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Environmental Assessment Bibliography

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Introduction

Oil was first discovered at Prudhoe Bay in 1968, and since then the Prudhoe Bay field has become one of the most studied environments in the world. Industry and government have conducted many assessment programs to evaluate the effect of oil field operations on the environment. This research forms a comprehensive view of the biological and physical environments of the region.

This bibliography summarizes industry-sponsored environmental programs on the North Slope. Millions of dollars have been spent on these programs. This bibliography is by no means complete, but it does provide a representative view of the major work. This bibliography does not include programs sponsored by state, federal, and local agencies.

Contrary to the view that industry-funded environmental assessment is limited to studies that are stipulated by the resource agencies, a review of the following bibliography will indicate a broader perspective regarding the spatial and temporal extent of industry programs. Many projects are initiated to facilitate issues resolution apart from an individual permit action.

BP Exploration (Alaska) Inc. operates the western half of the Prudhoe Bay field, Endicott and Milne Point. BP Exploration's environmental assessment program has evolved over the last ten years. For example, BP has funded projects that are not limited to applied science—gaps in understanding related to basic science need to be filled before the issues in an "applied" sense can be resolved.

Industry-funded environmental assessment has been an essential component of the development of mitigation measures and the resolution of many biological issues. For example, mitigation for caribou passage concerns has been a highlighted element of the majority of permit actions on the North Slope. The State of Alaska studied caribou as early as the late 1960's and into the 1970's. Stipulations have been regularly applied through the state lease operations and pipeline right-of-way permits for caribou passage. One requirement related to pipeline height. The original pipelines in Prudhoe Bay were constructed at a height of three feet. This was increased to an agency requirement for a height of five feet, based largely on professional judgment. When heights of seven feet and even ten feet were discussed during permitting meetings, industry initiated a study to respond to the question of pipeline height. As a result of industry-funded studies, it was determined that a five-foot pipeline height was sufficient for caribou passage and that there was no significant increase in passage with either seven-foot or ten-foot heights. This is an example where it was more cost-effective for industry to fund an assessment program that would resolve this issue, rather than continue responding to a "hit or miss" approach to mitigation requirements. This program, which responded to a permit negotiation process for Kuparuk, became the standard mitigation measure that is now applied routinely to all pipelines.

The bibliography is organized by operating unit and within each operating unit by major program category.

1. PRUDHOE BAY UNIT

MAJOR ENVIRONMENTAL PROGRAMS

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 - Volume 3: Fish Study
 - Volume 4: Vegetation, Tundra Birds, Lagoon Birds
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 - Volume 3: Infaunal Monitoring Program, Epifaunal Monitoring Program
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2. LISBURNE DEVELOPMENT AREA (PRUDHOE BAY UNIT)

MAJOR ENVIRONMENTAL PROGRAMS

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Volume 3: Archaeology
Volume 4: Fish
Volume 5: Fish

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- Volume VI: Fish Distribution and Abundance; Mark-Recapture Study
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- Volume V: Fish Distribution and Abundance
- Volume VI: Fish Food Habits; Fish Prey Survey; Age, Growth, and Condition of Anadromous Fish
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Coastal Distribution Patterns of Major Fish Populations in Relation to the Physical Environment in the Central Beaufort Sea
Coastal Distribution Patterns of Invertebrate Populations in Relation to the Physical Environment in the Central Beaufort Sea
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Changes in the Condition and Physiological Parameters of Anadromous Fish Species in the Central Beaufort Sea During the Overwintering Period
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