

**2017
ANNUAL REPORT**

DEPARTMENT OF ECOLOGY
NOV 13 2017
WATER QUALITY PROGRAM

**ZOSTERA JAPONICA CONTROL ON COMMERCIAL
CLAM BEDS IN WILLAPA BAY**

NORTHERN OYSTER CO.

Submitted to:

Washington Department of Ecology

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Treatment Information

All treatments occurred within the boundaries of the provided bed corner coordinates, but all acres within these boundaries may not have been treated. Under special condition S4.B when a buffer is not required due to a cooperating land owner that parcel edge is marked with an X indicating a cooperating land owner. In some cases a parcel edge may have a cooperating land owner and a distance from edge of treatment measurement indicating that multiple landowners own land on the property edge. For additional information concerning locations treated, size in acres, treatment dates, distance from the property, parcel or lease boundary and amount of active ingredient applied to the treatment area refer to Table 1.

Table 1. Treatment information for the control of *Zostera japonica* on commercial clam beds in Willapa Bay, WA.

Treatment Dates	Bed Name	Parcel	Corner Coordinates		Distance From Parcel Boundary To Edge of Treatment Site				Cooperating Landowners			Amount of Pesticide Applied (oz)	Active Ingredient (Total lbs.)	Active Ingredient (oz./acre)		
			Latitude	Longitude	North Edge	East Edge	South Edge	West Edge	North Edge	East Edge	South Edge				West Edge	Acres
5/25/2017	E-215	79005000215	46.5590	-124.0187	35'	0'	35'	>50'	X	X	X	30	300	2.34	1.21	
			46.5589	-124.0135												
			46.5609	-124.0137												
			46.5610	-124.0127												
			46.5666	-124.0127												
			46.5667	-124.0191												
E-114	79005000113	79005000113	46.5667	-124.0111												
			46.5738	-124.0131												
			46.5769	-124.0175												
			46.5769	-124.0210												
TL-153	13113755153	13113755153	46.5665	-124.0163												
			46.5591	-124.0247												
			46.5625	-124.0241												
TL-53.5	12110355053	12110355053	46.5625	-124.0189												
			46.5590	-124.0187												
			46.5625	-124.0241												
			46.5667	-124.0237												
			46.5667	-124.0191												
			46.5625	-124.0189												

5/26/2017	E-215	79005000215	46.5590	-124.0187	35'	0'	35'	>50'	X	X	X	16	160	1.25	1.21
			46.5589	-124.0135											
			46.5609	-124.0137											
			46.5610	-124.0127											
			46.5666	-124.0127											
			46.5667	-124.0191											
	E-114	79005000113	46.5667	-124.0111											
			46.5738	-124.0131											
			46.5769	-124.0175											
			46.5769	-124.0210											
			46.5665	-124.0163											
6/21/2017	E-215	79005000215	46.5590	-124.0187	35'	0'	35'	>50'	X	X	X	14	140	1.09	1.21
			46.5589	-124.0135											
			46.5609	-124.0137											
			46.5610	-124.0127											
			46.5666	-124.0127											
			46.5667	-124.0191											
	E-114	79005000113	46.5667	-124.0111											
			46.5738	-124.0131											
			46.5769	-124.0175											
			46.5769	-124.0210											
			46.5665	-124.0163											
	TL-153	13113755153	46.5591	-124.0247											
			46.5625	-124.0241											
			46.5625	-124.0189											
			46.5590	-124.0187											
	TL-53.5	12110355053	46.5625	-124.0241											
			46.5667	-124.0237											
			46.5667	-124.0191											
			46.5625	-124.0189											
6/22/2017	TL-620	12112255620	46.5081	-124.0257	0'	0'	35'	35'	X	X	X	8.5	85	0.66	1.21
			46.5081	-124.0238											
			46.5100	-124.0228											

Monitoring Results

Under special condition S5.A monitoring is required if treatment occurs up to the 10m property line buffer. In 2017 no treatments occurred up to the 10m property line buffer therefore no additional monitoring was required.

Signature Requirements

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of those persons directly responsible for gathering information, the information in the report is, to the best of my knowledge and belief, true, accurate, and complete and will be updated as necessary. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment of knowing violations.

Bi Shuloh

11-8-17

Signature

Date