APPENDIX 1. LITHIC RAW MATERIAL DATABASE

Appendix 1 contains a summary of data collected and described by me from lithic reference collections at Bonnefanten Museum (Maastricht) and Katholieke Universiteit (Leuven) and field survey to describe the range of potential raw materials available in the study region. This list is partial and does not include all of the raw materials encountered in archaeological assemblages.

HAINAUT REGION

Har-M *Middle Harmignies*
Craie d'Obourg (geological)

Homogeneous dark gray flint with large, irregular splotches which are lighter gray or outlined. Surface is matte and smooth to touch. Translucent on edges. Chalk cortex is thick but not banded.

Har-B *Upper Harmignies*
Silex de Spiennes (geological)

Medium to light gray, opaque, flint with many small inclusions - ovoid or round, lighter gray, spots - and fewer, but larger, irregular splotches. One sample (No. 13) has numerous tiny white flecks scattered uniformly on the surface. Chalk cortex but less thick than Har-M, with a grainier, washed/eroded aspect, possibly somewhat dissolved. Irregular surface at contact between flint and cortex, resulting in intrusive cortex.

Psp *Petit-Spiennes*
(archaeological)

Surface collection near mine.
Tan-gray flint with tiny white flecks, patinating white or bluish-white, sometimes with rust-colored veins in patina. Dark brown under chalk cortex.

Sp1 *Classical Spiennes*
(archaeological)

Material collected from extracted layer within classical (first discovered) system of mines at Spiennes. Also known as Camp-à-Cayaux.
Medium gray flint with small gray spots and splotches, becoming dark gray/black at contact with thick chalk cortex.

Sp2a *New Spiennes*
(archaeological)

Material collected from excavation dump of new system of flint mines and galleries at Spiennes, excavated in 1992 by Hubert.
Two groups distinguished in sample: 1) (nos. 14-17) banded flint, tan to brown, with wider light and narrower dark bands, banding not present throughout, 2) (nos. 18-21) brown flint patinated bluish-white or white. All pieces in sample have irregular splotches of coarser grain than the matrix.

Sp2b *Classical Spiennes*
(archaeological)

Material collected from new excavations of the classical system, but shallower (closer to surface) than classical system.
Brown flint with thick chalk cortex. One piece (no. 24) is banded similar to Sp2a, and has thin, travertine-like cortex.

Sp3 *Classical Spiennes*
(archaeological)

Surface material collected at classical mines.
Three groups distinguished: 1) (nos. 27-28) gray, matte, with large, irregular, splotches of coarser grain, 2) (nos. 29-31) dark brown to black, patinating white or gray with rust-colored veins/lines, 3) (nos. 32-33) dark brown, patinating white with rust-colored circles and veins, especially on ridges.

PLATEAU DE BRABANT

JJ *Jandrain-Jandrenouil (Orp-le-Grand)*
(archaeological)

Surface collection near mine.
Grades in color from gray to black, matte, opaque, with few large inclusions. One piece (no. 38) is banded with wide light and narrow dark bands; no. 41 is also banded, but in grays. Rust-colored veined patina present on no. 37. Irregular surface at contact between flint and chalk cortex. Three pieces are irregular nodules with thin, discolored cortex or cobble surface. Generally of poorer quality than other proveniences, but still useable.

MAASTRICHT REGION

Ba *Banholt (Mheer)*
(archaeological)

Surface collection from knapping floor.
Gray, banded brown or reddish-brown under cortex. Coarser-grained, circular inclusions. No. 111 has a large ringed oval, coarser in the middle with a light white ring.

Dom *Dommartin*
(archaeological)

Material collected from an LBK settlement site close to an extraction point.
Gray-brown or black, with many small inclusions - ovoid spots or irregular splotches. Thin chalk cortex over regular surface.

ENCI KVL 1
(geological)

From Level 1 of ENCI quarry, Lanaye chalks.
Thick chalk cortex, fossil inclusions (one long, narrow one). Very large lighter gray ovoid circles and small ovoid spots common.

ENCI KVL 2A
(geological)

From Level 2A of ENCI quarry, Lanaye chalks.
Black, opaque but translucent if thin. Thick chalk cortex. Very homogeneous. Similar to Obourg flint (Har-M) but with more inclusions and less glossy.

ENCI KVL 12A
(geological)

From Level 12A of ENCI quarry, Lanaye chalks.
Dark gray flint, banded in material but not under cortex, with thick chalk cortex.

ENCI Nekum
(geological)

From Nekum layer of ENCI quarry, Lanaye chalks.
Very homogeneous. Light gray with dark gray marbling and large ovoid spots and irregular splotches of coarser grain. Thin chalk cortex. Some pieces grade to brown.

Kee Keerderbosch (Cadier en Keer)
(archaeological)

Surface collection from knapping surface new mine, Margraten.
Brown-black flint, opaque, matte, banded. No. 78 has wide brown and narrow black bands. No. 84 has multi-colored bands (gray, dark gray, light gray, tan) from center to cortex. No. 83 is homogeneous light tan/yellow with tiny black flecks and cortex over irregular surface.

Kelmis B (Form U Aken)
(geological)

From Aken Formation, Aix-la-Chapelle.
Homogeneous light gray quartzite with coarse surface. Very thin chalk rind (<1 mm). No inclusions.

Lixhe (Gulpen)
(geological)

From Lixhe chalks, Gulpen.
Black, opaque, matte, with few inclusions which are medium-large irregular, coarser-grained, splotches. Thick chalk cortex over irregular surface.

MhH *Mheer Hoogbosch*
(archaeological)

Surface collection from knapping floor of extraction site near material source.
A few large, coarser-grained inclusions, small spots common, generally rough and of poorer quality but still useable.

NL2 *Valkenburg - Schaelsberg*
(archaeological?)

Numerous specks uniformly spread over surface, no inclusions.

Ru1[1] *Rullen Haut, Locality 1*
Ru1a *Rullen Haut, Locality 1a*
(archaeological)

Collected from Locality 1a in the Rullen site.
Variable. No. 91 is banded under cortex. No. 92 is reddish brown to tan with white specks and thick cortex. No. 93 is a uniform gray with small round specks and also has the dark band under the cortex. Nos. 95-96 both have dark red portions, somewhat banded.

Ru4 *Rullen Haut, Locality 4*
(archaeological)

Collected from Locality 4 in the Rullen site.
Banded dark and light gray under cortex. Light gray with small, darker gray, inclusions.

RyP *Ryckholt Plateau*
(archaeological)

Surface collections on the Ryckholt Plateau, near extraction points.
Diverse in color, grain, and kinds of inclusions. Most commonly gray to black with oval or round spots, sometimes with large, coarser-grained splotches, patinating bluish-white. Nos. 63-64 are coarser-grained clint, tan-beige, opaque, with no inclusions but densely flecked.
A large collection of cores has been collected from the fill of the Ryckholt mine, having been reduced on the surface near the mine entrance and then discarded within the mine. They are quite homogeneous, mottled dark and light gray, matte, opaque, with small round ringed spots (0.5-1 cm in diameter), and often banded under the cortex. Some are patinated bluish-white.

Schi *Schiepersberg (Valkenburg)*
(archaeological)

Surface collection from knapping floor near supposed extraction point.
Homogeneous tan with very numerous tiny black specks on surface which is otherwise uniformly tan. Coarse with rough fracture surface.

[1] Samples come from different locations within the Rullen site. Locations 1, 1a, 2, 3, and 4 come from Rullen Haut while location 5 comes from Rullen Bas.

Si1 *Simpelveld - Baneheide*
(archaeological)

Surface collection from knapping floor near possible mine(s).
Variable sample. No. 71 is black with few inclusions and chalk cortex. No. 72 is coarser-grained, matte, with few inclusions and thin, grainy chalk cortex. No. 73 is banded with dark wide and light narrow bands. No. 74 has a reddish patina. No. 76 is tan, coarser-grained, opaque, with no inclusions.

Si2 *Simpelveld - Baneheide*
(archaeological)

Surface collection from knapping floor near possible mine(s); collected at the same time as Si1 but from a different knapping area.
Homogeneous tan-gray, faintly banded, with small ovoid spots. One piece is tabular, with cortex on two flat opposing surfaces.