mark Wetse^{aa}lar

Mailing Address:

Jefferson Salamander
Presence/Absence Reporting Form



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

SAMPLING INFORMATION:

Date(s) of sampling: 2019-03-14 / 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 traps x 12 hours - TOO icy to fit more traps

of salamanders observed: 0

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: large pond, surrounded by forest
10 North, industrial prop E of highway west.

Terrestrial Vegetation Community Type: FOP

Other amphibians observed or heard: _____

Egg Attachment Sites Present: ☒ Yes ☐ No ☐ Unknown

Suitable Hydroperiod for Breeding: ☒ Yes ☐ No ☐ Unknown

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)



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.

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 Minicelly Andrew Aberdeen

Affiliation: AECOM

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: P065 Pond ID: Pool - 14

Property Address: Concast Pipe 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)

Land Ownership: ☐ Public ☒ Private ☐ Both

LANDOWNER INFORMATION:

Name: Mark Wetzelaur

Mailing Address: _____

Jefferson Salamander
Presence/Absence Reporting Form



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

SAMPLING INFORMATION:

Date(s) of sampling: March 21, 2018 / 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 minnow traps etc.):

Three (3) traps set for 12 hours

of salamanders observed: 0 zero

Number of Samples Taken:

of adult tail tips: 0

mortalities: 0

of larvae: 0

of larvae tail tips: 0

roadkills: 0

HABITAT INFORMATION:

Average Pond Depth (m): 1.2m

Pond Description: large Pond bordered by forest to the N. Industrial property to the N and W. highway to S and E

Terrestrial Vegetation Community Type: FoD

Other amphibians observed or heard: /

Egg Attachment Sites Present: ☒ Yes ☐ No ☐ Unknown

Suitable Hydroperiod for Breeding: ☒ Yes ☐ No ☐ Unknown

Photos Taken: ☒ Yes ☐ No Photo #: 072602 - 073511

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)



**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.

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 Minielly Edyta Rutajczyk

Affiliation: AECOM

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: P065 Pond ID: Pool-14

Property Address: Conquest pipe 267 Brock Road

UTM Coordinates (NAD83): 569690 E 4811200 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 Wetzelar

Mailing Address: _____

Jefferson Salamander
Presence/Absence Reporting Form



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

SAMPLING INFORMATION:

Date(s) of sampling: 30/03/2019 / 31/03/2019 (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: 0 zero

Number of Samples Taken:

of adult tail tips: 0

mortalities: 0

of larvae: 0

of larvae tail tips: 0

roadkills: 0

HABITAT INFORMATION:

Average Pond Depth (m): 1-2m

Pond Description: Large pond bordered by forest to the N. Industrial property to the N and E highway to SW

Terrestrial Vegetation Community Type: For

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 #: 2081-2096

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)



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.

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 Ratajczyk, Julie Ellis

Affiliation:

AECOM

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:

P065

Pond ID:

14

Property Address:

Concuss Pipe 267 Brock Road

UTM Coordinates (NAD83):

569690

E

4811200

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 Wetzel

Mailing Address:

Jefferson Salamander
Presence/Absence Reporting Form



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

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.):

12, hours, 6 minnow Traps

of salamanders observed: 0

Number of Samples Taken:

of adult tail tips: 0

mortalities: 0

of larvae: 0

of larvae tail tips: 0

roadkills: 0

HABITAT INFORMATION:

Average Pond Depth (m): _____

Pond Description: 6 tadpoles captured

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: ☒ Yes ☐ No Photo #: 73020, 73022, 2373-2382

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)



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.

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 MNR 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 Minielly Matt Ross

Affiliation: AECOM

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: Po65 Pond ID: Pool-14

Property Address: Conquest Pipe 267 Brack Rd.

UTM Coordinates (NAD83): 569690 E 4811200 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 Wetzelar

Mailing Address: See above

Jefferson Salamander
Presence/Absence Reporting Form



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

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: 0 zero

Number of Samples Taken:

of adult tail tips: 0

mortalities: 0

of larvae: 0

of larvae tail tips: 0

roadkills: 0

HABITAT INFORMATION:

Average Pond Depth (m): 1.2m

Pond Description: large pond bordered by forest to the N. Industrial property to the N and E, highway to SW

Terrestrial Vegetation Community Type: FD

Other amphibians observed or heard: Frogs observed in traps

Egg Attachment Sites Present: ☒ Yes ☐ No ☐ Unknown

Suitable Hydroperiod for Breeding: ☒ Yes ☐ No ☐ Unknown

Photos Taken: ☒ Yes ☐ No Photo #: 065433 + 0 071758

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)



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.

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 MNR 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 Minicly Amalia Walker

Affiliation: AECOM

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: P062 Pond ID: Pool-15

Property Address: Hydro One Row Fletcher Creek Sinkamp/Guelph

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.

Mailing Address: _____

Jefferson Salamander
Presence/Absence Reporting Form



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

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 ☐ 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: 0 2050

Number of Samples Taken:

of adult tail tips: 0

mortalities: 0

of larvae: 0

of larvae tail tips: 0

roadkills: 0

HABITAT INFORMATION:

Average Pond Depth (m): ~1m → rice still on pond

Pond Description: small OAO surrounded by a SWD3-4 community.
Pond sits in a depression in the middle of an agricultural field.

Terrestrial Vegetation Community Type: 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 #: 20180328-184601 to 20190328-074248.

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)



**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.

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 MNR 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 Minicilly Amalia Walker

Affiliation: AECOM

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: Po62 Pond ID: Pool-15

Property Address: Hydro One Row Fletcher Creek Swamp/Guelph

UTM Coordinates (NAD83): 568833 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.

Mailing Address: _____

Jefferson Salamander
Presence/Absence Reporting Form



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

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.):

3 Traps set for 12 hours

of salamanders observed: 0 zero

Number of Samples Taken:

of adult tail tips: 0

mortalities: 0

of larvae: 0

of larvae tail tips: 0

roadkills: 0

HABITAT INFORMATION:

Average Pond Depth (m): ~1m - ice still on pond

Pond Description: Small OAO surrounded by a SWD3-4 community. Pond located in an depression in agricultural field.

Terrestrial Vegetation Community Type: 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 #: 20190329-194517 to 20190330-072052

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)



**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.

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 Murrelly + Johanna Perz

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:

P662

Pond ID:

Pool-15

Property Address:

N/A RIGHT OF WAY FLETCHER CREEK SWAMP/GUELPH

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:

Jefferson Salamander
Presence/Absence Reporting Form



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

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 traps

of salamanders observed: 2

Number of Samples Taken:

of adult tail tips: 2

mortalities: 0

of larvae: 0

of larvae tail tips: 0

roadkills: 0

HABITAT INFORMATION:

Average Pond Depth (m): _____

Pond Description: _____

Terrestrial Vegetation Community Type: SWD 3-4

Other amphibians observed or heard: NONE

Egg Attachment Sites Present: ☒ Yes ☐ No ☐ Unknown

Suitable Hydroperiod for Breeding: ☒ Yes ☐ No ☐ Unknown

Photos Taken: ☒ Yes ☐ No Photo #: 1672-1681

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)



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.

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 Minielly Nathan De Carlo

Affiliation: AECOM

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: P062 Pond ID: Pool-15

Property Address: Hydro One Row Fletcher Creek Swamp/Guelph

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.

Mailing Address: _____

Jefferson Salamander
Presence/Absence Reporting Form



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

SAMPLING INFORMATION:

Date(s) of sampling: 07/04/2018 / 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 traps set for 12 hours

of salamanders observed: 0 zero

Number of Samples Taken:

of adult tail tips: 0

mortalities: 0

of larvae: 0

of larvae tail tips: 0

roadkills: 0

HABITAT INFORMATION:

Average Pond Depth (m): ~1m

Pond Description: Small OAO surrounded by a SWD3-4 community Pond located in a depression in agricultural field

Terrestrial Vegetation Community Type: 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 #: 072537 to 073827

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)



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.

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 MNR 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 Minelly Edyta Ruter, Czyk

Affiliation: AECOM

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: P062 Pond ID: P001-15

Property Address: Hydro One Row Fletcher Creek Swamp / Guelph

UTM Coordinates (NAD83): 568833 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.

Mailing Address:

Jefferson Salamander
Presence/Absence Reporting Form



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

SAMPLING INFORMATION:

Date(s) of sampling: 13/04/2018 14/04/2018 (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 traps set for 12 hours

of salamanders observed: 0 zero

Number of Samples Taken:

of adult tail tips: 0

mortalities: 0

of larvae: 0

of larvae tail tips: 0

roadkills: 0

HABITAT INFORMATION:

Average Pond Depth (m): 2/m

Pond Description: Small pond surrounded by a SWD3-4 community. Pond located in a depression in agricultural field.

Terrestrial Vegetation Community Type: 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 080106

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)



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.

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): Johanna Perz + Matthew Ross

Affiliation: AECOM

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: P063 Pond ID: P001-16

Property Address: N/A Con 7 front Pt Lot 28 TGTHR with Row

UTM Coordinates (NAD83): E N (NOT Lat, Long) 43.4466099
(Do not record UTM of each minnow trap, only one coordinate per pond or road location is required) -80.1347

Land Ownership: ☐ Public ☒ Private ☐ Both

LANDOWNER INFORMATION:

Name: Mr. Ean Coburn (Tenant)

Mailing Address:

Jefferson Salamander
Presence/Absence Reporting Form



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

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.):

12 hours 4 traps

of salamanders observed: 0

Number of Samples Taken:

of adult tail tips: 0

mortalities: 0

of larvae: 0

of larvae tail tips: 0

roadkills: 0

HABITAT INFORMATION:

Average Pond Depth (m): ~1m

Pond Description: vernal pool within deciduous forest dominated by sugar maple + beech

Terrestrial Vegetation Community Type: FOD

Other amphibians observed or heard: None

Egg Attachment Sites Present: ☒ Yes ☐ No ☐ Unknown

Suitable Hydroperiod for Breeding: ☒ Yes ☐ No ☐ Unknown

Photos Taken: ☒ Yes ☐ No Photo #: 1571 - 1589

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)



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.

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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): Matt Ross, Andrew Aberden

Affiliation: AECOM

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: P063 Pond ID: 16

Property Address: Con 7 Front Pt. Lot 28 TG THR 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)

Land Ownership: ☐ Public ☒ Private ☐ Both

LANDOWNER INFORMATION:

Name: Hydro One Networks Inc.

Mailing Address: _____

Jefferson Salamander
Presence/Absence Reporting Form



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

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 hrs

of salamanders observed: 0

Number of Samples Taken:

of adult tail tips: 0

mortalities: 0

of larvae: 0

of larvae tail tips: 0

roadkills: 0

HABITAT INFORMATION:

Average Pond Depth (m): 1

Pond Description: Pond within FOD

Terrestrial Vegetation Community Type: Sugar Maple - Beech Deciduous Forest

Other amphibians observed or heard: None

Egg Attachment Sites Present:

☒ Yes

☐ No

☐ Unknown

Suitable Hydroperiod for Breeding:

☒ Yes

☐ No

☐ Unknown

Photos Taken:

☐ Yes

☒ No

Photo #: 190828, 190848, 191029, 191324

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)



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.

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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): Edyta Ratajczyk, Olga Hropach

Affiliation: AECOM

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: P063 Pond ID: 16

Property Address: N/A Con 7 front Pt Lot 28 TGTIR 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)

Land Ownership: ☐ Public ☒ Private ☐ Both

LANDOWNER INFORMATION:

Name: Hydro One Networks Inc

Mailing Address: _____

Jefferson Salamander
Presence/Absence Reporting Form



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

SAMPLING INFORMATION:

Date(s) of sampling: 06/04/2017 - 07/04/2017 (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.):

12 hours, 5 minnow traps

of salamanders observed: 0

Number of Samples Taken:

of adult tail tips: 0

mortalities: 0

of larvae: 0

of larvae tail tips: 0

roadkills: 0

HABITAT INFORMATION:

Average Pond Depth (m): _____

Pond Description: 50L previous

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: ☒ Yes ☐ No Photo #: 2236-2270, 060334, 062255

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)



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.

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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): Johanna Perz and Maria Ciancio

Affiliation: AECOM

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: Pool-16 P063 Pond ID: Pool-16

Property Address: CON 7 FRONT PT LOT 28 T6TH-R WITH ROW

UTM Coordinates (NAD83): 570005 E 4810752 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.

Mailing Address: _____

Jefferson Salamander
Presence/Absence Reporting Form



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

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 Two

Number of Samples Taken:

of adult tail tips: 2

mortalities: 0

of larvae: 0

of larvae tail tips: 0

roadkills: 0

HABITAT INFORMATION:

Average Pond Depth (m): ~1m

Pond Description: vernal pool within deciduous 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: ☒ Yes ☐ No Photo #: 1700 to 1707

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)



Jefferson Salamander
Presence/Absence Reporting Form



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):
 - 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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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 & Julie Ellis

Affiliation: AECOM

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: P063 Pond ID: Pool-16

Property Address: Conc 7 Front PT lot 28 TGTMR W ROW

UTM Coordinates (NAD83): 57000.5 E 4810752 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.

Mailing Address: _____

Jefferson Salamander
Presence/Absence Reporting Form



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

SAMPLING INFORMATION:

Date(s) of sampling: April 9-10, 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: 1 One

Number of Samples Taken:

of adult tail tips: 1

mortalities: 0

of larvae: 0

of larvae tail tips: 0

roadkills: 0

HABITAT INFORMATION:

Average Pond Depth (m): _____

Pond Description: see previous forms

Terrestrial Vegetation Community Type: FODS-1

Other amphibians observed or heard: None

Egg Attachment Sites Present: ☒ Yes ☐ No ☐ Unknown

Suitable Hydroperiod for Breeding: ☒ Yes ☐ No ☐ Unknown

Photos Taken: ☒ Yes ☐ No Photo #: 1729 to 1738

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)



Jefferson Salamander
Presence/Absence Reporting Form



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):
 - 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): Matt Ross Johanna Perz

Affiliation: AECOM

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: P079 Pond ID: P0017

Property Address: N/A Con 7 Pt Lots 28 and 29 RP 61R1368 Parts 1 and 2

UTM Coordinates (NAD83): _____ E _____ N (NOT Lat, Long) 43.4550856

(Do not record UTM of each minnow trap, only one coordinate per pond or road location is required) -80.1311

Land Ownership: ☐ Public ☒ Private ☐ Both

LANDOWNER INFORMATION:

Name: Susan McKen (MTO)

Mailing Address: 160 113

Jefferson Salamander
Presence/Absence Reporting Form



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

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.):

12 hrs - 4 traps

of salamanders observed: 0

~~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: Vernal pool within FOD

Terrestrial Vegetation Community Type: FOD

Other amphibians observed or heard: None

Egg Attachment Sites Present: ☒ Yes ☐ No ☐ Unknown

Suitable Hydroperiod for Breeding: ☒ Yes ☐ No ☐ Unknown

Photos Taken: ☒ Yes ☐ No Photo #: 1560 - 1586

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)



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.

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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): Matt Ross, Andrew Aberdein

Affiliation: AECOM

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: P079 Pond ID: 17

Property Address: Con 7 P4 Lots 28 and 29 RP 61R1368 Parts 1 and 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

LANDOWNER INFORMATION:

Name: Susan McKay (MTO)

Mailing Address: _____

Jefferson Salamander
Presence/Absence Reporting Form



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

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 hours

of salamanders observed: NONE

Number of Samples Taken:

of adult tail tips: NONE

mortalities: NONE

of larvae: NONE

of larvae tail tips: NONE

roadkills: NONE

HABITAT INFORMATION:

Average Pond Depth (m): 1

Pond Description: Pond situated within FOD

Terrestrial Vegetation Community Type: Sugar Maple-Beech Deciduous Forest

Other amphibians observed or heard: None

Egg Attachment Sites Present: ☒ Yes ☐ No ☐ Unknown

Suitable Hydroperiod for Breeding: ☒ Yes ☐ No ☐ Unknown

Photos Taken: ☐ Yes ☒ No Photo #: 192754, 193452, 193837
194033

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)



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.

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 Ratajczyk, Olga Hropach

Affiliation: AECOM

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: P079 Pond ID: 17

Property Address: Con 7 Pt lots 28, 29 R/G/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

LANDOWNER INFORMATION:

Name: Susan McKay (MTO)

Mailing Address: _____

Jefferson Salamander
Presence/Absence Reporting Form



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

SAMPLING INFORMATION:

Date(s) of sampling: 06/04/2019 - 07/04/2019 (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 Minnow Traps

of salamanders observed: 0

Number of Samples Taken:

of adult tail tips: 0

mortalities: 0

of larvae: 0

of larvae tail tips: 0

roadkills: 0

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: ☒ Yes ☐ No ☐ Unknown

Photos Taken: ☒ Yes ☐ No Photo #: 60033-62256, 2019-2267

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)



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.

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): Johanna Perz and Maria Ciano

Affiliation: AECOM

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: P079 Pond ID: P001-17

Property Address: CON 7 PT LOTS 28 and 29 RP 61R1368 part S1 and

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: MTD Susan McKay Property Supervisor, West Region

Mailing Address: _____

**Jefferson Salamander
Presence/Absence Reporting Form**



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

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: 0

Number of Samples Taken:

of adult tail tips: 0

mortalities: 0

of larvae: 0

of larvae tail tips: 0

roadkills: 0

HABITAT INFORMATION:

Average Pond Depth (m): _____

Pond Description: _____

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: ☒ Yes ☐ No Photo #: 1708-1713

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)



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.

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 Ellis/ Olga Herpach

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:

P079

Pond ID:

P001-17

Property Address:

CON 7 PT LOTS 28, 29 RP GIR 368 PAHS #2

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

Mailing Address:

1059 Exter Rd, London ON N6E 1L3

Jefferson Salamander
Presence/Absence Reporting Form



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

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):

Tail Tip Roadkill Larvae Egg Mass Visual Observation

Search Effort (time spent, number of minnow traps etc.):

5 traps & 12 hours

of salamanders observed: 0

Number of Samples Taken:

of adult tail tips: 0

mortalities: 0

of larvae: 0

of larvae tail tips: 0

roadkills: 0

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: ☒ Yes ☐ No ☐ Unknown

Photos Taken: ☒ Yes ☐ No Photo #: 184905-185755

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)



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.

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): Karen McKenzie & Nataliya Simonova

Affiliation: AECOM

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: P079 Pond ID: POOL-18

Property Address: _____

UTM Coordinates (NAD83): 571054 E 4811280 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: _____

Mailing Address: _____

Jefferson Salamander
Presence/Absence Reporting Form



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

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: 0

mortalities: 0

of larvae: 0

of larvae tail tips: 0

roadkills: 0

HABITAT INFORMATION:

Average Pond Depth (m): _____

Pond Description: large pond / marsh, 20% open

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: ☒ 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)



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.

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 Ellis / Schanna Perz

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: P079 Pond ID: Pool-18

Property Address: _____

UTM Coordinates (NAD83): 571054 E 4211286 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: _____

Jefferson Salamander
Presence/Absence Reporting Form



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

SAMPLING INFORMATION:

Date(s) of sampling: 2019-03-30/31 (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 x 12 hours

of salamanders observed: 2

Number of Samples Taken:

of adult tail tips: 2

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: ☐ Yes ☒ No Photo #: 1616 to 1621

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)



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.

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 MNR 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): Matt Ross, Karen Martens

Affiliation: AECOM

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: P079 Pond ID: 18

Property Address: CON 7 PT Lots 28 and 29 PPG/R/ 368 Pts. land

UTM Coordinates (NAD83): 570989 E 481224 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: Susan McKen (MTO)

Mailing Address: _____

Jefferson Salamander
Presence/Absence Reporting Form



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

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.):

5 traps, 12 hours

of salamanders observed: NONE

Number of Samples Taken:

of adult tail tips:

mortalities:

of larvae:

of larvae tail tips:

roadkills:

HABITAT INFORMATION:

Average Pond Depth (m): 1.5

Pond Description: Marsh w open water surrounded by forest

Terrestrial Vegetation Community Type: FOD, FOC, FOM

Other amphibians observed or heard: None

Egg Attachment Sites Present: ☒ Yes ☐ No ☐ Unknown

Suitable Hydroperiod for Breeding: ☒ Yes ☐ No ☐ Unknown

Photos Taken: ☐ Yes ☒ No Photo #: 192245 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)



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.

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 MNR 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 Karen Martens

Affiliation: AECOM

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: P079 Pond ID: 18

Property Address: N/A

UTM Coordinates (NAD83): 570924 E 4811178 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: MTD Property section

Mailing Address: _____

Jefferson Salamander
Presence/Absence Reporting Form



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

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 Ambystoma sp

Number of Samples Taken:

of adult tail tips: 1

mortalities: 0

of larvae: 0

of larvae tail tips: 0

roadkills: 0

HABITAT INFORMATION:

Average Pond Depth (m): >1m

Pond Description: Large pond/Marsh - 20% open water

Terrestrial Vegetation Community Type: MAS/OAO/SWT

Other amphibians observed or heard: Spring Peeper

Egg Attachment Sites Present: ☒ Yes ☐ No ☐ Unknown

Suitable Hydroperiod for Breeding: ☒ Yes ☐ No ☐ Unknown

Photos Taken: ☒ Yes ☐ No Photo #: 6798-6812; 6820-6831

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)



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.

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 MNR 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, Adam McClelland

Affiliation: AECOM

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: P079 Pond ID: 18

Property Address: N/A

UTM Coordinates (NAD83): 570924 E 4811178 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: _____

Jefferson Salamander
Presence/Absence Reporting Form



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

SAMPLING INFORMATION:

Date(s) of sampling: 08-09/04/2019 (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 x 12 hours

of salamanders observed: 1 Ambystoma sp.

Number of Samples Taken:

of adult tail tips: 1

mortalities: 0

of larvae: 0

of larvae tail tips: 0

roadkills: 0

HABITAT INFORMATION:

Average Pond Depth (m): _____

Pond Description: see previous form

Terrestrial Vegetation Community Type: MAS / OAO / SWT

Other amphibians observed or heard: Spring Peeper

Egg Attachment Sites Present: ☒ Yes ☐ No ☐ Unknown

Suitable Hydroperiod for Breeding: ☒ Yes ☐ No ☐ Unknown

Photos Taken: ☒ Yes ☐ No Photo #: 6854-6870, 6882-6890

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)



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.

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):

Johanna Perz and Julie Ellis

Affiliation:

AECOM

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:

P079

Pond ID:

P001-18

Property Address:

N/A

UTM Coordinates (NAD83):

570824

E

4811178

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 Section

Mailing Address:

Jefferson Salamander
Presence/Absence Reporting Form



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

SAMPLING INFORMATION:

Date(s) of sampling: April 9-10, 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.):

8 Traps x 12 hours

of salamanders observed: 1 One

Number of Samples Taken:

of adult tail tips: 1

mortalities: 0

of larvae: 0

of larvae tail tips: 0

roadkills: 0

HABITAT INFORMATION:

Average Pond Depth (m): _____

Pond Description: see previous forms

Terrestrial Vegetation Community Type: _____

Other amphibians observed or heard: Spring peeper (know)

Egg Attachment Sites Present: ☒ Yes ☐ No ☐ Unknown

Suitable Hydroperiod for Breeding: ☒ Yes ☐ No ☐ Unknown

Photos Taken: ☒ Yes ☐ No Photo #: 1739 to 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)



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.

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 MNR 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 Ellis / Olga Khropach
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: P079 Pond ID: Pool-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 Section
Mailing Address: 659 Exeter Rd, London, ON L6E 1L3

Jefferson Salamander
Presence/Absence Reporting Form



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

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):

Tail Tip Roadkill Larvae Egg Mass Visual Observation

Search Effort (time spent, number of minnow traps etc.):

3 traps x 12 hours

of salamanders observed: 0

Number of Samples Taken:

of adult tail tips: 0

mortalities: 0

of larvae: 0

of larvae tail tips: 0

roadkills: 0

HABITAT INFORMATION:

Average Pond Depth (m): _____

Pond Description: See previous

Terrestrial Vegetation Community Type: _____

Other amphibians observed or heard: SPPE WORK

Egg Attachment Sites Present: ☒ Yes ☐ No ☐ Unknown

Suitable Hydroperiod for Breeding: ☒ Yes ☐ No ☐ Unknown

Photos Taken: ☒ Yes ☐ No 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)



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.

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):

Matt Ross, Andrew Aberdeen

Affiliation:

AECOM

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:

PXX2

Pond ID:

20

Property Address:

9 Ochs Drive, Markham, ON

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 Nadeau

Mailing Address:

9 Ochs Drive, Markham, ON N0B 2C0

Jefferson Salamander
Presence/Absence Reporting Form



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

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.):

3 traps 12 hours

of salamanders observed: NONE

Number of Samples Taken:

of adult tail tips: NONE

mortalities: NONE

of larvae:

of larvae tail tips:

roadkills:

HABITAT INFORMATION:

Average Pond Depth (m): ~75m

Pond Description: Pond within FOD/CUW

Terrestrial Vegetation Community Type: FOD/CUW

Other amphibians observed or heard: None

Egg Attachment Sites Present:

☒ Yes

☐ No

☐ Unknown

Suitable Hydroperiod for Breeding:

☒ Yes

☐ No

☐ Unknown

Photos Taken:

☐ Yes

☒ No

Photo #: 202732 to 203824

SECTION B – TO BE FILLED OUT BY DR. BOGART

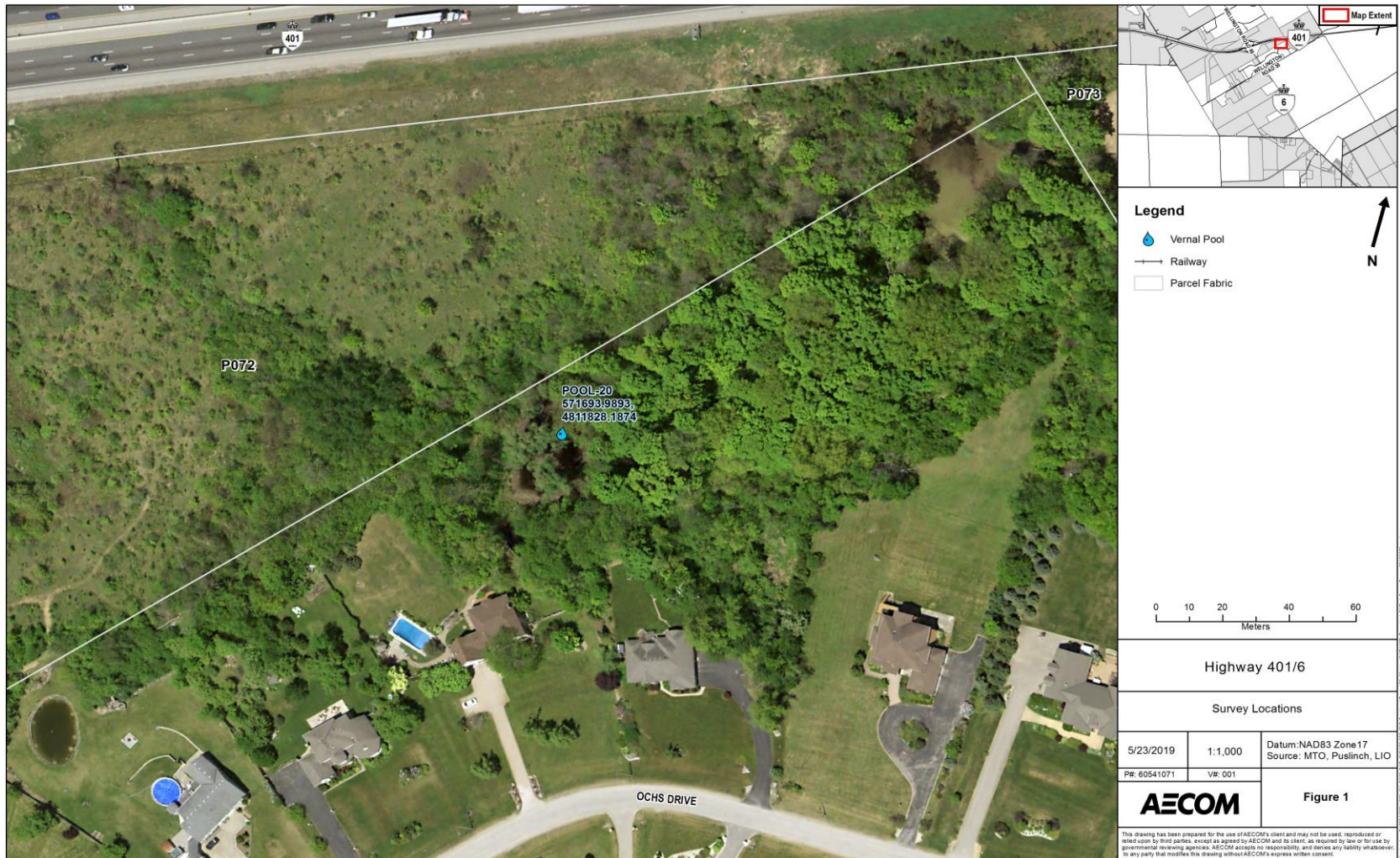
Date samples received: _____ (dd/mm/yyyy)

Condition of samples received: _____

JPB #(s): _____



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



Jefferson Salamander
Presence/Absence Reporting Form



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):
 - 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.
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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 MNR 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 Ellis / Johanno Perry

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: Pool-20 P&X2 Pond ID: Pool-20

Property Address: 9 Ochers Drive

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 Nadeau

Mailing Address: _____

Jefferson Salamander
Presence/Absence Reporting Form



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

SAMPLING INFORMATION:

Date(s) of sampling: 2019-03-30/31 (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.):

B traps x 12 hrs

of salamanders observed: 0

Number of Samples Taken:

of adult tail tips: 0

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: ☐ Yes ☐ No Photo #: 1612 to 1615

SECTION B – TO BE FILLED OUT BY DR. BOGART

Date samples received: (dd/mm/yyyy)

Condition of samples received:

JPB #(s):



P072

P073

POOL-20
571693.8893
4811828.1874

OCHS DRIVE

401

6

Map Extent

Legend

- Vernal Pool
- Railway
- Parcel Fabric

0 10 20 40 60
Meters

Highway 401/6

Survey Locations

5/23/2019	1:1,000	Datum: NAD83 Zone 17 Source: MTO, Puslinch, LIO
PR: 60541071	V#: 001	

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Figure 1

This drawing has been prepared for the use of AECOM's client and may not be used, reproduced or relied upon by third parties, except as agreed by AECOM and its client, as required by law or for use by governmental reviewing agencies. AECOM accepts no responsibility, and denies any liability whatsoever to any party that modifies this drawing without AECOM's express written consent.

Jefferson Salamander
Presence/Absence Reporting Form



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): Julie Ellis / Olga Hropach

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: Pxx2 Pond ID: Pool-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

LANDOWNER INFORMATION:

Name: John Nadeau

Mailing Address: _____

Jefferson Salamander
Presence/Absence Reporting Form



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

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):

☒ Tail Tip

☐ Roadkill

☐ Larvae

☐ Egg Mass

☐ Visual Observation

Search Effort (time spent, number of minnow traps etc.):

3 traps 12 hours

of salamanders observed: 0

Number of Samples Taken:

of adult tail tips: 0

mortalities: 0

of larvae: 0

of larvae tail tips: 0

roadkills: 0

HABITAT INFORMATION:

Average Pond Depth (m): _____

Pond Description: see previous

Terrestrial Vegetation Community Type: _____

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 #: 062828-062835

SECTION B – TO BE FILLED OUT BY DR. BOGART

Date samples received: _____ (dd/mm/yyyy)

Condition of samples received: _____

JPB #(s): _____



P072

P073

POOL-20
571693.8893
4811828.1874

OCHS DRIVE

401

6

Map Extent

Legend

- Vernal Pool
- Railway
- Parcel Fabric

0 10 20 40 60
Meters

Highway 401/6

Survey Locations

5/23/2019	1:1,000	Datum: NAD83 Zone 17 Source: MTO, Puslinch, LIO
PR: 60541071	V#: 001	

AECOM

Figure 1

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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): Edyta Ratajczyk Kasey McKenzie

Affiliation: AECOM

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: 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)

Land Ownership: ☐ Public ☒ Private ☐ Both

LANDOWNER INFORMATION:

Name: John Nadeau

Mailing Address: _____

**Jefferson Salamander
Presence/Absence Reporting Form**



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

SAMPLING INFORMATION:

Date(s) of sampling: 12/04/2018 18/04/2018 (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.):

3 traps set for 12 hours

of salamanders observed: 0 zero

Number of Samples Taken:

of adult tail tips: 0

mortalities: 0

of larvae: 0

of larvae tail tips: 0

roadkills: 0

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: ☒ Yes ☐ No Photo #: _____

SECTION B – TO BE FILLED OUT BY DR. BOGART

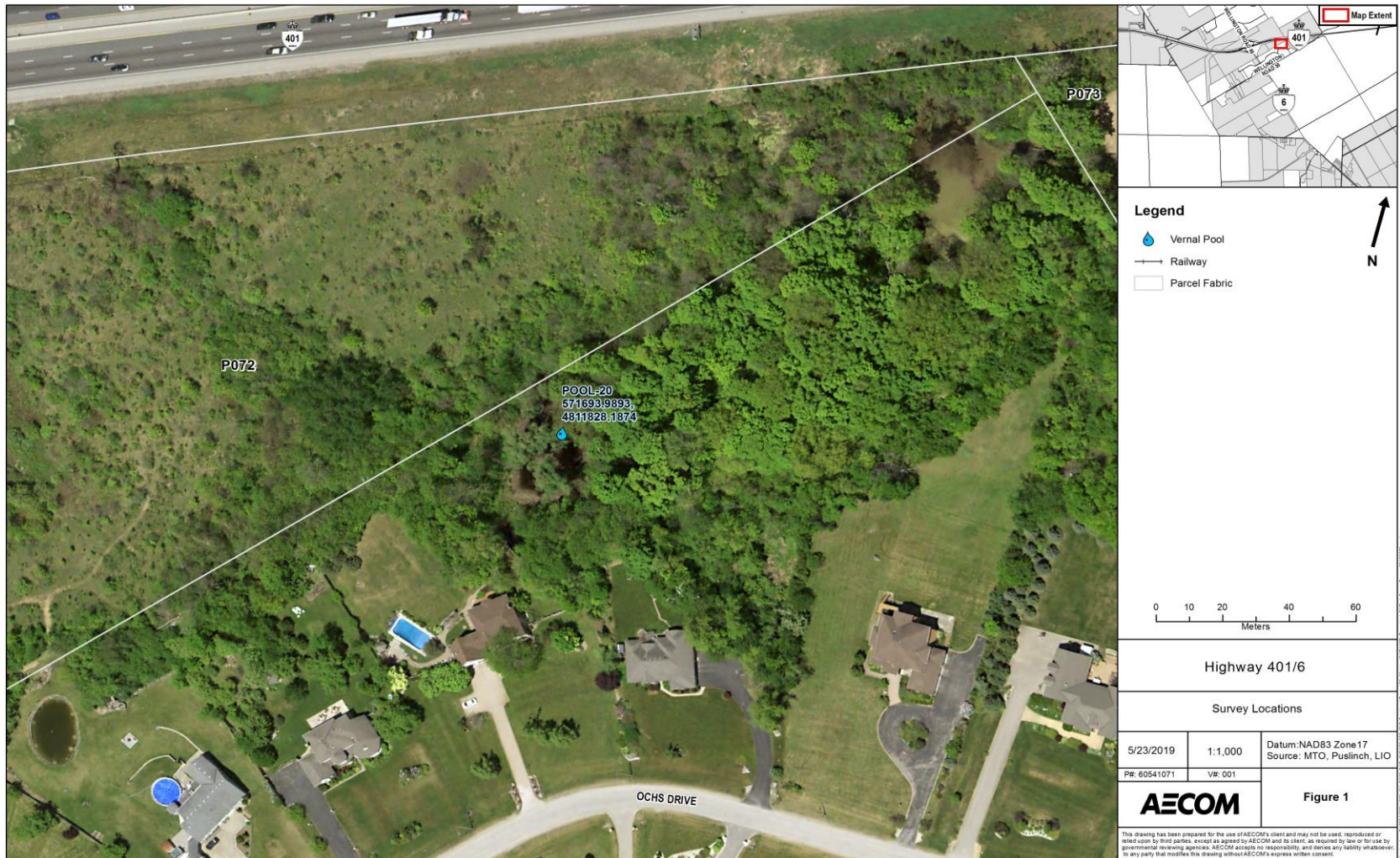
Date samples received: _____ (dd/mm/yyyy)

Condition of samples received: _____

JPB #(s): _____



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



Jefferson Salamander
Presence/Absence Reporting Form



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): Edyta Rantaiczuk Matt Ross

Affiliation: AECOM

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: PXX2 Pond ID: Pool-20

Property Address: _____

UTM Coordinates (NAD83): 571681 E 4811782 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: _____

Jefferson Salamander
Presence/Absence Reporting Form



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

SAMPLING INFORMATION:

Date(s) of sampling: 22/04/2019 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 traps set for 12 hrs

of salamanders observed: 0 zero

Number of Samples Taken:

of adult tail tips: 0

mortalities: 0

of larvae: 0

of larvae tail tips: 0

roadkills: 0

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:

☒ Yes

☐ No

Photo #: 180627 - 181145

SECTION B – TO BE FILLED OUT BY DR. BOGART

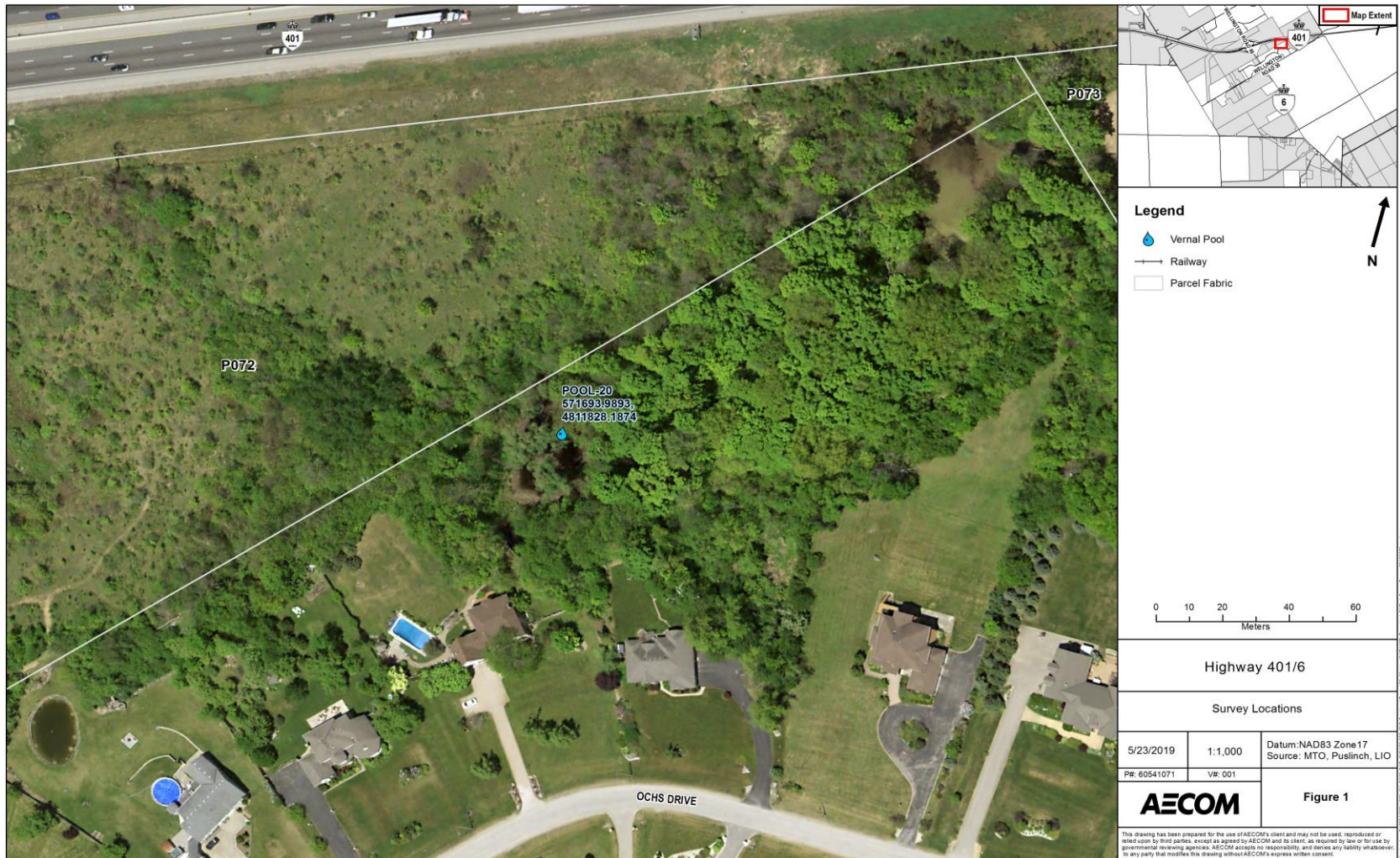
Date samples received: _____ (dd/mm/yyyy)

Condition of samples received: _____

JPB #(s): _____



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



Jefferson Salamander
Presence/Absence Reporting Form



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):
 - 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.
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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): Math Ross, Andrew Aberdeen
Affiliation: AECOM

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: P080 Pond ID: 22

Property Address: 18 Calfass Road con 7 Rear Pt. Lot 30

UTM Coordinates (NAD83): 570765 E 4810413 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: Susan McKay (MTO)
Mailing Address: 659 Exeter Rd. London, ON, N6E 1L3

Jefferson Salamander
Presence/Absence Reporting Form



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

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:

NONE

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 situated within mixed forest

Terrestrial Vegetation Community Type: FOM 2-2

Other amphibians observed or heard: None

Egg Attachment Sites Present:

☒ Yes

☐ No

☐ Unknown

Suitable Hydroperiod for Breeding:

☒ Yes

☐ No

☐ Unknown

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)



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.
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- Pond nomenclature must be consistent for all maps and reports.
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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): Lacey McKenzie + Nataliya Simanova

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: POBO Pond ID: POOL-22

Property Address: _____

UTM Coordinates (NAD83): 570767 E 4810430 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: _____

Mailing Address: _____

Jefferson Salamander
Presence/Absence Reporting Form



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

SAMPLING INFORMATION:

Date(s) of sampling: 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.):

3 traps, 12 hours

of salamanders observed: 0

Number of Samples Taken:

of adult tail tips: 0

mortalities: 0

of larvae: 0

of larvae tail tips: 0

roadkills: 0

HABITAT INFORMATION:

Average Pond Depth (m): 0.5m

Pond Description: Previous form

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: ☒ Yes ☐ 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)



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.
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- Pond nomenclature must be consistent for all maps and reports.
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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): Maria Ciano and Johanna Perz

Affiliation: AECOM

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: P080a Pond ID: P001-22

Property Address: 18 Calfass Rd CON 7 REAR PT LOT 30

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 / George Ochrym

Mailing Address: _____

Jefferson Salamander
Presence/Absence Reporting Form



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

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.):

4 traps, 12 hours

of salamanders observed: 0

Number of Samples Taken:

of adult tail tips: 0

mortalities: 0

of larvae: 0

of larvae tail tips: 0

roadkills: 0

HABITAT INFORMATION:

Average Pond Depth (m): _____

Pond Description: _____

Terrestrial Vegetation Community Type: FOM2-2

Other amphibians observed or heard: Spring Peepers heard during trap deployment

Egg Attachment Sites Present: ☒ Yes ☐ No ☐ Unknown

Suitable Hydroperiod for Breeding: ☒ Yes ☐ No ☐ Unknown

Photos Taken: ☒ Yes ☐ No Photo #: 1714-1724

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)



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.

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 Hropach
Affiliation: AECOM

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: P80a Pond ID: 22

Property Address: 18 Calfass Rd Con 7 Rear P.T Lot 30

UTM Coordinates (NAD83): 570772 E 4810416 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: MTD c/o Property Section

Mailing Address: _____

Jefferson Salamander
Presence/Absence Reporting Form



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

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.):

4 traps 12 hours

of salamanders observed: 2 (Ambystoma sp)

Number of Samples Taken:

of adult tail tips: 2 # mortalities: 0 # of larvae: 0
of larvae tail tips: 0 # roadkills: 0

HABITAT INFORMATION:

Average Pond Depth (m): 0.5m

Pond Description: small pond, swamp thicket surrounding,
pond fringes Reed Canary Grass Marsh 100% open water

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: ☒ Yes ☐ No Photo #: 0505 - 0520, 0550, 0551
6891 - 6901

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): James Kamstra Edyta Ratajczyk

Affiliation: AECOM

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: Po80 / Po81 Pond ID: 28 23

Property Address: Po80 -> 18 Calfass Rd. Con 7 Rear Pt / Lot 30

Po81 -> 7374 Calfass Rd. Puslinch ON
UTM Coordinates (NAD83): 576674 E 4810356 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: Po80 -> George Ochrym Po81 -> Michael Andrude

Mailing Address: Po80 -> 27 Poplar Heights Dr. Toronto ON M9A 5A1
Po81 -> 7374 Calfass Rd. Puslinch ON.

Jefferson Salamander
Presence/Absence Reporting Form



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

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 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 minnow traps

of salamanders observed: 0

Number of Samples Taken:

of adult tail tips: 0

of larvae tail tips: 0

mortalities: 0

roadkills: 0

of larvae: 0

HABITAT INFORMATION:

Average Pond Depth (m): 0.5

Pond Description: Mts with FOM/FOM, abundant emergent vegetation with
some downed woody debris in site.

Terrestrial Vegetation Community Type: FOM2-2, FODS-1

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 #: 1905-1921

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)



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.

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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):

Matt Ross, Andrew Aberdeen

Affiliation:

AECOM

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:

P080

Pond ID:

22

Property Address:

18 Calfass Road con 7 Rear Pt. Lot 30

UTM Coordinates (NAD83):

570765 E

4810413

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:

Susan McKay (MTO)

Mailing Address:

Jefferson Salamander
Presence/Absence Reporting Form



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

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: NONE

Number of Samples Taken:

of adult tail tips: NONE

mortalities: NONE

of larvae: NONE

of larvae tail tips: NONE

roadkills: NONE

HABITAT INFORMATION:

Average Pond Depth (m): 0.5 cm

Pond Description: Pond situated within mixed forest

Terrestrial Vegetation Community Type: FOM 2-2

Other amphibians observed or heard: None

Egg Attachment Sites Present:

☒ Yes

☐ No

☐ Unknown

Suitable Hydroperiod for Breeding:

☒ Yes

☐ No

☐ Unknown

Photos Taken:

☐ Yes

☒ No

Photo #: 201252, 201341, 201904

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)



Jefferson Salamander
Presence/Absence Reporting Form



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):
 - 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): Kasey McKenzie & Nataliya Simonova
Affiliation: AECOM

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/P080 Pond ID: POOL-23

Property Address: P080 -> 18 Calfess Rd. CON 7 Rens PT LOT 30

P081 -> 7374 Calfess Rd. Puslinch ON
UTM Coordinates (NAD83): 570674 E 4860356 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: P080 -> George Ochrym P081 -> Michael Andrade

Mailing Address: P080 -> 27 Poplar Heights Dr Toronto ON M9A 5A1
P081 -> 7374 Calfess Rd. Puslinch ON

Jefferson Salamander
Presence/Absence Reporting Form



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

SAMPLING INFORMATION:

Date(s) of sampling: 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.):

3 traps, 12 hours

of salamanders observed: 1 Ambystoma sp

Number of Samples Taken:

of adult tail tips: 1

mortalities: 0

of larvae: 0

of larvae tail tips: 0

roadkills: 0

HABITAT INFORMATION:

Average Pond Depth (m): 1 ft

Pond Description: shallow pond with lots of cattails + reed canopy
across;

Terrestrial Vegetation Community Type: 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: ☒ Yes ☐ No Photo #: 6751, 6752, 6754-6756
6773-6776, 6737-6741

SECTION B – TO BE FILLED OUT BY DR. BOGART

Date samples received: _____ (dd/mm/yyyy)

Condition of samples received: _____

JPB #(s): _____

ID Pool-23-001



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



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.

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 Minicelly Nathan De Carlo

Affiliation: AECOM

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: Po81 / Po80 Pond ID: 23

Property Address: Po80 -> 18 Calfass Rd con 7 Per 17 Lot 30

Po81 -> 7379 Calfass Rd. Puslinch ON
UTM Coordinates (NAD83): 570671 E 4810356 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: _____

Mailing Address: _____

Jefferson Salamander
Presence/Absence Reporting Form



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

SAMPLING INFORMATION:

Date(s) of sampling: 07/04/2019 07/01/2018 (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 hrs

of salamanders observed: 0 zero

Number of Samples Taken:

of adult tail tips: 0

mortalities: 0

of larvae: 0

of larvae tail tips: 0

roadkills: 0

HABITAT INFORMATION:

Average Pond Depth (m): 0.5m

Pond Description: Shallow pond/cattail and reed canopy marsh

Terrestrial Vegetation Community Type: MAM1, SWD, SWT, FOM

Other amphibians observed or heard: None

Egg Attachment Sites Present: ☒ Yes ☐ No ☐ Unknown

Suitable Hydroperiod for Breeding: ☒ Yes ☐ No ☐ Unknown

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)



Jefferson Salamander
Presence/Absence Reporting Form



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):
 - 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): Nataliya Simonova Olga Hropach

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): 1570684 E 4810335 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: _____

Mailing Address: _____

Jefferson Salamander
Presence/Absence Reporting Form



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

SAMPLING INFORMATION:

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.):

5 traps by 12 hours

of salamanders observed: 0

Number of Samples Taken:

of adult tail tips: 0

mortalities: 0

of larvae: 0

of larvae tail tips: 0

roadkills: 0

HABITAT INFORMATION:

Average Pond Depth (m): 0.5m

Pond Description: shallow pond with cattails and reed catary
grass marsh community

Terrestrial Vegetation Community Type: MAM2, SWD, SWT, FOM

Other amphibians observed or heard: Spring Peeper

Egg Attachment Sites Present: ☒ Yes ☐ No ☐ Unknown

Suitable Hydroperiod for Breeding: ☒ Yes ☐ No ☐ Unknown

Photos Taken: ☒ Yes ☐ No Photo #: 0478-0504; 0545-0549

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)



Jefferson Salamander
Presence/Absence Reporting Form



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):
 - 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.
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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): James Kamstra Ewelita Ratajczyk

Affiliation: AECOM

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 Pond ID: 26

Property Address: East of 7374 Concession 6thess Rd. Puslinch 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 C/O Property Section

Mailing Address: _____

Jefferson Salamander
Presence/Absence Reporting Form



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

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.):

11 hours, 4 minnow traps

of salamanders observed: 0

Number of Samples Taken:

of adult tail tips: 0

mortalities: 0

of larvae: 0

of larvae tail tips: 0

roadkills: 0

HABITAT INFORMATION:

Average Pond Depth (m): ~1.2m

Pond Description: Pond directly adjacent to Calfess Rd. Small SWD area with FOM2-2 community

Terrestrial Vegetation Community Type: FOM2-2

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 #: 1955-1978

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)



Jefferson Salamander
Presence/Absence Reporting Form



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):
 - 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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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 Rutajczyk

Affiliation: AECOM

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: PoBou Pond ID: 26

Property Address: East of 7374 Concession Rd. Puslinch ON

UTM Coordinates (NAD83): 0570711 E 4810023 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 C/O Property Section

Mailing Address: _____

Jefferson Salamander
Presence/Absence Reporting Form



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

SAMPLING INFORMATION:

Date(s) of sampling: 30/03/2014 (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, 4 minnow traps

of salamanders observed: 0

Number of Samples Taken:

of adult tail tips: 0

mortalities: 0

of larvae: 0

of larvae tail tips: 0

roadkills: 0

HABITAT INFORMATION:

Average Pond Depth (m): ~1.2m

Pond Description: Pond directly adjacent to Caltass Rd. Small SWD area within FOM2-2 community.

Terrestrial Vegetation Community Type: FOM2-2

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 #: 2058-2073

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)



**Jefferson Salamander
Presence/Absence Reporting Form**



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):
 - 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.
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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): Olga Hropach, Edyta Ratajczyk

Affiliation: AECOM

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: P080a Pond ID: 26

Property Address: East of 7374 Concession Calfass Rd Puslin

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: MTD Property Section

Mailing Address: _____

Jefferson Salamander
Presence/Absence Reporting Form



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

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 traps 12 hours

of salamanders observed: 0

Number of Samples Taken:

of adult tail tips: 0

mortalities: 0

of larvae: 0

of larvae tail tips: 0

roadkills: 0

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: ☒ Yes ☐ No Photo #: 190427, 2154-2177
190421

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)



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.

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 Rafajczyk, Adam McClelland

Affiliation: AECOM

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: Po80a Pond ID: 26

Property Address: East of 7374 Concession Calfass Rd Puslinch 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: MTD Property Section

Mailing Address: _____

Date(s) of sampling: 07/04/2019 08/04/2019 (dd/mm/yyyy)

Minnow Trap Cover Board Road Pitfall Trap Visual Incidental

Tail Tip Roadkill Larvae Egg Mass Visual Observation

12, 4 traps

of salamanders observed: 0

of adult tail tips: _____

mortalities: 1

of larvae: 1

of larvae tail tips: 0

roadkills: 2

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: ☒ Yes ☐ No Photo #: 2296-2318

Date samples received: _____ (dd/mm/yyyy)

Condition of samples received: _____

JPB #(s): _____



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



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.

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 MNR 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 Ratajczyk / Julie Ellis

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: P086 Pond ID: Pool-26

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: Susan McKay, Property Supervisor, MTO West Region

Mailing Address: 659 Exeter Rd, London, On, N6E 1L3

Jefferson Salamander
Presence/Absence Reporting Form



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

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.):

4 x 12 hours

of salamanders observed: 0

Number of Samples Taken:

of adult tail tips: 0

mortalities: 0

of larvae: 0

of larvae tail tips: 0

roadkills: 0

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:

☒ Yes ☐ No Photo #: 23 97-2405, 192428-192434

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)



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.

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): Edele Datagczyk / Julie Ellis

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: Pool-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: ☒ Public ☒ Private ☒ Both

LANDOWNER INFORMATION:

Name: Susan McKay, Property supervisor, MTO west region

Mailing Address: 659 Exeter Rd, London, On, N6E 1L3

Jefferson Salamander
Presence/Absence Reporting Form



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

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.):

4 traps x 12 hours

of salamanders observed: 0

Number of Samples Taken:

of adult tail tips: 0

mortalities: 0

of larvae: 0

of larvae tail tips: 0

roadkills: 0

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: ☐ 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)



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.

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 Kumstra Edyta Rutajczyk

Affiliation: AECOM

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: P084u Pond ID: 27

Property Address: Culpeper Rd, Puslinch 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)

Land Ownership: ☐ Public ☐ Private ☒ Both

LANDOWNER INFORMATION:

Name: Transportation Ministry UO Property Section

Mailing Address: _____

**Jefferson Salamander
Presence/Absence Reporting Form**



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

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.):

11 hours 4 minnow traps

of salamanders observed: 0

Number of Samples Taken:

of adult tail tips: 0

mortalities: 0

of larvae: 0

of larvae tail tips: 0

roadkills: 0

HABITAT INFORMATION:

Average Pond Depth (m): 1m

Pond Description: Pond directly adjacent to Calhoun Rd. Small SWT2 Community.

Terrestrial Vegetation Community Type: Lawn, Agricultural lands FOM2-2 across street

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 #: 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)



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.

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 Kumstra Edyta Rutajczyk

Affiliation: AECOM

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: P084a Pond ID: 27

Property Address: Culbass Rd, Puslinch ON

UTM Coordinates (NAD83): 570743 E 4809889 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 C/O Property Section

Mailing Address: _____

Jefferson Salamander
Presence/Absence Reporting Form



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

SAMPLING INFORMATION:

Date(s) of sampling: 30/03/2019 - 31/03/2019 (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, 4 minnow traps

of salamanders observed: 0

Number of Samples Taken:

of adult tail tips: 0

mortalities: 0

of larvae: 0

of larvae tail tips: 0

roadkills: 0

HABITAT INFORMATION:

Average Pond Depth (m): 2.1m

Pond Description: Pond directly adjacent to Calfess Rd. Small SUT2 community

Terrestrial Vegetation Community Type: low, Agricultural field. FOM2-2 across street.

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 #: 2037-2053

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)



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.

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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): Olga Hropach, Edyta Ratajczyk
Affiliation: AECOM

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: P084a Pond ID: 27

Property Address: Calfass Rd, Puslinch 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)

Land Ownership: ☐ Public ☐ Private ☒ Both

LANDOWNER INFORMATION:

Name: MTD Property Section

Mailing Address: _____

Jefferson Salamander
Presence/Absence Reporting Form



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

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, 4 minnow Traps

of salamanders observed: 0

Number of Samples Taken:

of adult tail tips: 0

mortalities: 0

of larvae: 0

of larvae tail tips: 0

roadkills: 0

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: ☒ Yes ☐ No Photo #: 2184-2218

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)



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.

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 MNR 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 Ratajczyk Adam McClelland

Affiliation: AECOM

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: P084a Pond ID: 27

Property Address: Calfass Rd, Puslinch 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)

Land Ownership: ☐ Public ☐ Private ☒ Both

LANDOWNER INFORMATION:

Name: MTO Property Section

Mailing Address: _____

Jefferson Salamander
Presence/Absence Reporting Form



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

SAMPLING INFORMATION:

Date(s) of sampling: 07/04/2019 0810412019 (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, 4 minnow traps

of salamanders observed: 0

Number of Samples Taken:

of adult tail tips: 0
of larvae tail tips: 0

mortalities: 0
roadkills: 0

of larvae: 0

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: ☒ Yes ☐ No Photo #: 8230-8236, 2324-2344

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)



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.

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 MNR 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

Pond 28

CONTACT INFORMATION:

Name of observer(s): James Kamstra Edyta Ratajczyk

Affiliation: AECOM

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 Pond ID: 28

Property Address: 7337 Calfoss Rd. Puslinch on 7PT lots 31 and 32

UTM Coordinates (NAD83): 57023 E 4809985 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 Townsend McKinnon

Mailing Address: _____

Jefferson Salamander
Presence/Absence Reporting Form



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

SAMPLING INFORMATION:

Date(s) of sampling: 29/09/2019 (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 minnow traps

of salamanders observed: 0 Zero

Number of Samples Taken:

of adult tail tips: 0

mortalities: 0

of larvae: 0

of larvae tail tips: 0

roadkills: 0

HABITAT INFORMATION:

Average Pond Depth (m): ~1-2m

Pond Description: Pond surrounded

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: ☒ Yes ☐ No Photo #: 1979 - 1984

SECTION B – TO BE FILLED OUT BY DR. BOGART

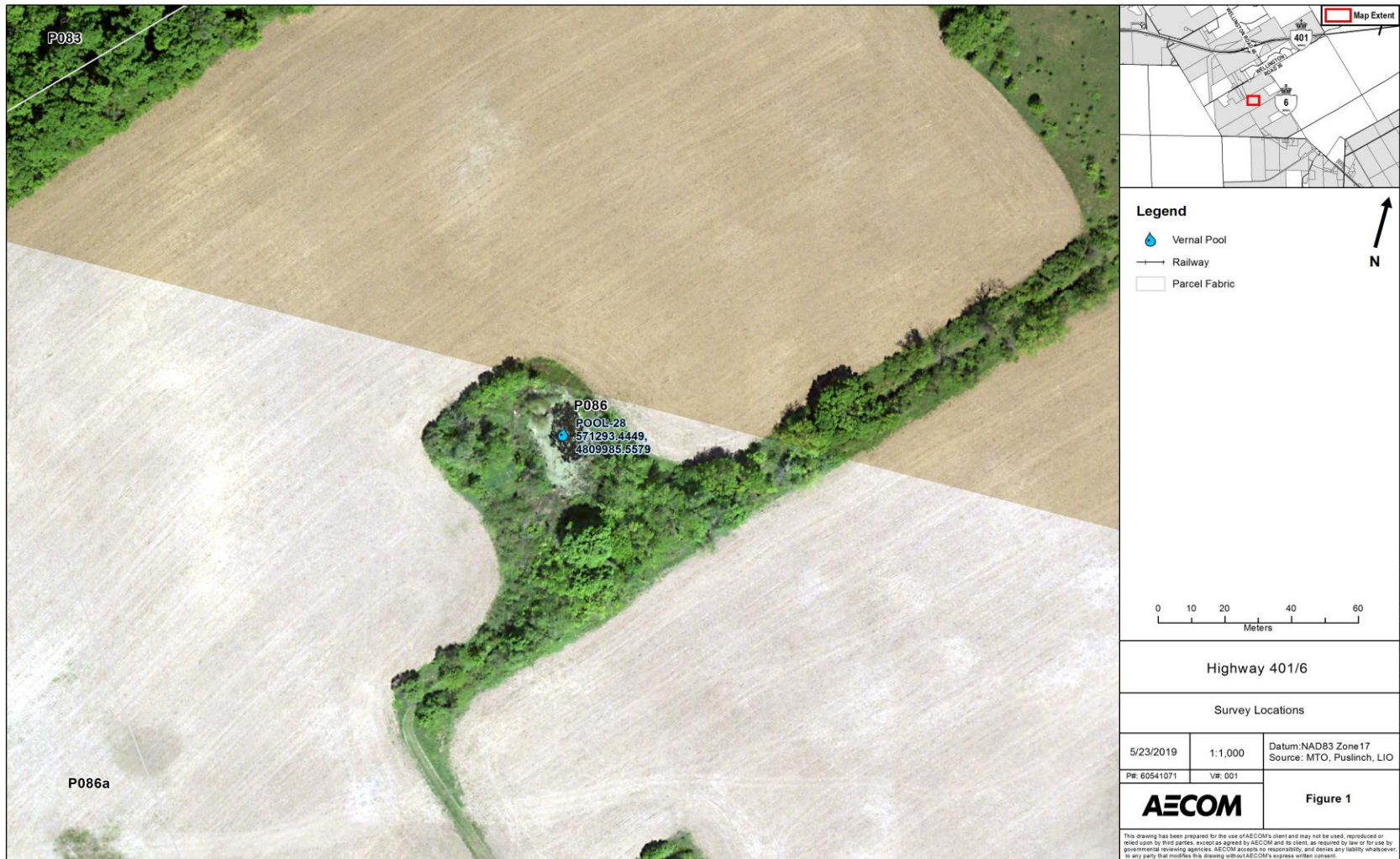
Date samples received: _____ (dd/mm/yyyy)

Condition of samples received: _____

JPB #(s): _____



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



**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.

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:

AECOM

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 Pond ID: 28

Property Address: 7337 Calfess Rd. Puslinch ON

UTM Coordinates (NAD83): 57223 E 480985 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 Townsend McKinnon

Mailing Address: _____

**Jefferson Salamander
Presence/Absence Reporting Form**



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

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.):

12.0 hours 3 minnow traps

of salamanders observed: 0 zero

Number of Samples Taken:

of adult tail tips: 0

mortalities: 0

of larvae: 0

of larvae tail tips: 0

roadkills: 0

HABITAT INFORMATION:

Average Pond Depth (m): ~1-2m

Pond Description: Pond surrounded by small tree rowland agricultural field.

Terrestrial Vegetation Community Type: 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 #: 1980-2032

SECTION B – TO BE FILLED OUT BY DR. BOGART

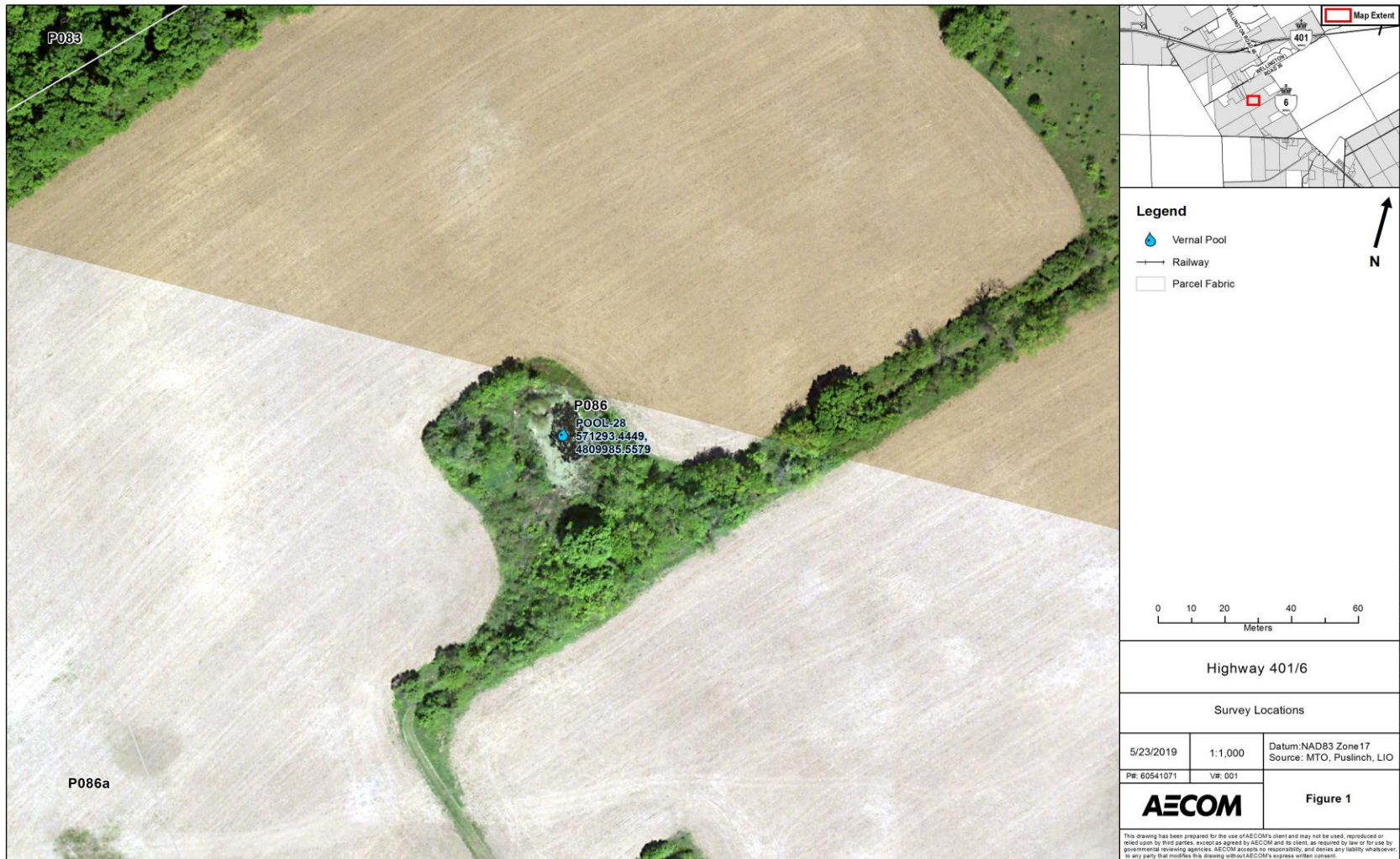
Date samples received: _____ (dd/mm/yyyy)

Condition of samples received: _____

JPB #(s): _____



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



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.

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): E Ratajczyk, Olga Hropach

Affiliation: AECOM

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: P086 Pond ID: 28

Property Address: 7337 Calfax Rd Puslinch ON

UTM Coordinates (NAD83): 57293 E 4809989 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 Townsend McKinnon

Mailing Address:



Date(s) of sampling: 06/04/2019 - 05/04/2019 (dd/mm/yyyy)

Minnow Trap

Incidental

Visual Observation

11.5 hours, 3 minnow Traps

of larvae:

roadkills:

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: ☒ Yes ☐ No Photo #: 2271-2287

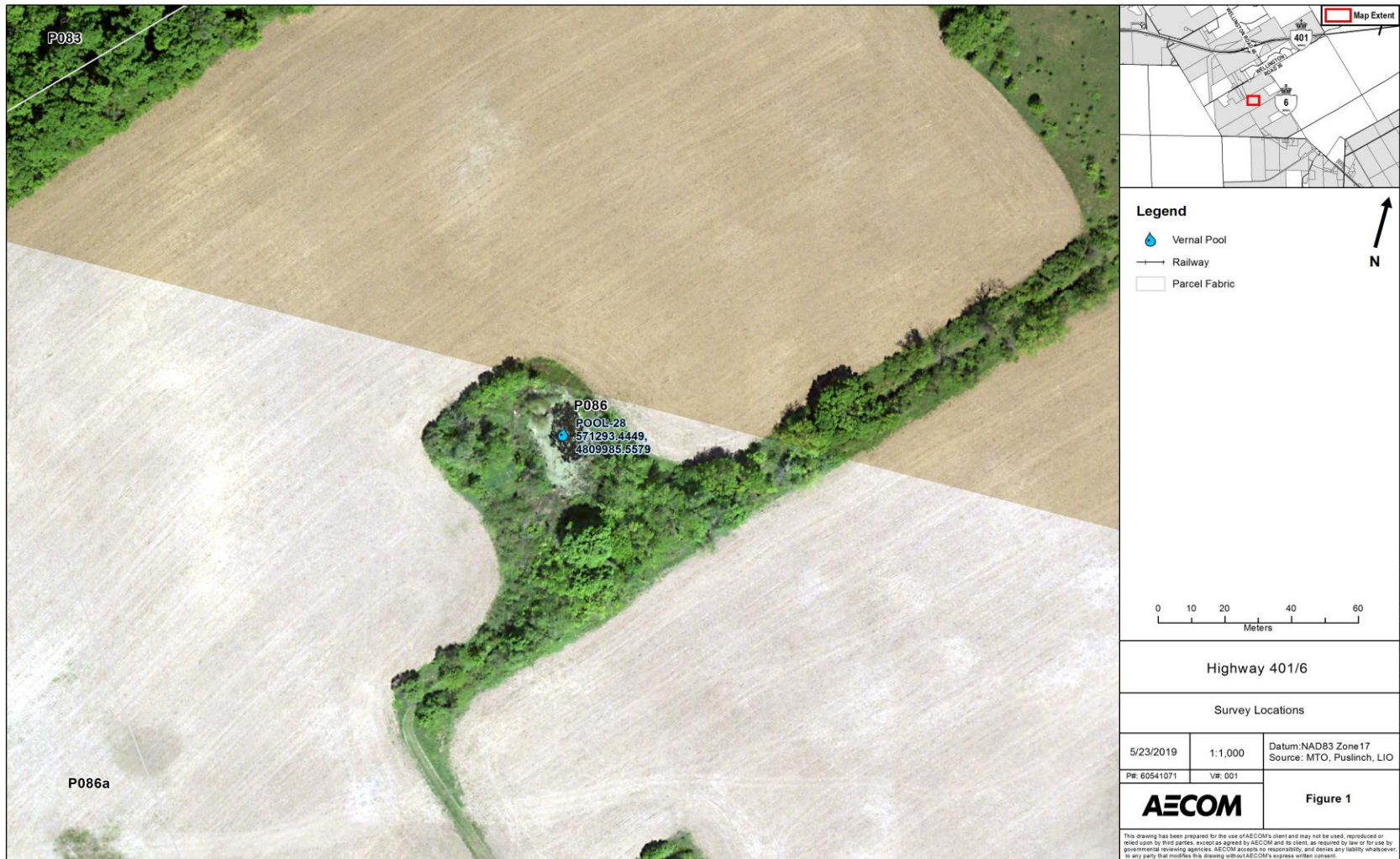
Date samples received: _____ (dd/mm/yyyy)

Condition of samples received: _____

JPB #(s): _____



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



Jefferson Salamander
Presence/Absence Reporting Form



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):
 - 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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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 Patajczyk, Adam McClelland

Affiliation: AECOM

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: P086 Pond ID: 28

Property Address: 7337 Calfass Rd Puslinch ON

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)

Land Ownership: ☐ Public ☒ Private ☐ Both

LANDOWNER INFORMATION:

Name: Nina Townsend McKinney

Mailing Address: _____

Jefferson Salamander
Presence/Absence Reporting Form



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

SAMPLING INFORMATION:

Date(s) of sampling: 07/04/2019 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.):

12 hours, 3 traps

of salamanders observed: 0

Number of Samples Taken:

of adult tail tips: 0

mortalities: 0

of larvae: 0

of larvae tail tips: 0

roadkills: 0

HABITAT INFORMATION:

Average Pond Depth (m): _____

Pond Description: previously completed

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: _____

☒ Yes

☐ No

Photo #: 2271-2287

SECTION B – TO BE FILLED OUT BY DR. BOGART

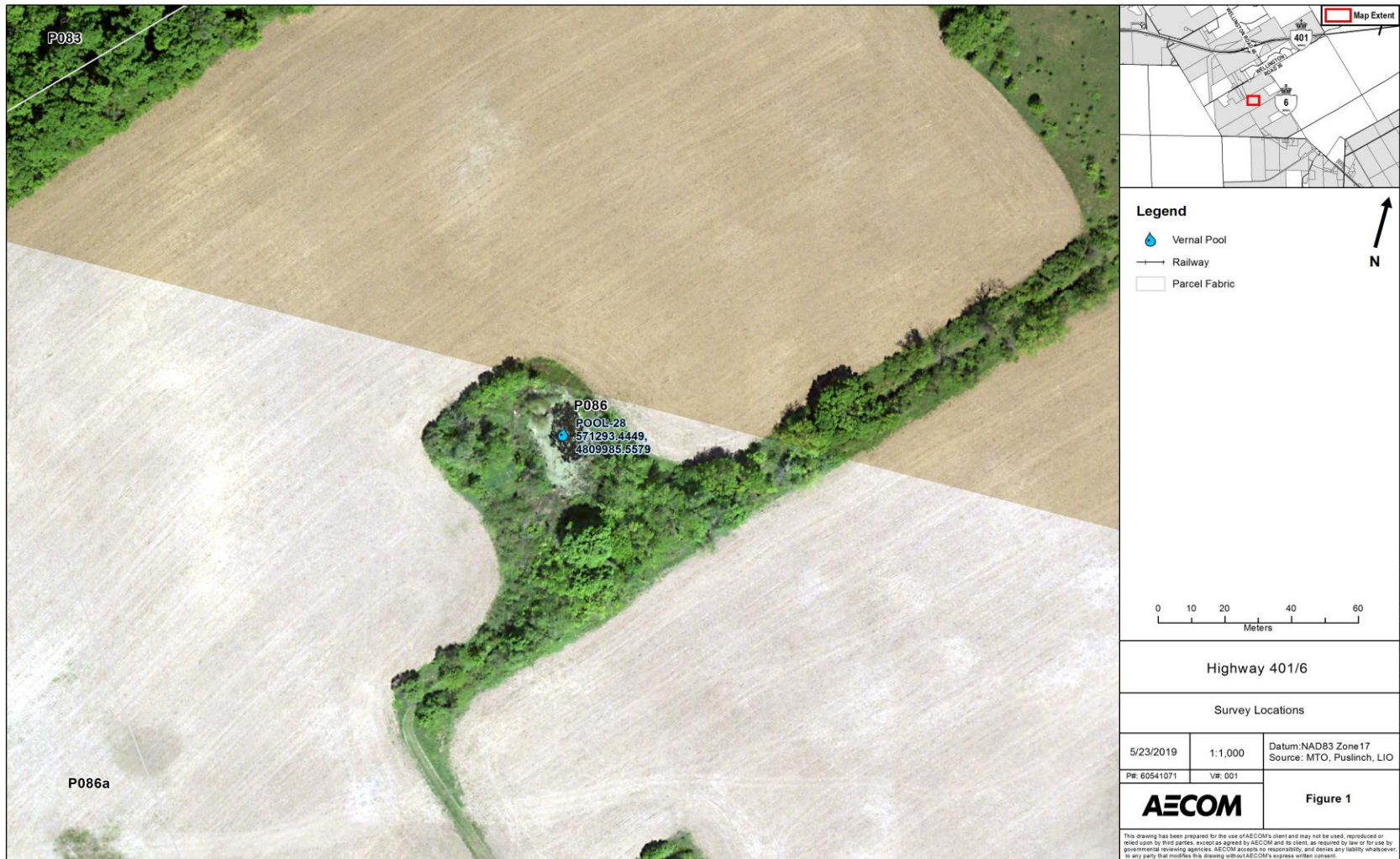
Date samples received: _____ (dd/mm/yyyy)

Condition of samples received: _____

JPB #(s): _____



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



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.
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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): Julie Ellis / 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: P086 Pond ID: P08-20

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

LANDOWNER INFORMATION:

Name: Nina McKinnon-Townsend, Gordon McKinnon

Mailing Address: _____

**Jefferson Salamander
Presence/Absence Reporting Form**



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

SAMPLING INFORMATION:

Date(s) of sampling: 2019-01-12-13 (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.):

14 traps x 12 hrs

of salamanders observed: 0

Number of Samples Taken:

of adult tail tips: 0

mortalities: 0

of larvae: 0

of larvae tail tips: 0

roadkills: 0

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:

☒ Yes

☐ No

Photo #: 190044-190623

SECTION B – TO BE FILLED OUT BY DR. BOGART

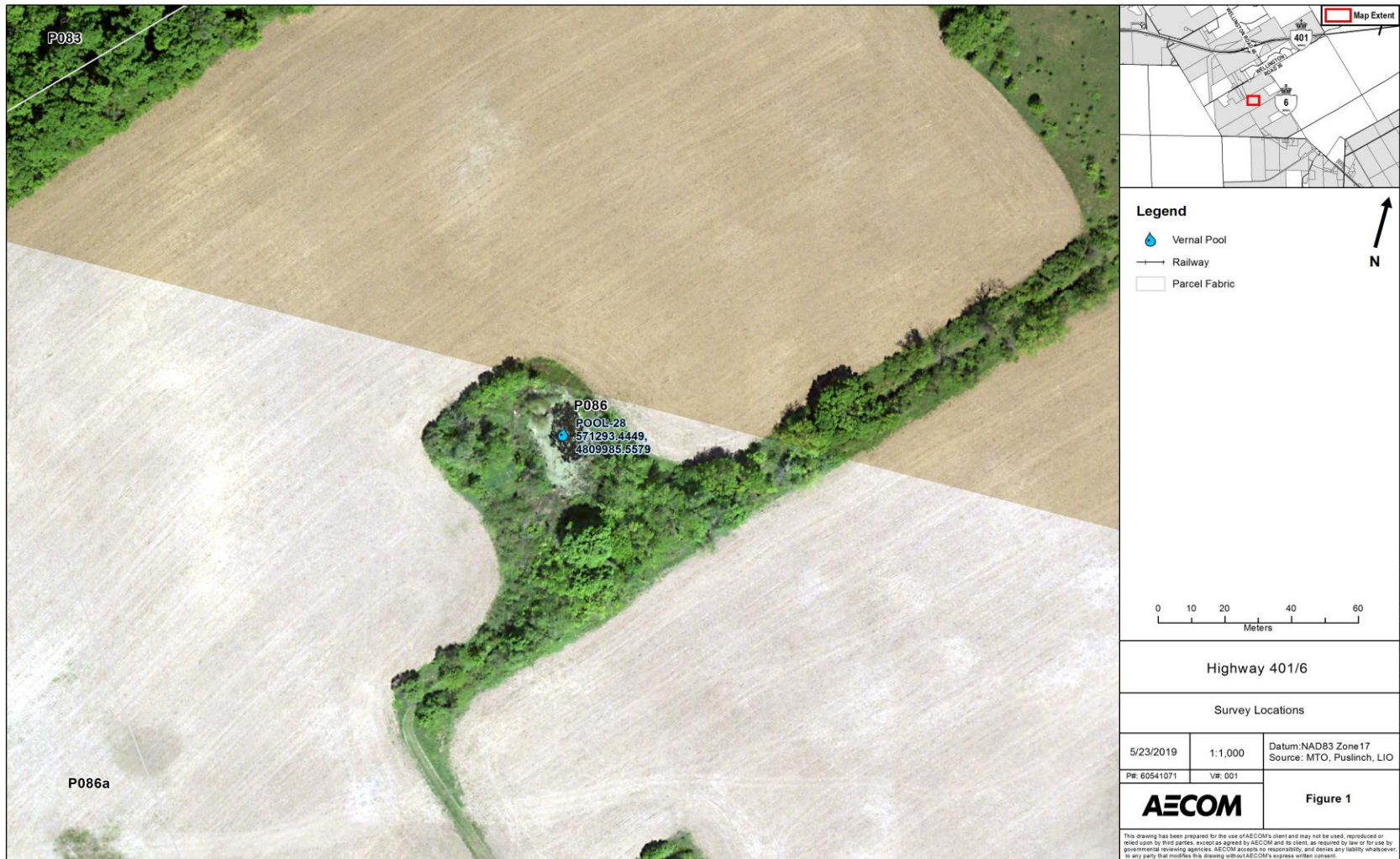
Date samples received: _____ (dd/mm/yyyy)

Condition of samples received: _____

JPB #(s): _____



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



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.
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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.

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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, Adam McClelland

Affiliation:

AECOM

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: P088

Pond ID: 29

Property Address: _____

UTM Coordinates (NAD83): -80.119185 E 43.433462 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 Townsend-McKinnon, Alexa McKinnon

Mailing Address _____

A dark, elongated, caterpillar-like creature with a row of white spikes along its back and two small, dark legs at the bottom. It is positioned horizontally across the page.

Date(s) of sampling: March 14 2019 (dd/mm/yyyy)

Minnow Trap

Incidental

Visual Observation

2 traps; ice too thick to place a third in suitable location

of salamanders observed: ~~0~~

of larvae:

of larvae tail tips: _____

roadkills:

Average Pond Depth (m): 0.5 - 1 m

Pond Description: isolated pond in forest / thicket depression. Branches hanging
over pond

Terrestrial Vegetation Community Type: FOD/CUT.MAM

Other amphibians observed or heard: none

Egg Attachment Sites Present:

☒ Yes ☐ No ☐ Unknown

Suitable Hydroperiod for Breeding:

☒ Yes ☐ No ☐ Unknown

Photos Taken:

☒ Yes ☐ No Photo #: 6458-6461, 6463

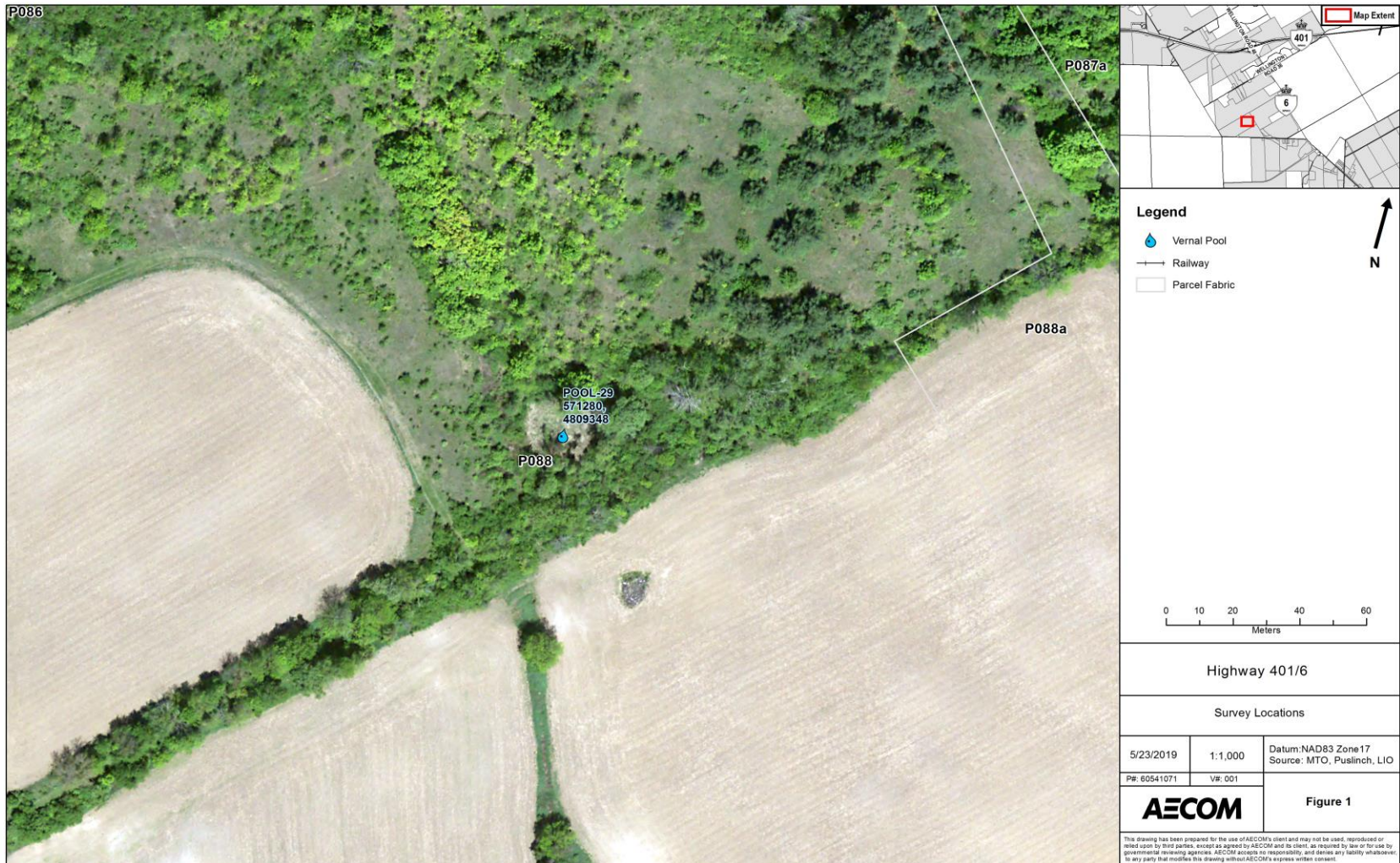
Date samples received: _____ (dd/mm/yyyy)

Condition of samples received: _____

JPB #(s): _____



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



Jefferson Salamander
Presence/Absence Reporting Form



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):
 - 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.
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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, Adam McGlelland

Affiliation: AECOM

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: P 88 Pond ID: 29

Property Address: P 88

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

Mailing Address: _____

Jefferson Salamander
Presence/Absence Reporting Form



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

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: 0

Number of Samples Taken:

of adult tail tips: _____ # mortalities: _____ # of larvae: _____

of larvae tail tips: _____ # roadkills: _____

HABITAT INFORMATION:

Average Pond Depth (m): 0.7m

Pond Description: pond at bottom of low-lying area ~~but~~ in forest / thicket adjacent to agricultural field. Pond surrounded by slope on all sides. Water level decreased since traps were deployed.

Terrestrial Vegetation Community Type: FOI / CUT

Other amphibians observed or heard: _____

Egg Attachment Sites Present: ☒ Yes ☐ No ☐ Unknown

Suitable Hydroperiod for Breeding: ☒ Yes ☐ No ☐ Unknown

Photos Taken: ☒ Yes ☐ No Photo #: 6592, 6593, 6594, 6588, 6589, 6597 - 6602

SECTION B – TO BE FILLED OUT BY DR. BOGART

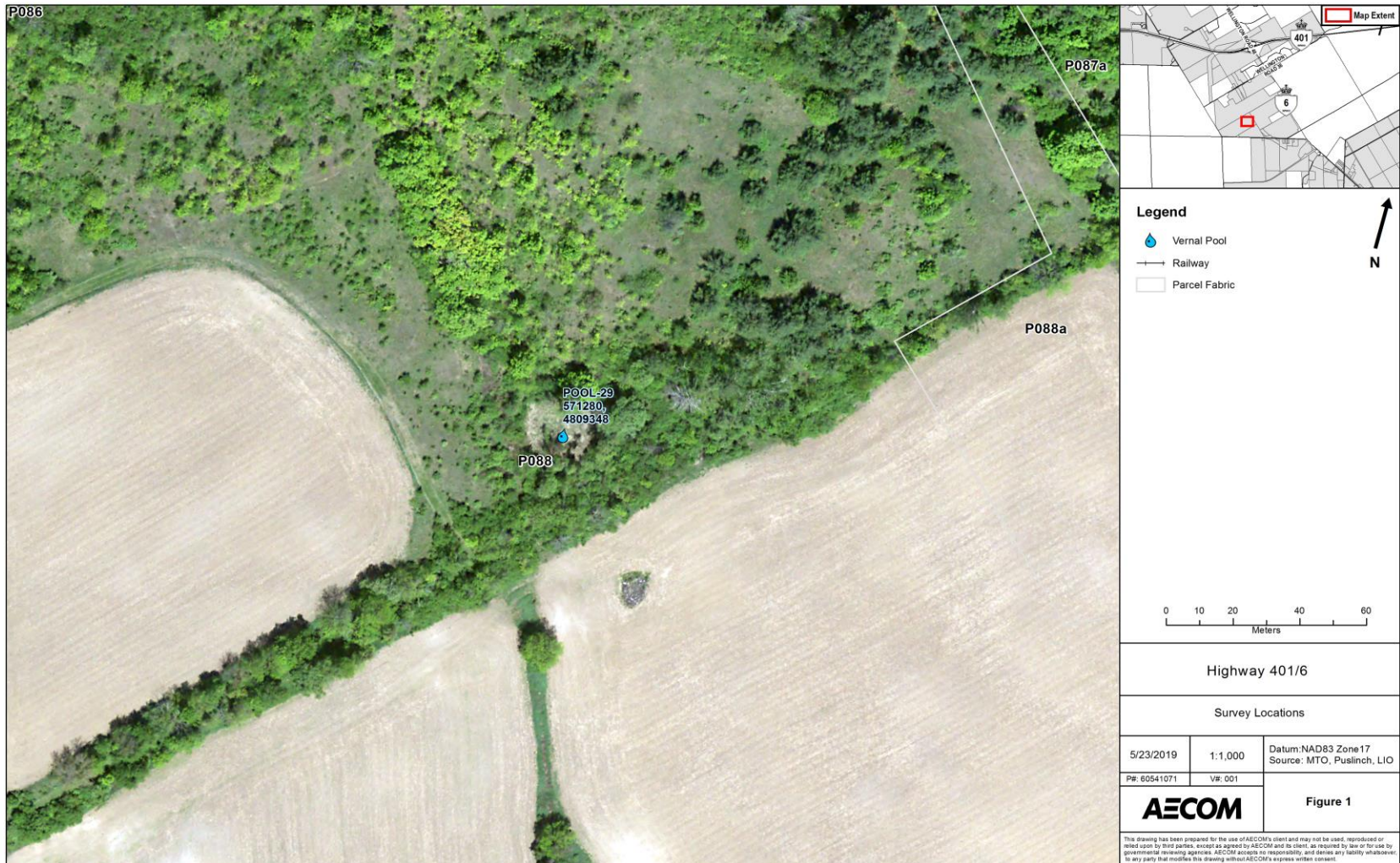
Date samples received: _____ (dd/mm/yyyy)

Condition of samples received: _____

JPB #(s): _____



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



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.
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- Pond nomenclature must be consistent for all maps and reports.
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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): Kasey McKenzie + Nataliya Simonova

Affiliation: AECOM

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: P090 Pond ID: P090-30

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)

Land Ownership: ☐ Public ☒ Private ☐ Both

LANDOWNER INFORMATION:

Name: _____

Mailing Address: _____

Jefferson Salamander
Presence/Absence Reporting Form



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

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: 0

Number of Samples Taken:

of adult tail tips: 0

mortalities: /

of larvae: /

of larvae tail tips: 0

roadkills: /

HABITAT INFORMATION:

Average Pond Depth (m):

Pond Description: open pond w reed canopy fringes, & cattail marsh @ one end, surrounded by mixed forest

Terrestrial Vegetation Community Type:

Other amphibians observed or heard: N/A

Egg Attachment Sites Present: ☒ Yes ☐ No ☐ Unknown

Suitable Hydroperiod for Breeding: ☒ Yes ☐ No ☐ Unknown

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)



Jefferson Salamander
Presence/Absence Reporting Form



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): Kasey McKenzie & Nataliya Smenova

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: P090 Pond ID: POOL-30

Property Address: _____

UTM Coordinates (NAD83): 571741 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:

Name: _____

Mailing Address: _____

Jefferson Salamander
Presence/Absence Reporting Form



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

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.):

12 hours, 4 traps

of salamanders observed: 0

Number of Samples Taken:

of adult tail tips: 0

mortalities: 0

of larvae: 0

of larvae tail tips: 0

roadkills: 0

HABITAT INFORMATION:

Average Pond Depth (m): _____

Pond Description: _____

Terrestrial Vegetation Community Type: _____

Other amphibians observed or heard: N/A

Egg Attachment Sites Present: ☒ Yes ☐ No ☐ Unknown

Suitable Hydroperiod for Breeding: ☒ Yes ☐ No ☐ Unknown

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)



Jefferson Salamander
Presence/Absence Reporting Form



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): Kosy McLenzie & Nataliya Smanova

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: POOL-30

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: _____

Mailing Address: _____

Date(s) of sampling: 06/04/2019 (dd/mm/yyyy)

Minnow Trap

Incidental

Tail Tip

Visual Observation

4 traps, 12 hours

of adult tail tips: 0

mortalities: 0

of larvae: 6

of larvae tail tips: 0

roadkills: 0

Average Pond Depth (m): 7.1 m

Pond Description: Previous form

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:

☒ Yes☐ No

Photo #: 6757-6764, 6776-678

Date samples received: _____ (dd/mm/yyyy)

Condition of samples received: _____

JPB #(s):



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



Jefferson Salamander
Presence/Absence Reporting Form



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): Nataliya Simonova, Adam McClelland

Affiliation: AECOM

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: Pogo Pond ID: 30

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)

Land Ownership: ☐ Public ☒ Private ☐ Both

LANDOWNER INFORMATION:

Name: _____

Mailing Address: _____

Jefferson Salamander
Presence/Absence Reporting Form



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

SAMPLING INFORMATION:

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.):

6 traps 12 hours

of salamanders observed: 0

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 m

Pond Description: see previous form

Terrestrial Vegetation Community Type: MAS/DAO

Other amphibians observed or heard: Spring Peeper (Pseudacris crucifer)

Egg Attachment Sites Present: ☒ Yes ☐ No ☐ Unknown

Suitable Hydroperiod for Breeding: ☒ Yes ☐ No ☐ Unknown

Photos Taken: ☒ Yes ☐ No Photo #: 6838-6853, 6873-6880

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)



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.

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 Aropach

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: P090 Pond ID: 30

Property Address: _____

UTM Coordinates (NAD83): 571732 E 4809065 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: _____

Mailing Address: _____

Jefferson Salamander
Presence/Absence Reporting Form



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

SAMPLING INFORMATION:

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.):

6 traps by 12 hours

of salamanders observed: 0

Number of Samples Taken:

of adult tail tips: 0

mortalities: 0

of larvae: 0

of larvae tail tips: 0

roadkills: 0

HABITAT INFORMATION:

Average Pond Depth (m): 21m

Pond Description:

Previously completed

Terrestrial Vegetation Community Type:

Other amphibians observed or heard: Spring Peeper, Wood frog, Green frog

Egg Attachment Sites Present:

☒ Yes

☐ No

☐ Unknown

Suitable Hydroperiod for Breeding:

☒ Yes

☐ No

☐ Unknown

Photos Taken:

☒ Yes

☐ No

Photo #: 0523-0543; 6902-6908

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)



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.

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. Minicelly A. McClelland

Affiliation: AECOM

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: P104a Pond ID: 32

Property Address: P104a

UTM Coordinates (NAD83): 572983 E 4808707 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) c/o Property Sector

Mailing Address: N/A

Jefferson Salamander
Presence/Absence Reporting Form



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

SAMPLING INFORMATION:

Date(s) of sampling: 15/03/2019 (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 traps set for 1 1/2 hours.

of salamanders observed: 0 zero

Number of Samples Taken:

of adult tail tips: 0

mortalities: 0

of larvae: 0

of larvae tail tips: 0

roadkills: 0

HABITAT INFORMATION:

Average Pond Depth (m): _____

Pond Description: Pond approx. 60% open water and 40% cattail marsh.

Pond surrounded by cedar forest to south and gravel parking lot to N

Terrestrial Vegetation Community Type: PoCH-1 to south / Cum to north

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 #: 182050, 182409, 182428

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)



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.

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, Adam McClelland

Affiliation: AECOM

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: P104a Pond ID: 32

Property Address: P104a

UTM Coordinates (NAD83): 572979 E 4808719 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) / Property Sector

Mailing Address: N/A

Jefferson Salamander
Presence/Absence Reporting Form



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

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: 0

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: ☒ Yes ☐ No ☐ Unknown

Photos Taken: ☒ Yes ☐ No Photo #: 6579-6583

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)



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.

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): Kasey McKenzie & Nataliya Smanara

Affiliation: AECOM

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: 104a Pond ID: POOL-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:

Name: _____

Mailing Address: _____

Jefferson Salamander
Presence/Absence Reporting Form



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

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: 0

Number of Samples Taken:

of adult tail tips: 0

mortalities: 0

of larvae: 0

of larvae tail tips: 0

roadkills: 0

HABITAT INFORMATION:

Average Pond Depth (m): _____

Pond Description: _____

Terrestrial Vegetation Community Type: _____

Other amphibians observed or heard: NIA

Egg Attachment Sites Present: ☒ Yes ☐ No ☐ Unknown

Suitable Hydroperiod for Breeding: ☒ Yes ☐ No ☐ Unknown

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)



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.

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 Minielly Nathan De Carlo

Affiliation: AECOM

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: P104a Pond ID: Pool-32

Property Address: P104a

UTM Coordinates (NAD83): 572883 E 4808767 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) C/o Property Sector

Mailing Address: _____

Jefferson Salamander
Presence/Absence Reporting Form



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

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: 0

of larvae: 0

of larvae tail tips: 0

roadkills: 0

HABITAT INFORMATION:

Average Pond Depth (m): ~1 to 2m

Pond Description: Pond approx 60% open water and 40% cattail marsh. 10% of Pond still covered in ice.

Terrestrial Vegetation Community Type: F44-1 to S, CUMH to N, SW2 to E, Age to W

Other amphibians observed or heard: 10 Eastern Newts captured in traps. Spring peepers calling

Egg Attachment Sites Present: ☒ Yes ☐ No ☐ Unknown

Suitable Hydroperiod for Breeding: ☒ Yes ☐ No ☐ Unknown

Photos Taken: ☒ Yes ☐ No Photo #: 063128 to 075140

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)



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

Date: July 7, 2020

Project #: 60541071

From: Kristan Washburn (AECOM)
Andrew Minielly (AECOM)
Julie Ellis (AECOM)

cc: 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

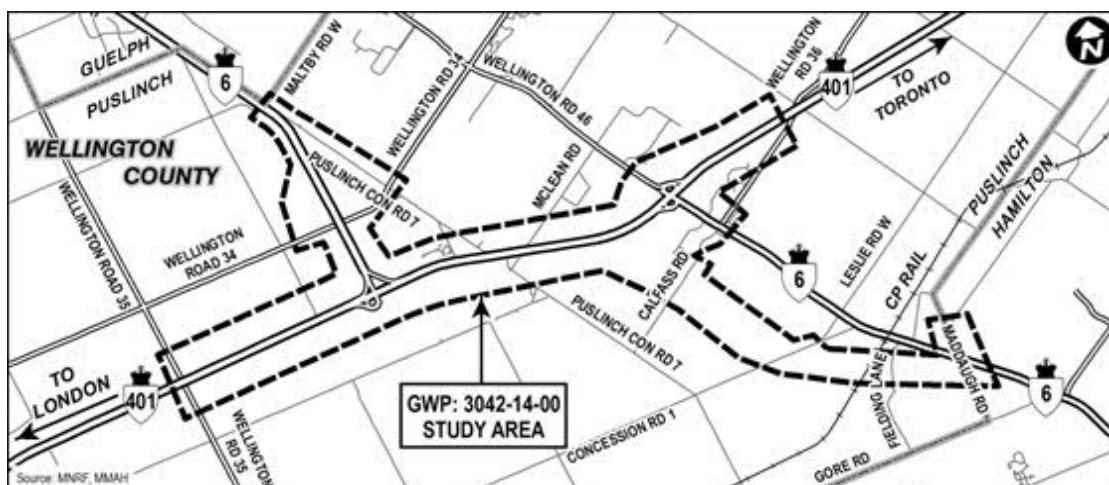
Memorandum

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 Status	Date Traps Set	Date Traps Removed	Number of Traps Set	Number of Tail Clippings Collected	Lab Results	Notes
POOL-11	COMPLETE	12/03/2020	13/03/2020	5	1	Blue Spotted Salamanders (<i>Ambystoma laterale</i>) and Blue-spotted Salamander dependant unisexual (<i>Ambystoma laterale – jeffersonianum</i>).	1 potential JESA tail clipping sample lost
		18/03/2020	19/03/2020	5	0		
		28/03/2020	29/03/2020	6	12		
		29/03/2020	30/03/2020	6	8		
		03/12/2020	13/3/2020	4	0		
POOL-12	COMPLETE	18/03/2020	19/03/2020	4	0	Blue Spotted Salamanders (<i>Ambystoma laterale</i>) and Blue-spotted Salamander dependant unisexual (<i>Ambystoma laterale – jeffersonianum</i>).	2 potential JESA not clipped as it had previously been clipped
		28/03/2020	29/03/2020	8	9		
		29/03/2020	30/03/2020	8	3		
		07/04/2020	08/04/2020	8	3		
		12/03/2020	13/03/2020	6	0	Blue-spotted Salamander dependant unisexual (<i>Ambystoma laterale – jeffersonianum</i>).	
POOL-15	COMPLETE	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 – jeffersonianum</i>).	1 Green Frog (adult) captured and released unharmed 30/03/2020 - wood frog captured and released
		18/03/2020	19/03/2020	6	0		
		28/03/2020	29/03/2020	6	1		
		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 – jeffersonianum</i>).	1 red eft in trap, 1 spring peeper in trap 1 salamander (round 5) had a piece of tail missing from predator
		18/03/2020	19/03/2020	5	0		
		19/03/2020	20/03/202	6	0		
		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 – 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		
POOL-27	COMPLETE	04/07/2020	04/08/2020	4	0	Blue Spotted Salamanders (<i>Ambystoma laterale</i>) and Blue-spotted Salamander dependant unisexual (<i>Ambystoma laterale – jeffersonianum</i>).	Captured salamander was clipped last year. Therefore, no clipping was taken. A salamander was lethargic, placed under wet leaves close to the pond, 24 hours later, was not longer under leaves. Assumed returned to the pond.
		03/12/2020	13/3/2020	4	0		
		19/03/2020	20/03/2020	4	0		
		28/03/2020	29/03/2020	4	1		
		29/03/2020	30/03/2020	4	0		
POOL-28	COMPLETE	04/07/2020	04/08/2020	4	0	Blue Spotted Salamanders (<i>Ambystoma laterale</i>) and Blue-spotted Salamander dependant unisexual (<i>Ambystoma laterale – jeffersonianum</i>).	
		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		
POOL-32	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 – jeffersonianum</i>).	1 Newt captured and released unharmed 29/03/2020 - chorus of spring peepers and a few wood frogs 30/03/2020 - 2 salamanders released with tail clipped last year; 18 newts throughout traps
		18/03/2020	19/03/2020	6	0		
		19/03/2020	20/03/2020	6	0		
		29/03/2020	30/03/2020	6	20		
				Total Salamanders:	96		

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

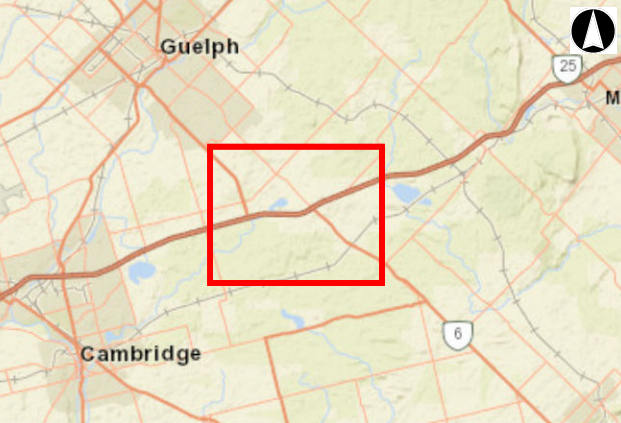
Attachments

- Attachment A: Figure 1**
- Attachment B: Photographic Log**
- Attachment C: Field Notes**

Attachment **A**

Figure 1





Legend

- 2020 Vernal Pool Sampling Locations
- Railway
- Hwy401-6 Limits Of Work
- 300 m Buffer for Potential Terrestrial Habitat
- 1km Buffer for Potential Breeding Movement Corridors
- Parcel Fabric
- Buffer - 200m from MTO ROW

0 1 2
Kilometers

Highway 401/6

**Jefferson Salamander
Sampling Locations 2020**

Jun 24, 2020	1:34,000 <small>* when printed 11"x17"</small>	Datum: NAD 1983 UTM Zone 17N Source: MNRF, MMAH, AECOM, Wellington County Image: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan,
P#: 60541071	V#: 001	Figure 1

AECOM

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Data Saved: 02/24/2020 1:22:56 PM User Name: Amelia Volmer

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

Jefferson Salamander
Presence/Absence Reporting Form



Wildlife Scientific Collector's Authorization # 1095107
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 Aberdein + Johanna Peitz

Affiliation: AECOM

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: Pool-11

Property Address: 9060

UTM Coordinates (NAD83): 45.44803 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)

Land Ownership: ☒ Public ☐ Private ☐ Both

LANDOWNER INFORMATION:

Name: MTO Property Section

Mailing Address: _____

Jefferson Salamander
Presence/Absence Reporting Form



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

SAMPLING INFORMATION:

Date(s) of sampling: 12/07/2020 - 13/03/2020 (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 x 5 traps deployed @ 8:00pm on March 12, 2020 retrieved @ 8:00am
on March 13, 2020

of salamanders observed: 1

Number of Samples Taken:

of adult tail tips: 1

mortalities: 0

of larvae: 0

of larvae tail tips: 0

roadkills: 0

HABITAT INFORMATION:

Average Pond Depth (m): 0.25

Pond Description: open margins on eastern edge of pool; shrubs +
woody debris at deployment sites.

Terrestrial Vegetation Community Type: FODS-1

Other amphibians observed or heard: None

Egg Attachment Sites Present: ☒ Yes ☐ No ☐ Unknown

Suitable Hydroperiod for Breeding: ☒ Yes ☐ No ☐ Unknown

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)

