
Summary of 2023 Canada Goose Management Program: Egg Addling and Population Surveys

Okanagan Valley Goose Management Program



MAINTAINING THE BALANCE
BETWEEN PEOPLE AND GEESE



Prepared by:

EBB Environmental
Consulting Inc.

Executive Summary

This document provides a summary of activities conducted by EBB Environmental Consulting Inc. (EBB) as part of the 2023 Okanagan Valley Goose Management Program. This year the program included egg-addling and post-addling population surveys. Crews addled 1289 eggs from 349 nests. Of these, 15 nests were inaccessible due to safety concerns and eight nest sites did not have authorization to access. Post-addling ground surveys indicated that approximately 7% of the population was comprised of young-of-the-year, which is similar to estimates from recent years.

In this year of unprecedented fire activity and drought (Drought Level 4 at time of writing), available water and forage for wildlife, including Canada geese were reduced. This resulted in changes to goose distribution throughout the summer compared to previous years. Geese could not use dried-up wetlands or forage, so instead concentrated along shorelines of big lakes and irrigated areas more extensively than in past years. Consequently, conflicts associated with geese (i.e., complaints associated with geese on beaches, and goose feces) increased this summer, despite no concrete evidence of an increase in goose population size.

Recommendations this year focus on public communication and ORGMC learning about changes to the Migratory Bird Regulations (2022) that may provide some new management options.

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1.0 Introduction

1.1 Background

The Okanagan Valley supports an introduced population of Canada Geese. The population is the result of well-intended introduction and conservation programs in the 1960's and 70's that occurred in several locations in southern British Columbia (Campbell *et al* 1990). Introductions are well described in previous OVGMP summaries, Birds of BC (Campbell *et al* 1990) and other goose research documents.

Today, many jurisdictions are trying to appropriately manage descendants of introduced geese, which have formed non-migratory, resident populations. Non migratory geese (also referred to as urban, resident, temperate-nesting) are largely perceived as problem wildlife due to their abundance, territorial behaviour, crop damage, risks to human health and safety, fouling of grassy areas with droppings, fecal coliform contamination of public swimming areas, damage to lawns and green spaces, as well as other economic losses (Smith *et al.* 2005). Non-migratory Canada geese can be found on land governed by various jurisdictions including federal, provincial, municipal, and private properties such as parks, golf courses, schools, and agricultural lands.

Canada geese, like all waterfowl in Canada, are protected under the federal *Migratory Birds Convention Act* and pursuant *Migratory Bird Regulations*. Any attempts to manage geese must abide by the federal *Act* as well as any provincial and municipal regulations that apply in their respective regions. Public opinions strongly vary regarding goose management which adds to challenges of goose management.

1.2 Regional Background

The Okanagan Valley is coping with an ongoing goose management issue. Canada geese are fouling green spaces and contaminating lake waters posing risks to human health and economic losses from tourism and recreation. In the late 1990's, communities and stakeholders of the Okanagan Valley formed an Okanagan Regional Goose Management Committee (ORGMC) to implement a unified and landscape-level approach to goose management throughout the region. Partners include:

- North Okanagan Regional District
- District of Coldstream
- Greater Vernon Water
- City of Vernon
- District of Lake Country
- Central Okanagan Regional District
- City of Kelowna

- City of West Kelowna
- Westbank First Nation.
- District of Peachland
- District of Summerland
- City of Penticton
- Naramata
- Regional District of Okanagan-Similkameen
- Okanagan Falls
- Town of Oliver
- Town of Osoyoos.

1.3 Management

The Okanagan Regional Goose Management Strategy and Action Plan (Robertson Environmental and Ophiuchus Consulting 2006) drafted for ORGMC described control options for resident Canada geese. The plan was drafted in consultation with Canadian Wildlife Service (CWS) of Environment Canada. At the time of development, this plan was the first landscape-level, multi-jurisdictional, cooperatively implemented plan for goose management in Canada. The plan was adopted by ORGMC and is being implemented by EBB Environmental Consulting Inc. (EBB) and other contractors (e.g., Wise Wildlife Control, LaHawk Enterprises).

In addition to cooperative components of goose management (e.g., communications, nest surveys and egg addling, population monitoring), individual jurisdictions continue to mitigate impacts within their boundaries. This often includes scaring and habitat modification to reduce conflicts at key sites.

1.4 Coordination and Implementation of the Valley-Wide Egg Addling Program

Egg addling is a relatively simple, cost-effective and humane tool for controlling reproductive output of Canada geese. A successful Canada goose egg addling program depends on a sound ecological approach. Factors influencing goose reproduction must be understood (see previous summaries, also Elphick et al 2001, Mowbray et al 2002). To be effective, crews must be trained to access nesting areas and addle eggs so that geese will not re-nest. Crews must be thorough, ensuring all nests in a targeted area are included. Many target areas are within public viewing; crew members are often required to sensitively address questions and refer public to the program coordinator and other resources for additional information.

Early years of the program included development of an egg addling protocol manual, including mapping nest locations with GPS technology, and maintaining records of nest sites and addling activities. This protocol is regularly updated and available as an additional reference document.

2.0 Methodology

2.1 Administration

2.1.1 Permits

EBB obtained permits from Environment and Climate Change Canada (ECCC) for goose egg addling and addling in the Vaseux Lake Migratory Bird Sanctuary. In 2020, EBB obtained a 10-year authorization for accessing and addling within BC Provincial Parks which included consultation with local First Nations. As part of the consultation process, Westbank First Nation supplied a letter of authorization for access to traditional lands.

ECCC requires individual landowner authorization forms for activities that occur on private lands, in addition to the federal Damage or Danger permit. Under this permitting structure, the federal egg addling permit EBB received for the OVGMP is sufficient for activities conducted on public lands owned or managed by members of the ORGMC (e.g., municipal parks). Other lands (e.g., private residences, institutions, docks/groins above the high-water mark) required the signature of a landowner or designated manager attesting EBB was addling on their behalf. Landowner authorizations are valid for up to three years, depending on landowner preference. Copies of all authorizations must be submitted to CWS as part of mandatory reporting. Landowners who choose the multi-year option must be listed on the permit application of the following year.

Table 1. Permit Summary

Permit	Issuer
Canada Goose Egg Addling Permit for OVGMP	Environment Canada (Canadian Wildlife Service)
Landowner attestations as required to augment the OVGMP addling permit	Environment Canada (Canadian Wildlife Service)
Canada Goose Egg Addling Permit, Vaseux Lake Migratory Bird Sanctuary	Environment Canada (Canadian Wildlife Service)
Research and Education Park Use Permit (10 year)	BC Parks/Ministry of Environment and Climate Change Strategy

2.1.2 Communications

A toll number (1-877-943-3209) and e-mail address (coordinator@okanagangooseplan.com) were set up in 2007 for the public to call with nest locations and other questions. These contacts stay active throughout the year. A public service Announcement (PSA) was drafted at the onset

of the addling season to inform and encourage the public to report nests or observations of leg-banded birds.

2.2 Field Program

2.2.1 Pairs Surveys

Prior to the addling season pairs of geese were surveyed for behaviour to estimate timing of the nesting season. This allowed crews to become familiar with the landscape for efficient addling when the fast-paced nesting and laying season occurred. Pairs and lone Canada geese were identified. Any early nests were noted. Flocks of geese were also noted, but these groups were typically not nesting (e.g., had not reached maturity or lost their mates).

The pairs survey also acted as an opportunity to engage with landowners regarding authorizations. Information requirements or authorizations sorted out prior to peak nesting saved time during the field-intensive addling season.

2.2.2 Egg Addling

Daily addling occurred between April 1 and May 16, 2023. Crews worked in pairs following the ***United States Humane Society Canada Goose Egg-addling Protocol*** (HSUS 2020) and ***Best Practices for Destroying Eggs or Preventing Hatching: Canada Goose Management*** (Environment Canada 2011).

Float tests were used to determine the incubation stage of an egg (HSUS 2020). If the incubation stage was unknown, the addling crew used a bucket of water to perform a float test. Eggs that did not float were less than two weeks old and were humanely addled.



Figure 1. Working at a goose nest (Kelowna, 2023).

2.2.3 Additional Surveys

2.2.3.1 Gosling Surveys

Follow-up ground surveys for gosling estimates were conducted in early June to help identify areas where nests were missed and estimate the number of young in the population. The entire valley was surveyed, so the estimate contained data from properties that did not participate in the egg addling program.

2.2.3.2 Aerial Survey

Aerial surveys were not conducted this year—a thorough aerial survey was conducted in 2022, and if flying conditions permit, another survey will be conducted in 2024.

2.3 Leg Band Data

EBB crews observed geese for leg-bands (Figure 5). Some leg-band data returns were also provided from the National Bird Banding Office (i.e., observations that were reported to that office were forwarded to EBB) and directly through the OVGMP website. Maps (available on the website) are regularly updated to provide an overview of distribution of banded birds.



Figure 2. Leg-banded goose A3J (read the band from the ground up).

3.0 Results

3.1 Egg Addling

EBB crews addled 1289 eggs from 326 accessible nests. An additional 60 eggs were identified that had been predated and did not require addling. An additional 15 nests were inaccessible due to safety concerns (e.g., unsafe location) and 8 nests were not addled due to lack of authorizations to access the nests (e.g., landowner did not want the nest addled or landowner was absent and could not provide authorization).

Table 2 provides a summary of egg addling data. An overview of nest distribution is provided in Figures 6 and 7. Regional data are detailed in Appendix A. The mean clutch size was 4 eggs, which is slightly lower than past years and below the typical average of 5 eggs.

Table 2. Okanagan Valley Egg Addling Data Summary

Nest Element	Value
Minimum Clutch Size	0
Maximum Clutch Size	14
Mean Clutch Size	3.95 (4)
Number of Accessible Nests	326
Number of Inaccessible Nests	23
Total Number of Addled Eggs	1289
Number of Geese Prevented from Entering Population (approximately 75% of addled eggs)	967

Each year, nests are built on a variety of substrates including, but not limited to:

- Rooftops (cottage, home and industrial),
- Planters,
- Boat covers, boats and barges,
- Groins/breakwaters,
- Trees/stumps,
- Docks/wharves,
- Log booms,
- Osprey nesting platforms,
- Cliffs,
- Beaver lodges,
- Islands and peninsulas,
- Debris piles, and
- Incineration and garbage bins

3.2 Communications

A fact sheet was provided to ORGMC for distribution to their respective staff as a reminder of the program—it contained basic program facts as well as a reminder for staff to provide any nest locations that they may observe at their workplaces.

A media release was provided to the City of Kelowna communications department for distribution to valley media outlets, and jurisdictional media staff at the onset of the addling program (April 6). It was also provided to communications staff of participating jurisdictions.

This year we received 52 emails and 23 calls from the public regarding egg-addling, and 2 requests for interviews from media. Throughout out the summer additional emails/calls included topics such as:

- Injured goose or other wildlife observations,
- Reporting goslings,
- Hunting and hunting seasons,
- Geese at beaches and parks,
- Feeding of geese, and
- Mitigation/management suggestions.

Several calls focused on complaints of geese in the Coldstream/Vernon area during July.

3.3 Gosling Surveys and Population Growth

During ground surveys, population composition was 1175 adults and 93 goslings (7.3% young overall; Table 3). The highest number of geese was observed at Vaseux Lake. The highest amounts of young were observed at Kin Beach, Kaloya Regional Park and Kelowna waterfront parks.

At 7.3% the population should not grow based on the following assumptions:

Initial population size estimate: 2200

Recruitment into the population (7.3%): 160

Natural attrition (2%): 44

Hunting Mortality/Damage permits: 150

Net growth: -34

These numbers are estimates but indicate that the current management techniques prevent population growth.

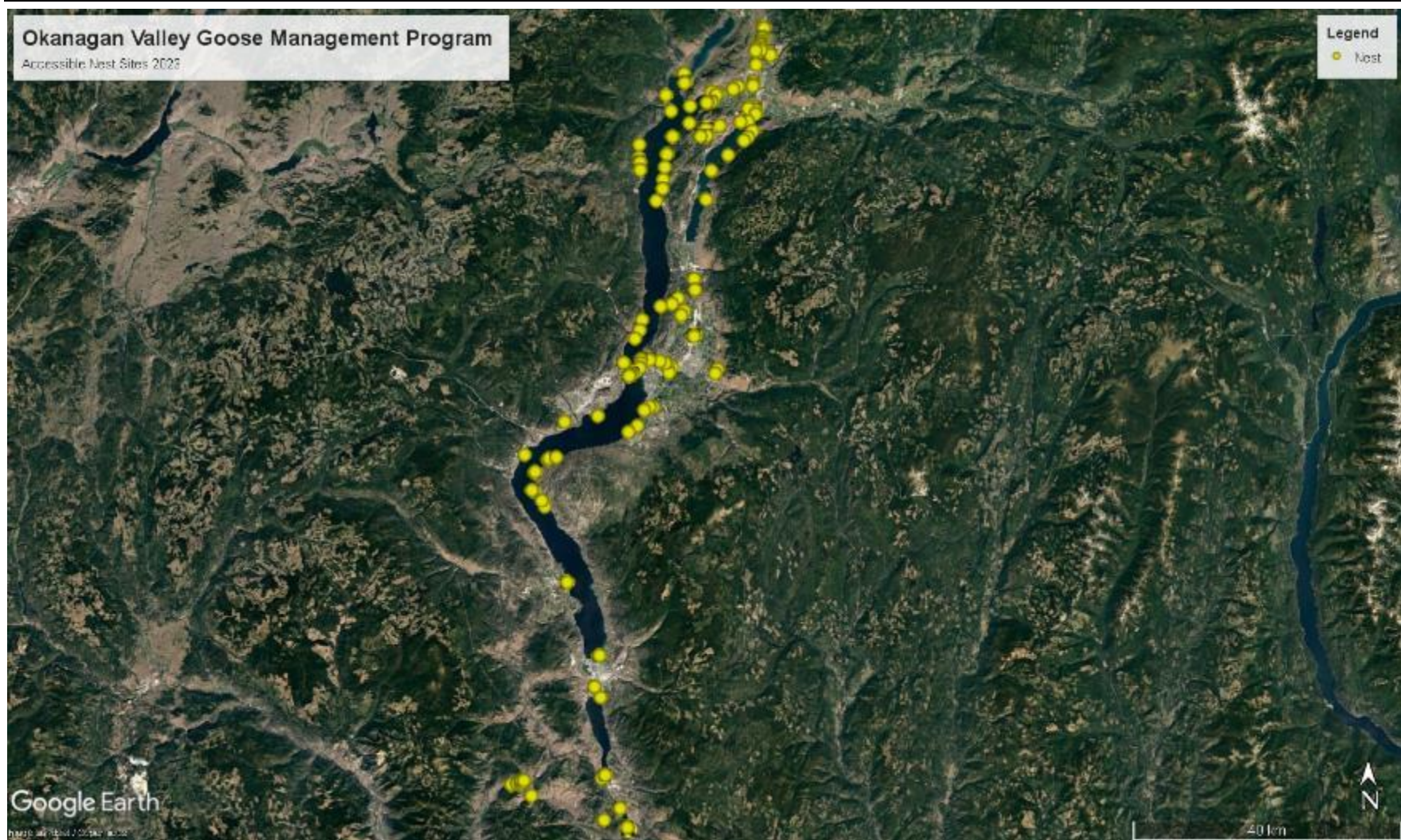


Figure 3. Accessible nest sites (addled) during the 2023 field season (valley overview)

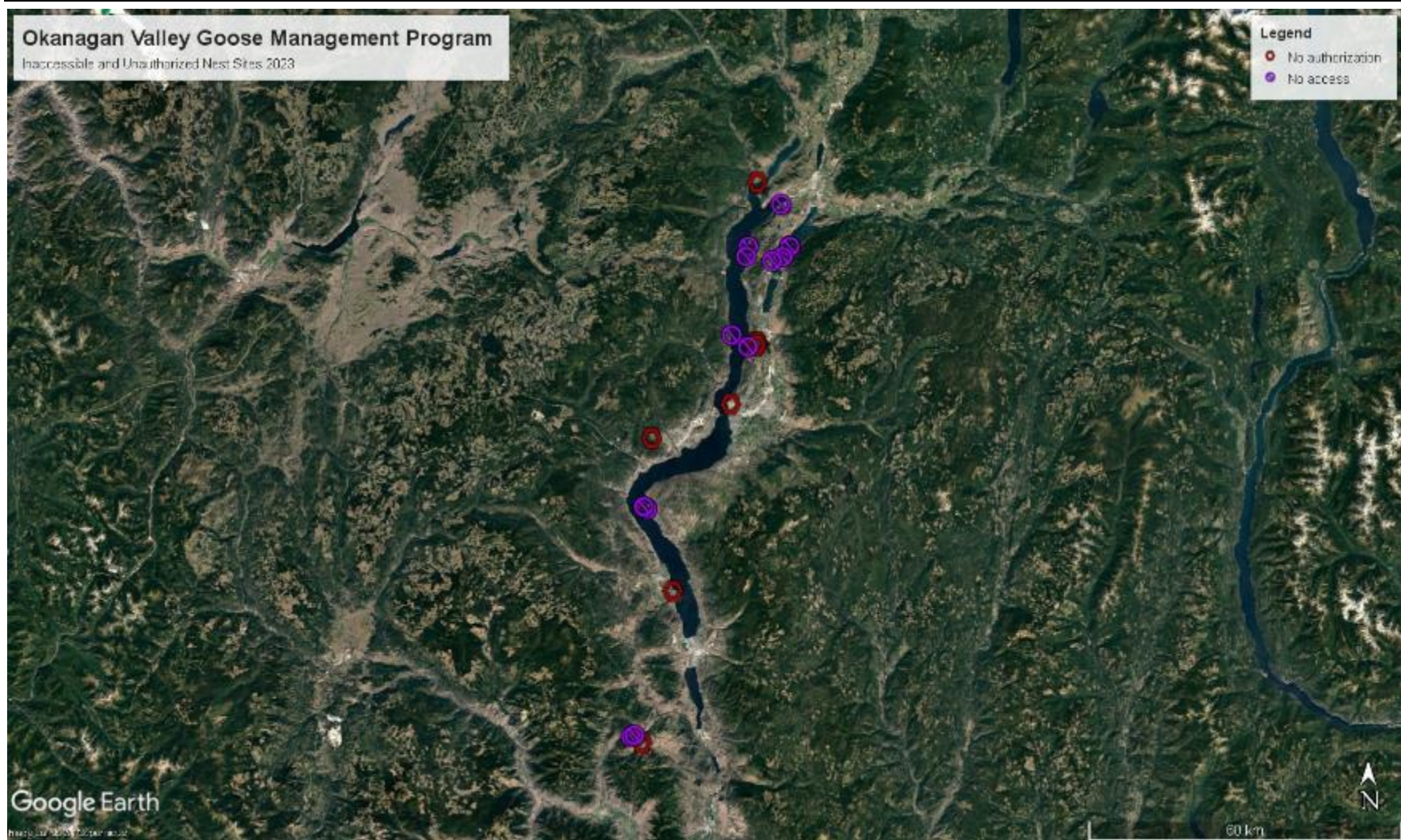


Figure 4. Inaccessible and unauthorized nests (not added) during 2023 field season

Table 3. Summary Data for 2023 Post-addling Population Ground Surveys

Region	Site	Adults	Juveniles	Total	Estimated Clutches
Osoyoos	Osoyoos Lake	12	0	12	
Oliver	Tuc-el-nuit Lake	0	0	0	
RDOS	Vaseux Lake	507	0	507	
Okanagan Falls	Christie Memorial Park	6	0	6	
Penticton	North Skaha Lake	0	0	0	
Penticton	SS Sicamous	0	0	0	
Penticton	Penticton Marina	2	0	2	
Naramata	Manitou Park	0	0	0	
Summerland	Peach Orchard Beach Park	22	0	22	
Summerland	Shoreline Landry Trail	18	0	18	
Peachland	Beach Ave	6	0	6	
Peachland	Highway 97 South	55	0	55	
West Kelowna	Shelter Bay Marina	17	0	17	
West Kelowna	Gellatly Landing Park	0	0	0	
West Kelowna	Marina Park	0	0	0	
West Kelowna	West Kelowna Yacht Club	0	0	0	
West Kelowna	Powers Point	0	0	0	
West Kelowna	Rotary Park (Gellatly Bay)	0	0	0	
Kelowna	Waterfront Parks	8	30	38	6 clutches
Kelowna	Ellison Lake	0	0	0	
Lake Country	Beasley Park	38	0	38	
Lake Country	Oyama Rail Trail	0	0	0	
Lake Country	Young Wetland	0	0	0	
Lake Country	Kaloya Regional Park	35	24	59	5 clutches
Coldstream	Kal Lake	6	0	6	
Vernon	Paddlewheel Park	50	0	50	
Vernon	Kin Beach	370	39	409	7 clutches
Vernon	Swan lake	23	0	23	
Total		1175	93	1268	7.3%

4.0 Summary and Discussion

This year 1289 eggs were addled in the Okanagan Valley. Taking natural mortality into account, addling prevented close to 1000 new geese from entering the population. Cumulatively, over the span of the addling program, greater than 17,000 geese have been directly prevented from entering the population. Recognizing each female goose can hatch up to 240 goslings in her lifetime, many additional generations of geese have also been prevented from hatch.

As in previous years, EBB found that the highest density and number of nests were in the Vaseux Lake Migratory Bird Sanctuary (96 nests; 369 eggs). Vaseux Lake accounts for approximately one third of the eggs addled each year. This year, Vaseux Lake naturalists assisted EBB with removal/blocking of two inaccessible nest sites so that EBB was able to access all Vaseux nests.

Gosling survey results help us identify areas where efforts should increase to engage the public and increase awareness about goose management as well as look for nests. In doing so, more nest reports and access to lands will increase the ability of crews to successfully find and addle nests. Gosling data also provided us with an indicator of overall program success and where we should be directing our field survey/nest-finding efforts. This year we estimated 7.3% young for the valley-wide population, which is consistent with recent years. At this level, the population will not increase.

The leg-band observation database continues to grow, but the number of banded geese is a diminishing resource. Data are still helpful and the distribution of data points continues to indicate that population control of these geese does not impact natural migratory populations and will likely have long-term benefits towards mitigation and prevention of damage caused by geese in the Okanagan Valley.

Recent changes (2022) to the Migratory Bird Regulations have opened options for harvest of geese and use of damage or danger permits. For example, the new “Charity Permit” makes it feasible to harvest geese for use by a charity. The Charity Permit provision provides an option for hunters or damage permit holders to ethically harvest geese, ensuring that the meat can be provided to a charity that would benefit from the meat. A representative from the Charity must be the applicant. For ORGMC communities that are struggling with specific populations of geese, this may provide an option to reduce the number of geese that is not wasteful and beneficial to charities serving members of the community. Harvests of geese are resource-heavy undertakings, but members of ORGMC may want to discuss feasibility of these types of programs, and discuss if they would benefit communities along the valley.

5.0 Recommendations

The following recommendations have been provided to ensure continued program success. Recommendations include items that are on-going or newly identified. Action items from previous years that were addressed have been removed. Recommendations are as follows:

- ❖ Become familiar with new provisions in the MBRs (2022) for harvest options of Canada geese
 - Action: Coordinator to provide summary of updated regulations at the 2023 fall meeting—potentially lead discussion to see if communities are interested in using any of the new tools
- ❖ Continue increased nest survey/addling effort in Vernon
 - Action: Continued addling pressure at known/developing colony sites (e.g., Mackay Reservoir) to prevent nesting colony expansion and hatch success.
 - Action: Coordinator to continue to assist with federal permit applications as required, particularly if a contractor is secured to implement programs required damage or danger permits.
- ❖ Continue to achieve buy-in from new partners, stakeholders and the general public
 - Action: Continue to promote program activities through networks and other conferences/venues
 - Action: Have committee members discuss the issue with their counterparts in other jurisdictions, engage councils where appropriate; discuss the issue with potential partners such as golf course superintendents, hunting/fishing clubs, naturalist groups.
- ❖ Continue with public education/communications/best management practices
 - Action: Assist inquiring landowners on habitat management options to reduce attractiveness of their properties to geese.
 - Action: Continue to provide an information package to landowners with a copy of the information pamphlet, landowner attestation form (required by ECCC)

Action: Advise against nest destruction on private property or boat covers. Destruction of nests within a breeding season can result in re-nesting at new (unknown) locations, and addling crews missing the new nest.

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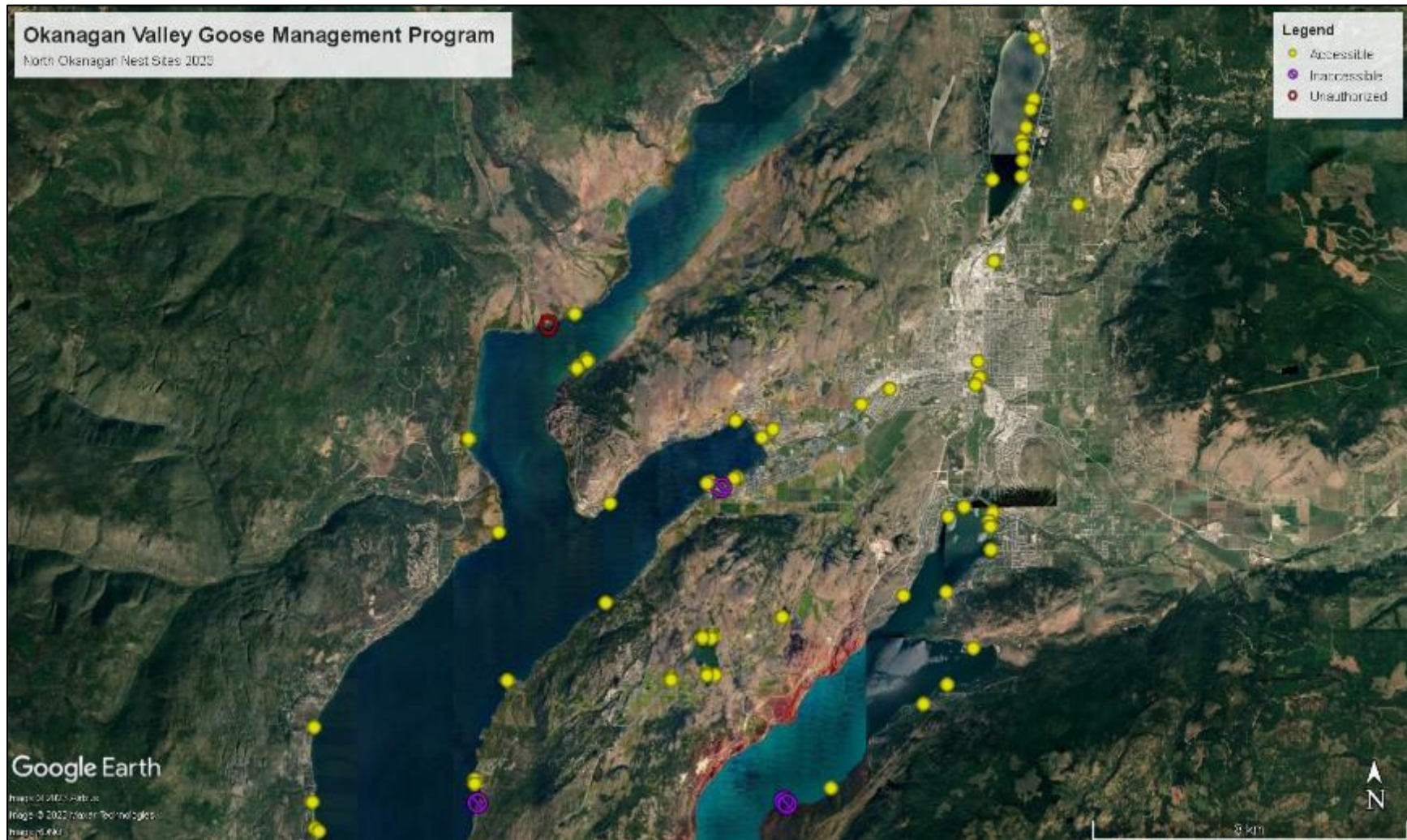
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APPENDIX A

Egg Addling Data: Regional Summaries

North Okanagan



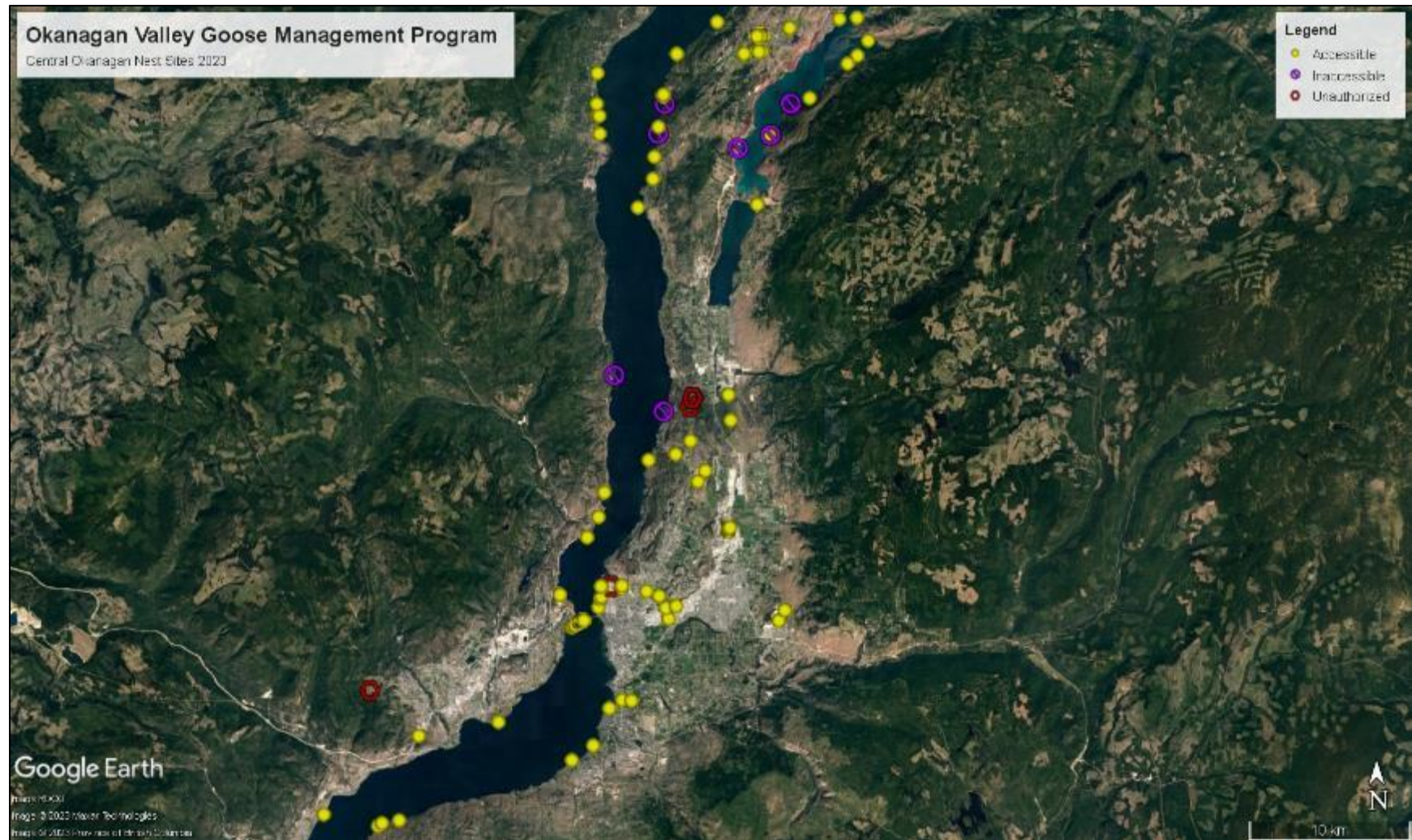
<i>Zone</i>	<i>Easting</i>	<i>Northing</i>	<i>Region</i>	<i>Site</i>	<i>Access</i>	<i>Addled</i>
11	329733	5556751	North Okanagan	Kalamalka Lake	Inaccessible	0
11	331752	5557504	North Okanagan	Kalamalka Lake	Inaccessible	0
11	331716	5557506	North Okanagan	Kalamalka Lake	Accessible	5
11	324820	5557808	North Okanagan	Okanagan Lake - Kelowna	Inaccessible	0
11	321260	5557949	North Okanagan	Okanagan Lake - Kelowna	Accessible	2
11	324890	5558252	North Okanagan	Okanagan Lake - Vernon	Accessible	5
11	321272	5559047	North Okanagan	Okanagan Lake - Vernon	Accessible	0
11	321175	5559125	North Okanagan	Okanagan Lake - Vernon	Accessible	0
11	321177	5559131	North Okanagan	Okanagan Lake - Vernon	Accessible	0
11	333128	5559331	North Okanagan	Kalamalka Lake	Inaccessible	0
11	333051	5559404	North Okanagan	Kalamalka Lake	Inaccessible	0
11	325301	5559624	North Okanagan	Okanagan Lake - Kelowna	Inaccessible	0
11	334259	5559708	North Okanagan	Kalamalka Lake	Accessible	6
11	321132	5559792	North Okanagan	Okanagan Lake - Vernon	Accessible	8
11	325259	5560107	North Okanagan	Okanagan Lake - Kelowna	Accessible	2
11	325254	5560120	North Okanagan	Okanagan Lake - Kelowna	Accessible	7
11	325262	5560228	North Okanagan	Okanagan Lake - Oyama	Accessible	6
11	321241	5561674	North Okanagan	Okanagan Lake - Vernon	Accessible	6
11	336667	5561747	North Okanagan	Kalamalka Lake	Accessible	0
11	337283	5562218	North Okanagan	Kalamalka Lake	Accessible	6
11	330307	5562571	North Okanagan	Predator Ridge	Accessible	6
11	330293	5562590	North Okanagan	Predator Ridge	Accessible	7
11	331220	5562656	North Okanagan	Mackay Reservoir	Accessible	4
11	331430	5562656	North Okanagan	Mackay Reservoir	Accessible	0
11	331235	5562692	North Okanagan	Mackay Reservoir	Accessible	0
11	326168	5562693	North Okanagan	Okanagan Lake - Oyama	Accessible	4
11	326168	5562693	North Okanagan	Okanagan Lake - Vernon	Accessible	9
11	337975	5563111	North Okanagan	Kalamalka Lake	Accessible	6
11	331355	5563590	North Okanagan	Mackay Reservoir	Accessible	7
11	331368	5563591	North Okanagan	Mackay Reservoir	Accessible	3
11	331357	5563598	North Okanagan	Mackay Reservoir	Accessible	6
11	331363	5563600	North Okanagan	Mackay Reservoir	Accessible	5
11	331140	5563606	North Okanagan	Mackay Reservoir	Accessible	4
11	331143	5563607	North Okanagan	Mackay Reservoir	Accessible	3
11	331360	5563607	North Okanagan	Mackay Reservoir	Accessible	5
11	331144	5563612	North Okanagan	Mackay Reservoir	Accessible	6
11	331356	5563612	North Okanagan	Mackay Reservoir	Accessible	4
11	331357	5563614	North Okanagan	Mackay Reservoir	Accessible	5
11	331146	5563619	North Okanagan	Mackay Reservoir	Accessible	5
11	331130	5563622	North Okanagan	Mackay Reservoir	Accessible	6
11	331153	5563630	North Okanagan	Mackay Reservoir	Accessible	2
11	331143	5563631	North Okanagan	Mackay Reservoir	Accessible	6
11	331426	5563635	North Okanagan	Mackay Reservoir	Accessible	3
11	331416	5563643	North Okanagan	Mackay Reservoir	Accessible	4

<i>Zone</i>	<i>Easting</i>	<i>Northing</i>	<i>Region</i>	<i>Site</i>	<i>Access</i>	<i>Addled</i>
11	331423	5563646	North Okanagan	Mackay Reservoir	Accessible	7
11	331429	5563648	North Okanagan	Mackay Reservoir	Accessible	6
11	331423	5563650	North Okanagan	Mackay Reservoir	Accessible	7
11	331423	5563660	North Okanagan	Mackay Reservoir	Accessible	8
11	331168	5563662	North Okanagan	Mackay Reservoir	Accessible	4
11	331167	5563666	North Okanagan	Mackay Reservoir	Accessible	4
11	331375	5563674	North Okanagan	Mackay Reservoir	Accessible	14
11	331375	5563681	North Okanagan	Mackay Reservoir	Accessible	5
11	331368	5563682	North Okanagan	Mackay Reservoir	Accessible	5
11	331371	5563692	North Okanagan	Mackay Reservoir	Accessible	4
11	333170	5564060	North Okanagan	Roses Pond	Accessible	6
11	336250	5564498	North Okanagan	Kalamalka Lake	Accessible	6
11	337336	5564550	North Okanagan	Kalamalka Lake	Accessible	4
11	328721	5564568	North Okanagan	Okanagan Lake - Vernon	Accessible	5
11	338500	5565580	North Okanagan	Kalamalka Lake	Accessible	3
11	338504	5566160	North Okanagan	Kalamalka Lake	Accessible	0
11	338511	5566165	North Okanagan	Kalamalka Lake	Accessible	3
11	338481	5566301	North Okanagan	Kalamalka Lake	Accessible	6
11	326076	5566439	North Okanagan	Okanagan Lake - Vernon	Accessible	8
11	337452	5566448	North Okanagan	Kalamalka Lake	Accessible	6
11	338573	5566510	North Okanagan	Kalavista Lagoon	Accessible	0
11	338579	5566513	North Okanagan	Kalavista Lagoon	Accessible	0
11	338579	5566514	North Okanagan	Kalavista Lagoon	Accessible	0
11	338591	5566533	North Okanagan	Kalavista Lagoon	Accessible	0
11	337860	5566680	North Okanagan	Kalamalka Lake	Accessible	6
11	328909	5567071	North Okanagan	Okanagan Lake - Vernon	Accessible	5
11	331732	5567368	North Okanagan	Okanagan Lake - Vernon	Inaccessible	0
11	331381	5567493	North Okanagan	Okanagan Lake - Vernon	Accessible	4
11	331488	5567519	North Okanagan	Okanagan Lake - Vernon	Accessible	5
11	332073	5567591	North Okanagan	Okanagan Lake - Vernon	Accessible	6
11	332140	5567620	North Okanagan	Okanagan Lake - Vernon	Accessible	6
11	332806	5568601	North Okanagan	Holiday Park - Vernon	Accessible	5
11	325392	5568791	North Okanagan	Okanagan Lake - Vernon	Accessible	8
11	333094	5568797	North Okanagan	Holiday Park - Vernon	Accessible	0
11	325389	5568802	North Okanagan	Okanagan Lake - Vernon	Accessible	5
11	325391	5568821	North Okanagan	Okanagan Lake - Vernon	Accessible	7
11	332156	5569045	North Okanagan	Okanagan Lake - Vernon	Accessible	7
11	335347	5569351	North Okanagan	Big Chief Mobile Home Park	Accessible	5
11	336083	5569716	North Okanagan	Water Reclamation Centre	Accessible	4
11	338252	5569746	North Okanagan	Polson Park	Accessible	5
11	338361	5569932	North Okanagan	OK Springs Brewery Warehouse	Accessible	5
11	338336	5570336	North Okanagan	Vernon Library	Accessible	12
11	328196	5570502	North Okanagan	Okanagan Lake - Vernon	Accessible	3
11	328194	5570505	North Okanagan	Okanagan Lake - Vernon	Accessible	3
11	328189	5570512	North Okanagan	Okanagan Lake - Vernon	Accessible	6

<i>Zone</i>	<i>Easting</i>	<i>Northing</i>	<i>Region</i>	<i>Site</i>	<i>Access</i>	<i>Addled</i>
11	328198	5570520	North Okanagan	Okanagan Lake - Vernon	Accessible	4
11	328458	5570672	North Okanagan	Okanagan Lake - Vernon	Accessible	4
11	328462	5570690	North Okanagan	Okanagan Lake - Vernon	Accessible	4
11	328436	5570722	North Okanagan	Okanagan Lake - Vernon	Accessible	4
11	327509	5571604	North Okanagan	Okanagan Lake - Vernon	Unauthorized	0
11	328184	5571875	North Okanagan	Okanagan Lake - Vernon	Accessible	6
11	338821	5572847	North Okanagan	Nor-Val Rentals	Accessible	4
11	340995	5574200	North Okanagan	Cools Pond Park	Accessible	6
11	341032	5574202	North Okanagan	Cools Pond Park	Accessible	7
11	341014	5574209	North Okanagan	Cools Pond Park	Accessible	3
11	338852	5574901	North Okanagan	Swan Lake	Accessible	4
11	339594	5574953	North Okanagan	Swan Lake	Accessible	4
11	339639	5575359	North Okanagan	Swan Lake	Accessible	0
11	339647	5575729	North Okanagan	Swan Lake	Accessible	0
11	339618	5575872	North Okanagan	Swan Lake	Accessible	6
11	339750	5576192	North Okanagan	Swan Lake	Accessible	6
11	339871	5576648	North Okanagan	Swan Lake	Accessible	5
11	339965	5576892	North Okanagan	Swan Lake	Accessible	4
11	340178	5578171	North Okanagan	Swan Lake	Accessible	6
11	340040	5578429	North Okanagan	Swan Lake	Accessible	3

Nest Summary	Value
Minimum Clutch Size	0
Maximum Clutch Size	14
Mean Clutch Size	4.5
Total Number of Nests	109
Total Number of Eggs	461

Central Okanagan



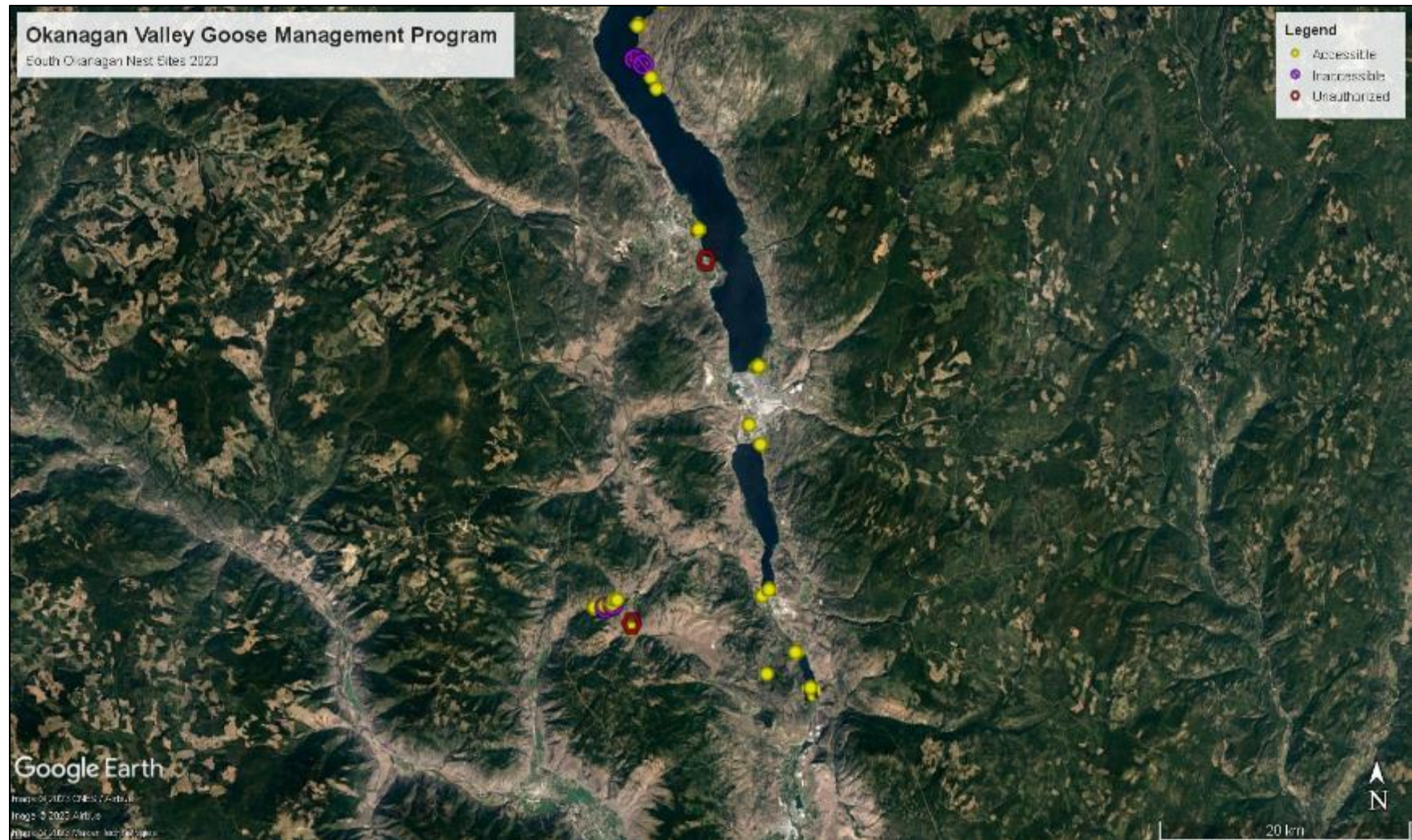
Zone	Easting	Northing	Region	Site	Access	Total Added
11	309039	5495421	Central Okanagan	Thornber Road	Unauthorized	0
11	308461	5497756	Central Okanagan	Summerland Marina	Accessible	0
11	308494	5497779	Central Okanagan	Summerland Marina	Accessible	0
11	308471	5497896	Central Okanagan	Summerland Marina	Accessible	0
11	308480	5497898	Central Okanagan	Summerland Marina	Accessible	5
11	308485	5497900	Central Okanagan	Summerland Marina	Accessible	0
11	308450	5497900	Central Okanagan	Summerland Marina	Accessible	0
11	308522	5497901	Central Okanagan	Summerland Marina	Accessible	6
11	308505	5497903	Central Okanagan	Summerland Marina	Accessible	0
11	308426	5497911	Central Okanagan	Summerland Marina	Accessible	0
11	305569	5509074	Central Okanagan	Okanagan Lake - Mtn Park	Accessible	5
11	305159	5509965	Central Okanagan	Okanagan Lake - Mtn Park	Accessible	4
11	304543	5510981	Central Okanagan	Okanagan Lake - Mtn Park	Inaccessible	0
11	304409	5511076	Central Okanagan	Okanagan Lake - Mtn Park	Inaccessible	0
11	303865	5511434	Central Okanagan	Okanagan Lake - Mtn Park	Inaccessible	0
11	303903	5511455	Central Okanagan	Okanagan Lake - Mtn Park	Accessible	4
11	303875	5511456	Central Okanagan	Okanagan Lake - Mtn Park	Accessible	4
11	303994	5511471	Central Okanagan	Okanagan Lake - Mtn Park	Inaccessible	0
11	303782	5511491	Central Okanagan	Okanagan Lake - Mtn Park	Accessible	3
11	303769	5511550	Central Okanagan	Okanagan Lake - Mtn Park	Accessible	4
11	304227	5514083	Central Okanagan	Okanagan Lake - Mtn Park	Accessible	3
11	304201	5514121	Central Okanagan	Okanagan Lake - Mtn Park	Accessible	4
11	304332	5514123	Central Okanagan	Okanagan Lake - Mtn Park	Accessible	2
11	304334	5514235	Central Okanagan	Okanagan Lake - Mtn Park	Accessible	7
11	306181	5515950	Central Okanagan	Okanagan Lake - Mtn Park	Accessible	5
11	306434	5516117	Central Okanagan	Okanagan Lake - Kelowna	Accessible	5
11	307499	5516257	Central Okanagan	Okanagan Lake - Mtn Park	Accessible	4
11	302859	5516769	Central Okanagan	Pentowna Marina	Accessible	5
11	318264	5519606	Central Okanagan	Okanagan Lake - Kelowna	Accessible	5
11	319604	5520466	Central Okanagan	Okanagan Lake - Kelowna	Accessible	4
11	308885	5521406	Central Okanagan	Hardy's Slough	Accessible	5
11	313823	5522092	Central Okanagan	Okanagan Lake - Kelowna	Accessible	7
11	320682	5522714	Central Okanagan	Okanagan Lake - Kelowna	Accessible	6
11	322054	5523128	Central Okanagan	Mission Sports Field	Accessible	0
11	321491	5523198	Central Okanagan	Mission Sports Field	Accessible	6
11	305980	5524254	Central Okanagan	Glenrosa Rd	Unauthorized	0
11	331285	5527749	Central Okanagan	Black Mtn Golf	Accessible	5
11	318514	5527754	Central Okanagan	Okanagan Lake - Kelowna	Accessible	0
11	318627	5527812	Central Okanagan	Okanagan Lake - Kelowna	Accessible	6
11	318759	5527870	Central Okanagan	Okanagan Lake - Kelowna	Accessible	7
11	319013	5528068	Central Okanagan	WB Bridge	Accessible	2

Zone	Easting	Northing	Region	Site	Access	Total Added
11	319013	5528068	Central Okanagan	WB Bridge	Accessible	1
11	319013	5528068	Central Okanagan	WB Bridge	Accessible	1
11	319013	5528068	Central Okanagan	WB Bridge	Accessible	6
11	319013	5528068	Central Okanagan	WB Bridge	Accessible	8
11	319013	5528068	Central Okanagan	WB Bridge	Accessible	2
11	319013	5528068	Central Okanagan	WB Bridge	Accessible	4
11	319013	5528068	Central Okanagan	WB Bridge	Accessible	1
11	319013	5528068	Central Okanagan	WB Bridge	Accessible	8
11	318998	5528069	Central Okanagan	WB Bridge	Accessible	0
11	318998	5528069	Central Okanagan	WB Bridge	Accessible	0
11	324510	5528094	Central Okanagan	Orchard Park Mall	Accessible	6
11	319112	5528120	Central Okanagan	WB Bridge	Accessible	5
11	319187	5528121	Central Okanagan	WB Bridge	Accessible	4
11	319185	5528122	Central Okanagan	WB Bridge	Accessible	4
11	319185	5528122	Central Okanagan	WB Bridge	Accessible	6
11	319134	5528126	Central Okanagan	WB Bridge	Accessible	5
11	319209	5528134	Central Okanagan	WB Bridge	Accessible	3
11	319209	5528134	Central Okanagan	WB Bridge	Accessible	3
11	319209	5528134	Central Okanagan	WB Bridge	Accessible	11
11	319159	5528134	Central Okanagan	WB Bridge	Accessible	1
11	319225	5528135	Central Okanagan	WB Bridge	Accessible	5
11	319222	5528147	Central Okanagan	WB Bridge	Accessible	2
11	319289	5528148	Central Okanagan	WB Bridge	Accessible	5
11	319289	5528148	Central Okanagan	WB Bridge	Accessible	6
11	319289	5528148	Central Okanagan	WB Bridge	Accessible	0
11	319289	5528148	Central Okanagan	WB Bridge	Accessible	6
11	319289	5528148	Central Okanagan	WB Bridge	Accessible	6
11	319235	5528154	Central Okanagan	WB Bridge	Accessible	1
11	331678	5528369	Central Okanagan	Black Mtn Golf	Accessible	6
11	324365	5528752	Central Okanagan	Enterprise UHaul	Accessible	7
11	325002	5528847	Central Okanagan	Enterprise Way	Accessible	6
11	320220	5528927	Central Okanagan	Okanagan Lake - Kelowna	Accessible	6
11	320357	5529422	Central Okanagan	Okanagan Lake - Kelowna	Accessible	5
11	323976	5529502	Central Okanagan	Kelowna Golf and Country	Accessible	6
11	320422	5529562	Central Okanagan	Okanagan Lake - Kelowna	Accessible	0
11	317871	5529774	Central Okanagan	Okanagan Lake - Kelowna	Accessible	1
11	317871	5529774	Central Okanagan	Okanagan Lake - Kelowna	Accessible	1
11	323212	5529818	Central Okanagan	Redlich Pond	Accessible	3
11	321711	5530039	Central Okanagan	Water Reclamation Centre	Accessible	0
11	320487	5530123	Central Okanagan	Rotary Park Marsh	Accessible	0
11	320459	5530130	Central Okanagan	Rotary Park Marsh	Accessible	0
11	321030	5530169	Central Okanagan	Kelowna	Unauthorized	0

Zone	Easting	Northing	Region	Site	Access	Total Added
11	321704	5530205	Central Okanagan	Water Reclamation Centre	Accessible	0
11	320420	5530214	Central Okanagan	Rotary Park Marsh	Accessible	3
11	319661	5533237	Central Okanagan	Okanagan Lake - Kelowna	Accessible	1
11	328367	5533291	Central Okanagan	Carney pond	Accessible	6
11	328340	5533361	Central Okanagan	Carney pond	Accessible	4
11	328422	5533434	Central Okanagan	Carney pond	Accessible	4
11	328398	5533439	Central Okanagan	Carney pond	Accessible	5
11	328403	5533443	Central Okanagan	Carney pond	Accessible	3
11	328383	5533460	Central Okanagan	Carney pond	Accessible	5
11	328383	5533460	Central Okanagan	Carney pond	Accessible	0
11	328431	5533464	Central Okanagan	Carney pond	Accessible	0
11	328399	5533471	Central Okanagan	Carney pond	Accessible	2
11	328397	5533472	Central Okanagan	Carney pond	Accessible	0
11	328397	5533472	Central Okanagan	Carney pond	Accessible	2
11	328470	5533547	Central Okanagan	Carney pond	Accessible	5
11	320403	5534459	Central Okanagan	Okanagan Lake - Kelowna	Accessible	1
11	320812	5535954	Central Okanagan	Okanagan Lake - Kelowna	Accessible	0
11	326594	5536436	Central Okanagan	Glenmore Landfill	Accessible	6
11	327065	5537081	Central Okanagan	Glenmore Landfill	Accessible	7
11	323600	5537850	Central Okanagan	Okanagan Lake - Kelowna	Accessible	6
11	325280	5538149	Central Okanagan	Mckinley Reservoir	Accessible	7
11	326219	5538941	Central Okanagan	Glenmore Rd	Accessible	4
11	328738	5540120	Central Okanagan	Duck Lake	Accessible	2
11	324585	5540785	Central Okanagan	Okanagan Lake - Kelowna	Inaccessible	0
11	326265	5541017	Central Okanagan	Neeks basin	Unauthorized	0
11	326461	5541522	Central Okanagan	Neeks basin	Unauthorized	0
11	326443	5541530	Central Okanagan	Neeks basin	Unauthorized	0
11	328652	5541693	Central Okanagan	Duck Lake	Accessible	3
11	328631	5541707	Central Okanagan	Duck Lake	Accessible	6
11	321650	5543096	Central Okanagan	Okanagan Lake - Kelowna	Inaccessible	0
11	330806	5553287	Central Okanagan	Marsh Lake	Accessible	2
11	323462	5553347	Central Okanagan	James Grant Island	Accessible	0
11	324447	5555077	Central Okanagan	Carrs Landing	Accessible	6
11	324576	5556427	Central Okanagan	Okanagan Lake - Kelowna	Accessible	4

Nest Summary	Value
Minimum Clutch Size	0
Maximum Clutch Size	11
Mean Clutch Size	3.5
Total Number of Nests	117
Total Number of Eggs	368

South Okanagan



Zone	Easting	Northing	Region	Site	Access	Addled
11	320086.17	5433481.09	South Okanagan	Osooyos Lake Island	Accessible	6
11	320100.40	5433488.41	South Okanagan	Osooyos Lake Island	Accessible	7
11	316299.15	5461208.52	South Okanagan	Hatfield Island	Accessible	7
11	316303.13	5461208.58	South Okanagan	Hatfield Island	Accessible	3
11	316308.78	5461214.16	South Okanagan	Hatfield Island	Accessible	9
11	316303.70	5461214.66	South Okanagan	Hatfield Island	Accessible	5
11	316307.00	5461216.49	South Okanagan	Hatfield Island	Accessible	6
11	316310.04	5461219.26	South Okanagan	Hatfield Island	Accessible	9
11	316265.93	5461222.68	South Okanagan	Hatfield Island	Accessible	5
11	316303.59	5461223.77	South Okanagan	Hatfield Island	Accessible	5
11	316316.43	5461225.45	South Okanagan	Hatfield Island	Accessible	8
11	316288.84	5461226.24	South Okanagan	Hatfield Island	Accessible	7
11	316288.11	5461227.01	South Okanagan	Hatfield Island	Accessible	4
11	316311.70	5461233.25	South Okanagan	Hatfield Island	Accessible	5
11	316288.44	5461236.85	South Okanagan	Hatfield Island	Accessible	3
11	316278.45	5461242.66	South Okanagan	Hatfield Island	Accessible	4
11	316276.51	5461245.48	South Okanagan	Hatfield Island	Accessible	3
11	316300.89	5461246.32	South Okanagan	Hatfield Island	Accessible	3
11	316293.46	5461252.94	South Okanagan	Hatfield Island	Accessible	3
11	316294.77	5461257.51	South Okanagan	Hatfield Island	Accessible	1
11	316289.81	5461265.54	South Okanagan	Hatfield Island	Accessible	6
11	316296.32	5461267.34	South Okanagan	Hatfield Island	Accessible	7
11	316286.32	5461276.48	South Okanagan	Hatfield Island	Accessible	4
11	316281.84	5461277.02	South Okanagan	Hatfield Island	Accessible	4
11	316275.45	5461282.78	South Okanagan	Hatfield Island	Accessible	0
11	316304.00	5461285.50	South Okanagan	Hatfield Island	Accessible	6
11	316274.20	5461287.35	South Okanagan	Hatfield Island	Accessible	5
11	316280.31	5461292.52	South Okanagan	Hatfield Island	Accessible	0
11	316292.40	5461294.27	South Okanagan	Hatfield Island	Accessible	6
11	316285.83	5461294.60	South Okanagan	Hatfield Island	Accessible	0
11	316271.33	5461296.70	South Okanagan	Hatfield Island	Accessible	7
11	316263.25	5461308.98	South Okanagan	Hatfield Island	Accessible	5
11	316259.70	5461311.39	South Okanagan	Hatfield Island	Accessible	4
11	316272.54	5461313.57	South Okanagan	Hatfield Island	Accessible	0
11	316276.79	5461318.33	South Okanagan	Hatfield Island	Accessible	6
11	316259.17	5461319.44	South Okanagan	Hatfield Island	Accessible	4
11	316275.66	5461322.90	South Okanagan	Hatfield Island	Accessible	0
11	316291.93	5461324.69	South Okanagan	Hatfield Island	Accessible	6
11	316245.13	5461327.88	South Okanagan	Hatfield Island	Accessible	9
11	316258.93	5461333.21	South Okanagan	Hatfield Island	Accessible	0
11	316280.00	5461346.31	South Okanagan	Hatfield Island	Accessible	8
11	316274.09	5461350.63	South Okanagan	Hatfield Island	Accessible	7
11	316244.04	5461353.14	South Okanagan	Hatfield Island	Accessible	6
11	316280.74	5461355.56	South Okanagan	Hatfield Island	Accessible	0

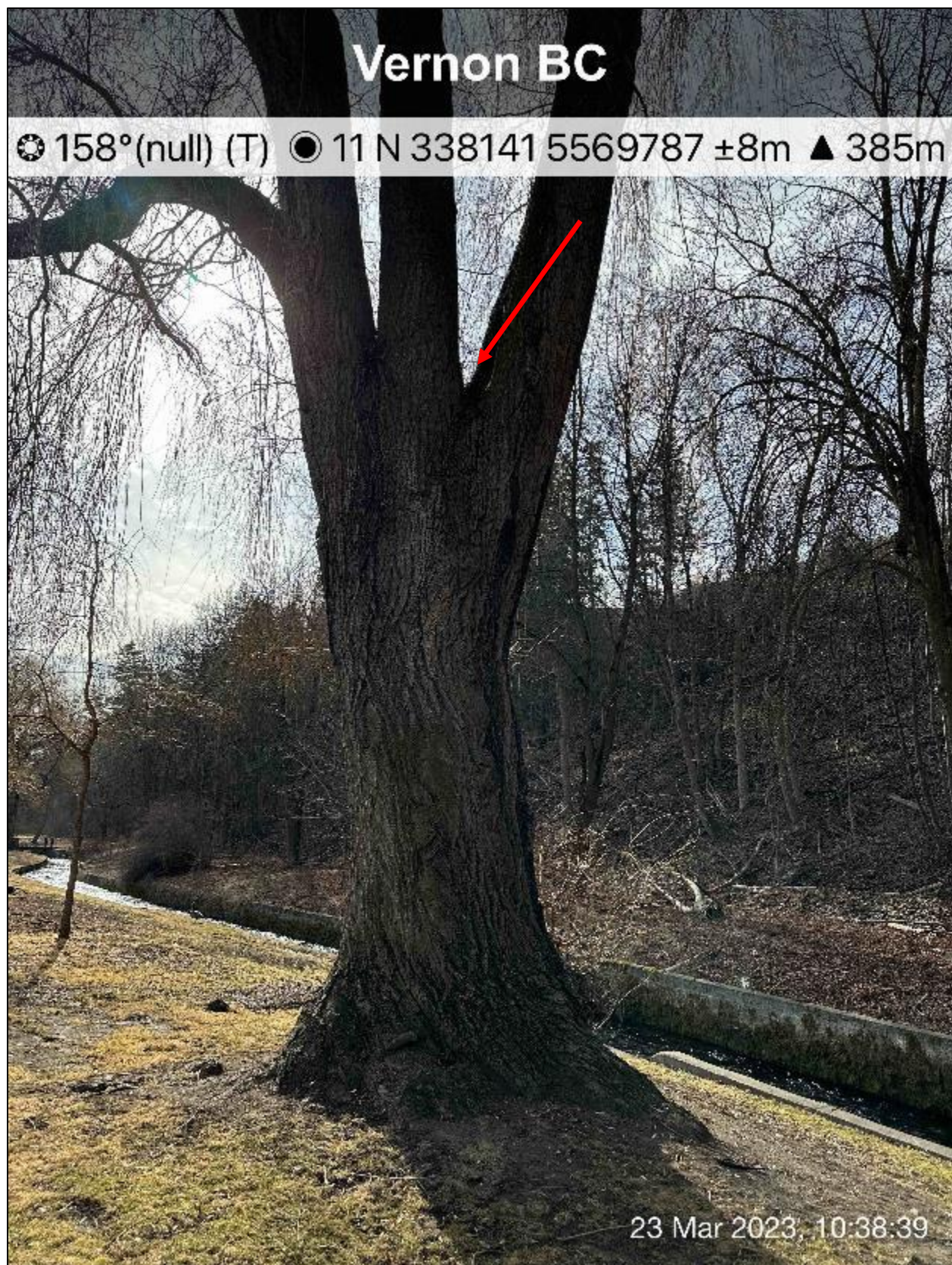
11	316233.85	5461364.40	South Okanagan	Hatfield Island	Accessible	5
11	316263.93	5461366.70	South Okanagan	Hatfield Island	Accessible	5
11	316266.06	5461384.53	South Okanagan	Hatfield Island	Accessible	8
11	316221.93	5461392.70	South Okanagan	Hatfield Island	Accessible	1
11	316248.11	5461397.50	South Okanagan	Hatfield Island	Accessible	6
11	316259.93	5461399.70	South Okanagan	Hatfield Island	Accessible	3
11	316225.41	5461410.75	South Okanagan	Hatfield Island	Accessible	5
11	316240.59	5461415.29	South Okanagan	Hatfield Island	Accessible	6
11	316228.56	5461419.34	South Okanagan	Hatfield Island	Accessible	0
11	316221.85	5461424.06	South Okanagan	Hatfield Island	Accessible	1
11	316203.93	5461429.71	South Okanagan	Hatfield Island	Accessible	2
11	316239.55	5461435.94	South Okanagan	Hatfield Island	Accessible	2
11	316199.93	5461436.71	South Okanagan	Hatfield Island	Accessible	3
11	316218.42	5461448.89	South Okanagan	Hatfield Island	Accessible	3
11	316216.87	5461454.76	South Okanagan	Hatfield Island	Accessible	0
11	316208.48	5461459.56	South Okanagan	Hatfield Island	Accessible	0
11	316252.93	5461459.71	South Okanagan	Hatfield Island	Accessible	6
11	316197.12	5461462.08	South Okanagan	Hatfield Island	Accessible	4
11	316185.74	5461471.60	South Okanagan	Hatfield Island	Accessible	6
11	316197.89	5461471.61	South Okanagan	Hatfield Island	Accessible	1
11	316222.98	5461482.76	South Okanagan	Hatfield Island	Accessible	0
11	316217.20	5461483.13	South Okanagan	Hatfield Island	Accessible	0
11	316191.67	5461490.03	South Okanagan	Hatfield Island	Accessible	4
11	316185.43	5461491.05	South Okanagan	Hatfield Island	Accessible	6
11	316176.93	5461495.31	South Okanagan	Hatfield Island	Accessible	3
11	316234.15	5461495.93	South Okanagan	Hatfield Island	Accessible	3
11	316210.68	5461496.53	South Okanagan	Hatfield Island	Accessible	6
11	316220.93	5461497.72	South Okanagan	Hatfield Island	Accessible	1
11	316234.85	5461500.88	South Okanagan	Hatfield Island	Accessible	1
11	316203.47	5461504.16	South Okanagan	Hatfield Island	Accessible	5
11	316185.13	5461504.36	South Okanagan	Hatfield Island	Accessible	5
11	316173.39	5461505.32	South Okanagan	Hatfield Island	Accessible	2
11	316189.80	5461513.83	South Okanagan	Hatfield Island	Accessible	5
11	316190.26	5461515.46	South Okanagan	Hatfield Island	Accessible	5
11	316221.51	5461520.18	South Okanagan	Hatfield Island	Accessible	0
11	316199.93	5461523.72	South Okanagan	Hatfield Island	Accessible	6
11	316205.54	5461524.16	South Okanagan	Hatfield Island	Accessible	2
11	316213.93	5461524.72	South Okanagan	Hatfield Island	Accessible	3
11	316192.83	5461525.49	South Okanagan	Hatfield Island	Accessible	4
11	316197.15	5461526.40	South Okanagan	Hatfield Island	Accessible	1
11	316175.22	5461526.85	South Okanagan	Hatfield Island	Accessible	4
11	316177.84	5461527.45	South Okanagan	Hatfield Island	Accessible	6
11	316170.78	5461527.46	South Okanagan	Hatfield Island	Accessible	5
11	316223.93	5461527.72	South Okanagan	Hatfield Island	Accessible	6
11	316160.94	5461534.72	South Okanagan	Hatfield Island	Accessible	3

11	316197.83	5461536.84	South Okanagan	Hatfield Island	Accessible	1
11	316210.93	5461540.72	South Okanagan	Hatfield Island	Accessible	5
11	316173.56	5461550.65	South Okanagan	Hatfield Island	Accessible	5
11	316180.16	5461556.31	South Okanagan	Hatfield Island	Accessible	4
11	316203.93	5461571.73	South Okanagan	Hatfield Island	Accessible	4
11	316170.94	5461590.73	South Okanagan	Hatfield Island	Accessible	3
11	312749.98	5462784.32	South Okanagan	Sleeping Waters	Accessible	5
11	315140.98	5464306.75	South Okanagan	Vaseaux Lake	Accessible	0
11	315059.91	5464418.90	South Okanagan	Vaseaux Lake	Accessible	0
11	315187.73	5464434.56	South Okanagan	Vaseaux Lake	Accessible	4
11	302164.25	5466710.93	South Okanagan	Twin Lakes	Accessible	4
11	302227.71	5467070.59	South Okanagan	Twin Lakes	Unauthorized	0
11	300134.00	5468388.00	South Okanagan	Yellow Lake	Inaccessible	0
11	299224.00	5468439.00	South Okanagan	Yellow Lake	Accessible	6
11	299258.00	5468459.00	South Okanagan	Yellow Lake	Accessible	2
11	299299.35	5468471.33	South Okanagan	Yellow Lake	Accessible	5
11	300135.00	5468554.00	South Okanagan	Yellow Lake	Accessible	4
11	300762.00	5468595.00	South Okanagan	Yellow Lake	Inaccessible	0
11	300675.96	5468681.80	South Okanagan	Yellow Lake	Accessible	5
11	300730.74	5468693.01	South Okanagan	Yellow Lake	Accessible	0
11	312593.50	5468938.76	South Okanagan	Okanagan Falls River	Accessible	7
11	301135.97	5468990.77	South Okanagan	Toy Lake	Accessible	6
11	300861.23	5469000.47	South Okanagan	Yellow Lake	Accessible	0
11	313155.26	5469385.40	South Okanagan	Christie Island	Accessible	5
11	313146.84	5469399.39	South Okanagan	Christie Island	Accessible	6
11	313164.26	5469404.40	South Okanagan	Christie Island	Accessible	6
11	313165.65	5469415.37	South Okanagan	Christie Island	Accessible	0
11	312839.92	5480845.42	South Okanagan	Skaha Marina	Accessible	0
11	312012.12	5482419.67	South Okanagan	Brandon Park	Accessible	0
11	312697.37	5486939.23	South Okanagan	Penticton Marina	Accessible	6
11	312728.41	5486939.34	South Okanagan	Penticton Marina	Accessible	6
11	312781.46	5486960.32	South Okanagan	Penticton Marina	Accessible	2
11	312875.57	5486987.42	South Okanagan	Penticton Marina	Accessible	3
11	312907.96	5486999.06	South Okanagan	Penticton Marina	Accessible	0

Nest Summary	Value
Minimum Clutch Size	0
Maximum Clutch Size	9
Mean Clutch Size	3.8
Total Number of Nests	123
Total Number of Addled Eggs	460

APPENDIX B

Select Project Photographs



North Okanagan (Polson Park, the nest is in the fork)



Kelowna—several years at this specific site



Any bowl can be a nest



Any bowl at all.