



State of Alaska  
Department of Fish and Game  
Sportfish Division

Nomination Form  
Anadromous Waters Catalog

Region SOUTHEASTERN

USGS Quad(s) PETERSBURG D-5, D-6

Anadromous Waters Catalog Number of Water Body 109-42-10100 -(-2014)

Name of Water Body Hamilton Creek

☒ USGS Name ☐ Local Name

☐ Addition

☐ Deletion

☒ Correction

☒ Backup Information

For Office Use

Nomination # 24-719  
Revision Year: 2025  
Revision to: ☒ Atlas  
☒ Catalog  
Revision Code: C-9, F-3

Adam Rem 10-2-2024  
Fisheries Scientist Date  
Ron Benhart 9/9/2024  
Habitat Operations Manager Date  
Josephine 5 Sept 2024  
AWC Project Biologist Date  
P. C. 10/4/2024  
GIS Analyst Date

OBSERVATION INFORMATION

Species	Date(s) Observed	Spawning	Rearing	Present	Anadromous
lamprey, undifferentiated	06/13/2023		✓	✓	
cutthroat trout	06/13/2023		✓	✓	
Dolly Varden	06/13/2023		✓	✓	

**~UPDATE/ADJUST lower hydrography segment and stream mouth point of existing AWC Stream #109-42-10100 "Hamilton Creek".**

**Comments:**

Add this uncataloged stream to the anadromous waters catalog for undifferentiated lamprey.  
Coordinates (Lat,Long): Upper(56.858180,-133.59136) Lower(56.863413,-133.585809)

*\*Consultation with biologists familiar with Lamprey in Alaskan waters (see enclosed email) determined the species documented is most likely a Western Brook Trout lamprey, which is not an anadromous species of Lamprey.*

Name of Observer (please print):

Claire Delbecq

Signature:

10.231.39.10 (Web Nomination)

Date: 03/14/2024

Agency:

Address:

PO Box 110024

Juneau, AK 99824

This certifies that in my best professional judgment and belief the above information is evidence that this waterbody should be included in or deleted from the Anadromous Waters Catalog.

Signature of Area Biologist:

Date:

Revision 3/16

Name of Area Biologist (please print):

# Alaska Department of Fish and Game

Habitat Section  
Southeast Region



## 109-42-10100-2014 Tributary 1

## ADDITION

**Water body name:**

**Survey date:** 6/13/2023

**Quad:** Petersburg D-4

**Species & Lifestage:**

**Upper Reach Latitude:** 56.858180 **Longitude:** -133.591360

**Survey crew:** CD, FC

**Lower Reach Latitude:** 56.863413 **Longitude:** -133.585809

**Findings:** We surveyed this uncataloged stream using a baited minnow trap, backpack electrofisher and GPS and captured juvenile lamprey, cutthroat trout, and Dolly Varden (Figure 1). Stream channel runs through a large beaver pond complex, is low gradient, and has reaches of running water with gravel and ponded water (Table 1; Figures 2, 3).

**Recommendations:** Add this uncataloged stream to the anadromous waters catalog for undifferentiated lamprey (Figure 4).

**Nomination:** Pending

Table 1.—109-42-10100-2014 tributary 1 survey data.

Waypoint	Latitude	Longitude	Notes	Stream Width ft	Stream Substrate	Habitat Features	Gradient %	Sample Effort	Sample Results
250	56.857175	-133.593554	Minnow trap soaked 3.5 hrs about 75' downstream of beaver dam. Dam ponds water just downstream of 4' CSP. Boulder cascade just upstream of pipe; gradient increases upstream.	8-10	Large Gravel Small Gravel	Beaver Pond LWD	2-4	MT	4 CT
291	56.857169	-133.593414	Surveying in Beaver pond complex.	50+	Large Gravel	Beaver Pond	2-4		1 Trout 1 DV
292	56.858192	-133.591399	Flowing thin portion of BPC. Lamprey x2! Captured 2 but lost one before photo. Also trout and DV.		Small Gravel Large Gravel	Beaver Pond	1-2		Other
293	56.859743	-133.591344	Ending survey beaver pond complex continues		Fine Organic				





Figure 1.—Lamprey captured at waypoint 292.



Figure 2.—Channel at waypoint 292.



Figure 3.—Channel at waypoint 293.



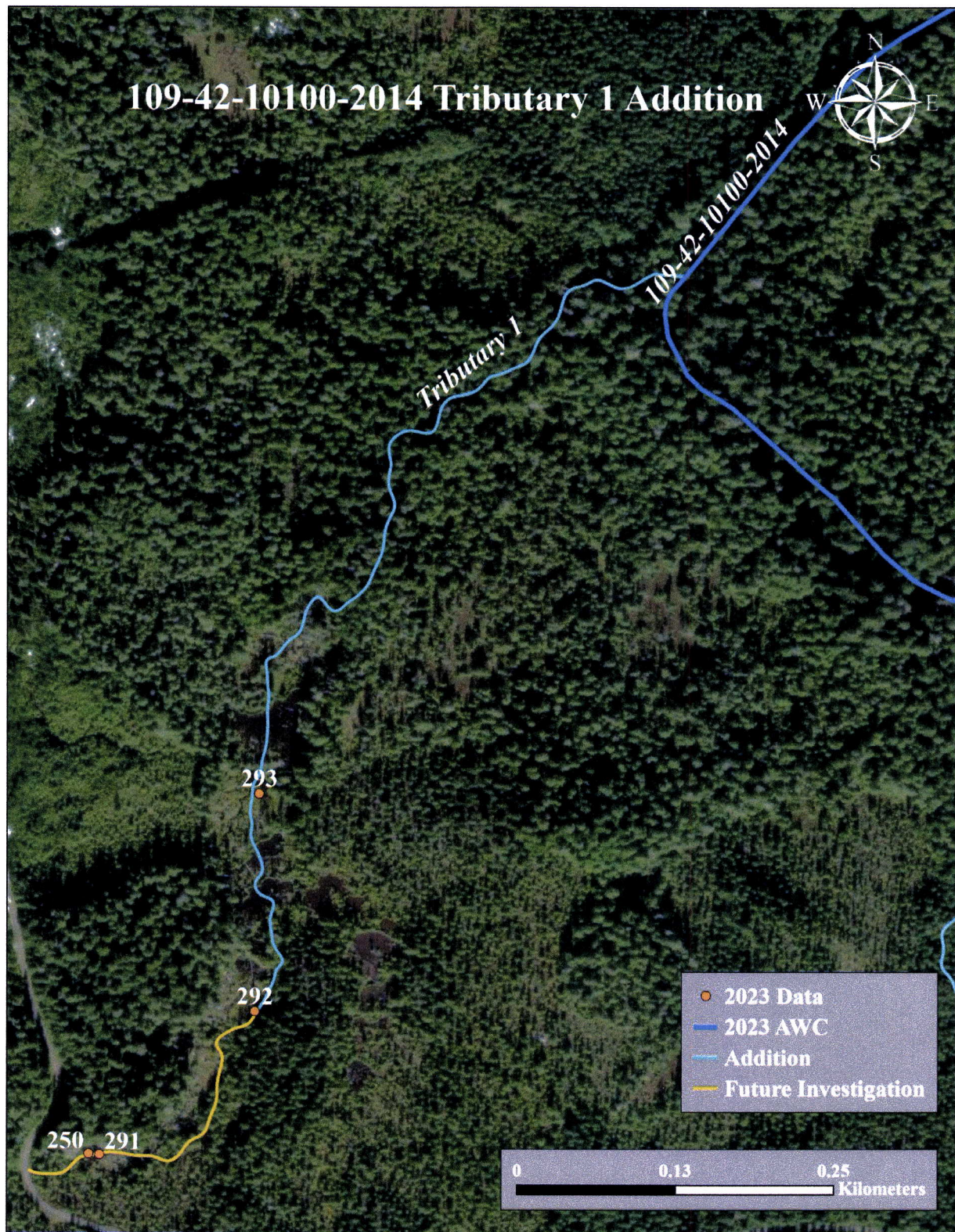


Figure 4.—109-42-10100-2014 tributary 1 addition map.



**From:** [Giefer, Joe \(DFG\)](#)  
**To:** [Delbecq, Claire E \(DFG\)](#)  
**Cc:** [Casey, Flynn F \(DFG\)](#); [Krull, Dylan P \(DFG\)](#)  
**Subject:** fyi: Nom #24-719 - FW Email: Lamprey ID  
**Date:** Friday, August 16, 2024 1:49:00 PM  
**Attachments:** [image.png](#)  
[24-719-109-42-10100-2014 Tributray 1.pdf](#)

---

Hey all,

Thought you might be interested in this. I solicited some opinions about ID'ing the lamprey species you caught in the Hamilton River drainage. See below.

Regards,

*Joe Giefer*

Habitat Biologist III

**Anadromous Waters Catalog (AWC)**

Alaska Dept. of Fish & Game

Division of Sport Fish — RTS

333 Raspberry Road, Anchorage AK 99518

Office 907-267-2336

*Submit AWC Nominations electronically through the Online Portal here:*

<https://www.adfg.alaska.gov/sf/SAR/AWC/index.cfm?ADFG=nomSubmit.home>

**From:** Trent Sutton <tmsutton@alaska.edu>

**Sent:** Friday, August 16, 2024 12:05 PM

**To:** Ralph Lampman <lamr@yakamafish-nsn.gov>

**Cc:** Cathcart, Charles N (DFG) <nate.cathcart@alaska.gov>; Giefer, Joe (DFG) <joe.giefer@alaska.gov>

**Subject:** Re: FW: Lamprey ID

You don't often get email from [tmsutton@alaska.edu](mailto:tmsutton@alaska.edu). [Learn why this is important](#)

**CAUTION:** This email originated from outside the State of Alaska mail system. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi All,

If that lamprey was caught in SEAK, then I would agree with Ralph that it is a western brook lamprey. Nice find, we have gotten a few of them over the years from SE, but not many.

Trent

On Fri, Aug 16, 2024 at 11:45 AM Ralph Lampman <[lamr@yakamafish-nsn.gov](mailto:lamr@yakamafish-nsn.gov)> wrote:

Hi Nate,

The eyes are perfectly hidden, so it is deceiving but I'm confident in saying that is an adult Western Brook Lamprey (just eyes happen to be not visible due to the angle of the photo).

I can tell because of the prominence (visibility) of the 1st dorsal fin - you won't see the 1st dorsal fin so clearly on larvae (see below).

The dorsal & caudal fin darkens as they near maturity and you can also see the two dorsal fins are pretty much touching (indicating sexual maturity).

I'm not seeing bulging on the abdomen and not seeing the pseudoanal fin, so I would guess it's a sexually mature male (but there is a small chance that it could be a female that already spawned out [lost eggs] and the pseudoanal fin is just not showing).



Juvenile Pacific Lamprey can also get darker caudal ridge pigmentation and can be harder to see the translucent color sometimes, but won't get the color change on all the fins like this, and the overall body is very dark on this individual (a juvenile PL would be silvery).

Most *Lampetra* have limited pigmentation on the caudal fin, but that changes after they transform and mature.

(& some have pigmentation similar to PL, so the caudal ridge is key)

Let me know if you need any other help!

~Warm Regards~

Ralph Lampman

**COLUMBIA RIVER| Honor. Protect. Restore**

Yakama Nation FRMP, Pacific Lamprey Project, Lamprey Project Lead

[lamr@yakamafish-nsn.gov](mailto:lamr@yakamafish-nsn.gov)

509-388-3871

On Fri, Aug 16, 2024 at 12:23 PM Cathcart, Charles N (DFG)

<[nate.cathcart@alaska.gov](mailto:nate.cathcart@alaska.gov)> wrote:

Hi Ralph and Trent,

Can you two look at this lamprey when you get a chance?

I don't think the image is good enough to make a confident ID. It seems like it is still a larval lamprey, not a juvenile or adult. I would lean toward a western brook lamprey but also would like some sort of consensus if possible.

Thanks,  
Nate

---

**From:** Giefer, Joe (DFG) <[joe.giefer@alaska.gov](mailto:joe.giefer@alaska.gov)>

**Sent:** Monday, July 22, 2024 4:03 PM

**To:** Cathcart, Charles N (DFG) <[nate.cathcart@alaska.gov](mailto:nate.cathcart@alaska.gov)>

**Subject:** Lamprey ID

Once you are back from the field please take a look at this nom. Anything in this nom or other info that would allow you to ID the lamprey beyond "undifferentiated".

Any questions let me know.

***Joe Giefer***

Habitat Biologist III

**Anadromous Waters Catalog (AWC)**

Alaska Dept. of Fish & Game

Division of Sport Fish — RTS

333 Raspberry Road, Anchorage AK 99518

Office 907-267-2336

*Submit AWC Nominations electronically through the Online Portal here:*

<https://www.adfa.alaska.gov/sf/SARR/AWC/index.cfm?ADFG=nomSubmit.home>

--

Trent M. Sutton, Ph.D.

Office of the Provost, Vice Provost and Accreditation Liaison Officer

Division of Exploratory Studies and Academic Success, Dean

Undergraduate Research and Scholarly Activity (URSA), Director

University of Alaska Fairbanks

Fairbanks, Alaska 99775-7220

Phone: 907-474-7285



-Please update using most recent GDB with line, point, lake, polygon and barrier features located in O:\DSFIR5\AWCID\Draft2025\GIS\DATA\AWC\_2025\update\_WORKING\1\_day-month-yr.gdb

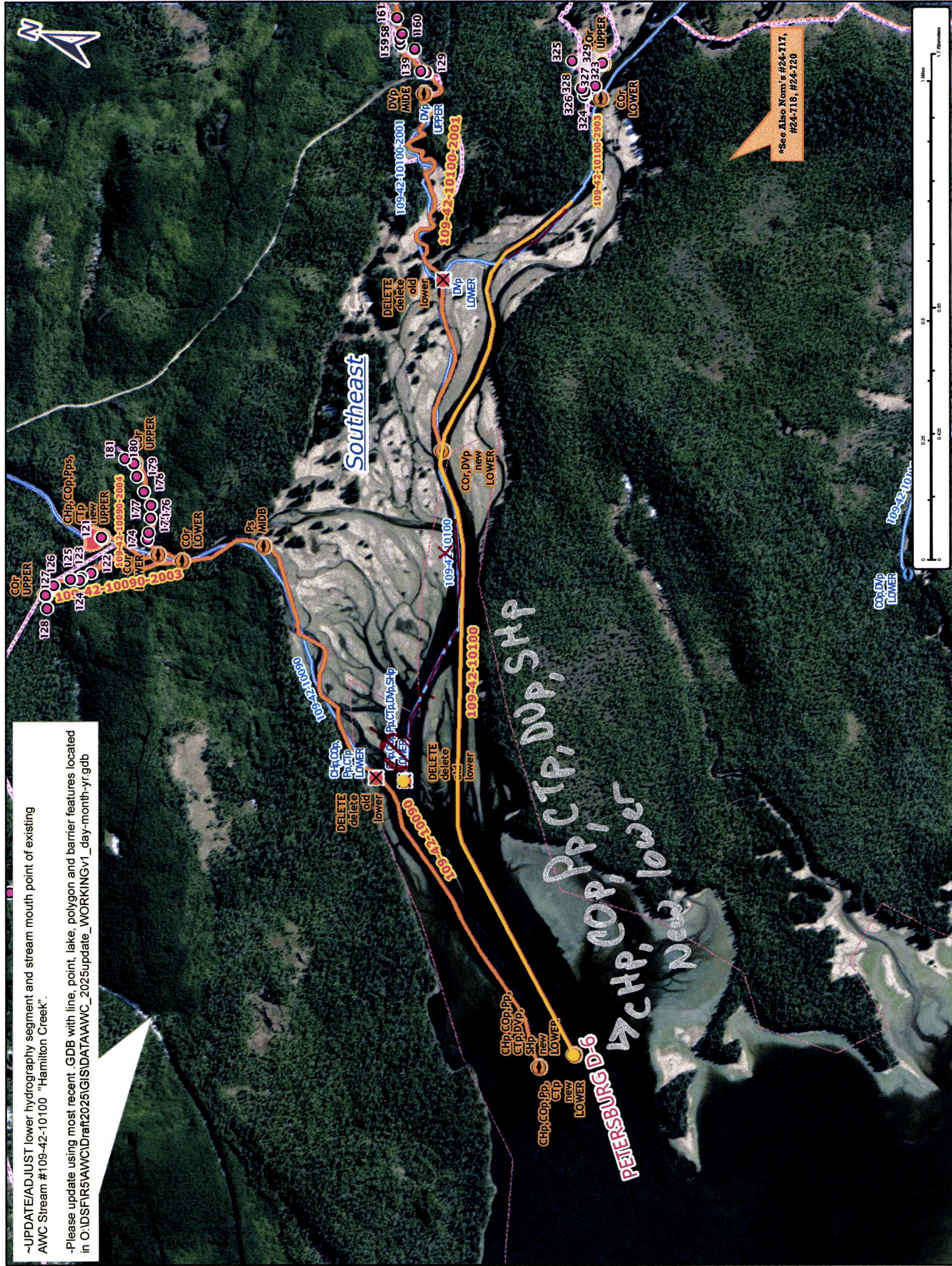


Nov #24-719



~UPDATE/ADJUST lower hydrography segment and stream mouth point of existing AWC Stream #109-42-10100 "Hamilton Creek".

-Please update using most recent GDB with line, point, lake, polygon and barrier features located in O:\DSFIR5AWCIDraft2025\GIS\DATA\AWC\_2025\update\_WORKING\1\_day-month-yr.gdb



Nov #24-719

Map #2