## Appendix 1. Summary table of harassment literature reviewed.

Author/Date	Species	Study Topic	Disturbance Type
Andersen et al (1996)	Moose	• short term behavioural and physiological responses	• military disturbance (aircraft, pedestrian, ATV, vehicle, snowmachine and cannon fire)
Bergerud et al (1984)	Caribou (barren-ground)	• demography, movement and behaviour patterns	• industrial activities or transportation corridors
Bradshaw (1994)	Caribou (woodland)	• behavioural responses, movement and distribution	• petroleum exploration
Bruinderink & Hazebroek (1996)	Ungulates	• mortalities	traffic collisions
Calef et al (1976)	Caribou (barren-ground)	behavioural response	• aircraft over-flights
Chubbs et al (1993)	Caribou (woodland)	• movement, displacement and habitat selection	• clear-cutting
Cote (1996)	Mountain goat	overt behavioural response	helicopter over-flights
Curatolo & Murphy (1986)	Caribou (barren-ground)	• movement and distribution (crossings)	• Pipelines, roads and traffic
Dau & Cameron (1986)	Caribou (barren-ground)	• distribution during calving	Roads and associated human activities
Davis et al (1985)	Caribou (barren-ground)	• calving success	<ul> <li>low-level over-flights, bombing, artillery firing and strafing</li> </ul>
Dorrance et al (1975)	Deer (white- tailed)	• home range size, movement and distribution around trail	• snowmobiles and snowmobile trails
Eckstein et al (1979)	Deer (white- tailed)	• home range size, movements and activity patterns	• snowmobiles and snowmobile trails

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Ferguson & Keith (1982)	Moose and elk	• displacement	cross country skiing
Freddy et al (1986)	Deer (mule)	behavioural responses	pedestrians and snowmobiles
Frederick (1991)	Elk, wolves and grizzly bear	• behavioural responses, displacement and habitat use	forest roads
Gunn et al (1985)	Caribou (barren-ground)	<ul> <li>behavioural responses during calving (especially concerning nursing and foraging)</li> </ul>	• helicopter over-flights and nearby landings
Harrington & Vetch (1991)	Caribou (woodland)	• activity changes and energetic costs (short-term)	low-level jet over-flights (aircraft)
Harrington & Vetch (1992)	Caribou (woodland)	• calving success	low-level jet over-flights (aircraft)
Hobbs (1989)	Deer (mule)	• mortality rates	<ul> <li>harassment resulting in increased energy expenditure (computer simulated model)</li> </ul>
Horejsi (1981)	Caribou (barren-ground)	behavioural responses	moving vehicles
Jakimchuck (1980)	Caribou (barren-ground)	• overall effects	• human developments and activities (literature review)
Johnson & Todd (1986)	Caribou (mountain)	• behavioural responses, movement and habitat use	highway crossings and vehicles
Joslin (1986)	Mountain goat	• population productivity and composition changes	• energy exploration (helicopter based seismic activity)
Knight (1981)	Elk	• movement and distribution	oil and gas development
Kuck et al (1985)	Elk	• calf movements, habitat selection and survival	• simulated mine disturbance (noise and pedestrian presence)

Author	Species	Study Topic	Harassment Type
Luick et al (1994)	Caribou	• energy and reproductive costs (calving period)	• low flying military over-flights (aircraft)
Lyon (1984)	Wildlife and fisheries	• general effects	• roads (literature review)
MacArthur et al (1982)	Mountain sheep	• cardiac and behavioural responses	• vehicles, humans and domestic dogs
McLaren & Green (1985)	Muskoxen	behavioural responses	• snowmobiles
Miller (1983)	Caribou (barren-ground)	• migration routes and habitat use	highways (spring migration crossings)
Nellemann & Cameron (1996)	Caribou (barren-ground)	• calving distribution and habitat use	• oil field development (includes roads, pedestrians, vehicles, pipelines, buildings and associated equipment)
Neumann & Gray	Wildlife	ecological effects	• snowmobiles
O'Neil (1993)	Wildlife	• general effects	• roads (increased access development)
Richens & Lavinge (1978)	Deer (white- tailed)	• behavioural response and habitat use	snowmobiles and snowmobile trails
Rost & Bailey (1979)	Deer (mule) and elk	• distribution and habitat use	• roads
Shideler et al (1986)	Caribou	general response	• human developments and land use (literature review)
Simpson (1987)	Caribou (mountain)	• winter range use and behavioural responses	• snowmobiles
Stemp (1983)	Bighorn sheep	heart rate responses	• helicopter over-flights, vehicles, pedestrians and domestic dog approaches
Tyler (1991)	Reindeer (Svalbard)	<ul> <li>short-term behavioural responses</li> </ul>	• snowmobiles

Author	Species	Study Topic	Harassment Type
Valkenburg & Davis (1983)	Caribou (barren-ground)	• behavioural responses and habituation	• aircraft over-flights
Weisenberger et al (1996)	Captive mule deer and mountain sheep	• heart rate and behavioural responses	• simulated low-altitude jet aircraft noise
Whitten & Cameron (1985)	Caribou (barren-ground)	• distribution (calving), displacement and productivity	• Prudhoe Bay oil field (buildings, aircraft, pedestrians, snowmobiles, pipelines, roads and vehicles)
Yarmoloy et al (1988)	Deer (mule)	<ul> <li>behavioural responses, activity patterns, home range, habitat use and productivity</li> </ul>	All terrain vehicles (ATVs)