

Interim Targets – ORCAS

Orcas				
	2014	2016	2018	2020
Progress Milestones and 2020 Target	<ul style="list-style-type: none"> • 89 individuals in end of year census of southern resident killer whales¹ 	<ul style="list-style-type: none"> • 91 individuals in end of year census of southern resident killer whales 	<ul style="list-style-type: none"> • 93 individuals in end of year census of southern resident killer whales 	By 2020, achieve an end of year census of southern resident killer whales of 95 individuals, which would represent a 1 percent annual average growth rate from 2010 to 2020
Outputs²	<ul style="list-style-type: none"> • Achieve all 2014 interim targets for Chinook salmon (A6.1, A6.3, B5.1) (various) • Achieve escapement and/or harvest rate objectives for Fraser River and Columbia River Chinook salmon stocks in Annex IV, Chapter 3 of the Pacific Salmon Treaty³ (B5.1) (Pacific Salmon Commission) • Source control portions of contaminated sediment site clean up are underway at all sites Sound-wide⁴ (C9.2 ongoing programs) (Ecology & EPA) • Reductions in toxic chemical discharge in stormwater from stormwater permittees' source control programs (C2.4 ongoing programs) (stormwater permittees) • 6.8 million pounds reduction in statewide hazardous material use per year⁵ (C1.4 and C1.6 ongoing programs) (Ecology) • 5 million pounds reduction in statewide generation of hazardous waste per year⁶ (C1.4 and C1.6 ongoing programs) (Ecology) • Gaps in oil spill marine safety identified (C8.1 NTA 	<ul style="list-style-type: none"> • Achieve all 2016 interim targets for Chinook salmon (A6.1, A6.3, B5.1) (various) • Achieve escapement and/or harvest rate objectives for Fraser River and Columbia River Chinook salmon stocks in Annex IV, Chapter 3 of the Pacific Salmon Treaty (B5.1) (Pacific Salmon Commission) • Contaminated sediment site remedial actions are underway at all sites Sound-wide⁷ (C9.2) (Ecology & EPA) • Reductions in toxic chemical discharge in stormwater⁸ (C2.4) (stormwater permittees) • 6.8 million pounds reduction in statewide hazardous material use per year (C1.4 and C1.6 ongoing programs) (Ecology) • 5 million pounds reduction in statewide generation of hazardous waste per year (C1.4 and C1.6 ongoing programs) (Ecology) • Risk reduction measures 	<ul style="list-style-type: none"> • Achieve all 2018 interim targets for Chinook salmon (A6.1, A6.3, B5.1) (various) • Achieve escapement and/or harvest rate objectives for Fraser River and Columbia River Chinook salmon stocks in Annex IV, Chapter 3 of the Pacific Salmon Treaty (B5.1) (Pacific Salmon Commission) • Improved sediment quality at all contaminated sediment sites in Puget Sound marine waters (C9.2) (Ecology & EPA) • Reductions in toxic chemical discharge in stormwater from stormwater permittees' source control programs (C2.4) (stormwater permittees) • 6.8 million pounds reduction in statewide hazardous material use per year (C1.4 and C1.6 ongoing programs) (Ecology) • 5 million pounds reduction in statewide generation of hazardous 	

Orcas				
	2) (Ecology) <ul style="list-style-type: none"> Evaluation of post-regulation vessel behavior completed (B5.1) [Soundwatch boater education & NOAA Fisheries] 	to address oil spill marine safety gaps underway (C8.1 NTA 2) (various TBD)	waste per year ((C1.4 and C1.6 ongoing programs) (Ecology) <ul style="list-style-type: none"> Risk reduction measures to address oil spill marine safety gaps fully implemented (C8.1 NTA 2) (various TBD) 	

¹ Progress milestones for number of individuals in the end of year census are based on an interpolation between the 88 whales at the end of 2011 and the 95 whales in the target for 2020. We do not envision specific management links to these numbers, but rather present these numbers to aid in evaluation of progress.

² Outputs included relate to the key sub-strategies identified in the Action Agenda for the orca target (B5.1, C1 various, C8 all), including the extension that the Action Agenda's reference to B5.1 and the orca recovery plan encompasses efforts to address disturbances from vessels. Toxic chemical related outputs align with the draft proposals developed for "toxics in fish" and "marine sediment quality."

³ Chapter 3 of Annex 4 of the Pacific Salmon Treaty states that "Parties shall: (a) implement a comprehensive and coordinated Chinook fishery management program that: (i) utilizes an abundance-based framework for managing all Chinook fisheries subject to the Treaty; (ii) continues harvest regimes based on annual estimates of abundance that are responsive to changes in production, take into account all fishery induced mortalities and designed to meet MSY or other agreed biologically-based escapement and/or harvest rate objectives; with the understanding that harvest rate management is designed to provide a desired range of escapements over time; (iii) contributes to the improvement in trends in spawning escapements of depressed Chinook salmon stocks and is consistent with improved salmon production; (iv) seeks to sustain stocks at healthy and productive levels by ensuring that stocks achieve MSY or other agreed biologically-based escapement and/or harvest rate objectives"

⁴ Assumes: Source control to address any ongoing loading of the contaminants driving remediation is an essential step of contaminated site clean up that will be needed to improve conditions of fish in urban bays

⁵ The Department of Ecology reports statewide "pounds of hazardous materials reduced (in millions)" as a measure of its activity to "reduce the generation of hazardous waste and the use of toxic substances through technical assistance." Actual annual reductions reported (statewide) during state fiscal years 2008 through 2012 ranged from 3 to 7.2 million pounds. (Total amount of statewide hazardous material use is not reported.) Ecology's goals in recent years have been for reductions of 6.5 to 6.8 million pounds per year. As of late September 2012 Ecology has not published goals for timeframes beyond state fiscal year 2013.

⁶ The Department of Ecology reports statewide "pounds of hazardous waste generated (in millions)" as a measure of its activity to "reduce the generation of hazardous waste and the use of toxic substances through technical assistance." Actual annual amounts of hazardous waste generated (statewide) during state fiscal years 2008 through 2012 ranged from 94 to 122 million pounds. Ecology's goals in recent years have been for reductions of 4 to 5 million pounds per year. As of late September 2012, Ecology has not published goals for timeframes beyond state fiscal year 2013.

⁷ Assumes: Remediation action will be underway for sites that had been identified by 2012; any sites identified after 2012 will be investigated and remediated over a longer time frame.

⁸ Assumes: (1) Monitoring the effectiveness of source control programs, legacy pollutant removal, etc. are implemented as areas of focus of "testing the effectiveness of non-structural ... and programmatic approaches used in stormwater management programs; (2) Stormwater effectiveness monitoring also includes "testing the effectiveness of retrofitting urban areas with various flow management and water quality treatment approaches" These are elements of the Stormwater Work Group's strategic framework for effectiveness monitoring.