

# HARRISON BAY NEARSHORE FISH SURVEYS, 2018

Summary Report

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Prepared for  
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Prepared by  
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## **SUMMARY REPORT**

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## INTRODUCTION

ConocoPhillips, Alaska Inc. (CPAI) requested that ABR, Inc.—Environmental Research & Services (ABR) perform nearshore fish surveys in Harrison Bay, Alaska during 2018 (Figure 1). Harrison Bay is a shallow, estuarine environment located along the Beaufort Sea coastline that includes the Colville River delta and the outlets to several smaller rivers and creeks. The area supports diverse wildlife communities of birds, marine mammals, and nearshore fishes (Craig and Griffiths 1981, Craig et al. 1982, Schmidt et al. 1983, Craig 1984, Halderson and Craig 1984, Craig et al. 1985).

In recent years, several studies of nearshore and offshore fish assemblages have been conducted in the Chukchi and Beaufort seas of Arctic Alaska (Johnson et al. 2012, Rand and Logerwell 2011, Thedinga et al. 2013, De Robertis et al 2015, Logerwell et al. 2015, Sigler et al. 2016, Majewski et al. 2017). Based on the results of previous surveys of nearshore estuarine environments in the Arctic, it is clear that these waters provide important foraging habitat, proximity to shelter, and overwintering habitat for all life stages of fish present in the region (Craig et al. 1982, Craig 1984, Schmidt et al. 1983, Roux et al. 2016). For example, many fish species of the Alaskan Arctic coastal plain make annual foraging migrations from inland lakes and streams to nearshore waters each summer before returning to freshwater to overwinter (Craig 1984).

During August 2018, ABR performed a short survey to supplement our current understanding of fish assemblages in the nearshore environment of Harrison Bay, in an area west of Atigaru Point that is under consideration for development of onshore landing facilities.

The primary objectives of this effort were to:

- survey fish communities during summer 2018 using multiple survey methods;
- measure ambient water characteristics (temperature and salinity); and
- mark individual adult/sub-adult anadromous fish with unique tags.

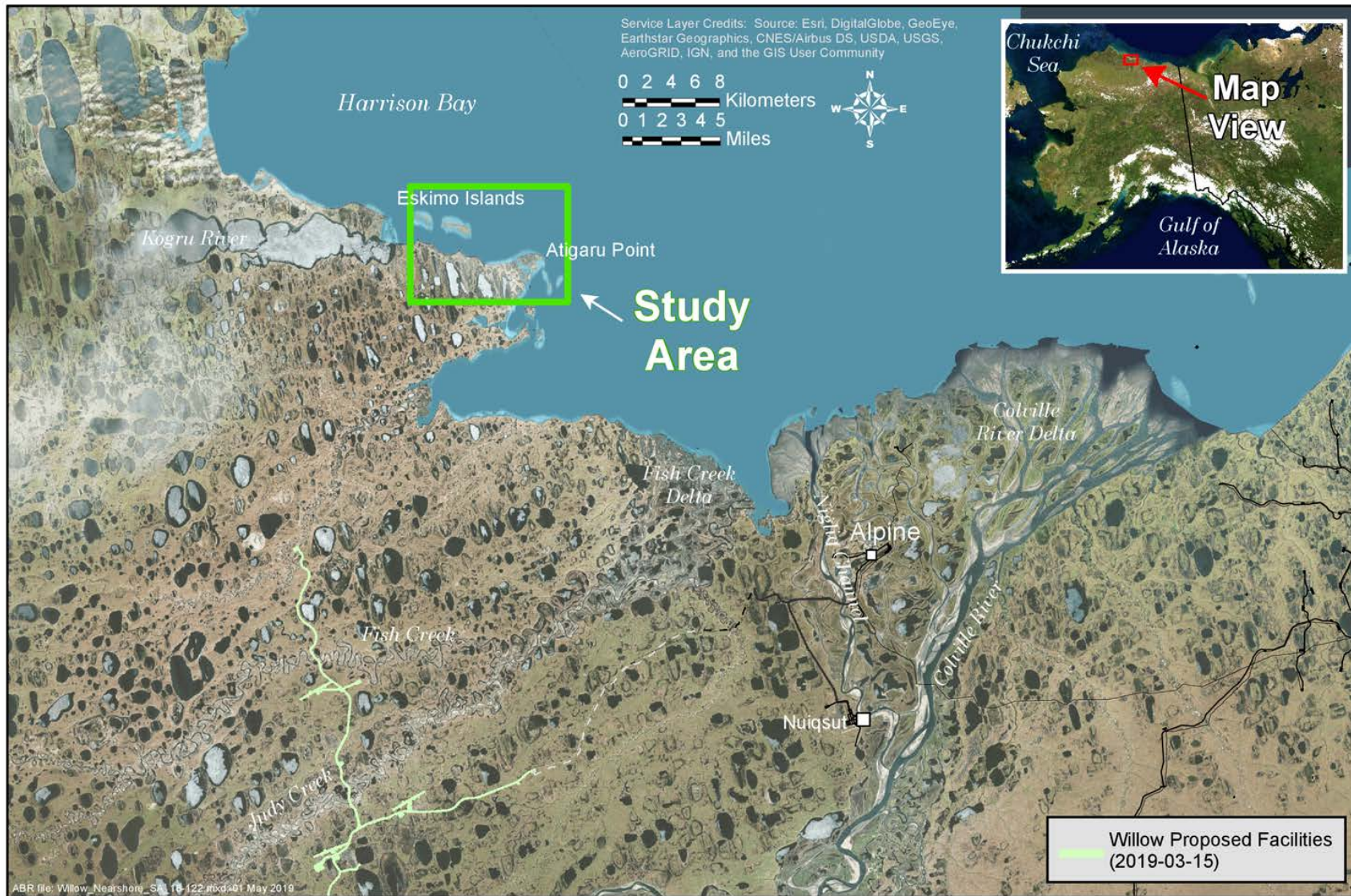


Figure 1. Study area for fish surveys in nearshore waters of Harrison Bay, Alaska, 2018.

Data from the fish surveys are summarized here to provide a description of the fish community. Future recaptures of tagged fish will provide information about movements and fish growth during the period between tagging and recapture. All sampling was conducted under Alaska Department of Fish & Game permit (CF-18-103).

## METHODS

### SUMMER FISH SURVEYS

A team of two ABR biologists conducted nearshore surveys near Atigraru Point in Harrison Bay (Figure 2) during 3–7 August 2018. The team was based at CPAI Alpine camp and accessed the study area daily using an Airbus H125 operated by Soloy Helicopters, LLC. On 3 August, the crew flew to locations within and near the Kogru River and Atigaru Point to select waters appropriate for both seine and fyke net surveys. The criteria for site selection included small embayments protected from prevailing winds, unique nearby hydraulic features (e.g., creek outflow or tapped lakes), and firm substrate (e.g., a solid mix of sand, mud, and peat). Additionally, we attempted to sample near locations where short surveys were conducted at the Eskimo Islands in the late 1970s (Schmidt et al. 1983). After selecting a site that could accommodate several seine net hauls and at least 2 fyke net sets, the team returned for sampling work on 4–7 August.

On 4 August, we performed 10 seine net hauls southwest of Eskimo Island at Atigaru Point; seine hauls were 50–60 m long and in waters ~0.5 m deep. We used a 6.4 mm mesh net that was 1.5-m deep and approximately 33-m long. One shore-based person held one end of the net while the other person waded offshore from the beach, extended the net perpendicular to shore. The net was dragged parallel to shore approximately 50 m and then arced toward shore. Upon recovery of the net, fish were placed in small buckets or totes. All captured fish were identified to species, measured, and enumerated before returning the fish to water alive (see *Fish Processing* below). After one day of seine efforts, the team determined that seining was ineffective due the presence of excess large woody debris and other smaller organic matter clogging the net. The rest of the sampling was conducted using fyke nets.

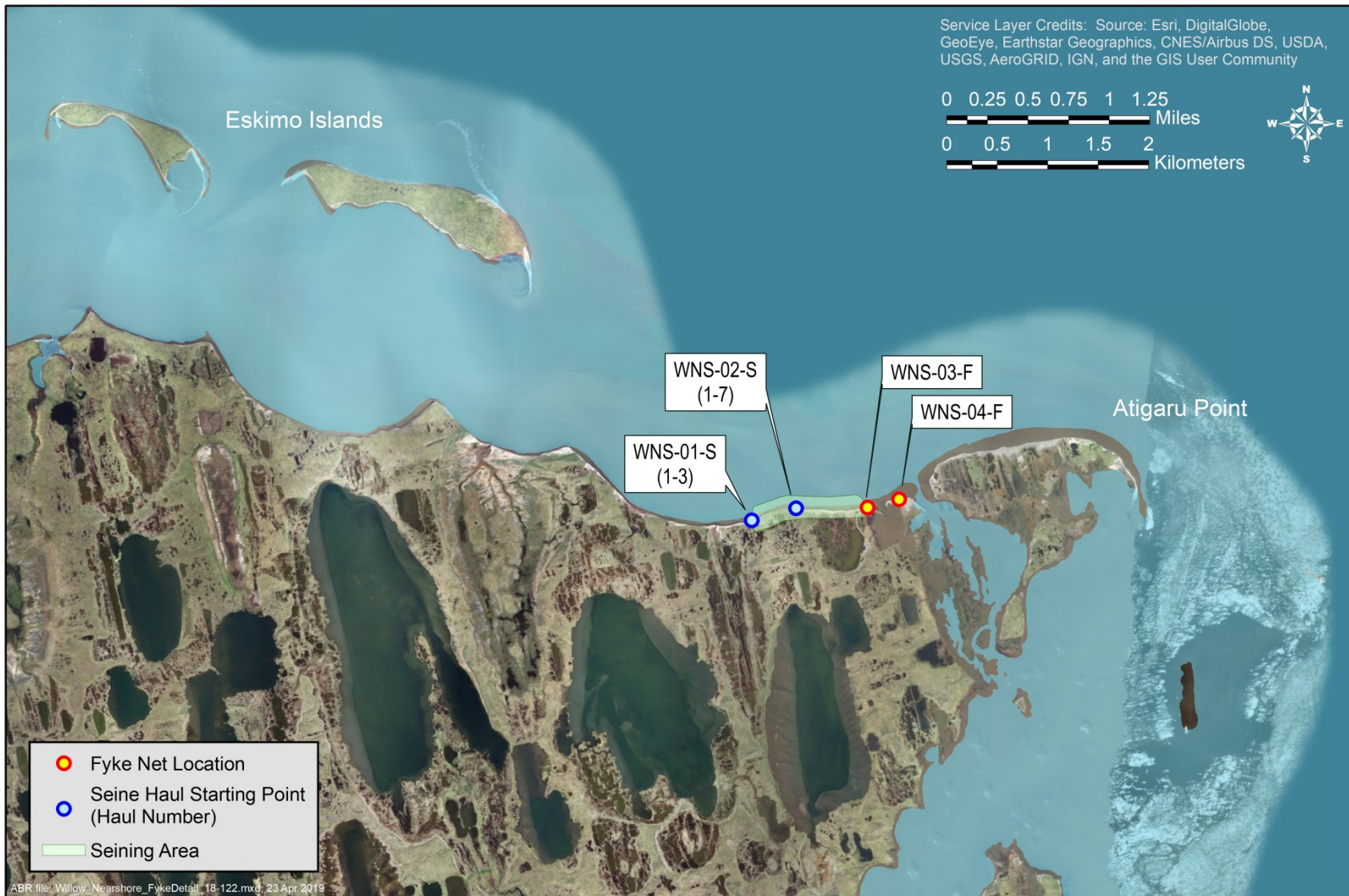


Figure 2. Sample site locations for fyke net and beach seine sampling in nearshore waters of Harrison Bay, Alaska, 2018.



The two fyke nets were set up on 5 May and fished continuously from 5–7 May with 1–2 net-checks daily. Fyke nets with a 1-m<sup>2</sup> opening were staked in shallow waters facing the beach with a center lead and two wing nets. The center lead extended perpendicular to the shoreline for approximately 30 meters from the net opening to shore. Wings extended at a 45 degree angle to the center lead for 20–25 meters from the net frame edge. The wings helped direct shoreline fish toward the square opening and into the net's cod end. Fyke nets were set at fixed locations in semi-protected shallow waters, with one on either side of a tapped lake system (Figure 2). The eastern-most net was located in an area of recently eroded/inundated mainland at Atigaru Point which now forms a shortcut from one side of the point to the other and which we suspected may provide fish passage. We measured temperature and salinity at each site on each day using a YSI Professional Plus meter.

## FISH PROCESSING

For seine surveys described above, fish were sorted from invertebrates and debris and then enumerated by species. Subsets of captured fish were laid flat on a measuring board and we recorded fork length for species with forked tails (e.g., Least Cisco, *Coregonus sardinella*) or total length for other species (e.g., Arctic Flounder, *Liopsetta glacialis*). Fish were allowed to recover in buckets of fresh sea-water before being returned to Harrison Bay alive. Fyke net catches were processed similar to seine nets, except that most fish were measured at the net-opening area after being removed from the cod-end and placed in a floating-pen. Once processed, these fish were released well behind the cod-end, away from shore, to reduce the probability of immediate recapture. Voucher specimens were collected for a few species to aid in confirming species identification. These were placed in 70% formalin for fixing and transported to the ABR laboratory in Anchorage.

For a sub-set of large, anadromous fish (e.g., > 200 mm whitefish) we installed floy t-bar tags (Floy Tag & Mfg., Inc.) dorsally. Each tag measured 7 mm total length and was fitted with a t-bar base perpendicular to the main axis of the tag. The tags were surgically installed using a Mark-II scissor grip fish-tagger, sub-dermally, on the left-side dorsal region of each individual, between the base of the posterior two dorsal rays. Each tag is printed with a unique ID code and contact information (e.g., 0001 ABR, Inc. 907-344-6777). These tagged fish may be recaptured

by researchers or subsistence fishers. A \$10 reward is offered for any returned fish or fish tag data, including the capture location, method, ID code, photos, and fish length. Recaptured fish will be re-measured and photographed. If recaptured by researchers, the fish will be returned alive to the water following recording of information detailed above. If caught during subsistence activities, the fish may be photographed, measured and ultimately consumed. Returned tag data provide additional information about migratory behavior and fish growth during the period between tagging and recapture.

## RESULTS AND DISCUSSION

The original scope of work proposed an effort based in Nuiqsut, Alaska, approximately 14 river miles upstream from the outlet of the Nigliq Channel, in the western-most drainage of the Colville River delta. The purpose of a Nuiqsut-based study was to investigate the practicality of a boat-based survey from an established nearby village and to include local fishers in the sampling effort. The team attempted to reach the study area from Nuiqsut by boat during the first 3 days of the survey period. However, the boat-driver that we had previously identified for our team determined that his boat was insufficient for the weather projected for the survey period. We quickly hired a second boat-driver with a boat sufficient for nearshore marine travel and made one attempt to transit from Nuiqsut to the survey area. Weather conditions at the mouth of the Colville River caused us to turn back on day 3. After factoring in the likely daily transit time for good weather conditions (3–4 hours each way), we decided that the daily transit was not efficiently feasible due to both time and safety concerns. The plan was abandoned in favor of a helicopter supported effort from the nearby CPAI development at Alpine.

During the 10 seine hauls (50–60 m distance), only 21 fish of 5 species were caught: 8 Fourhorn Sculpin (*Myoxocephalus quadricornis*), 7 Humpback Whitefish (*Coregonus pidschian*), 3 Arctic Flounder, 2 Arctic Cisco (*Coregonus autumnalis*), and 1 Least Cisco (Table 1, Figure 2). Conditions were inadequate for successful seine hauls due primarily to the presence of dense debris fields in the very shallow nearshore sites chosen. In addition to a large amount of medium to large woody drift debris, there were also small (< 5cm diameter) woody debris and sod clumps, all of which clogged or snagged the net during seining.

Fyke net sampling was much more efficient because the net fishes passively and does not accumulate debris. During 3 days of fyke net surveys, a total of 5 net sets were sampled (Table 1). These sets represent fishing periods from 4 h 20 min to 23 h 35 min long. A total of 2,015 fish comprising 9 species were harvested (Table 1). The three most abundant species were Arctic Flounder composing 61% of the catch, Arctic Cisco (20% of catch) and Least Cisco (10% of catch). Other species included Fourhorn Sculpin, Humpback Whitefish, Broad Whitefish (*Coregonus nasus*), Arctic Cod (*Boreogadus saida*), Threespine Stickleback (*Gasterosteus aculeatus*), Rainbow Smelt (*Osmerus mordax*), Round Whitefish (*Prosopium cylindraceum*), and Dolly Varden (*Salvelinus malma*), with contributions of >3% of total catch each.

A total of 2,036 fish of 11 species were caught during seine and fyke net surveys combined (Figure 3). Arctic Flounder were the most abundant species in 4 of 5 fyke net sets, with the western-most fyke net (WNS-03-F; Figure 2) accounting for 1,039 of the total harvest of 1,226 Arctic Flounder during 2 sets on 6–7 August. The shallow, semiprotected nearshore waters of Harrison Bay are apparently an ideal habitat for Arctic Flounder (Mecklenburg et al. 2002). Additionally, Least Cisco were caught during each fyke net set. This is not surprising in that many of the *Coregonid* species use shallow, nearshore brackish waters during summer months (Craig 1984). Juvenile (Age-1) Arctic Cisco were found in large numbers during the survey period, representing a stock of fish which appear as adults (Age-5+) in the nearby Colville River adult Arctic Cisco (Moulton et al. 2010, Seigle et al. 2019).

The survey area encompasses very shallow waters (0.5-m depth or less). The survey team walked multiple transects up to 100 m perpendicular from the shoreline and water remained < 1m. Despite the shallow-water conditions, the nearshore environment west of Atigaru Point appears to be densely populated by small, mostly brackish water species common to other areas of the Beaufort and Chukchi Sea coastlines. These shallow waters between the nearby barrier Eskimo Islands and Atigaru Point appear to provide ample appropriate rearing/foraging habitat for juvenile flatfish and whitefish, and Fourhorn Sculpin. Arctic Cisco (95–381 mm; mean = 121.0 mm; 95% CI =  $\pm 1.7$  mm), Least Cisco (98 mm–336 mm; mean = 158.9 mm; 95% CI =  $\pm 5.9$  mm), Broad Whitefish (138–371 mm; mean = 189.2 mm; 95% CI =  $\pm 16.0$  mm), and Arctic Flounder (53–229 mm; mean = 174.5 mm; 95% CI = 3.4 mm) catch was primarily represented

Table 1. Summary of fish collections by event during fyke net and beach seine sampling in nearshore waters of Harrison Bay, Alaska, 2018.

Net Date Event code/Site name	Fishing Time (hrs)	Arctic Cisco	Least Cisco	Humpback Whitefish	Broad Whitefish	Round Whitefish	Arctic Flounder	Fourhorn Sculpin	Dolly Varden	Threespine Stickleback	Rainbow Smelt	Arctic Cod
Seine												
August 4												
18001/WNS-01-S		0	0	0	-	-	0	0	-	-	-	-
18002/WNS-01-S		0	0	0	-	-	0	0	-	-	-	-
18003/WNS-01-S		0	0	0	-	-	0	0	-	-	-	-
18004/WNS-02-S		0	0	0	-	-	0	0	-	-	-	-
18005/WNS-02-S		1	0	0	-	-	0	0	-	-	-	-
18006/WNS-02-S		0	0	0	-	-	0	1	-	-	-	-
18007/WNS-02-S		0	0	0	-	-	1	6	-	-	-	-
18008/WNS-02-S		0	1	0	-	-	1	1	-	-	-	-
18009/WNS-02-S		0	0	5	-	-	1	0	-	-	-	-
18010/WNS-02-S		1	0	2	-	-	0	0	-	-	-	-
Fyke												
August 5												
18011/WNS-03-F	4:20	7	22	2	-	3	59	-	-	1	-	-
August 6												
18013/WNS-03-F	21:10	152	74	17	26	-	539	19	1	5	-	-
18012/WNS-04-F	23:35	204	72	12	4	3	38	2	-	-	1	-
August 7												
18014/WNS-03-F	17:55	16	14	1	3	-	500	23	-	2	4	4
18015/WNS-04-F	19:40	29	23	1	1	-	87	12	-	3	3	26
Total		410	206	40	34	6	1226	64	1	11	8	30
Percent of Total		20.1	10.1	2.0	1.7	0.3	60.2	3.1	0.0	0.5	0.4	1.5

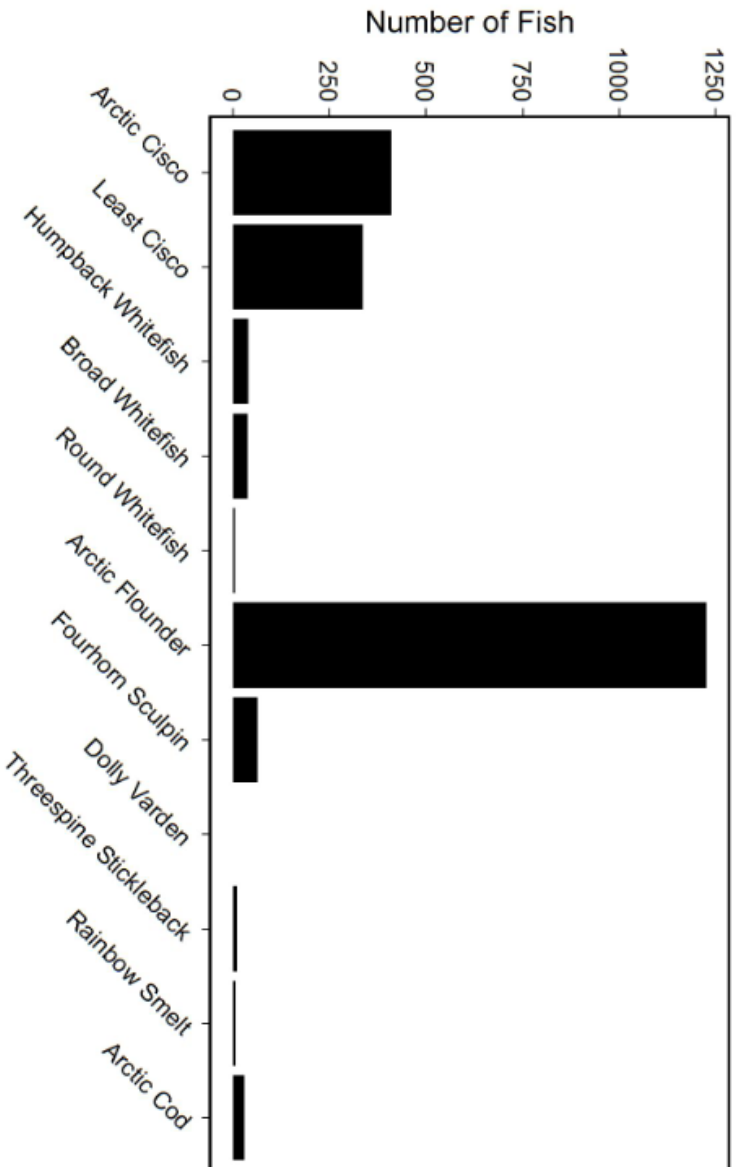


Figure 3. Number of fish caught by species during fyke net and beach seine sampling in nearshore waters of Harrison Bay, Alaska, 2018.

by immature juveniles (Figures 4 and 5). However, it is notable that most of the catch for another anadromous whitefish, Humpback Whitefish (140–394 mm; mean = 302.5 mm; 95% CI =  $\pm 22.5$  mm), were mature or nearly mature in size. Humpback Whitefish represent over half (26 of 49) of adult-sized fish that were tagged and released during surveys (Appendix A). Other species tagged included 15 Least Cisco, 7 Broad Whitefish, and 1 Arctic Cisco. Fourhorn Sculpin (66–310 mm; mean = 176.7 mm; 95% CI =  $\pm 13.7$  mm) were evenly distributed between juveniles and adults, while the entirety of the Arctic Cod (66–173 mm; mean = 90.5 mm, 95% CI =  $\pm 7.9$  mm) catch (7 August) was represented by juveniles.

Interestingly, a single large Dolly Varden (430 mm) was captured in one of the fyke nets (6 August, WNS-03-F), indicating that the area is also a shallow water feeding ground for adult piscivorous salmonids (Table 1). It is also likely that adults from other fish species (e.g., Pacific salmon) forage in these waters, depending on changing water level conditions (e.g., wind and

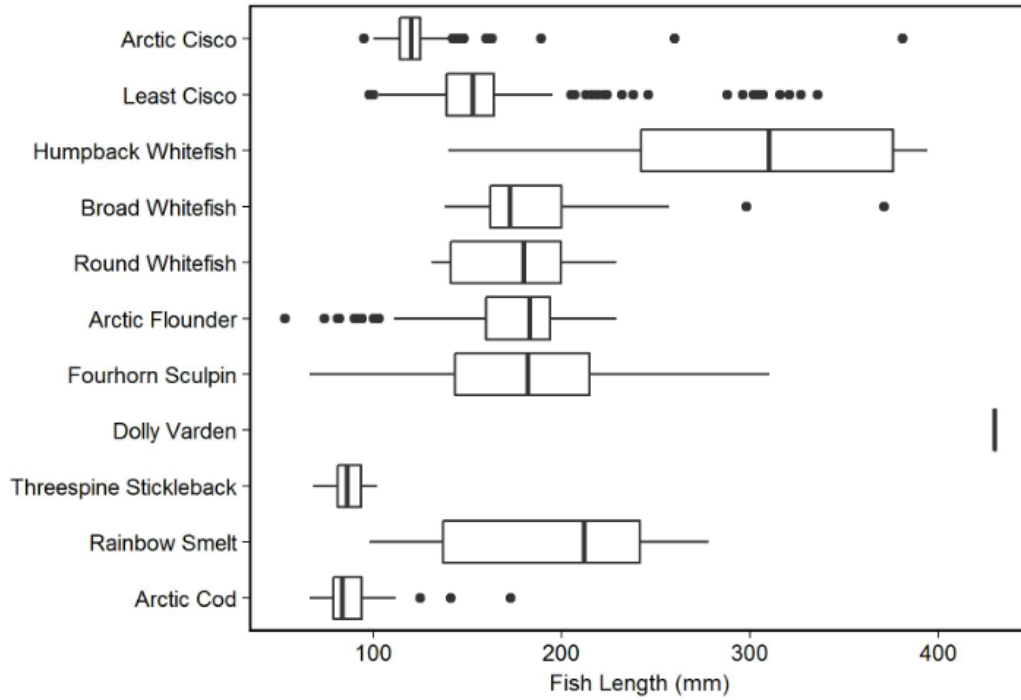


Figure 4. Length distribution for 11 species of fish captured during fyke net and beach seine sampling in nearshore waters of Harrison Bay, Alaska, 2018.

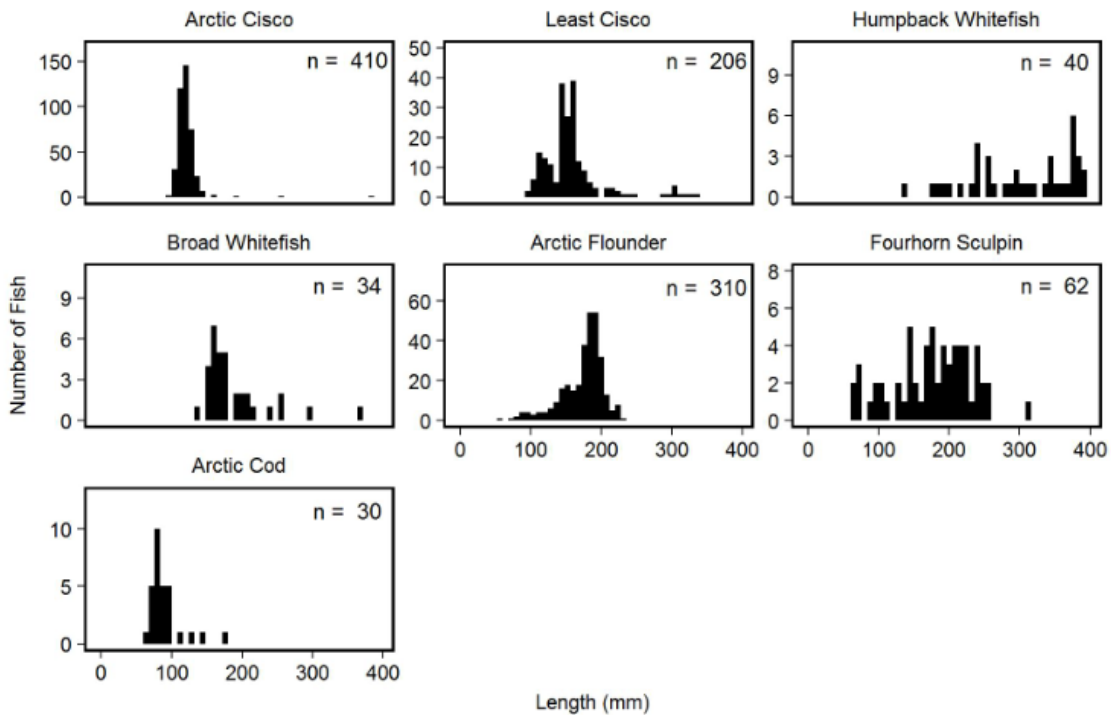


Figure 5. Length frequency distribution for seven species of fish captured during fyke net and beach seine surveys in nearshore waters of Harrison Bay, Alaska, 2018.

tide induced increases in nearshore water depth). The survey team was unable to sample the slightly deeper waters adjacent to the nearby Eskimo Islands where adult salmonids/whitefish were common during surveys conducted decades earlier (Schmidt et al. 1983).

During the survey period, water temperatures varied only slightly near Atigaru Point. Temperatures ranged from 5.3 °C on 4 August to 7.3 °C on 6 August; the temperature dropped to 6 °C on 7 August (Figure 6, Appendix B). Conditions were cloudy with minimal wind during sampling 4–5 August, however a slight north-northeast wind at the end of 6 August increased water levels by approximately 0.25 m. Salinity doubled from 7.2 ppt on 4 August to 14.4 ppt on 7 August (Figure 6, Appendix B). During the low-salinity period of fish sampling, we captured a handful of the salt-intolerant Round Whitefish in our fyke nets. The increase in salinity thereafter may have been sufficient to provide appropriate osmotic conditions for the more salt-tolerant Arctic Cod which appeared on the final day of sampling.

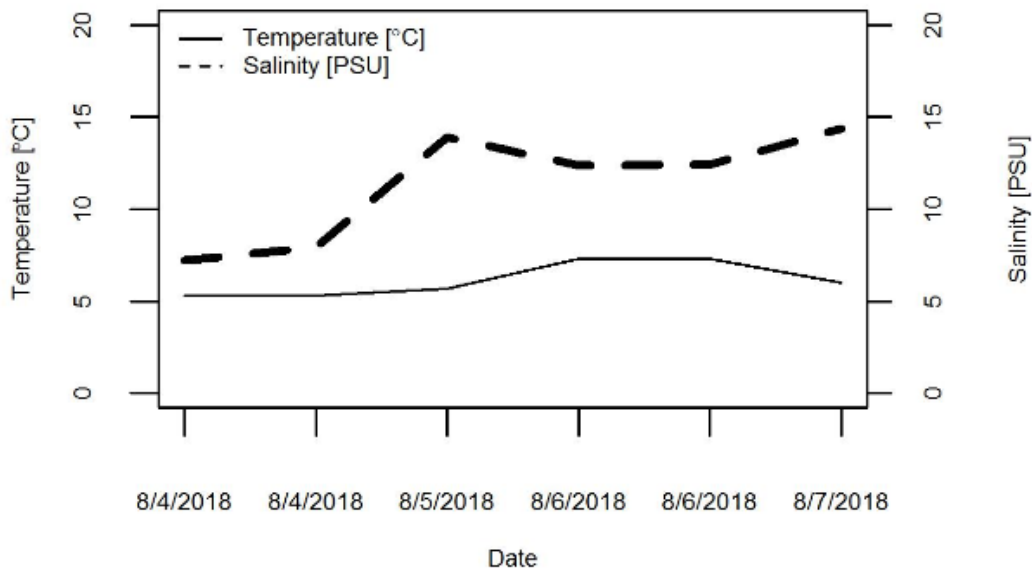


Figure 6. Water temperature and salinity measured at fish sampling sites in nearshore waters of Harrison Bay, Alaska, 2018.

## SUMMARY

Our survey represents a summary of summer fish assemblages near Atigaru Point. The community composition was dominated by Arctic Flounder and whitefish, which was consistent with predictions based on previous studies. All 11 species captured are common in the nearshore Beaufort Sea coastal region. Catch composition was dominated by juvenile forms of most species, although a handful of adult whitefish and a single Dolly Varden adult were encountered. This shallow bay provides habitat for rearing and foraging fish of the region. Winds can have a strong effect on currents and water characteristics during any given time period. This may result in localized, temporary, but significant variations in water salinity and temperature over short time periods. During these events, fish assemblages may change with salt tolerant species such as Arctic Cod moving nearshore as salinity increases or freshwater tolerant species such as Round Whitefish moving in from freshwater environments as salinity declines.

During our effort to survey fish assemblages in shallow nearshore waters of Harrison Bay and Atigaru Point, we gathered information that will assist in planning potential future surveys. These surveys will require a coastal camp with boat access or could be accessed via helicopter from bases at Nuiqsut or oilfield camps. Unpredictable wind/wave conditions in Harrison Bay make direct boat access from these bases a severe logistical challenge. While there are likely several locations nearby which are suitable for seine net surveys, the area around Atigaru Point was unsuitable for seining in early August 2018 due to large quantities of organic debris. The calm and shallow waters during our survey period were instead ideal for fyke net surveys. It should be noted that we experienced not only favorable substrate conditions, but also ideal low-wind and wave conditions. Future fyke net surveys may experience more difficulty as the area is only slightly protected from predominant easterly winds.



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Appendix A. Harvest summary by site and date for fish captured during fyke net and beach seine sampling in nearshore waters of Harrison Bay, Alaska, 2018. All species were identified and released unless other noted.

Site Name	Latitude	Longitude	Date	Collection Method	Species	Length (mm)	Length Method	Floy Tag ID
WNS-02-S	70.54795	-151.80553	8/4/2018	Seine	Arctic Cisco	119	Fork	
WNS-02-S	70.54795	-151.80553	8/4/2018	Seine	Fourhorn Sculpin	224	Total	
WNS-02-S	70.54795	-151.80553	8/4/2018	Seine	Fourhorn Sculpin	95	Total	
WNS-02-S	70.54795	-151.80553	8/4/2018	Seine	Fourhorn Sculpin	72	Total	
WNS-02-S	70.54795	-151.80553	8/4/2018	Seine	Fourhorn Sculpin	71	Total	
WNS-02-S	70.54795	-151.80553	8/4/2018	Seine	Fourhorn Sculpin	68	Total	
WNS-02-S	70.54795	-151.80553	8/4/2018	Seine	Fourhorn Sculpin	66	Total	
WNS-02-S	70.54795	-151.80553	8/4/2018	Seine	Arctic Flounder	195	Total	
WNS-02-S	70.54795	-151.80553	8/4/2018	Seine	Least Cisco	144	Fork	
WNS-02-S	70.54795	-151.80553	8/4/2018	Seine	Arctic Flounder	152	Total	
WNS-02-S	70.54795	-151.80553	8/4/2018	Seine	Humpback Whitefish	355	Fork	
WNS-02-S	70.54795	-151.80553	8/4/2018	Seine	Humpback Whitefish	315	Fork	
WNS-02-S	70.54795	-151.80553	8/4/2018	Seine	Humpback Whitefish	382	Fork	
WNS-02-S	70.54795	-151.80553	8/4/2018	Seine	Humpback Whitefish	394	Fork	
WNS-02-S	70.54795	-151.80553	8/4/2018	Seine	Humpback Whitefish	377	Fork	
WNS-02-S	70.54795	-151.80553	8/4/2018	Seine	Arctic Flounder	193	Total	
WNS-02-S	70.54795	-151.80553	8/4/2018	Seine	Arctic Cisco	381	Fork	
WNS-02-S	70.54795	-151.80553	8/4/2018	Seine	Humpback Whitefish	394	Fork	
WNS-02-S	70.54795	-151.80553	8/4/2018	Seine	Humpback Whitefish	347	Fork	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Least Cisco	238	Fork	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Arctic Flounder	196	Total	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Arctic Flounder	182	Total	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Arctic Flounder	140	Total	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Arctic Flounder	210	Total	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Arctic Flounder	185	Total	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Least Cisco	194	Fork	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Round Whitefish	162	Fork	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Arctic Cisco	133	Fork	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Least Cisco	161	Fork	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Humpback Whitefish	179	Fork	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Least Cisco	186	Fork	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Arctic Flounder	208	Total	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Arctic Flounder	120	Total	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Arctic Flounder	227	Total	

Appendix A. Continued.

Site Name	Latitude	Longitude	Date	Collection Method	Species	Length (mm)	Length Method	Floy Tag ID
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Arctic Flounder	170	Total	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Arctic Flounder	188	Total	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Arctic Flounder	185	Total	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Arctic Flounder	166	Total	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Arctic Flounder	187	Total	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Arctic Flounder	201	Total	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Arctic Flounder	189	Total	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Arctic Flounder	146	Total	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Arctic Flounder	167	Total	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Arctic Flounder	195	Total	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Arctic Cisco	133	Fork	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Arctic Flounder	189	Total	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Arctic Flounder	144	Total	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Arctic Flounder	192	Total	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Arctic Flounder	177	Total	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Arctic Flounder	174	Total	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Arctic Flounder	178	Total	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Arctic Flounder	130	Total	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Arctic Flounder	151	Total	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Arctic Flounder	202	Total	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Arctic Flounder	153	Total	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Arctic Flounder	91	Total	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Arctic Flounder	144	Total	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Least Cisco	232	Fork	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Round Whitefish	229	Fork	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Least Cisco	207	Fork	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Least Cisco	153	Fork	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Round Whitefish	198	Fork	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Least Cisco	157	Fork	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Least Cisco	160	Fork	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Least Cisco	174	Fork	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Least Cisco	160	Fork	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Arctic Flounder	190	Total	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Arctic Flounder	177	Total	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Arctic Flounder	198	Total	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Arctic Flounder	193	Total	

## Appendix A. Continued.

Site Name	Latitude	Longitude	Date	Collection Method	Species	Length (mm)	Length Method	Floy Tag ID
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Arctic Flounder	188	Total	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Arctic Flounder	221	Total	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Least Cisco	148	Fork	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Least Cisco	143	Fork	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Least Cisco	158	Fork	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Least Cisco	157	Fork	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Least Cisco	162	Fork	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Humpback Whitefish	182	Fork	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Arctic Cisco	142	Fork	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Arctic Cisco	131	Fork	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Arctic Flounder	168	Total	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Arctic Flounder	184	Total	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Arctic Flounder	186	Total	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Arctic Flounder	211	Total	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Arctic Flounder	140	Total	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Arctic Flounder	179	Total	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Arctic Flounder	118	Total	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Arctic Flounder	152	Total	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Arctic Flounder	183	Total	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Arctic Flounder	136	Total	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Arctic Flounder	193	Total	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Arctic Flounder	138	Total	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Arctic Flounder	157	Total	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Arctic Flounder	164	Total	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Arctic Cisco	143	Fork	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Least Cisco	141	Fork	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Least Cisco	169	Fork	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Least Cisco	188	Fork	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Least Cisco	186	Fork	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Least Cisco	163	Fork	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Arctic Cisco	134	Fork	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Least Cisco	141	Fork	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Arctic Cisco	134	Fork	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Arctic Flounder	138	Total	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Arctic Flounder	174	Total	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Arctic Flounder	190	Total	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Arctic Flounder	133	Total	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Arctic Flounder	146	Total	

## Appendix A. Continued.

Site Name	Latitude	Longitude	Date	Collection Method	Species	Length (mm)	Length Method	Floy Tag ID
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Arctic Flounder	171	Total	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Arctic Flounder	184	Total	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Arctic Flounder	81	Total	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Arctic Flounder	101	Total	
WNS-03-F	70.54939	-151.7748	8/5/2018	Fyke Net	Threespine Stickleback	94	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	170	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	127	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	151	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	176	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	226	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	194	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	210	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	181	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	194	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	179	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	146	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	174	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	198	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	195	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	175	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	226	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	180	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	186	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	188	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	189	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	113	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	178	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	186	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	164	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	217	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	210	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	201	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	207	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	177	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	202	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	165	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	160	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	200	Total	

## Appendix A. Continued.

Site Name	Latitude	Longitude	Date	Collection Method	Species	Length (mm)	Length Method	Floy Tag ID
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	101	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	192	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	193	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	156	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	169	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	184	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	165	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	145	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	142	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	198	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	185	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	143	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	189	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	188	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	206	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	198	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	187	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	221	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	196	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	197	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	193	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	200	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	150	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	183	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	178	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	184	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	178	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	187	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	196	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	197	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	183	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	94	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	186	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	147	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	197	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	115	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	166	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	210	Total	

## Appendix A. Continued.

Site Name	Latitude	Longitude	Date	Collection Method	Species	Length (mm)	Length Method	Floy Tag ID
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	190	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	161	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	170	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	194	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	176	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	192	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	160	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	134	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	156	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	172	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	74	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	185	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	186	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	189	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	194	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	146	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	195	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	221	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	184	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	167	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	200	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	195	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	154	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	198	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	199	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	217	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	200	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	190	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	187	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	177	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	200	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	193	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	211	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	220	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	184	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	203	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	145	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	186	Total	



## Appendix A. Continued.

Site Name	Latitude	Longitude	Date	Collection Method	Species	Length (mm)	Length Method	Floy Tag ID
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	183	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	182	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	184	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	192	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	182	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	194	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	183	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	200	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	111	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	201	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	178	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	161	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	214	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	196	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	154	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	127	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	186	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	207	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	200	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	154	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	207	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	175	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	138	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	144	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	204	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	188	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	153	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	175	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	192	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	176	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	198	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	188	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	180	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	144	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	186	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	145	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	140	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	93	Total	

## Appendix A. Continued.

Site Name	Latitude	Longitude	Date	Collection Method	Species	Length (mm)	Length Method	Floy Tag ID
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	194	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	180	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	179	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	195	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	175	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	183	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	224	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	141	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	190	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	180	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	182	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	202	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	182	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	178	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	194	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	176	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	218	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	194	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	160	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	155	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	197	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	224	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	179	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	93	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	184	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	183	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	154	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	163	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	187	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	131	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	154	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	155	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	146	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	154	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	200	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	178	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	160	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	180	Total	

## Appendix A. Continued.

Site Name	Latitude	Longitude	Date	Collection Method	Species	Length (mm)	Length Method	Floy Tag ID
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	190	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	167	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	184	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	198	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	193	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	202	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	124	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	192	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	184	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	189	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	192	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	183	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	198	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	206	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	157	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	173	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	186	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	202	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	166	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	172	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	188	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder	193	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Least Cisco	136	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Least Cisco	162	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Least Cisco	115	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Least Cisco	116	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Least Cisco	129	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Least Cisco	113	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Least Cisco	111	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Least Cisco	163	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Least Cisco	147	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Least Cisco	124	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Least Cisco	130	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Least Cisco	111	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Least Cisco	144	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Least Cisco	106	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Least Cisco	107	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Least Cisco	172	Fork	

## Appendix A. Continued.

Site Name	Latitude	Longitude	Date	Collection Method	Species	Length (mm)	Length Method	Floy Tag ID
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Least Cisco	116	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Least Cisco	151	Fork	ABR 0151
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Least Cisco	288	Fork	ABR 0160
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Least Cisco	166	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Least Cisco	171	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Least Cisco	124	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Least Cisco	110	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Least Cisco	146	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Least Cisco	171	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Least Cisco	129	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Least Cisco	154	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Least Cisco	151	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	129	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	119	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	108	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	120	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	131	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	118	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	123	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	101	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	121	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	122	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	108	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	128	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	129	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	107	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	113	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	121	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	114	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	126	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	119	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	113	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	130	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	129	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	111	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	111	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	113	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	116	Fork	

## Appendix A. Continued.

Site Name	Latitude	Longitude	Date	Collection Method	Species	Length (mm)	Length Method	Floy Tag ID
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	134	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	124	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	126	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	126	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	126	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	120	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	103	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	124	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	110	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	113	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	139	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	119	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	115	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	118	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	128	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	121	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	116	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	117	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	111	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	114	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	115	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	112	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	111	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	126	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	123	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	121	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Threespine Stickleback	78	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Threespine Stickleback	86	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Threespine Stickleback	102	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Threespine Stickleback	87	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Threespine Stickleback	81	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Broad Whitefish	176	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Broad Whitefish	157	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Broad Whitefish	161	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Broad Whitefish	197	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Broad Whitefish	151	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Broad Whitefish	167	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Broad Whitefish	174	Fork	

## Appendix A. Continued.

Site Name	Latitude	Longitude	Date	Collection Method	Species	Length (mm)	Length Method	Floy Tag ID
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Broad Whitefish	166	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Broad Whitefish	154	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Broad Whitefish	165	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Broad Whitefish	171	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Broad Whitefish	191	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Broad Whitefish	138	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Broad Whitefish	371	Fork	ABR 0172
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Broad Whitefish	257	Fork	ABR 0174
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Broad Whitefish	298	Fork	ABR 0104
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Broad Whitefish	176	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Broad Whitefish	163	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Broad Whitefish	162	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Broad Whitefish	149	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Broad Whitefish	176	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Broad Whitefish	201	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Broad Whitefish	163	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Broad Whitefish	253	Fork	ABR 0115
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Broad Whitefish	242	Fork	ABR 0116
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Broad Whitefish	220	Fork	ABR 0117
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Humpback Whitefish	243	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Humpback Whitefish	260	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Humpback Whitefish	386	Fork	ABR 0156
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Humpback Whitefish	338	Fork	ABR 0157
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Humpback Whitefish	347	Fork	ABR 0159
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Humpback Whitefish	386	Fork	ABR 0161
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Humpback Whitefish	291	Fork	ABR 0162
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Humpback Whitefish	371	Fork	ABR 0163
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Humpback Whitefish	239	Fork	ABR 0164
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Humpback Whitefish	240	Fork	ABR 0166
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Humpback Whitefish	378	Fork	ABR 0170
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Humpback Whitefish	280	Fork	ABR 0173
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Humpback Whitefish	342	Fork	ABR 0175
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Humpback Whitefish	305	Fork	ABR 0105
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Humpback Whitefish	376	Fork	ABR 0106
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Humpback Whitefish	255	Fork	ABR 0111
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Humpback Whitefish	376	Fork	ABR 0113
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Fourhorn Sculpin	176	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Fourhorn Sculpin	178	Total	

## Appendix A. Continued.

Site Name	Latitude	Longitude	Date	Collection Method	Species	Length (mm)	Length Method	Floy Tag ID
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Fourhorn Sculpin	173	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Fourhorn Sculpin	226	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Fourhorn Sculpin	192	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Fourhorn Sculpin	241	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Fourhorn Sculpin	239	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Fourhorn Sculpin	143	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Fourhorn Sculpin	310	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Fourhorn Sculpin	252	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Fourhorn Sculpin	226	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Fourhorn Sculpin	259	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Fourhorn Sculpin	204	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Fourhorn Sculpin	206	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Fourhorn Sculpin	206	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Fourhorn Sculpin	131	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Fourhorn Sculpin	145	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Fourhorn Sculpin	177	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Fourhorn Sculpin	171	Total	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Dolly Varden	430	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Least Cisco	147	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Least Cisco	117	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Least Cisco	126	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Least Cisco	118	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Least Cisco	114	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Least Cisco	121	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Least Cisco	147	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Least Cisco	121	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Least Cisco	138	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Least Cisco	98	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Least Cisco	144	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Least Cisco	107	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Least Cisco	304	Fork	ABR 0169
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Least Cisco	151	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Least Cisco	174	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Least Cisco	147	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Least Cisco	146	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Least Cisco	147	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Least Cisco	144	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Least Cisco	128	Fork	

## Appendix A. Continued.

Site Name	Latitude	Longitude	Date	Collection Method	Species	Length (mm)	Length Method	Floy Tag ID
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Least Cisco	145	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Least Cisco	152	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Least Cisco	321	Fork	ABR 0171
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Least Cisco	307	Fork	ABR 0101
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Least Cisco	307	Fork	ABR 0103
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Least Cisco	302	Fork	ABR 0109
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Least Cisco	103	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Least Cisco	154	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Least Cisco	170	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	113	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	122	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	124	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	123	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	103	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	117	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	118	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	103	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	109	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	110	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	111	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	122	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	113	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	121	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	114	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	105	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	113	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	121	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	109	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	132	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	103	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	116	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	126	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	115	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	121	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	111	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	110	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	118	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	120	Fork	



## Appendix A. Continued.

Site Name	Latitude	Longitude	Date	Collection Method	Species	Length (mm)	Length Method	Floy Tag ID
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	114	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	121	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	111	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	120	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	115	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	127	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	100	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	123	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	121	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	120	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	120	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	122	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	113	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	115	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	117	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	115	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	126	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	118	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	122	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	111	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	117	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	119	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	125	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	126	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	105	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	116	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	133	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	144	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	123	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	124	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	117	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	120	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	108	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	120	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	113	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	111	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	112	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	113	Fork	

## Appendix A. Continued.

Site Name	Latitude	Longitude	Date	Collection Method	Species	Length (mm)	Length Method	Floy Tag ID
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Least Cisco	162	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Least Cisco	164	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Least Cisco	162	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Least Cisco	149	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Least Cisco	160	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Least Cisco	147	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Least Cisco	173	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Least Cisco	144	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Least Cisco	143	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Least Cisco	161	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Least Cisco	143	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Least Cisco	135	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Least Cisco	155	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Least Cisco	156	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Least Cisco	124	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Least Cisco	195	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Least Cisco	144	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	105	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	105	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	116	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	119	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	123	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	122	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	112	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	105	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	107	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	118	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	114	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	120	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	117	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	113	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	134	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	112	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	115	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	119	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	111	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	117	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	131	Fork	

## Appendix A. Continued.

Site Name	Latitude	Longitude	Date	Collection Method	Species	Length (mm)	Length Method	Floy Tag ID
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	104	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	101	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	121	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	114	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	127	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	121	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	120	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	106	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	141	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	119	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	126	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Cisco	121	Fork	
WNS-03-F	70.54939	-151.7748	8/6/2018	Fyke Net	Arctic Flounder			
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Humpback Whitefish	378	Fork	ABR 0119
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Humpback Whitefish	295	Fork	ABR 0121
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Humpback Whitefish	380	Fork	ABR 0123
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Humpback Whitefish	319	Fork	ABR 0124
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Humpback Whitefish	263	Fork	ABR 0125
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Humpback Whitefish	293	Fork	ABR 0201
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Humpback Whitefish	215	Fork	ABR 0204
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Humpback Whitefish	362	Fork	ABR 0207
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Humpback Whitefish	189	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Humpback Whitefish	199	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Humpback Whitefish	229	Fork	ABR 0213
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Humpback Whitefish	140	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Rainbow Smelt	256	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Least Cisco	246	Fork	ABR 0203
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Least Cisco	222	Fork	ABR 0206
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Least Cisco	213	Fork	ABR 0208
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Least Cisco	205	Fork	ABR 0210
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Least Cisco	216	Fork	ABR 0212
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Least Cisco	176	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Least Cisco	158	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Least Cisco	179	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Least Cisco	219	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Least Cisco	180	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Least Cisco	174	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Least Cisco	163	Fork	

## Appendix A. Continued.

Site Name	Latitude	Longitude	Date	Collection Method	Species	Length (mm)	Length Method	Floy Tag ID
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Least Cisco	162	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Least Cisco	184	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Least Cisco	166	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Least Cisco	130	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Least Cisco	151	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Least Cisco	162	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Least Cisco	145	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Least Cisco	156	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Least Cisco	115	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Least Cisco	117	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Least Cisco	110	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Least Cisco	126	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Least Cisco	106	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Least Cisco	148	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Least Cisco	161	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Least Cisco	164	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Least Cisco	144	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Least Cisco	132	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Least Cisco	157	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Least Cisco	158	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Least Cisco	155	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	133	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	122	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	116	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	128	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	133	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	125	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	108	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	117	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	122	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	130	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	111	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	117	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	125	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	107	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	118	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	115	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	120	Fork	

## Appendix A. Continued.

Site Name	Latitude	Longitude	Date	Collection Method	Species	Length (mm)	Length Method	Floy Tag ID
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	129	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	106	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	109	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	116	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	115	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	122	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	123	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	132	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	108	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	114	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	112	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	121	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	111	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	130	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	121	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	122	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Broad Whitefish	149	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Broad Whitefish	162	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Broad Whitefish	180	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Broad Whitefish	160	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Round Whitefish	200	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Round Whitefish	134	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Round Whitefish	131	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Least Cisco	166	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Least Cisco	171	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Least Cisco	146	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Least Cisco	154	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Least Cisco	159	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Least Cisco	158	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Least Cisco	164	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Least Cisco	107	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Least Cisco	147	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Least Cisco	164	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Least Cisco	161	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Least Cisco	115	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Least Cisco	151	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Least Cisco	146	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Least Cisco	162	Fork	

## Appendix A. Continued.

Site Name	Latitude	Longitude	Date	Collection Method	Species	Length (mm)	Length Method	Floy Tag ID
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Least Cisco	130	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Least Cisco	122	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Least Cisco	141	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Least Cisco	141	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Least Cisco	156	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Least Cisco	186	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Least Cisco	175	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Least Cisco	115	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Least Cisco	118	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Least Cisco	110	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Least Cisco	141	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Least Cisco	152	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Least Cisco	144	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Least Cisco	136	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	120	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	122	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	138	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	106	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	125	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	122	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	130	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	113	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	124	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	124	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	128	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	120	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	110	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	122	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	121	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	118	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	119	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	123	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	113	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	112	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	108	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	120	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	110	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	120	Fork	

## Appendix A. Continued.

Site Name	Latitude	Longitude	Date	Collection Method	Species	Length (mm)	Length Method	Floy Tag ID
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	116	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	126	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	119	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	114	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	125	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	131	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	120	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	134	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	111	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	118	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	160	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	120	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	135	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	120	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	128	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	119	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	128	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	125	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	114	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	122	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	116	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	112	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	115	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	108	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	112	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	128	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	111	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	126	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	115	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	116	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	121	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	116	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	117	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	110	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	115	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	120	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	111	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	138	Fork	

## Appendix A. Continued.

Site Name	Latitude	Longitude	Date	Collection Method	Species	Length (mm)	Length Method	Floy Tag ID
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	134	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	135	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	124	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	123	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	121	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	116	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	148	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	189	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	116	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	120	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	126	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	138	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	120	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	118	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	115	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	125	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	115	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	101	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	116	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	112	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	110	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	122	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	109	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	134	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	126	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	124	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	115	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	116	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	111	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	116	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	130	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	126	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	116	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	119	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	111	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	122	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	115	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	118	Fork	



## Appendix A. Continued.

Site Name	Latitude	Longitude	Date	Collection Method	Species	Length (mm)	Length Method	Floy Tag ID
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	124	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	106	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	110	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	107	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	111	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	146	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	108	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	132	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	130	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	125	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	113	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	111	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	111	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	139	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	132	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	120	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	126	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	123	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	119	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	111	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	120	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	114	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	95	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	120	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	125	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	120	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	113	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	122	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	126	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	121	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	118	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	116	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	111	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	124	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	121	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	120	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	116	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	117	Fork	

## Appendix A. Continued.

Site Name	Latitude	Longitude	Date	Collection Method	Species	Length (mm)	Length Method	Floy Tag ID
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	126	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Least Cisco	146	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Least Cisco	152	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Least Cisco	155	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Least Cisco	154	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Least Cisco	146	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Least Cisco	156	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Least Cisco	112	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Least Cisco	123	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Least Cisco	118	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Least Cisco	157	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	124	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	120	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	131	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	140	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	129	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	119	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	122	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	126	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	101	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	113	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	110	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	123	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	112	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	115	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	120	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	115	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	111	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	115	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	118	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	131	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	122	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	126	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	109	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	117	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	111	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	123	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	105	Fork	

## Appendix A. Continued.

Site Name	Latitude	Longitude	Date	Collection Method	Species	Length (mm)	Length Method	Floy Tag ID
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	116	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	125	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	126	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	109	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Cisco	121	Fork	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Flounder	150	Total	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Flounder	179	Total	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Flounder	180	Total	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Flounder	206	Total	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Flounder	169	Total	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Flounder	193	Total	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Flounder	190	Total	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Flounder	158	Total	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Flounder	178	Total	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Flounder	229	Total	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Flounder	203	Total	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Flounder	192	Total	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Flounder	186	Total	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Flounder	181	Total	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Flounder	194	Total	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Flounder	185	Total	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Flounder	163	Total	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Flounder	178	Total	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Flounder	125	Total	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Flounder	114	Total	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Flounder	121	Total	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Flounder	103	Total	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Flounder	90	Total	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Flounder	192	Total	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Flounder	196	Total	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Flounder	182	Total	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Flounder	161	Total	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Flounder	190	Total	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Flounder	130	Total	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Flounder	190	Total	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Flounder	186	Total	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Flounder	100	Total	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Flounder	174	Total	

## Appendix A. Continued.

Site Name	Latitude	Longitude	Date	Collection Method	Species	Length (mm)	Length Method	Floy Tag ID
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Flounder	91	Total	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Fourhorn Sculpin	227	Total	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Fourhorn Sculpin	146	Total	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Flounder	161	Total	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Flounder	82	Total	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Flounder	178	Total	
WNS-04-F	70.55019	-151.76645	8/6/2018	Fyke Net	Arctic Flounder	170	Total	
WNS-03-F	70.54939	-151.7748	8/7/2018	Fyke Net	Least Cisco	316	Fork	
WNS-03-F	70.54939	-151.7748	8/7/2018	Fyke Net	Least Cisco	162	Fork	
WNS-03-F	70.54939	-151.7748	8/7/2018	Fyke Net	Least Cisco	167	Fork	
WNS-03-F	70.54939	-151.7748	8/7/2018	Fyke Net	Least Cisco	160	Fork	
WNS-03-F	70.54939	-151.7748	8/7/2018	Fyke Net	Least Cisco	151	Fork	
WNS-03-F	70.54939	-151.7748	8/7/2018	Fyke Net	Least Cisco	224	Fork	
WNS-03-F	70.54939	-151.7748	8/7/2018	Fyke Net	Least Cisco	159	Fork	
WNS-03-F	70.54939	-151.7748	8/7/2018	Fyke Net	Least Cisco	180	Fork	
WNS-03-F	70.54939	-151.7748	8/7/2018	Fyke Net	Least Cisco	148	Fork	
WNS-03-F	70.54939	-151.7748	8/7/2018	Fyke Net	Least Cisco	160	Fork	
WNS-03-F	70.54939	-151.7748	8/7/2018	Fyke Net	Least Cisco	129	Fork	
WNS-03-F	70.54939	-151.7748	8/7/2018	Fyke Net	Least Cisco	153	Fork	
WNS-03-F	70.54939	-151.7748	8/7/2018	Fyke Net	Least Cisco	296	Fork	ABR 0215
WNS-03-F	70.54939	-151.7748	8/7/2018	Fyke Net	Least Cisco <sup>a</sup>	119	Fork	
WNS-03-F	70.54939	-151.7748	8/7/2018	Fyke Net	Arctic Cisco	118	Fork	
WNS-03-F	70.54939	-151.7748	8/7/2018	Fyke Net	Arctic Cisco <sup>b</sup>	129	Fork	
WNS-03-F	70.54939	-151.7748	8/7/2018	Fyke Net	Arctic Cisco <sup>a</sup>	120	Fork	
WNS-03-F	70.54939	-151.7748	8/7/2018	Fyke Net	Arctic Cisco	118	Fork	
WNS-03-F	70.54939	-151.7748	8/7/2018	Fyke Net	Arctic Cisco	126	Fork	
WNS-03-F	70.54939	-151.7748	8/7/2018	Fyke Net	Arctic Cisco <sup>a</sup>	129	Fork	
WNS-03-F	70.54939	-151.7748	8/7/2018	Fyke Net	Arctic Cisco	119	Fork	
WNS-03-F	70.54939	-151.7748	8/7/2018	Fyke Net	Arctic Cisco	139	Fork	
WNS-03-F	70.54939	-151.7748	8/7/2018	Fyke Net	Arctic Cisco	120	Fork	
WNS-03-F	70.54939	-151.7748	8/7/2018	Fyke Net	Arctic Cisco	114	Fork	
WNS-03-F	70.54939	-151.7748	8/7/2018	Fyke Net	Arctic Cisco	123	Fork	
WNS-03-F	70.54939	-151.7748	8/7/2018	Fyke Net	Arctic Cisco	117	Fork	
WNS-03-F	70.54939	-151.7748	8/7/2018	Fyke Net	Arctic Cisco <sup>a</sup>	124	Fork	
WNS-03-F	70.54939	-151.7748	8/7/2018	Fyke Net	Arctic Cisco <sup>a</sup>	110	Fork	
WNS-03-F	70.54939	-151.7748	8/7/2018	Fyke Net	Rainbow Smelt	162	Fork	
WNS-03-F	70.54939	-151.7748	8/7/2018	Fyke Net	Rainbow Smelt <sup>a</sup>	98	Fork	
WNS-03-F	70.54939	-151.7748	8/7/2018	Fyke Net	Rainbow Smelt	227	Fork	

## Appendix A. Continued.

Site Name	Latitude	Longitude	Date	Collection Method	Species	Length (mm)	Length Method	Floy Tag ID
WNS-03-F	70.54939	-151.7748	8/7/2018	Fyke Net	Rainbow Smelt	278	Fork	
WNS-03-F	70.54939	-151.7748	8/7/2018	Fyke Net	Broad Whitefish	170	Fork	
WNS-03-F	70.54939	-151.7748	8/7/2018	Fyke Net	Broad Whitefish	209	Fork	
WNS-03-F	70.54939	-151.7748	8/7/2018	Fyke Net	Broad Whitefish	195	Fork	
WNS-03-F	70.54939	-151.7748	8/7/2018	Fyke Net	Arctic Cod	173	Total	
WNS-03-F	70.54939	-151.7748	8/7/2018	Fyke Net	Arctic Cod	125	Total	
WNS-03-F	70.54939	-151.7748	8/7/2018	Fyke Net	Arctic Cod	90	Total	
WNS-03-F	70.54939	-151.7748	8/7/2018	Fyke Net	Arctic Cod	90	Total	
WNS-03-F	70.54939	-151.7748	8/7/2018	Fyke Net	Humpback Whitefish	260	Fork	ABR 0214
WNS-03-F	70.54939	-151.7748	8/7/2018	Fyke Net	Fourhorn Sculpin	210	Total	
WNS-03-F	70.54939	-151.7748	8/7/2018	Fyke Net	Fourhorn Sculpin	193	Total	
WNS-03-F	70.54939	-151.7748	8/7/2018	Fyke Net	Fourhorn Sculpin	186	Total	
WNS-03-F	70.54939	-151.7748	8/7/2018	Fyke Net	Fourhorn Sculpin	229	Total	
WNS-03-F	70.54939	-151.7748	8/7/2018	Fyke Net	Fourhorn Sculpin	194	Total	
WNS-03-F	70.54939	-151.7748	8/7/2018	Fyke Net	Fourhorn Sculpin	214	Total	
WNS-03-F	70.54939	-151.7748	8/7/2018	Fyke Net	Fourhorn Sculpin	167	Total	
WNS-03-F	70.54939	-151.7748	8/7/2018	Fyke Net	Fourhorn Sculpin	186	Total	
WNS-03-F	70.54939	-151.7748	8/7/2018	Fyke Net	Fourhorn Sculpin	142	Total	
WNS-03-F	70.54939	-151.7748	8/7/2018	Fyke Net	Fourhorn Sculpin	151	Total	
WNS-03-F	70.54939	-151.7748	8/7/2018	Fyke Net	Fourhorn Sculpin	108	Total	
WNS-03-F	70.54939	-151.7748	8/7/2018	Fyke Net	Fourhorn Sculpin	240	Total	
WNS-03-F	70.54939	-151.7748	8/7/2018	Fyke Net	Fourhorn Sculpin	237	Total	
WNS-03-F	70.54939	-151.7748	8/7/2018	Fyke Net	Fourhorn Sculpin	203	Total	
WNS-03-F	70.54939	-151.7748	8/7/2018	Fyke Net	Fourhorn Sculpin	215	Total	
WNS-03-F	70.54939	-151.7748	8/7/2018	Fyke Net	Fourhorn Sculpin	254	Total	
WNS-03-F	70.54939	-151.7748	8/7/2018	Fyke Net	Fourhorn Sculpin	200	Total	
WNS-03-F	70.54939	-151.7748	8/7/2018	Fyke Net	Fourhorn Sculpin	136	Total	
WNS-03-F	70.54939	-151.7748	8/7/2018	Fyke Net	Fourhorn Sculpin	246	Total	
WNS-03-F	70.54939	-151.7748	8/7/2018	Fyke Net	Fourhorn Sculpin	163	Total	
WNS-03-F	70.54939	-151.7748	8/7/2018	Fyke Net	Fourhorn Sculpin	214	Total	
WNS-03-F	70.54939	-151.7748	8/7/2018	Fyke Net	Fourhorn Sculpin	178	Total	
WNS-03-F	70.54939	-151.7748	8/7/2018	Fyke Net	Fourhorn Sculpin	191	Total	
WNS-03-F	70.54939	-151.7748	8/7/2018	Fyke Net	Arctic Cisco <sup>a</sup>	136	Fork	
WNS-03-F	70.54939	-151.7748	8/7/2018	Fyke Net	Arctic Cisco <sup>b</sup>	163	Fork	
WNS-03-F	70.54939	-151.7748	8/7/2018	Fyke Net	Threespine Stickleback	68	Total	
WNS-03-F	70.54939	-151.7748	8/7/2018	Fyke Net	Threespine Stickleback	81	Total	
WNS-03-F	70.54939	-151.7748	8/7/2018	Fyke Net	Arctic Flounder			
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Arctic Cisco	260	Fork	ABR 0216

## Appendix A. Continued.

Site Name	Latitude	Longitude	Date	Collection Method	Species	Length (mm)	Length Method	Floy Tag ID
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Least Cisco	336	Fork	ABR 0217
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Least Cisco	327	Fork	ABR 0220
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Least Cisco	206	Fork	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Least Cisco	154	Fork	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Least Cisco <sup>a</sup>	132	Fork	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Least Cisco	154	Fork	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Least Cisco	115	Fork	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Least Cisco	148	Fork	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Least Cisco	157	Fork	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Least Cisco	145	Fork	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Least Cisco	165	Fork	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Least Cisco	163	Fork	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Least Cisco	159	Fork	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Least Cisco	165	Fork	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Least Cisco	135	Fork	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Least Cisco	160	Fork	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Least Cisco	100	Fork	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Least Cisco	162	Fork	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Least Cisco	150	Fork	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Least Cisco	189	Fork	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Least Cisco	141	Fork	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Least Cisco	141	Fork	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Least Cisco	150	Fork	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Humpback Whitefish	238	Fork	ABR 0219
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Broad Whitefish	208	Fork	ABR 0222
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Arctic Cisco <sup>a</sup>	126	Fork	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Arctic Cisco	130	Fork	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Arctic Cisco	133	Fork	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Arctic Cisco	141	Fork	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Arctic Cisco	129	Fork	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Arctic Cisco	125	Fork	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Arctic Cisco	161	Fork	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Arctic Cisco	123	Fork	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Arctic Cisco	121	Fork	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Arctic Cisco	125	Fork	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Arctic Cisco	124	Fork	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Arctic Cisco	123	Fork	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Arctic Cisco	124	Fork	

## Appendix A. Continued.

Site Name	Latitude	Longitude	Date	Collection Method	Species	Length (mm)	Length Method	Floy Tag ID
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Arctic Cisco	130	Fork	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Arctic Cisco	129	Fork	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Arctic Cisco	116	Fork	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Arctic Cisco	123	Fork	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Arctic Cisco	110	Fork	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Arctic Cisco	121	Fork	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Arctic Cisco	128	Fork	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Arctic Cisco	114	Fork	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Arctic Cisco	119	Fork	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Arctic Cisco	121	Fork	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Arctic Cisco	128	Fork	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Arctic Cisco	126	Fork	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Arctic Cisco	131	Fork	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Arctic Cisco	125	Fork	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Arctic Cisco	112	Fork	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Rainbow Smelt	112	Fork	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Rainbow Smelt	212	Fork	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Arctic Cod	79	Total	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Arctic Cod	74	Total	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Arctic Cod	99	Total	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Arctic Cod	86	Total	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Arctic Cod	112	Total	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Arctic Cod	74	Total	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Arctic Cod	141	Total	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Arctic Cod	85	Total	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Arctic Cod	94	Total	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Arctic Cod	81	Total	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Arctic Cod	96	Total	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Arctic Cod	82	Total	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Arctic Cod	93	Total	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Arctic Cod	96	Total	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Arctic Cod	73	Total	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Arctic Cod	82	Total	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Arctic Cod	79	Total	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Arctic Cod	84	Total	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Arctic Cod	66	Total	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Arctic Cod	77	Total	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Arctic Cod	76	Total	

Appendix A. Continued.

Site Name	Latitude	Longitude	Date	Collection Method	Species	Length (mm)	Length Method	Floy Tag ID
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Arctic Cod	74	Total	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Arctic Cod	81	Total	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Arctic Cod	83	Total	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Arctic Cod	79	Total	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Arctic Cod	90	Total	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Threespine Stickleback	94	Total	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Threespine Stickleback	93	Total	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Threespine Stickleback	82	Total	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Fourhorn Sculpin	216	Total	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Fourhorn Sculpin	132	Total	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Fourhorn Sculpin	99	Total	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Fourhorn Sculpin	114	Total	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Fourhorn Sculpin	152	Total	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Fourhorn Sculpin	74	Total	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Fourhorn Sculpin	165	Total	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Fourhorn Sculpin <sup>b</sup>	212	Total	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Fourhorn Sculpin	106	Total	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Fourhorn Sculpin	144	Total	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Fourhorn Sculpin	171	Total	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Fourhorn Sculpin	92	Total	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Arctic Flounder	90	Total	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Arctic Flounder	53	Total	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Arctic Flounder	196	Total	
WNS-04-F	70.55019	-151.76645	8/7/2018	Fyke Net	Arctic Flounder			

a = Voucher specimen  
b = Unintended mortality



Appendix B. Water temperature and salinity measured at fyke net and beach seine sampling sites during fish surveys in nearshore waters of Harrison Bay, Alaska, 2018.

Site Name	Date	Latitude	Longitude	Temperature (°C)	Dissolved Oxygen (mg/L)	Dissolved Oxygen (%)	Salinity (ppt)	Specific Conductive (mL/cm)	pH
WNS-01-S	8/4/2018	70.5480	-151.80553	5.3	11.57	96.1	7.2	12.65	7.7
WNS-02-S	8/4/2018	70.54912	-151.79382	5.3	11.94	99.3	7.94	13.85	7.59
WNS-03-F	8/5/2018	70.54939	-151.7748	5.7	10.95	95.7	13.88	23.18	8.06
WNS-03-F	8/6/2018	70.54939	-151.77480	7.3	11.14	100.6	12.36	20.76	7.7
WNS-04-F	8/6/2018	70.55019	-151.76645	7.3	11.34	102	12.42	20.88	7.92
WNS-03-F	8/7/2018	70.54939	-151.7748	6	12.35	110.3	14.35	23.89	7.53
WNS-04-F	8/7/2018	70.55019	-151.76645	DNS	DNS	DNS	DNS	DNS	DNS

DNS = Did not sample