



State of Washington
DEPARTMENT OF FISH AND WILDLIFE

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To: Chelsea Morris (ECY-SAM Representative)

From: Danielle Nordstrom (WDFW Representative)

Subject: Deliverable 8b for IAA C2100086

As per the interagency agreement (IAA) No. C2100086, deliverable 8b is complete. WDFW staff and volunteers successfully retrieved mussels in anti-predator cages from 34 SAM mussel monitoring sites (33 obligatory, 1 extra) and 3 SAM reference sites. One cage, SAM-1116 from the 0-10% strata, was lost to winter storms. Mussel cages and all anchoring devices were completely removed from the substrate, with nothing left behind. Mussel bags were removed from each cage, put in a separate bag, and placed on ice for transport. WDFW staff coordinated with each site team to pick up equipment and retrieved mussels which were transported to WDFW's Marine Resource laboratory in Olympia WA. At the time of retrieval, each site lead recorded field data including the final coordinates of the anchored mussel cage. In addition, photos were taken of the mussel cage condition and its surroundings after the allotted exposure time.

Thank you,

Danielle Nordstrom

Fish and Wildlife Biologist

Washington Department of Fish and Wildlife

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Attachment: SAM2023-24Mussels_Deliverable8B_Retrieval.xlsx

SITE_ID	SiteName	COUNTY_NM	CITY_NM	Latitude	Longitude	Retrieval Night	Delivery Date	Data Received
SAM-1046	Burton, Vashon	King	Vashon Island	47.394985	-122.453278	3/7/2024	3/8/2024	yes
SAM-1049	Squamish Harbor	Jefferson	Port Ludlow	47.84649103	-122.6851045	3/7/2024	3/8/2024	yes
SAM-1050	Blaisdell Ln	Kitsap	Port Orchard	47.570419	-122.583621	3/8/2024	3/9/2024	yes
SAM-1051	Livingston Bay	Island	Camano	48.22564545	-122.4521585	3/7/2024	3/8/2024	yes
SAM-1053	Dewatto Bay	Mason	Tahuya	47.45362788	-123.0513843	3/7/2024	3/8/2024	yes
SAM-1116	Woodside Farm	San Juan	Orcas	48.61271	-122.805603		Cage Lost	yes
SAM-1117	N Shore Belfair	Mason	Belfair	47.402693	-122.949881	3/7/2024	3/8/2024	yes
SAM-1118	Minter Bay	Pierce	Gig Harbor	47.36254427	-122.6941664	3/6/2024	3/7/2024	yes
SAM-1119	Fishing Bay E (Indralaya)	San Juan	Orcas	48.683763	-122.919635	3/14/2024	3/14/2024	yes
SAM-1320	Lemolo Shore Dr	Kitsap	Poulsbo	47.706457	-122.606489	3/7/2024	3/8/2024	yes
SAM-1322	Nisqually Head	Thurston	Olympia	47.101242	-122.727109	3/6/2024	3/6/2024	yes
SAM-1324	Driftwood Key Club	Kitsap	Hansville	47.90762883	-122.589414	3/14/2024	3/14/2024	yes
SAM-1325	Birch Bay South	Whatcom	Blaine	48.90521125	-122.7689005	3/6/2024	3/7/2024	yes
SAM-1327	King Spit, Bangor	Kitsap	Silverdale	47.71869241	-122.7483058	3/6/2024	3/6/2024	yes
SAM-1388	Foulweather Bluff	Kitsap	Hansville	47.92045343	-122.5965218	3/14/2024	3/14/2024	yes
SAM-1389	Birch Bay Mid	Whatcom	Blaine	48.922303	-122.745508	3/6/2024	3/7/2024	yes
SAM-1391	Sealion Rd, Bangor	Kitsap	Silverdale	47.72351223	-122.7447727	3/6/2024	3/6/2024	yes
SAM-1392	Roche Harbor	San Juan	Friday Harbor	48.61124	-123.151088	2/5/2024	2/6/2024	yes
SAM-1593	Poverty Bay S	King	Federal Way	47.337058	-122.357321	3/8/2024	3/9/2024	yes
SAM-1595	Irondale Beach	Jefferson	Irondale	48.04089184	-122.765634	3/6/2024	3/7/2024	yes
SAM-1596	Orchard Point, Manchester	Kitsap	Port Orchard	47.567238	-122.5369877	3/6/2024	3/7/2024	yes
SAM-1597	Narrows Airport	Pierce	Tacoma	47.261389	-122.57035	3/15/2024	3/16/2024	yes
SAM-1599	Big Gulch S.	Snohomish	Mukilteo	47.903636	-122.325222	3/15/2024	3/15/2024	yes
SAM-1600	Oyster Bay W	Kitsap	Bremerton	47.57387	-122.680456	3/6/2024	3/7/2024	yes
SAM-1601	N of Browns Point	Pierce	Tacoma	47.306369	-122.44262	3/6/2024	3/7/2024	yes
SAM-1665	Dash Point Beach	King	Federal Way	47.32024283	-122.4143828	3/8/2024	3/9/2024	yes
SAM-1666	Forbes Point	Island	Oak Harbor	48.27002736	-122.6240015	3/7/2024	3/8/2024	yes
SAM-1667	Shell Creek	Snohomish	Edmonds	47.820509	-122.37525	3/6/2024	3/7/2024	yes
SAM-1865	Shorewood Ln	King	Burien	47.491513	-122.366945	3/9/2024	3/10/2024	yes
SAM-1866	Carkeek Park S.	King	Seattle	47.70828782	-122.3806152	3/14/2024	3/14/2024	yes
SAM-1867	Blair WW mid	Pierce	Tacoma	47.267678	-122.393922	3/15/2024	3/16/2024	yes
SAM-1868	Terminal 18 Park	King	Seattle	47.57311342	-122.3547871	3/6/2024	3/7/2024	yes
SAM-1869	Windjammer	Island	Oak Harbor	48.281112	-122.659669	3/7/2024	3/8/2024	yes
SAM-1912	DU West Waterway	King	Seattle	47.581372	-122.357984	3/6/2024	3/7/2024	yes
HC_BS	Broad Spit (Fisherman's Point)	Jefferson	Quilcene Bay	47.80934	-122.81556	3/7/2024	3/8/2024	yes
HC_HO	Hood Canal Holly	Kitsap	Holly	47.5706	-122.9717	3/7/2024	3/8/2024	yes
WB_PCR	Penn Cove Reference	Island	Coupeville	48.21423	-122.718972	3/7/2024	3/8/2024	yes