Environmental Justice Goes Underground? Historical Notes from Canada’s Northern Mining Frontier

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ABSTRACT

Industrial mining in Canada’s territorial north has produced negative social, economic, and environmental consequences for aboriginal communities in the region since the early twentieth century. Many of these historical impacts persist: toxic sites associated with abandoned mines located within aboriginal traditional territories have become a source of great concern in recent years. It is difficult, however, to analyze historic mining activity within the traditional siting debate that has dominated the environmental justice movement in North America, as mining companies invariably locate where economic ore bodies exist. Instead, we argue that northern mining conflicts might best be understood through a productive alliance of North American environmental justice with insights from political ecology, a sub-discipline that has traditionally focused on environmental injustices in Third World settings, particularly local conflicts over access to resources that originate with colonialism and the expansion of global capital.

In the mid-1990s, representatives of the Sahtu Dene, an aboriginal group from the Great Bear Lake region of the Northwest Territories, travelled to Ottawa to demand health and environmental studies to determine the past, present, and future impacts of radiation exposures from historical uranium mining on both workers and the community. After numerous rebuffs, the community finally secured an agreement with the Canadian government to undertake joint historical, scientific, and epidemiological studies to determine the impact of uranium mining in its territory. These reports, and testimony by Dene people, recounted the advent of radium and uranium mining in the region in the 1930s, including the development of the mine, an ore concentration facility, transportation network, and the service town of Port Radium. Although the mine closed briefly in 1940 in response to collapsing radium prices, it reopened in 1942 and was subsequently nationalized by the Canadian government in 1944 to secure uranium supplies for the Allied atomic bomb project. During this period, the company hired local native people to perform unskilled work at the site and along the ore transportation route, including the loading and unloading of uranium ore in burlap sacks for barge transport along northern waterways to a railhead in Alberta. Not only were potential health and safety concerns associated with native workers handling dusty (and far from secure) sacks filled with radioactive material ignored, but the company operated with little concern for the broader environmental hazards connected to radium and uranium production, dumping radioactive tailings directly into Great Slave Lake, local pothole lakes, and on land near Port Radium.

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1Canada-Déline Uranium Table. Action Plan. (Ottawa: Northern Affairs Program, December 2002).


4Intertec Management Ltd. *Port Radium Fact Finder Report* (Regina: Intertec, 2004). Protection was also inadequate for non-aboriginal workers in the mine and mill operation. See Gordon H.E.
Uranium mining at Port Radium ceased in 1962 (though silver was mined until 1982), but the toxic legacy of the abandoned mine later became a source of controversy as high rates of cancer among the ore carriers prompted national media coverage and two documentary films. Persistent aboriginal demands for action resulted in innovative collaborative government–community environmental and health studies and remediation plans. While these studies concluded that the levels of uranium exposure among aboriginal workers were not the direct cause of elevated cancer rates and that radioactive tailings sites are ecologically benign, the Sahtu Dene in Deline have disputed these findings. The community studies have also highlighted the deep psychological scars remaining for many of the generation who lived through this period and who associate the mine with the painful social and economic changes associated with industrial development. For people who benefited little from the resource wealth removed from their territory and who live with the environmental legacies of mining, a sense of bitterness and injustice remains.

At first glance, the case of the Sahtu Dene and uranium mining might be understood through the lens of environmental justice. This history concerns a marginalized, racialized group that was exposed to environmental hazards not of their own making. The Dene experience connects to a wider history of what has been called “nuclear colonialism,” the process by which uranium mining, nuclear waste sitting, and nuclear testing has treated aboriginal territories in North America as “sacrificial landscapes” in the global geopolitical struggles of the nuclear age. While the benefits of uranium mining accrued to private capital and the state, the environmental effects were disproportionately borne by local communities and landscapes. Arguably, this episode also follows a pattern of development that has characterized historic mining in Northern Canada generally, where recent studies have identified a legacy of environmental hazards in aboriginal territories. Many abandoned mines are located in proximity to aboriginal communities or important hunting and fishing territories. Some communities, like the Sahtu Dene, have undertaken what might be thought of as environmental justice activism to secure recognition, compensation, and remediation for mining’s environmental impacts.

A closer examination suggests, however, that traditional environmental justice perspectives alone—with their emphasis on distributive injustice in waste siting decisions and the quantification of environmental inequity—are inadequate to comprehend the particular roots and dynamics of mining’s unequal social and environmental legacies. Mineral development is not easily reducible to a sitting issue within an environmental justice framework. As any mine developer will tell you, mines are sited where viable ore deposits are found, not necessarily where pliant or disenfranchised communities are located. In addition, aboriginal (and other) critiques of northern mineral development highlight a broader range of concerns than simply environmental contamination, including concerns about the social impacts of development and the connection of industrial mining to wider histories of dispossession, colonialism, and social change. This article will argue that a complete understanding of racial, social, and environmental inequities associated with historical mining activities in Canada’s northern territories requires a conceptual blend of perspectives from environmental justice and political ecology, cognitive fields that (strangely) have yet to engage in a sustained scholarly dialogue. We begin by briefly sketching the lineaments of large-scale mining development in the Canadian North, followed by a necessarily brief discussion of the applicability of perspectives from environmental justice and political ecology. We conclude with a call for a “historical political ecology” which considers the importance of regional political economies and histories of colonialism in framing how environmental injustice is
understood, experienced, and contested in aboriginal communities.

MINING IN NORTHERN CANADA

Private sector mining interests began to develop large-scale industrial mining projects in the Canadian North as the profitability of placer gold in the Klondike began to decline in the early twentieth century. Prior to 1945, mining activity was concentrated at only three main ore bodies across a vast territory: the Keno Hills Silver Mines near Mayo in the Yukon Territory, the radium/uranium mines around Port Radium, NWT, and the gold mines at Yellowknife, NWT (Figure 1). In the 1950s and 1960s, at the height of the post-war economic boom, mining companies proceeded with significant exploration and development activities at such sites as the lead-zinc deposits at Pine Point, NWT, lead deposits at Faro in the Yukon (the Cyprus-Anvil Mine), and nickel at Rankin Inlet, NWT. Despite the relatively small number and wide geographic dispersal of development sites, industrial mining activity had a transformative impact on the region. By the 1950s, metal mining and fuel production (the latter almost entirely for local consumption in industrial developments and settlements) accounted for over 80 percent of territorial economic output. More importantly, mining provided the impetus for the extension of southern Canadian capital, labor, and state power into formerly remote, predominantly aboriginal territories. As Morris Zaslow and Kenneth Rea recount, industrial mining operations spurred massive public and private investments in transportation infrastructure such as railways and airstrips, energy developments such as hydroelectric projects, and industrial resource-extraction technologies such as underground mines and ore-concentration mills. Mining mega-projects also sketched new settlement patterns onto the landscape as several instant mining towns modeled on southern suburban design principles were built to house a largely imported workforce and their families.

The new centers of mining activity carried dire environmental consequences for adjacent aboriginal communities. On the north shore of Great Slave Lake, for example, gold mining on a commercial scale began at Yellowknife in the 1930s with the development of the Con, Negus, and Giant mines and continued until 2005 with significant health and environmental impacts on the adjacent Dene communities of Dettah and Ndilo. The smelting of ore at the Giant mine site in particular resulted in local emissions of the carcinogenic arsenic trioxide (in addition to vast accumulations of the chemical in underground storage), with studies in the 1970s

FIG. 1. Major historical mining sites and communities in Northern Canada.

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showing that 90% of aboriginal children had arsenic levels in their hair above safe levels of one part per million.\textsuperscript{16} A second emblematic example tells a similar story, as the Chipewyan Dene community of Fort Resolution experienced profoundly negative changes to the ecology of their local region when, in 1964, the Pine Point lead-zinc mine and community were established forty miles to the east along the south shore of Great Slave Lake. Through the 1950s and 1960s, exploration and development activities, including staking, drilling, the cutting of exploration lines, and the excavation of open pits, destroyed many Dene tramples, while competition for local game animals from the imported workforce further diminished hunting and trapping opportunities. In the 1970s, studies demonstrated that the mine tailings facility was prone to seasonal overflow and leakage, with waterborne heavy metals and sulfuric acid potentially impacting fish populations.\textsuperscript{17}

For all these changes imposed on their communities and local environments, aboriginal northerners received few economic benefits from the mines. Aboriginal people traded with mining communities, and often participated in seasonal casual labor such as guiding, wood cutting, and meat hunting. But discriminatory hiring practices, a lack of training opportunities, cultural difficulties adjusting to industrial wage labor, and in some cases, difficulty commuting to the mines prevented any significant participation in the mining labor force. In 1968 aboriginal workers comprised only 3.4% of the workforce in the five mines located in Yukon Territory and 5.4% in the six mines operating in the Northwest Territories.\textsuperscript{18} Company bunkhouses and northern mining communities reflected the values and desires of southern Canadians, and aboriginal people felt unwelcome in and often avoided towns such as Mayo, Yellowknife, and Pine Point.\textsuperscript{19} At the same time, northern aboriginal communities bore the full brunt of social impacts associated with sudden industrial development in the region, including drug and alcohol abuse, violence, and the sexual exploitation of women by a workforce composed largely of outsiders.\textsuperscript{20} Prior to the first negotiation of impact and benefit agreements in the 1970s, which gave aboriginal communities some input and participation in the development process, mining development represented for many aboriginal communities an appropriation of local resources, a risk to community health, and a threat to the contact-traditional economy of hunting and trapping.

**MINING AND ENVIRONMENTAL JUSTICE**

These and other histories of mining’s negative environmental consequences and limited economic benefits for aboriginal communities carry obvious resonances with the core narratives of the environmental justice movement. Indeed, coarse evidence on the spatial distribution of mines in Canada suggests at least some affinity with the debate over the disproportionate siting of toxic facilities and waste sites near communities with large populations of racial minorities in the United States.\textsuperscript{21} One recent discussion paper, for example, indicates that roughly 1,200 aboriginal communities in Canada are situated within 200km of active mines, with 36% of First Nations communities located within 50km of a mine.\textsuperscript{22} In 2002, a report of the Canadian government’s Commissioner of the Environment and Sustainable Development identified 30 abandoned mine sites in Canada’s northern territories where the presence of toxins either required or may require remediation pending further assessment.\textsuperscript{23} A wider-ranging consultant’s report from the year 2000 suggested that there were 160 abandoned mines in the territorial north, with 67 of these sites


\textsuperscript{17}For a summary see, Janet E. Macpherson, “The Pine Point Mine,” in Everett B. Peterson and Janet B. Wright (eds.), *Northern Transitions, Volume I: Northern Resource Use and Land Use Policy Study.* (Ottawa: Canadian Arctic Resources Committee, 1978): 65–110.

\textsuperscript{18}Northwest Territories Archives, Prince of Wales Northern Heritage Centre, G 2002-004, Box 23, S. Collymore, “Native Labour in the Northern Mining Industry,” Unpublished Draft Paper, Department of Indian Affairs and Northern Development.


exhibiting either chemical contamination or physical instability; many of these mines are likely located within aboriginal territories. Such correlative data reveals very little, however, about the causal factors that lead to the establishment of mines in Northern Canada. As mentioned previously, the siting of mines near aboriginal communities was more incidental than intentional: mining companies located their operations where they found significant deposits of minerals and where existing or planned transportation routes allowed for the profitable exploitation of sub-surface resources. Furthermore, if one analyzes the territorial north as a distinct political entity (it is the only part of Canada where mining is regulated by the federal government), it would be difficult to demonstrate the imposition of disproportionate environmental impacts on aboriginal communities in the region because they formed a majority of the population in many areas. Where non-native populations existed in large numbers, they tended to be white settlers living in mining communities that were subject to the same environmental hazards (in addition to occupational hazards) as aboriginal people.

Clearly, the case of aboriginal conflicts with mining operations demands conceptual frameworks that move beyond the statistical analysis of disproportionate environmental burdens that has dominated environmental justice scholarship in North America. Such an approach is not new, at least from a theoretical standpoint. As early as 1996 environmental justice scholars in the United States such as Pulido, Pellow, and Hieman were calling for research to expand beyond the narrow focus on quantitative proofs of environmental racism towards an examination of the qualitative or ideological manifestations of racism within environmental debates. They argued that environmental inequality could not be understood entirely within a liberal civil rights context (with its limited focus on distributional inequities), but must be analyzed alongside more structural forms of racism that are embedded in the historical expansion of colonialism and capitalism. In a closely related critique, many scholars have argued that the predominance of spatially delimited statistical research within the environmental justice literature ignores the multiple geographic scales—local, regional, national, or global—in which specific stories of industrial development and its attendant environmental injustice are situated. As Low and Gleeson have argued, “there is an urgent need for international environmental and ecological justice movements to transcend the ‘politics of place’ in order that the nature of industrial commodity production may itself be problematized.” For all of these critics, to focus only on the uneven distribution of environmental hazards at the end of the production cycle risks ignoring the origins of environmental racism within broader forces such as global capital accumulation, industrial expansionism, and colonial or state-driven development strategies.

Though many do not explicitly employ the term environmental justice, several recent international studies of mining and aboriginal communities have adopted this increasingly nuanced view of environmental inequities. Studies from diverse places such as the Ok Tedi mine in Papua New Guinea, mineral development in Wisconsin, and uranium mining in Australia provide several key insights applicable to the case of Northern Canada. One important theme to emerge from these investigations is the fact that aboriginal communities themselves often perceive conflicts over mining not as an issue of distributional equity but as part of the much broader injustices associated with their historical experience of colonialism. Although aboriginal communities maintain complex and variable relationships to mining companies, with some actively promoting the economic benefits of mineral development on traditional lands, for many groups discourses of development and progress through mineral extraction are strongly associated with their historical memory of dispossession, social dislocation, and the disruption of

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traditional lifestyles and land uses. Resistance to the environmental problems associated with mining developments is thus coupled with the broader themes of cultural survival and sovereignty over traditional lands. As some observers have pointed out, even in nominally post-colonial societies, struggles over the environmental impacts of mining activity in marginal aboriginal lands do not manifest themselves solely as local conflicts, but as individual nodes of resistance to the larger global system of capital accumulation and neo-colonialism.

THE POLITICAL ECOLOGY OF NORTHERN MINING

As in other parts of the globe, mining activity in Northern Canada in the early to mid-twentieth century proceeded hand in hand with state-supported colonization efforts and capital expansion. Although Canada assumed sovereignty over its vast northern territories in 1870, the conclusion of treaties between northern aboriginal groups and the Canadian government awaited the Klondike gold rush (Treaty 8, 1899) and the discovery of oil at Norman Wells, NWT (Treaty 11, 1921). Thereafter, industrial mining was one of the primary means (along with hydrocarbon development) by which the Canadian government attempted to advance a modernization agenda in the North, in effect colonizing the region through the subsidized provision of infrastructure and capital (i.e., money for railways, roads, airstrips, etc.) to support the development of private sector and strategic military mega-projects. In the Canadian national imagination, the North was (as one mining geologist had it) “a vast, empty, cold, country”: both an unpopulated wilderness and a theatre of colonial development and expansion fuelled by resource extraction.

This attitude received its fullest political expression in Prime Minister John Diefenbaker’s government’s 1958 declaration of a northern vision for industrial development in Canada. In environmental terms, the structural racism inherent in discourses of colonialism and development was most visibly manifest not through siting decisions per se, but through the erasure of aboriginal territorial interests and concerns about the ecological and social impacts of resource developments, including mining.

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Northern mining projects produced, as Martinez-Alier has argued, in a global context, conflicts over the valuation of local resources by colonial and commercial elites, the differential impact of environmental degradation on subsistence-oriented communities, the exclusion of local people from national parks and nature preserves, and grassroots rural resistance to state-sanctioned conservation and re-
source development projects.\textsuperscript{38} Historical political ecology examines these themes through a combination of archival methods and a “field-informed interpretation of society-nature relations in the past... how and why those relations have changed (or not changed) over time and space, and the significance of those interpretations for improving social justice and nature conservation today.”\textsuperscript{39} Such a perspective incorporates a normative dimension that strongly echoes the movement orientation of much environmental justice scholarship.\textsuperscript{40}

From a theoretical perspective, accounts of the historical-geographical conditions and processes implicated in the discursive and material production of nature and landscape are central to understanding resource conflicts within a political ecology framework. Although much political ecology scholarship is focused on contemporary environmental conflicts, explicitly historical accounts seek to examine regional histories and political economies of resource development and environmental change. Amongst geographers, a strong Marxist political economy tradition undergirds this perspective, which seeks to analyse and critique how the capitalist production of nature is implicated in processes of uneven geographical development.\textsuperscript{41} This tradition is enhanced and extended through examinations of the ideologies and discourses that facilitate resource development and environmental transformations—such as notions of progress and modernization, or the discursive construction of resource peripheries as “primary-commodity supply zones.”\textsuperscript{42} Perhaps the most sustained efforts to theorize and investigate the historical dimensions of political ecology have emerged from studies of colonial appropriations of land and resources, such as Andrew Suyter’s model of “material-conceptual landscape transformation.”\textsuperscript{43} Suyter, Neumann, and others have shown how colonial myths of wilderness and pristine nature both rested upon and facilitated the physical erasure of indigenous occupation and livelihood strategies in the name of the improvement and/or preservation of nature (which, as Neil Smith argues, are either side of the same developmentalist coin).\textsuperscript{44} These approaches complement the work of environmental historians such as William Cronon, whose work traces the links between environmental change, resource management practices, and colonial dispossession.\textsuperscript{45} In important ways, then, environmental-historical and political ecology scholarship both draw from and contribute to the broader efforts of postcolonial scholars to investigate the material and discursive processes implicated in colonialism.

Recent scholarship on environmental conflict in North America has called for the development of a “First World” political ecology, which recognizes that “colonialism’s traces are still clearly inscribed in patterns of resource use, access, and control in many First World locations.”\textsuperscript{46} As Caroline Desbiens demonstrated in her study of hydroelectric dam controversies in Quebec, “in contexts where past colonial relations continue to unfold into the present, struggles for political recognition are fought in the environmental arena through culturally specific constructions of nature, land and resource management.”\textsuperscript{47} These struggles, we argue, are in turn refracted through longstanding historical conflicts over natural resources and socio-environmental transformations rooted in colonial relations. Northern Canada provides an almost ideal environment for examining these processes.
setting for applying a historical political ecology analysis in a First World context because, as with many colonized environments in Asia and Africa, the region was never subjected to a large land-based settlement rush and thus has maintained majority or large minority aboriginal populations in many areas to the present day. Yet many of the same conflicts between the state and aboriginal hunters over conservation policies (i.e., protected areas and hunting regulations) are woven into the history of Northern Canada in similar ways to the Third World. As with many commercial colonies in the Third World, the designation of the region as an industrial resource frontier fostered rapid economic and environmental change that, historically, provided few benefits for the region’s aboriginal inhabitants. Understood from a political ecology perspective, the landscapes produced by industrial development in the North—resource towns, transportation networks, and disturbed local environments—became material expressions of the power and priorities of southern Canadian institutions, technologies, and ideologies.

The historical political ecology approach also helps answer critics of environmental justice research who bemoan an excessively quantitative or functional definition of the field. As mentioned above, many scholars have argued that in order to comprehend environmental justice claims within their historical-geographical contexts, it is important to move beyond simplistic “siting” perspectives that appeal to problematic universalizing or bureaucratic definitions of justice and equity. Environmental justice research shares with political ecology an emphasis on the uneven geographical distribution of the causes and effects of environmental problems; what historical political ecology, in particular, also highlights is the origin of these maldistributions within larger-scale cultural and economic processes such as colonialism and underdevelopment, and the connections between environmental degradation and closely related social and economic inequalities. This perspective also links activism around environmental questions to aboriginal struggles for land and treaty rights and agitation for self-determination.

At the same time, historically grounded research within a broadly defined environmental justice framework offers a critical means to understand more fully the variety of causal factors that produce environmental inequities in particular places. In separate calls for more historical research within the field of environmental justice, Egan and Holifield have both claimed that the qualitative and narrative approach that dominates historical political ecology framework allows scholars to similarly account for the myriad ways in which environmental racism was manifest through mining activity (i.e., the willful ignorance of hunting and trapping sites, the absence of aboriginal employment policies, inadequate mine waste facilities, etc.), without subsuming the unique experience of affected communities within a narrow definition of what constitutes environmental injustice.

Finally, an examination of northern mining within a historical political ecology framework allows scholars to contextualize global narratives of mining and aboriginal people within a long-established political economy tradition in Canada. This body of critical scholarship (most readily identified with Harold Innis) draws on similar themes to political ecology such as dependency, the vulnerability of remote resource-based communities to the vagaries of international capital, and uneven geographical development associated with staples (i.e., primary resource) production in Canada’s hinterland regions. While Innis’ work on northern mining tended to focus on instant towns rather than aboriginal communities, his


critique of the single-minded exploitation of raw resources to serve metropolitan interests at the expense of local economic development strongly influenced debates around northern development in the 1970s. At the same time, aboriginal appeals for political recognition during the environmental assessment of the Mackenzie Valley Pipeline proposal—the landmark 1974–1977 Berger Inquiry—were embedded within the global struggle against colonialism, aboriginal rights to traditional lands, and the long term sustainability of the North as a homeland. The resulting Dene Declaration became one of the first explicit statements of aboriginal opposition to northern mega-development from the standpoint of what we would now describe as political ecology.54

Without a doubt, the struggle for political recognition and control that began with the Berger Inquiry has been partly achieved in the past thirty years through comprehensive land claims settlements covering large areas of the territorial north (giving First Nations limited control over sub-surface development), aboriginal inclusion in environmental assessments, and the negotiation of impact and benefit agreements for major resource developments. With renewed industry commitments to sustainable mining and its social license to mine, consultation with aboriginal communities over the environmental, social, and economic implications of mining has become a required part of development proposals.55 Indeed, many northern aboriginal groups now actively promote mineral and hydro-carbon development as a key economic development strategy. Nonetheless, the diamond rush of the 1990s and the subsequent development of the Ekati and Diavik mines in the Central Arctic raised concerns in several Dene communities about the token nature of their participation in environmental assessments, the perceived pro-development stance of the environmental assessment boards, and the federal government’s insistence that environmental assessments consider only site-specific impacts rather than cumulative or broad-scale regional environmental changes from multiple mining projects.56 Moreover, in the last half-decade or so (before the recent economic downturn hit the commodities sector), mineral exploration and development in Canada has reached new peaks. In some cases (such as at Mayo, Port Radium, and Pine Point), defunct mining operations are being investigated for possible reopening, often alongside ongoing environmental monitoring and remediation from previous bouts of mineral exploitation. While the political landscape of aboriginal rights and interests in northern development has shifted significantly since the 1970s, many concerns remain about the environmental and social consequences of the new mineral and hydrocarbon rush in the region. For many, unease with new development stems from an omnipresent history—etched into local memories and local landscapes—of environmental degradation that has accompanied mining mega-projects.57

Such historical perspectives are critical to understanding the environmental justice dimensions of past and contemporary mining developments in Northern Canada. Indeed, the integration of these local-scale historical narratives of environmental dislocation with a macro-scale analysis of themes from the political economy and political ecology literatures offers crucial theoretical perspectives from which to analyze contemporary mining developments in Northern Canada as part of a broad environmental justice agenda. In more general terms, this approach can also help scholars and activists transcend the many boundaries—conceptual, political, regional, and disciplinary—that have prevented a full analysis of the many manifestations of indigenous environmental justice struggles within the First World setting of North America.

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56For an overview, see Ellen Bielawski. Rogue Diamonds: Northern Riches on Dene Lands. (Toronto: Douglas & McIntyre, 2003).
57For example, aboriginal testimony during the environmental assessment of the proposal to reopen the Pine Point mine was strongly informed by the previous negative experience of mining development in the region. See Mackenzie Valley Environmental Impact Review Board. Report of Environmental Assessment and Reasons for Decision on Tamerlane Ventures Inc.’s Pine Point Pilot Project. EA0607-002, February 22, 2008.
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