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Re: Feedback on Government of Canada's draft Ocean Noise Strategy

World Wildlife Fund Canada (WWF-Canada) is pleased to provide solicited feedback on the draft Ocean Noise Strategy. WWF-Canada is the country's largest international conservation organization. With the active support of more than 150,000 Canadians who care about nature, we help create the conditions to reverse the steep decline of wildlife, at home and internationally. To deliver long-term conservation impact we work in places that are unique and ecologically important, like Canada's marine ecosystems. We work to protect species at risk and areas rich in biodiversity that are experiencing loss or are at high risk of loss, to ensure that the ocean remains ecologically rich and economically prosperous.

Over the past decade, WWF-Canada has invested significant time and resources to increase the understanding and awareness of underwater noise impacts, and to broker solutions to underwater noise pollution. We see this Ocean Noise Strategy as an important opportunity to address underwater noise pollution more effectively in Canada, provided it is developed, structured and implemented with meaningful goals and objectives.

Canada's Ocean Noise Strategy was identified as a need in 2016, and a draft was promised for 2021. The release of the draft Strategy mid-2024 is an important, yet significantly delayed step forward. WWF-Canada has advocated for the urgent need for action since 2020 when we provided feedback on Canada's Ocean Noise Strategy Discussion Document. In 2023, WWF-Canada launched a national Underwater Noise Campaign, asking for #lessnoise through expedited national efforts to manage underwater noise. Over 10,000 Canadians have added their voice to our call for a strong Ocean Noise Strategy that includes measures to effectively manage and reduce underwater noise pollution such as mandating ecologically-based noise targets and thresholds, and implementing mechanisms to enforce them.

General Comments on Draft Ocean Noise Strategy

Efforts to effectively protect marine life from the harmful impacts of underwater noise pollution have not kept pace with rising levels of noise pollution generated by human activities in Canada's Oceans. WWF-Canada supports the federal government's commitment to a comprehensive Ocean Noise Strategy, and ongoing efforts to address the complex and rapidly increasing pressures to wildlife caused by underwater noise pollution. Overall, these efforts need to be ambitious, actionable and time bound to match the scale of the issues we face with noise pollution. The draft Ocean Noise Strategy contains important elements that are necessary for a strong, transparent and actionable Strategy. However, the Strategy is lacking clarity and intent on **how** and **when** Canada will take action to **measurably** reduce noise impacts.

The stated intention of the draft Strategy is "to be a coordinated approach to minimize impacts on marine life" (page 8). While coordination to achieve noise management is laudable, the objective to "minimize impacts of noise" is too narrow and insufficient for the purpose of dealing with the current state of increasing underwater

noise pollution in Canada. Objectives for underwater noise management and reduction should be ecologically based and regionally specific. We recommend that "minimize impacts on marine life" be replaced with "effectively manage and protect marine life and the ecosystems that support them".

Additionally, the recommendations address important and necessary items within the three themes, however, there needs to be stronger incorporation of two important guiding principles:

- The application of ecosystem-based management approaches in an active, adaptive manner that considers the complexity of ecosystems.
- Opportunities to employ a precautionary approach to the development and implementation of recommendations using best-available knowledge

The final Ocean Noise Strategy must include a clear **intent** to identify noise management measures that use the best available scientific and Indigenous knowledge to apply area-based targets, thresholds and limits that provide immediate and adaptive protection measures for affected species. A clear pathway or roadmap to implementation of short, medium and long-term management measures should be outlined in the connected Federal Action Plan, with specific timelines for implementation of priority recommendations within one year of the finalization of the Ocean Noise Strategy and Federal Action Plan. Identifying, implementing, monitoring and enforcing area-based noise targets, thresholds and/or limits are all imperative to measure the effectiveness of the Strategy at mitigating increasing ocean noise impacts to sensitive marine ecosystems from human activities that cumulatively contribute to adverse impacts, and threaten the recovery and sustainability of Canada's oceans.

WWF-Canada strongly supports the application of the precautionary approach as one of the six guiding principles; however, we are disappointed to see it absent from the recommendations. In many areas, such as the Salish Sea, the St. Lawrence Estuary, and Eclipse Sound, a strong foundation of scientific and Indigenous knowledge and data already exists and can guide the rapid development and implementation of precautionary noise management measures, such as adaptive ecosystem-based targets or limits based on ambient noise levels, and biological thresholds in surrounding soundscapes. While we support additional research in areas where there is less available knowledge about underwater noise and its impacts on marine life, lack of data should not be used as justification for delaying the implementation of noise management measures in these areas.

Feedback on the 20 Recommendations of the draft Ocean Noise Strategy for Canada

Direct feedback on the draft Ocean Noise Strategy is provided in the table below including language revisions (in red) to recommendations (first column) and desired outcomes (second column). The third column provides actions for inclusion in the Federal Action Plan to effectively achieve each recommendation. Recommendations 3, 5, 6, 10, 13, and 15 require strong coordinated action and are considered a priority to WWF-Canada. We expect the Federal Action Plan to include a clear pathway to implementation and specific timelines for each of these recommendations.

Table 1: Comments on recommendations that support achieving Strategy Objective 1 (gather and integrate evidence to address knowledge gaps and develop innovative methods, tools and technologies):

Proposed Updates to	Proposed Updates to Desired	Action Required to Achieve Recommendation
Recommendation	Outcome	Outcome
1: Enhance the	Government of Canada support	Establish a national inter-agency working group
Government of Canada's	for collaborative research with	on underwater noise research and partnerships
support for collaborative	partners is enhanced, resulting	within one year of the formalization of the
ocean noise research with	in new ideas and synergies and	Strategy and Federal Action Plan. The working
domestic and international	fostering evidence-based	group will seek advice from external experts to
partners.	decision making.	prioritize key federal research collaborations

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		that will advance underwater noise
		management.
2: Improve understanding	Understanding of changing	Work collaboratively with Indigenous and
of ocean noise in dynamic	ocean conditions, including	coastal communities to monitor and understand
and rapidly changing	rapidly changing ecosystems	regional soundscapes and establish noise
marine ecosystems.	due to ocean noise exposure	baselines where marine ecosystems are
	and human activity, particularly	projected to rapidly change, such as Arctic
	in the Arctic, is improved.	regions and North Coast British Columbia.
		Monitor and track changes in noise levels to
		inform the development of area-based noise
		limits that preserve or restore more natural
		soundscape conditions.
		Equip Guardian programs and community
		organizations with funding, technology and
		ongoing logistical support to establish or expand
		localized acoustic monitoring programs to
		collect standardized baseline data, as
		referenced in Recommendations 4, 5, 7-9.
		Ensure that localized research and monitoring
		programs meet regional standards and defined
		criteria for improving comprehensive knowledge of ocean noise in connected soundscapes, in
		coordination with Recommendations 3-9.
		coordination with neconfinendations 5-5.
		Expand Canada's role in the Protection of the
		Arctic Marine Environment (PAME) initiative
		under the Arctic Council, which is increasingly
		focused on mitigating noise from increased
		shipping due to melting ice.
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		Adapt the U.S. National Oceanic and
		Atmospheric Administration (NOAA) Arctic
		noise mitigation strategies for Canadian waters.
		Learn from and adapt international best
		practices for sensitive ecosystems like the EU's
		Arctic Monitoring and Assessment Programme
		(AMAP), that provides a blueprint for
		incorporating climate-driven changes into
O Complement for the co	I limb minute limb to the control	acoustic monitoring frameworks.
3: Conduct further	High-priority knowledge gaps	Prioritize modeling of species-specific and
research to address	related to the scope and severity	ecosystem-based biological thresholds, and
knowledge gaps on individual- and population-	of ocean noise impacts to individuals and populations of	acute and cumulative physiological effects of short- and long-term noise exposure. Such
level impacts of ocean	marine species are addressed	measures have been mandated by the European
noise.	and incorporated into long-term	Marine Strategy Framework Directive (MSFD),
	noise management, while an	which sets population-level noise exposure
	adaptive and precautionary	criteria and limits for member states to fulfill in
	approach is used to manage	respective regional and sub-regional waters.
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underwater noise impacts in the interim during the knowledge Prioritize filling knowledge gaps associated with: building phase. Priority at risk species (including those of ecological, cultural and economic importance) in regions that are impacted by underwater noise and where the natural soundscape is significantly changed or projected to change due to human activities. Areas where local and regional scientific and Indigenous knowledge on indicator species is available but has not been applied to support noise management. Gather knowledge on broader, area-based ecosystem conditions and soundscapes, recognizing that gathering comprehensive knowledge on individual and population-level impacts of ocean noise on all impacted species may never be achievable. Use knowledge of individual and population level impacts of ocean noise to inform the development and management of area-based biological thresholds and limits for noise generating activities. Clear linkages should be made between how the outcomes of Recommendation 3 will inform and strengthen ocean noise management efforts as stated in Recommendations 5, 10, 13. Take immediate action to reduce noise impacts on species and regions where the soundscapes are significantly influenced by human-generated noise, regardless of knowledge gaps. Within one year of finalization of the Strategy and Action Plan, identify adaptive and precautionary approaches to noise management and reducing noise impacts using best available scientific and Indigenous knowledge, as stated in the Strategy's guiding principles. 4: In collaboration with Indigenous Knowledge and Prioritize this recommendation. Identify clear First Nations, Inuit and learnings from knowledgecommitments towards funding and supporting holders and scientists deepen Métis across Canada, Indigenous communities' ocean noise research, develop ways to consider understanding of ocean noise monitoring and co-management, including and weave together and impacts, informing more additional support for Guardian programs and different knowledge holistic decision making. community-based knowledge building and systems and cultural sharing opportunities. perspectives to better

understand and manage		
ocean noise.		
5: Support Enhance	Generation of distribution and	Collect and utilize the significant existing
research and monitoring of	habitat use data for marine	research assessing species distribution and
marine species to	species is supported, enabling	habitat use in areas already exposed to or facing
understand their	the identification of important	future threats from expanding human activity.
distribution and habitat use	geographic areas where ocean	
in areas at risk from	noise and population densities	Incorporate underwater noise impacts into
existing or potential	of different marine species	SARA recovery plans.
sources of ocean noise	overlap.	CATO TO COVOTY Plans.
and use this data to inform		Access changes to anacias' anatial and
species recovery		Assess changes to species' spatial and
requirements.		temporal patterns in recent years to
requirements.		appropriately and accurately designate critical
		habitat for marine species that are negatively
		impacted by ocean noise whose
		critical/important habitat has not been
		accurately assessed to reflect current
		anthropogenic conditions and seasonal
		distribution patterns, including killer whales, fin
		whales, humpbacks, narwhal, bowhead, blue
		whales and North Atlantic right whales.
		Amend recovery plans to identify and
		incorporate mitigative actions required for
		reducing chronic noise exposure in critical
		habitat. Include such actions as vessel
		slowdowns and limits to activities that
		contribute to noise levels exceeding biological
		limits that at-risk species can withstand without
		adverse effects.
6: Support technologies	Support Requirements for noise	Identify a clear pathway to mandate the mass
Prioritize and mandate the	quieting technologies facilitates	adoption of noise quieting technologies across
development and	the accelerated development	sectors. Providing support and/or incentives to
widespread adoption of	and mass implementation of	develop and implement noise quieting
technologies that directly	safe, environmentally	technologies and operational practices is not
reduce ocean noise at its	responsible and effective low-	sufficient to mitigate noise impacts across
source.	noise technologies and	maritime sectors.
	operational practices.	
		Implement immediate measures to quiet
		excessive noise from the source in the interim,
		including prioritizing no-go zones in protected
		and conserved areas, and slowing vessels down
		in congested waterways.
		congocted matermajor
		Put in place mechanisms to expedite the
		adoption or implementation of quiet
		adoption or implementation of quiet
		adoption or implementation of quiet technologies. This includes the prescription of
		adoption or implementation of quiet technologies. This includes the prescription of regulatory standards relating to noise emissions.
		adoption or implementation of quiet technologies. This includes the prescription of regulatory standards relating to noise emissions. Actionable work here includes moving the work

		thresholds for different classes of marine
		vessels in Canadian waters.
7: Develop or adopt	Standardized methodologies	Prioritize the development of technical working
common best practices	and best practices are	groups and advisory committees to formulate
and standardized	developed and applied across	best practices and standardize methodologies
methodologies across	the Government of Canada for	so current acoustic data collection and
federal organizations for	acoustic data collection,	monitoring programs can be streamlined, and
acoustic data collection,	storage, processing and	databases are readily accessible to inform noise
storage, processing and	reporting.	management and mitigation measures. This
reporting.		includes setting precautionary and adaptive
		targets and limits that evolve as knowledge gaps
		are filled [Recommendations 3, 5,10, 13]
		Develop a shared platform for federal agencies
		to improve data-sharing across departments.
		Internationally, platforms like the UNEP World
		Conservation Monitoring Centre provide
		examples of how standardized datasets can
O. Cuptain and in	Acquetic data of Unation in	drive global marine policy coordination.
8: Sustain and increase	Acoustic data collection is	Expand existing hydrophone networks and
strategic acoustic data	sustained and enhanced,	acoustic monitoring programs into under-
collection by continuing	leading to a deeper	observed and rapidly developing regions,
investments in underwater	understanding of marine	including Central and North Coast British
sound-monitoring	soundscapes and how marine	Columbia and Nunavut.
instruments.	species use their habitat,	
	validation of ocean noise	Prioritize strategic acoustic data collection
	models and improved support	efforts through leadership and involvement with
	for evaluating ocean noise	regional initiatives and Indigenous Guardian
	management measures.	programs using a standardized and collaborative
		data-sharing network, as indicated in
		Recommendations 3-5, 7, 10.
		Expand acoustic monitoring stations throughout
		Arctic waters to provide critical baseline data on
		new and increasing noise sources where marine
		species may be disproportionately impacted
		(e.g., in areas of increased shipping activity due
		to ice melt and expanding industrial operations
		such as Baffinland).
		,
		Review NOAA's work in the U.S. Exclusive
		Economic Zone for insights on how continuous
		monitoring can inform regulatory decisions, and
		the EU's Marine Knowledge 2020 initiative for a
		scalable model for collecting marine acoustic
		data in Europe.
9: Promote the use of	Innovative analytical methods	Explore artificial intelligence (AI) and machine
innovative methods and	and tools are adopted and	learning tools, like those developed by NOAA, to
techniques (i.e., analytical	investments in training and	analyze large volumes of acoustic data more
tools, computing power	capacity are increased,	efficiently. International collaborations with the
	facilitating efficient data	EU's Horizon 2020 Program, which funds Al-
and training) to efficiently	_	_
analyze acoustic data.	processing and enabling faster	based environmental monitoring projects, could
	identification of crucial insights	

and trends that contribute to agile ocean noise management.

boost Canada's capacity to analyze vast acoustic datasets.

Commit to nation-wide accessibility, uptake and utilization of currently available, advanced acoustic detection and monitoring tools, including infrared and AI, to enhance real-time data collection, monitoring and enforcement for effective noise management (e.g., Canada has invested in advanced detection technologies through the Whale Detection Initiative under the Oceans Protection Plan).

Ensure innovative analytical methods are durable and built off modern standards by leading experts, in alignment with Recommendations 16-18.

10: Promote the
Development and
implement evidencebased tools and guidance
to better assess
measurably mitigate and
manage impacts of ocean
noise on marine life.

Evidence-based tools (e.g., metrics, criteria, thresholds) and guidance to better assess impacts of ocean noise on marine life are developed and available used to support-enact noise requirements

management decisions in the Canadian marine environment, including to support the recovery of marine species of concern setting area-based targets that reflect the biological thresholds of marine species of concern, and setting limits to noise producing activities that are required to achieve effective noise management.

Apply a precautionary, ecosystem-based management approach to develop tools and guidance incorporating criteria, metrics, and thresholds based on existing biological and acoustic data, including biological thresholds.

Develop tools and guidance informed by frameworks built upon existing knowledge that sets criteria and requirements for regional or area-based noise targets and limits. Use the EU MSFD's revised mandatory noise limits, which set short-term and long-term area-based binding limits for impulsive and continuous noise, as an example.

Establish and enact Marine Environmental Quality (MEQ) criteria, standards and requirements under the *Oceans Act* that mirror those set by the European Marine Directive, which establishes noise thresholds based on biological thresholds.

Define ocean noise tools with clear and quantitative targets and limits. Implementation of these tools should be prioritized as an urgent measure and a clear timeline should be defined within the Federal Action Plan by 2030 to uphold Canada's climate and biodiversity commitments to protect 30% of Canada's oceans by 2030.

Modernize the application of SARA by incorporating noise impact assessment tools into recovery plans under SARA. This can follow the model used by the U.S. *Endangered Species Act*, which mandates assessments of acoustic impacts for at-risk marine mammals.

Amend the Impact Assessment Act to require project-level assessments of noise impacts on marine populations using thresholds informed by biological limits and informed by international best practices to ensure that population-level impacts are factored into offshore development approvals, monitoring and reporting.

Table 2: Comments on recommendations that support Strategy Objective 2 (enhance collaboration and application of evidence-based tools and technologies to develop and implement clear guidance and management actions)

11: Establish a clear and transparent Government of Canada framework for ocean noise management with defined roles and	A new federal management framework is established that reduces complexity, ensures accountability, and promotes transparency.	Integrated Noise Management Framework: While establishing Canada's national framework, integrate laws from the Oceans Act, Canada Shipping Act, 2001 and Species at Risk Act to enact meaningful protections for regional
responsibilities.		soundscapes, and ensure transparent roles and departmental accountability across government bodies in addressing ocean noise. Establish a dedicated federal committee to oversee noise regulation, involving federal agencies, similar to NOAA's Ocean Noise Strategy Roadmap, which streamlines efforts across U.S. federal entities.
12: Establish national guidance to support the assessment of ocean noise risks from marine activities and projects.	Guidance on assessing the risks of ocean noise from marine activities and projects is developed, resulting in more consistent outcomes and greater clarity and certainty for regulators, partners and stakeholders. Outcomes should include quantifiable objectives, such as targets and limits, for reducing assessed risks from noise generating activities.	Integrate accountability mechanisms for all departments that are responsible for industries and activities that contribute to cumulative noise impacts on marine soundscapes. Develop standardized risk assessment tools modeled after the UK's Marine Noise Registry to ensure consistent evaluation of noise impacts across Canadian waters. This would allow decision-makers to assess cumulative noise risks across multiple projects and regions. Create and enforce standardized noise assessment protocols for all marine projects under the Impact Assessment Act, ensuring nationwide consistency in evaluating risks and mitigation strategies.
13: Develop appropriate	Ocean noise management	MEQ Objectives: Establish marine
management objectives	objectives are developed and	environmental quality standards and
supported by the implementation of specific	supported by specific measures that are employed in a timely	requirements, as prescribed under the <i>Oceans</i> Act, for ocean noise that pertain to regional and
and timely measures to	manner to effectively manage	sub-regional ecosystem needs and
effectively manage help	minimize impacts on marine	requirements, including setting precautionary
minimize impacts of ocean	species and soundscapes.	upper limits for noise according to biological

noise on marine species		thresholds of indicator species, based on
and their associated		available scientific and Indigenous knowledge.
ecosystems.		
		MPA-Specific Noise Objectives: Create and
		enforce specific noise management objectives
		in existing and future Marine Protected Areas
		(MPAs) management plans, including limiting or
		restricting chronic noise exposure from noise
		producing activities, including commercial
		shipping. This can build on the EU's <i>Marine</i>
		Strategy Framework Directive, which integrates
		noise limits in MPAs to protect sensitive species.
		Timely Management Interventions: Establish a
		formal system for implementing rapid-response
		noise mitigation measures (e.g., vessel
		slowdowns or rerouting) in areas of heightened
		risk, similar to NOAA's rapid intervention
		protocols for protecting endangered marine
		species from noise.
		Ensure that management objectives align with
		the guiding principles of the Strategy and are
		informed and created in alignment with
		Recommendations 2-5, 7-8, 10.
14: Support the active	Indigenous communities are	Build capacity for Indigenous communities to
leadership of Indigenous	supported and encouraged to	lead noise management initiatives. Canada is
communities in initiatives	lead and participate in planning,	already a lead on co-management frameworks
to understand and manage	information gathering, analysis	that integrate traditional knowledge into
ocean noise.	and decision-making associated	biodiversity conservation.
	with ocean noise management.	
	Ö	Provide long-term funding and support for
		Indigenous communities to take leadership roles
		in regional ocean noise governance, especially
		through the Indigenous Guardians programs to
		ensure Indigenous knowledge informs decision-
		making on noise reduction strategies.
		making of moise reduction strategies.
		Support active leadership from Indigenous
		communities with streamlined monitoring, data
		management and processing capabilities that
		align with, and are adaptable to standardized
		best practices and data management platforms
		as per Recommendations 7-10.
15: Promote participation	Increased participation in	Identify government agencies responsible for
in Enhance, expand and	voluntary measures is achieved	promotion, monitoring and enforcement of noise
		•
incentivize voluntary ocean	through federal leadership,	management measures, including voluntary and
noise measures and	ambition and incentivization,	mandatory speed reduction programs.
enhance compliance with	together with greater	
mandatory ocean noise	compliance with mandatory	Prescribe regional standards for noise levels
measures.	measures that aim to minimize	required to be maintained for healthy
	effectively manage the impacts	soundscapes (e.g. under MEQ regulations in the
1	of ocean noise on marine	Oceans Act – see Recommendation 13). These

species and their associated ecosystems.

standards will set expectations for voluntary and mandatory measures to achieve.

Identify how the effectiveness of these measures is to be assessed (pertinent to Recommendation 16).

Specify and expand voluntary noise management measures and programs with measures to immediately mitigate noise impacts, such as industry-wide slowdown or exclusion zones. Prioritize geographic regions where the state of knowledge on noise exposure and related impacts on marine species is well understood, and sufficient data is available.

Identify priority regions for enhanced voluntary and mandatory measures using at-risk species that face significant imminent threats from ocean noise as indicator species for broader ecosystem-based noise reduction efforts, including killer whale populations in coastal British Columbia and belugas in the St. Lawrence Estuary.

Update and strengthen mandatory slowdown measures, such as in the Gulf of St Lawrence (formerly voluntary, now on year-7 of an interim order) to reflect current scientific knowledge on seasonal range and distribution patterns of North Atlantic Right Whales.

Expand mandatory slowdown measures to include protection measures for other marine species impacted by noise in the Gulf of St. Lawrence.

Transport Canada to introduce an interim order under the *Canada Shipping Act, 2001* that transitions voluntary measures to mandatory. This will increase compliance and effectiveness of regional measures as opposed to relying on industry participation to achieve noise management targets.

Coordinate the creation and implementation of voluntary and/or mandatory noise management measures between federal departments, as stated in Recommendations 1-2, 18-20 including DFO, Parks Canada and ECCC.

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		Incorporate measures through Transport
		Canada authorizations that ensure conservation
		and economic mandates and commitments are
		being met and are accountable by federal
		authorities.
16: Develop and employ	Standardized performance-	Identify and develop standardized noise impact
standardized methods and	measurement methods and	evaluation informed by information and results
indicators to measure the	indicators are developed and	gathered in Recommendations 7-12.
effectiveness of ocean	employed to accurately evaluate	
noise management	the effectiveness of specific	Use regional MEQ standards established under
measures.	management actions for all	the Oceans Act as noted in Recommendations
	noise producing activities and	13 and 15 as baselines for desired soundscape
	sectors.	conditions that measures for noise management
		can be assessed against.
		Develop robust indicators and measurement
		methods to assess activity-based management
		measures, including through mechanisms such
		as the Impact Assessment Act process,
		ensuring that project developers and regulators
		can effectively measure whether mitigation
		efforts are achieving the desired noise reduction
		outcomes.
		Identify effectiveness monitoring indicators and
		methods to evaluate the effectiveness of acute
		and cumulative commercial shipping impacts,
		through authorizations under the Oceans Act
		and Canada Shipping Act, 2001.
17: Adopt a leadership role	Support for international	Enhance Canada's role within the International
with a view to advance	cooperation and joint initiatives	Maritime Organization (IMO) by advocating for
Support of international	to address ocean noise is	stronger global noise reduction measures,
cooperation and joint	increased, resulting in more	including:
initiatives to manage,	effective collaboration and	(a) prioritizing the establishment of
mitigate, and reduce ocean	management along with	mandatory targets for Member States
noise.	increased international	and in areas beyond national
	awareness of the threat posed	jurisdiction
	by ocean noise.	(b) supporting energy efficiency measures
		for ships with co-benefits for the
		reduction of underwater noise
		(c) conducting case studies and engaging
		in knowledge-sharing, in line with the
		IMO's Action Plan to further prevent
		and reduce underwater radiated noise
		(URN) from ships and bring findings to the IMO
		(d) responding to Inuit Circumpolar
		Council's invitation to help develop
		guidance on reducing underwater noise
		in the Arctic and Inuit Nunaat
		(e) ensuring ships registered to Canada's
		flag are implementing IMO's revised
		rtag are implementing IMO's revised

Guidelines for the Reduction of
Underwater Noise from Commercial
Shipping.
Collaborate on international research projects,
such as the International Quiet Ocean
Experiment (IQOE) to enhance global efforts to
mitigate ocean noise.

Continue ongoing and undertake further work at
the Arctic Council to address transboundary
noise impacts in the Arctic, as Norway and
Russia have done through joint efforts to monitor
and manage noise in Arctic shipping corridors.

Table 3: Comments on recommendations that support achieving Strategy Objective 3 (Strengthen communication, coordination and engagement to raise awareness and increase participation in the management of ocean noise)

18: Strengthen coordination	Coordination and	Establish regional multi-stakeholder advisory
between the Government of	collaboration between the	committees and working groups by 2025.
Canada and partners and	Government of Canada and	
stakeholders concerning	partners and stakeholders	Incorporate stakeholder contributions into the
ocean noise assessment and	continue to be strengthened,	finalization and implementation of the Strategy,
management.	leading to greater trust in	including clear mechanisms to communicate
	decision-making processes	departmental authorities and responsibilities,
	associated with ocean noise	accountability and overall effectiveness on noise
	assessment and	management decisions over time.
	management and an	
	enhanced ability to arrive at	
	informed decisions that	
	consider diverse interests.	
19: Increase the sharing of	Effective and timely	In developing a "framework for integrated noise
ocean noise information and	information-sharing	management" (Recommendation 11), mandate
knowledge among federal	processes are established,	ocean noise to be considered a pollutant in
departments and agencies.	reducing duplication and	federal legislation, and require active monitoring
	facilitating better	across Government of Canada activities, using
	understanding, planning and	reporting on the NBSAP to regularly update
	evidence-based decision	monitoring.
	making across federal	
	organizations.	Develop a centralized data-sharing platform
		where all federal departments can access and
		upload noise-related data. This would enhance
		real-time collaboration between agencies,
		similar to the EU's Marine Knowledge 2020
		program.
20: Partner with public- and	Awareness and	Support ongoing outreach and information
private-sector organizations	understanding of ocean	dissemination on the impacts of ocean noise on
and Indigenous communities	noise and its impacts are	communities and Indigenous Peoples and steps
to foster enhanced awareness	enhanced through various	being taken to appropriately address ocean
and understanding of ocean	outreach activities delivered	noise concerns at a local, regional and national
noise and its impacts.	with partners.	scale.

Closing Comments

WWF-Canada looks forward to continuing to work with DFO and the Government of Canada, throughout the consultation period and beyond, to deliver a stronger plan to protect whales and marine life from underwater noise pollution. We'll continue to call for a **final** Ocean Noise Strategy and Federal Action Plan that:

- Establishes a clear and imminent pathway to enact noise limits for activities we know have a negative
 effect on regional soundscapes such as shipping and natural resource exploration and exploitation. These
 noise limits should be based on the biological limits of impacted species as well as by scientific and
 Indigenous knowledge.
- Includes a clear roadmap to establishing adaptive area-based noise reduction targets in places where human-made noise already dominates the <u>natural soundscape</u> (for example, the Salish Sea and St. Lawrence seaway) and noise limits to preserve the natural soundscapes of areas that are rapidly developing (such as the Arctic and northern coast of British Columbia.).
- Upholds Canada's conservation commitments by <u>quieting</u> marine protected areas and critical habitat
 for species at risk. Recognition and clear definitions of continuous and impulsive noise pollution from
 human activity should be incorporated into MPA management plans and SARA recovery plans to accurately
 reflect cumulative noise impacts on the protection and recovery of species in defined habitats, based on
 current knowledge and adapted as knowledge gaps improve.
- Incentivizes the development and <u>mass</u> adoption of quieter technologies while immediately implementing operational measures that can reduce noise such as ship slowdowns in critical habitats and marine protected areas.
- **Enshrines regulations** to ensure noise levels are monitored and limits and reduction targets are enforced. Without teeth, it's unlikely Canada's Ocean Noise Strategy will help.

How and **when** the ambitions of the draft strategy will be met or even defined is currently unclear. The process of going from a draft to implementation won't happen fast enough to protect endangered marine species. WWF-Canada is urging the federal government to take immediate actions to mitigate the escalating impacts of underwater noise pollution in the interim. Our recent report, <u>Canada's Ocean Noise Strategy: Legislation and Policy Analysis</u>, identifies key existing legal mechanisms that Canada can use to safeguard marine biodiversity. These include:

- Marine Environmental Quality provisions in the Oceans Act to set regional noise standards and limits.
- The Species at Risk Act to strengthen protections for acoustic components of critical habitat and listed species from noise.
- The Canada Shipping Act to manage for cumulative vessel noise levels.
- The Canadian Environmental Assessment Act to require adherence to noise limits and reduction targets and project-based conditions to manage noise impacts.
- Designing and implementing new Marine Protected Areas, and amending existing ones, with measures to limit noise generating activities within their boundaries.

As the Ocean Noise Strategy: Legislation and Policy Analysis describes, Canada has the knowledge and tools required to take precautionary and impactful steps towards conserving quieter oceans while simultaneously addressing knowledge gaps and future management needs. Through finalizing a strong and actionable Ocean Noise Strategy, we can measurably manage ongoing and increasing noise impacts on marine life.

Thank you for the opportunity to comment and provide feedback on the draft Ocean Noise Strategy.

Regards,

Karen Saunders Vice President, Wildlife & Industry